



# CITY OF MARGATE

RFQ No. 2023-010 | General Civil Engineering,  
Building Architectural, and Landscape Architectural  
Consulting Services

Due Date/Time: April 19, 2023 at 11:00 am



## Prepared for:

City of Margate  
Purchasing Division  
5790 Margate Boulevard  
Margate, FL 33063





# TABLE OF CONTENTS

**Table of Contents | Page 2**

**1. Transmittal Letter | Page 3**

**2. Checklist - Exhibit A | Page 5**

**3. Corporate History | Page 6**

**4. Corporate Qualifications | Page 8**

**5. Project Team | Page 12**

**6. Personnel Assigned | Page 15**

**7. Professional Registration | Page 20**

**8. Project Management | Page 25**

**9. Proof of Insurance | Page 29**

**10. Offeror's Certification | Page 30**

**11. Offeror's Qualifications Statement | Page 31**

**12. SF 330 Forms | Page 37**

**13. Scrutinized Companies Certificate | Page 89**

**14. Non-Collusive Affidavit | Page 90**

**15. Drug-Free Workplace Program Form | Page 92**

**16. Byrd Anti-Lobbying Certification | Page 93**

**17. Statement of Compliance | Page 94**

**18. E-Verify Form | Page 103**

**19. Additional RFQ Information | Page 104**

Addenda No. 1 Acknowledgement | Page 104

Addenda No. 2 Acknowledgement | Page 105

## Tab 1: Transmittal Letter



# 1. TRANSMITTAL LETTER

April 19, 2023

City of Margate  
Purchasing Division  
5790 Margate Boulevard  
Margate, FL 33063

**RE: General Civil Engineering, Building Architectural, and Landscape Architectural Consulting Services  
RFQ No. 2023-010**

Dear Selection Committee Members:

CHA Consulting, Inc. (CHA), *formerly Eckler Engineering, Inc.*, is prepared to offer the City of Margate comprehensive engineering services to maintain critical infrastructure, safeguard community environmental and public health, and bring innovation and best practices to improve Margate's water and wastewater infrastructure. CHA's Florida water team is committed to continuing to provide Margate with the same high-quality, cost-efficient professional engineering services that we have provided previously, and provide to numerous municipalities in the South Florida region. **We want to be your selected consultant for this contract and remain your trusted consultant for years to come.** CHA offers Margate the following value-added benefits:

**Familiar Team:** Our Florida water team has provided previous engineering services for the city's water and wastewater utility facilities and holds continuing contracts with several other clients in Palm Beach and Broward Counties, dating back 30+ years. Under these continuing contracts, we have successfully completed water/wastewater treatment plant rehabilitations, water main/forcemain replacements, water storage and distribution upgrades, sanitary collection system expansions, sanitary lift station replacements/upgrades, and numerous utility models, studies and master plans. These projects have included complex water processes, intricate design details, and extensive permitting through local and state regulatory agencies. Our Florida water team has provided water and wastewater services to the South Florida region for the last 37 years and has local technical leaders and managers, such as **Doug Hammann, PE, and Bryant Facey, PE, who have historically worked with Margate and are known by your staff.** In addition to serving Margate, we hold over 50 continuing contracts for water, wastewater, and reclaimed water services in Florida, including with the nearby cities of Coral Springs, Tamarac, Pompano Beach, Palm Springs, Melbourne, Vero Beach, St. Augustine, Ormond Beach, and Orange City; and Orange, Seminole, Brevard, and Volusia counties.

**Focused Water, Wastewater, and Reclaimed Water Expertise:** CHA's Florida water team brings the specialized services to meet the engineering management and technical needs of the key Capital Improvement Projects (CIP) anticipated to be completed for the City under the scope of this project. We have completed numerous water and force main replacements related to materials of concern/age/capacity upgrade (Coral Springs); hundreds of sanitary lift station rehabilitations/replacements (dozens in nearby Coral Springs); numerous WWTP system component rehabilitation and replacement; and multiple water supply and treatment facility rehabilitation/replacements. Recent water projects have included consumptive use permitting (Tamarac, Melbourne), lime system upgrades (Tamarac, Palm Beach County, Coral Springs, Ormond Beach), 4.0 MGD ozone/GAC WTP (Polk County), and a 2.0 MGD reverse osmosis (RO) Water Treatment Plant (WTP) expansion (Vero Beach). Recent wastewater/reclaimed water projects have included a 216 MGD influent pump station (Orange County), 3.0 MGD headworks (Polk County), and a new Basin Management Action Plan (BMAP) compliant 1.0 MGD/3.5 MGD wastewater treatment plant (WWTP) (Tavistock/Toho Water Authority). Through these and other similar projects, we are familiar with current and pending regulations, including those resulting from Florida Senate Bill 712 (Clean Waterways Act), Senate Bill 64 (Effluent Discharge Elimination), BMAP and total maximum daily load (TMDL) requirements, and other related requirements.

## WHY CHA?

- ✓ **Highly Experienced Staff** | Extensive combined, applied experience available for assignments
- ✓ **Local Florida Experience** | Team members have extensive Florida experience in water and wastewater systems
- ✓ **Specific Florida Regulatory Knowledge** | The CHA team has strong relationships with the Florida Department of Environmental Protection (FDEP) and South Florida Water Management District (SFWMD) staff
- ✓ **Continued Relationship** | The core CHA team will remain the same as those that served the city since 2018 and who understands the City of Margate's needs as they have been master planned





**Cost-efficient Conveyance Engineering:** Our team routinely completes a large volume of pipeline and booster station projects. As such, we have the experience to provide a high-quality, cost-effective product. CHA was recently selected against national competitors for a six-year, \$60M (construction cost) potable and reclaimed water pipeline renewal, replacement, and extension program for the City of Clearwater. In response to a ruptured force main, CHA provided emergency design, permitting, and post-design services for installing approximately 15,200 linear feet of 54-inch HDPE redundant bypass force main, including approximately 9,700 linear feet of pipe installed utilizing the horizontal directional drill installation method to cross important city streets, rivers, and other critical locations for the City of Fort Lauderdale. We recently completed the Pineda Causeway horizontal directional drill (HDD) design of two 16-inch potable water mains crossing the Indian River, Merritt Island, and the Banana River for the cities of Melbourne and Cocoa. For the City of Port St. Lucie, we designed 10 miles of water, wastewater, and reclaimed water pipelines using HDD, jack-and-bore trenchless technology, and traditional trench excavation installation.

**Industry-recognized Experts in Hydraulic Modeling and Master Planning:** From capital improvement plan (CIP) development to detailed evaluations of distribution/collection transmission systems to confirm design criteria, our hydraulic modeling and master planning team has unmatched experience in Florida. For potable distribution systems, our modeling experience includes fire flow analyses, water quality modeling, the modeling of unidirectional flushing (UDF) programs, and pipeline renewal/replacement programs that reduce water age and disinfection by-product (DBP)/nitrification formation. We are well-versed in current modeling software, including Innovyze (InfoWater, InfoSWMM, and InfoWorks ICM) and Bentley (Water CAD and SewerCAD).

**Diverse Team and Multiple Disciplines Available:** CHA's diverse group of professional engineers and architects can provide the city with a multitude of services. These services include transportation, structural, geotechnical, architectural, stormwater, construction management, and Construction Engineering Inspection services. CHA's experience in these disciplines will provide a high level of service to the City of Margate as the city continues to improve and grow its public services.

**We Want to Continue Serving You:** Having worked with Margate over the years, we gained a unique perspective and understanding of the needs and challenges of the city's water and wastewater utility systems. We developed this understanding by working with the city to complete an update to the water distribution and wastewater transmission systems hydraulic models and master plans. We look forward to applying the knowledge gained to address the needs and challenges put forth in the CIP. Our proposed team has been assembled to meet the utility service needs and all the potential services outlined by the RFQ.

**Local Benefits:** Hiring a local consultant has many benefits, including prompt response and established community relationships. With CHA's local Coral Springs office, our familiar staff will provide quick solutions and frequently stop by the project sites. This nearby location will be a great benefit during construction phases, allowing our project team to be on-site routinely to make sure that the project is advancing per the plans and specifications.

We greatly appreciate your consideration of CHA's qualifications and experience in providing professional engineering services to the city. We are committed to working in partnership with your staff and are ready to listen, understand, and act on your needs. We will commit the appropriate team members' time throughout the term of this contract. We have developed the attached RFQ response to demonstrate our experience and methods of providing high-quality professional engineering services to the City of Margate. **Our primary contact is Douglas Hammann, PE, and our alternate contact is Robert Reiss, PhD, PE.**

On behalf of the firm, thank you for providing CHA with this opportunity. If you have any questions, please do not hesitate to contact us.

Sincerely,

A blue ink signature of Michael A. Platt, Esq., written in a cursive style.

Michael A. Platt, Esq.  
General Counsel and Executive Vice President

A blue ink signature of Robert Reiss, PhD, PE, written in a cursive style.

C. Robert Reiss, PhD, PE  
Vice President/Florida Team Leader

A blue ink signature of Douglas Hammann, PE, written in a cursive style.

Douglas Hammann, PE  
Project Manager

Tab 2:  
Checklist (Exhibit A)

## 2. CHECKLIST- EXHIBIT A

### EXHIBIT A

#### CONSULTANT CHECKLIST – CITY RFQ 2023-010

##### NOTE:

A) This Exhibit must be included in RFQ immediately after the cover letter.

B) RFQ Package must be put together in order of this checklist.

C) Any supplemental materials must appear after those listed below and tabbed “Additional RFQ Information”.

1. ☒ Transmittal Letter
2. ☒ Copy of this Check List (Exhibit A)
3. ☒ Corporate History/Corporate Qualifications/Team Organizational Chart
4. ☒ Corporate Qualifications
5. ☒ Project Team: (Name, Title and years with firm only. **Do not include a resume here.** All resumes, if included, should be included under “Additional RFQ Information” tab, Include complete organizational chart as required)
6. ☒ Personnel Assigned
7. ☒ Professional Registration
8. ☒ Project Management
9. ☒ Proof of Insurance
10. ☒ Offeror’s Certification
11. ☒ Offeror’s Qualifications Statement
12. ☒ SF 330 Forms
13. ☒ Scrutinized Companies Certificate
14. ☒ Non-Collusive Affidavit
15. ☒ Drug-Free Workplace Form
16. ☒ Byrd Anti-Lobbying Certification
17. ☒ Statement of Compliance
18. ☒ E-Verify Form
19. ☒ Additional RFQ Information (including but not limited to resumes, references)



## Tab 3: Corporate History

# 3. CORPORATE HISTORY

## Firm History

CHA Consulting, Inc. (CHA) was founded in 1952 as a professional engineering firm in Boston, Massachusetts. Originally known as Clarkeson Engineering Company, the firm specialized in traditional civil, transportation, and structural engineering. CHA's founder, John Clarkeson, directed the firm's original expansion into major civil engineering projects in New England and the mid-Atlantic States. Early projects included planning a portion of the "Inner Belt" highway in Boston and the designs of large portions of I-87 in New York, I-93 in New Hampshire, I-95 in Maine, and I-91 in Vermont. CHA has since expanded and diversified, undergoing several name changes: Clarkeson Engineering Company (1952); John Clarkeson, Consulting Engineer (1955); Clarkeson, Clough, Yokel (1966); Clarkeson & Clough Associates (1967); Clough Associates (1971); Clough, Harbour & Associates (1981); Clough, Harbour & Associates, LLP (1990); CHA, Inc. (2008); and CHA Consulting, Inc. (2011).

CHA has successfully grown into a highly diversified, full-service engineering consulting firm working to responsibly improve the world we live in. Located throughout the United States and Canada, CHA provides a wide range of planning and design services to public, private, and institutional clients. Markets served include aviation, education/sports, environmental, fire protection services, geospatial solutions, government/commercial buildings, manufacturing/energy, project management services, transportation, utility infrastructure, water, and architectural services. The firm currently employs a staff of more than 1,500 people in over 45 offices in the United States and Canada. **The successful growth of CHA has included the acquisition of the local engineering firm, Eckler Engineering, Inc. This growth will provide additional support and capacity for the staff at CHA's (formerly Eckler Engineering's) Coral Springs office to continue serving the City of Margate.**

CHA is an innovative, full-service engineering consulting and construction management firm *delivering sustainable, integrated solutions to the world's most challenging infrastructure projects*. With decades of experience, we bring inspired talent, forward-leaning technology, and essential partnerships to meet our clients' evolving needs. We are your trusted advisors and partners committed to *responsibly improving the world we live in*. CHA serves as your single point of contact from start to finish, utilizing technology advancements and adapting teams, schedules, budgets, and services to each unique challenge. Our client focus is driven by trust and collaboration. We study, design, manage, and build *projects that enhance our communities and our world*.

At CHA, we are committed to the values of *inclusion, diversity and equality, and the full participation of all people*. These are core company values at the heart of who we are as an organization. CHA has and will continue to embrace and celebrate the diversity of voices our employees, clients, partners, and communities represent.

CHA's commitment to sustainability comes through in our work, the communities we build, and as we work to create a better, more sustainable workplace. Our diversification across markets, geographies, and services has driven CHA's success.

CHA's robust health and safety program empowers our people to take ownership of safety through education and access to the best safety tools. Our *"people first" approach* instills a culture of health and safety that minimizes the risk of workplace incidents, injuries and exposure to hazards for our employees, partners and the public. Proactive engagement to health and safety permeates throughout all levels of our organization. At CHA, engineering and client engagement go hand-in-hand. Providing both yields *amazing value... and amazing results*.

### CHA at a Glance



**1,500+** Employees  
firm-wide



**70+** Years in  
business



**45+** Office  
locations







**145+ professionals in South Florida, with 1,500+ staff  
company-wide to assist Margate**

**ENR**  
ENGINEERING NEWS-RECORD  
**TOP FIRM**  
**#61 OF TOP 500  
DESIGN FIRMS**  
**#46 OF TOP 100  
PURE DESIGNERS**  
**#17 OF TOP 20  
MANUFACTURING**

#### We provide full-service programming and design:

- Alternative delivery
- Architectural
- Asset management
- Aviation design and planning
- Civil engineering
- Construction engineering
- Electrical
- Energy solutions
- Environmental, health and safety
- Geospatial innovation
- Geotechnical
- Health and safety
- Land development
- Life safety and security
- Mechanical
- Program management
- Sports planning and architecture
- Structural
- Survey
- Sustainability
- Tank rehabilitation
- Technology solutions
- Transportation engineering and planning
- Water and wastewater
- Wireless communications

## PROPOSED SUBCONSULTANTS

Firm	Role	Firm Overview
 <p><i>Electrical Design Associates</i></p> <p><b>Electrical Design Associates, Inc. (EDA)</b></p> <p><b>Status:</b> MBE</p>	Electrical and Instrumentation	EDA is a consulting engineering firm specializing in electrical and instrumentation design for water and wastewater facilities. They provide consulting engineering services primarily to the public sectors. In September 1998, EDA was formed. EDA is a Certified Minority Business Enterprise with offices in Palm Beach, Hillsborough and Orange Counties. Present staff includes registered electrical engineers, instrumentation designers, designer/cadd technicians, and field supervisors.
 <p><b>Avirom &amp; Associates, Inc. (Avirom)</b></p>	Survey	Avirom's 41-year history represents the firm's strength and stability in South Florida and the Florida Keys. The firm consists of approximately 40 employees with an 18-year average length of service. Their surveys have been the base maps for numerous designs, not only for engineering and architecture, but also landscape architecture and urban design firms. Our firm has considerable experience in creating legal descriptions.
 <p><b>Connect Consulting, Inc. (CCI)</b></p>	Hydrogeology	CCI has worked with many clients throughout Florida since 1996. CCI is a progressive hydrogeologic firm dedicated to providing innovative and economical solutions for hydrogeologic and water resource planning issues. CCI's groundwater supply projects have ranged from preliminary well siting with aquifer testing and evaluation to detailed wellfield design and construction. CCI specializes in evaluating and rehabilitating wells to restore production and improve water quality, including wellhead and discharge piping modifications to meet current regulatory requirements.
 <p><b>Jezerinac Group, PLLC (Jezerinac)</b></p>	Structural Engineering	Jezerinac was founded by Ronald M. Jezerinac, P.E., S.E. in 2014. Today, Jezerinac provides structural engineering services to architects, builders, owners and their representatives in the following market sectors: Aviation, Commercial, Cultural, Hospitality/Gaming, Industrial, Education, Government, Healthcare, Institutional, Residential and Sports and Public Assembly.
 <p><b>Nutting Engineers of Florida, Inc. (Nutting)</b></p>	Geotechnical Engineering	Nutting has been one of the premier geotechnical engineering firms in South Florida since its inception in 1967. Prior to this date, work was performed under the name Nutting Engineers, Inc., which originated in 1956 preceded by H.C. Nutting in Miami from 1932 until 1956. Nutting's comprehensive range of services include geotechnical exploration and engineering including soil borings and groundwater well drilling, monitoring of pile installation, groundwork modification and chemical grouting procedures, QC/QA testing of construction materials, and structural inspections (special/threshold) of structures.
 <p><b>CROM, Inc.</b></p>	Potable Water Storage Facility Inspection/ Maintenance & Specialty Coating Consultation	Since 1953, CROM has designed and built over 4,300 prestressed concrete tanks with capacities ranging from 35,000 to over 30,000,000 gallons. CROM adheres to the highest standards of professional engineering and construction including AWWA Standard D110, ACI Report 372, and ACI Code 350. As long-term active and contributing members of the design committees, CROM remains a leader in the water and wastewater industry.



Tab 4:

Corporate  
Qualifications

## 4. CORPORATE QUALIFICATIONS

### Proposer's Capabilities

CHA's extensive network of specialized experts provides the City of Margate with access to our comprehensive resources to develop creative, workable solutions to accomplish the city's goals. A selective screening process and active industry involvement verify that we employ and partner with dynamic thinkers. We have organized our team strategically so that the required production capacity and capabilities to address the opportunities and challenges presented throughout this contract are available to the city.

Our team consists of members with diverse skill sets and access to resources to assist you with your goals. We find that a team approach centered around you is the best way to provide valuable services. Our professionals across multiple disciplines, coupled with the expertise of our subconsultants, create a dynamic collection of knowledgeable, experienced practitioners that deliver thorough, high-quality products and services to our clients. Collaboration, organization, and communication are paramount to any project's success.

We have compiled a team with specialized expertise and experience working together on previous projects. CHA and our partners have worked together to provide services to local municipalities. We have carefully crafted this team based on this work history, our understanding of the city's needs, and our ability to deliver quality services on any project that may arise under this contract.

CHA prides itself on being a client-service-oriented firm **with expertise in civil engineering, water and wastewater engineering, water resources engineering, roadway and drainage design, traffic and transportation engineering, electrical engineering, structural engineering, sustainability and environmental engineering, CEI, plan review, and civil site plan design; these services are equivalent to those proposed for this continuing services contract.** CHA has built a reputation for providing responsive service combined with deep technical capabilities. In addition to our reputation as a leading design, permitting, and construction management firm, CHA is a preferred consultant for many municipalities. We currently hold over 50 continuing on-call contracts with public utilities in Florida for the same types of services proposed for this contract. Our clients call on us to complete their most challenging and high-profile projects. We encourage the city to contact the references listed within our response to learn more about how we deliver value to our clients.

This request for qualifications (RFQ) lists various services that may be requested under this contract. CHA is well suited to deliver on the full suite identified. Select examples include:



#### WATER AND WASTEWATER/WATER RESOURCES

Our involvement with water/wastewater projects includes comprehensive water and sewer master planning, potable water storage and distribution systems, reclaimed water distribution, sewage collection facilities, pump station design and rehabilitation, and pipeline rehabilitation using trenchless technologies. We have provided design services for numerous local projects, replacing water and sewer lines in older neighborhoods and extending new services into existing neighborhoods on septic and wells. The CHA team has extensive experience in the design of both large- and small-diameter water mains and force mains, and pump stations ranging from small lift stations to regional booster stations in several different municipalities across the state of Florida.



#### TRANSPORTATION/TRAFFIC

The CHA team has completed various projects in south Florida within Broward, Miami-Dade, and Palm Beach counties. Our relevant recent experience will provide the city with a team with the expertise and knowledge to apply successful design applications where all modes of travel are prioritized, not just the automobile. One of our most recently completed projects is Prospect Road from Commercial Boulevard to SR 811; this project was part of a Broward MPO mobility project and consisted of continuous green-colored five-foot bicycle lanes in both directions, roadway widening to accommodate bike lanes, replacing the outside travel lane with seven-foot buffered bicycle lanes, and bulb-outs. CHA also completed over 10 neighborhood improvement projects for the City of Miami Beach, including the 11th Street Roadway Reconstruction project from East Alton Road to West of Washington Avenue to fight the effects of sea level rise. The roadway profile of 11th Street was raised two feet and involved impacts to the existing drainage system and adjacent properties.

The CHA team can perform transportation demand modeling that covers various applications and research, including AADT and DDHV projection, modal analysis, socioeconomic data analysis, subarea and corridor analysis, and alternative regional trend evaluation. We apply FSUTMS models, such as SERPM with CUBE Voyager and CUBE Analyst. We also specialize in multi-modal operations modeling using VISSIM, Synchro, and CORSIM to support decision-making from intersections to corridors, traffic to transit, arterial to freeway, and managed lanes.



#### STORMWATER/DRAINAGE

CHA's hydraulic engineers have experience in all aspects of surface water evaluation and design, including field reviews, data gathering, agency coordination, detention-retention

pond design, and hydraulic modeling/drainage analysis to relieve street flooding. We can prepare full-scale computer models using state-of-the-art software. We have conducted investigations on watersheds ranging from several acres to several thousand square miles. These evaluations have included flood profile studies and stormwater management master plans. Our team has also demonstrated its capabilities to obtain environmental permits required for all drainage improvement projects; this effort includes agency coordination, permit sketches, and permit applications. We have developed excellent relationships with the necessary regulatory agencies, such as the South Florida Water Management District (SFWMD), the Florida Department of Environmental Protection (FDEP), the U.S. Army Corps of Engineers (USACE) and the Miami-Dade County Department of Regulatory and Economic Resources (DRER).

Our broad capabilities and experience in complex stormwater management have been demonstrated with several stormwater master plans, including the Miami Intermodal Center (MIC) Drainage Master Plan, where CHA coordinated with all permitting agencies and with four other design consultants to develop one drainage report and obtain one environmental resource permit (ERP) for all roadway projects.



## ENVIRONMENTAL ENGINEERING

We strive to safeguard your most valuable asset, the environment. Our engineers, ecologists, and scientists partner with clients to develop practical solutions that strike the right balance between environmental sustainability, community needs, and cost. CHA achieves this goal by having an intimate knowledge of environmental regulations and properly assessing site conditions and applicable mitigation approaches. We provide creative solutions to investigate environmental problems, design cleanup solutions, and comply with regulatory requirements. Our comprehensive environmental services include:

- ✓ **Air Quality Testing and Permitting**
- ✓ **Brownfield Program Services**
  - Phase I and II Environmental Assessments (EAs)
  - Remediation Design
  - EPA Grant Writing and Management
  - Community Involvement
  - Redevelopment Planning
  - Economic Development Planning
  - Site Disposition Strategy Planning
  - Regulatory Agency Negotiations
  - Due Diligence
- ✓ **Brightfields**
- ✓ **Ecological Services**
- ✓ **Environmental, Health, and Safety Training**
- ✓ **Geotechnical Investigations and Design**
- ✓ **Hazardous Building Material Assessments**
- ✓ **Landfill Design, Closure, and Monitoring**
- ✓ **Site Investigation and Remediation**
- ✓ **Water Treatment Program/Plan Development (Legionella)**

- ✓ **Environmental Permitting and Compliance**
  - Multi-media Compliance Audits
  - Spill Prevention, Control, and Countermeasure (SPCC) Plans
  - Stormwater Pollution Prevention Plans (SWPPP)
  - Environmental Impact Statements
  - National Environmental Policy Act (NEPA) Compliance
  - Underground Storage Tank (UST) Compliance
  - Hazardous Waste Compliance
- ✓ **Storm Hardening, Recovery, and Resiliency**
- ✓ **Sustainability Planning and Design**
- ✓ **Planning and Ecological Studies**
- ✓ **Geospatial Modeling and Analysis**
- ✓ **Wetland Delineation, Mitigation, and Monitoring**
- ✓ **Invasive Species Management**
- ✓ **Stream Assessment and Restoration**
- ✓ **Threatened and Endangered Species Surveys**
- ✓ **Habitat Management Plans**



## SUSTAINABLE DESIGN

With a corporate design philosophy of balancing the natural and built environment, we continue to add services and pursue projects that offer us the opportunity to use sustainable design principles. CHA is a member of the U.S. Green Building Council (USGBC) and has incorporated an aggressive program into our corporate philosophy to promote sustainable development practices within our planning and design practice. Our “LEED Team” offers a fully integrated approach to sustainable planning and design that starts with the first gleam in someone’s eye for a project through to the ribbon cutting and operation. The CHA team offers more than 30 LEED-accredited professionals (LEED APs) who are experienced in designing and documenting projects for LEED certification under the USGBC’s LEED rating system. CHA’s previous and current experience with the LEED rating system is diverse, involving “Certified,” “Silver Certified,” “Gold Certified,” and “Platinum Certified” projects. Furthermore, our Florida environmental lead, Jason Hignite, serves on the City of Ft. Lauderdale Sustainability Advisory Board.



## CONSTRUCTION MANAGEMENT/CEI

We believe that CHA’s successful history demonstrates our commitment to excellence in the performance of these services. CHA’s depth of experience in providing CEI services will be invaluable in meeting and/or exceeding the expectations of the city. We are currently performing CEI services for many local clients, including the City of Miami Beach (Biscayne Point Neighborhood), the City of Doral (Canal Stabilization Program - 5th Year), FDOT (Port of Miami Tunnel and NW 25th Viaduct from the Palmetto Expressway to the Miami International Airport Cargo Area), and the City of Miami CIO Office (several locations).





## ARCHITECTURE

We combine art and science to rethink, refine and reshape the built environment. From schools and courthouses to multi-family housing and healthcare facilities, our robust team has a long history of public and private work and has developed an approach to designing high-performance buildings that promotes energy conservation and green building principles. We will be your trusted advisor and believe in design that responds to the natural environment, surrounding buildings, and community values. Our engineers, architects and designers will skillfully merge engineering, environmental, architectural, functional, and economic considerations when developing project solutions. We'll be your guide through a process that involves gathering stakeholder input and balancing your needs and wants with amazing possibilities.

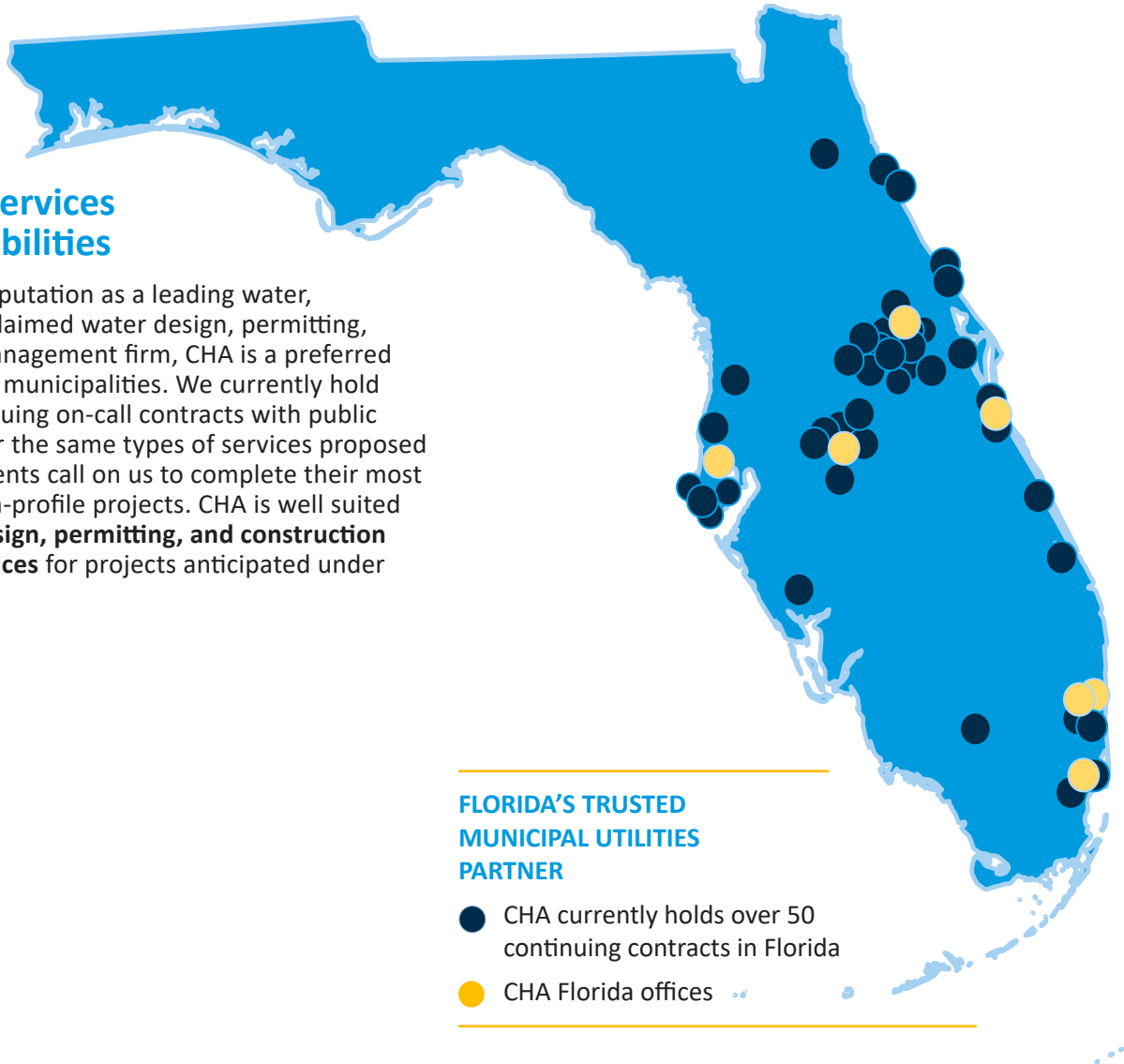


## LANDSCAPE ARCHITECTURE/ARBORIST

To address any potential conflicts with mature trees, the CHA team includes our landscape architect, Nick Schwartz, to assist, enabling the CHA team to have the fundamentals of tree risk assessment and a systematic process for assessing tree risk to make informed decisions that will promote the safety of citizens and property, and enhance tree benefits, health, and longevity.

## Continuing Professional Services Contract Capabilities

In addition to our reputation as a leading water, wastewater, and reclaimed water design, permitting, and construction management firm, CHA is a preferred consultant for many municipalities. We currently hold more than 50 continuing on-call contracts with public utilities in Florida for the same types of services proposed for Margate. Our clients call on us to complete their most challenging and high-profile projects. CHA is well suited to deliver on the **design, permitting, and construction administration services** for projects anticipated under this contract.



### FLORIDA'S TRUSTED MUNICIPAL UTILITIES PARTNER

- CHA currently holds over 50 continuing contracts in Florida
- CHA Florida offices

## Related Florida Municipal Utility Work

The table below shows a sample of some of our clients in Florida where we are providing similar work that is expected under this contract. **Specific project examples within the last five years can be found in Section 12-SF 330 Forms.**

Client	Design/Construction			Permitting	Master Planning/ Modeling
	Water Treatment	Wastewater Treatment	Pipeline/ Pump Station		
City of Margate					•
City of Tamarac	•		•	•	•
Village of Palm Springs	•		•	•	•
Islamorada Village of Islands			•	•	•
M-D WASD			•	•	•
City of Miami Beach			•	•	•
City of Vero Beach	•	•		•	•
Brevard County	•		•	•	•
City of Altamonte Springs		•	•	•	•
City of Apopka		•	•	•	•
City of Casselberry	•	•	•	•	•
City of Clearwater	•	•	•	•	•
City of Coral Springs	•		•	•	•
City of Davenport		•	•	•	•
City of Fort Lauderdale	•	•	•	•	•
City of Haines City		•	•	•	•
City of Lake Mary	•	•	•	•	•
City of Lakeland	•	•	•	•	•
City of Largo		•	•	•	•
City of Melbourne	•	•	•	•	•
City of Ocoee	•	•	•	•	•
City of Orange City			•	•	•
City of Orlando		•	•	•	•
City of Ormond Beach	•		•	•	•
City of New Port Richey		•	•	•	•
City of Port St. Lucie	•	•	•	•	•
City of Sanford	•	•	•	•	•
City of St. Augustine	•	•	•	•	•
City of St. Cloud	•	•	•	•	•
City of St. Petersburg	•	•	•	•	•
City of Tampa	•	•	•	•	•
City of Titusville	•		•	•	•
City of Winter Haven	•	•	•	•	•
Orange County Utilities	•	•	•	•	•
Orlando Utilities Commission	•		•		•
Pinellas County	•	•	•	•	•
Polk County	•	•	•	•	•
Seminole County	•	•	•	•	•
SSNOCWTA		•	•	•	•
Tampa Bay Water	•		•	•	•

## Tab 5: Project Team



# 5. PROJECT TEAM

## Organizational Chart

Our team has been built to provide Margate with an extraordinary blend of engineering expertise, Margate and local Florida project history, and personalized service. Our proposed project manager, Doug Hammann, PE, will serve as the city's direct day-to-day contact. He has assigned the most qualified project team for the scope of services identified in this RFQ. Each of our team members was specifically selected to assist in successfully completing all unique challenges and project needs for the duration of the contract. **Resumes for key personnel can be found within Section 12-SF 330 Forms.**



## Key Personnel Qualifications Commitment to Margate

CHA and our subconsultants have substantial availability and will be allocated to Margate, as necessary, to complete any project assigned under this contract in a timely and efficient manner. We have assembled a focused team of CHA professionals with direct, relevant experience and a project leadership team that is familiar with the city. The assigned staff's efforts will be sufficiently allocated to accomplish each project on schedule and within budget. CHA provides similar services to other governmental agencies within the state of Florida. Our track record demonstrates that we successfully provide high-quality services and products to these municipalities, as we intend to continue providing to Margate.

Team Member	Role	Years with Current Firm	Availability for this Contract
<b>CHA Consulting, Inc. (Prime)</b>			
Doug Hammann, PE	Project/Client Manager	34	30%
Andrew Scales, PE	Corporate Business Practice Leader	14	10%
J. Richard "Rich" Voorhees, PE, BCEE	Quality Manager	5	30%
C. Robert Reiss, PhD, PE	Water Treatment Process Lead	24	30%
Bryant Facey, PE	Water Treatment Process, Water Distribution/Transmission, Wastewater Treatment, Wastewater Transmission, Sanitary Lift Stations	4	45%
Stefano Ceriana, PE, LEED AP	Water Distribution/Transmission Lead, Wastewater Transmission	8	35%
Ahmet Tahaoglu, EI	Water Distribution/Transmission, Master Planning/Hydraulic Modeling/CIP Support	6	45%
Arnelio Alfonso, PE	Wastewater Transmission Lead, Stormwater Lead	22	30%
Weston Haggen, PE, DBIA, ENV SP, PMP	Wastewater Transmission	14	30%
James Hagerty, PE	Wastewater Treatment Lead	7	40%
Scott Hoxworth, PE	Wastewater Treatment	20	30%
Edward Talton, PE	Master Planning/Hydraulic Modeling/CIP Support Lead	23	45%
Anglea Barón-Ruiz, PE, ENV SP	Stormwater	9	50%
Jason Hignite	Environmental Services Lead	<1	55%
Julian Gomez, PE	Sanitary Lift Stations Lead	7	50%
Alex Guon, PE	Sanitary Lift Stations	18	45%
Erik Sabila, PE	Construction Management/CEI Lead	15	30%
Alejandro Leon, PE	Transportation/Traffic Lead	11	35%
David Hatton, AIA, NCARB	Architecture Lead	3	20%
Nicholas Schwartz, RLA, LEED AP	Landscape Architecture Lead	27	40%
Leann Wishah, EI	GIS Support	2	55%
<b>Subconsultants</b>			
Dameion Donaldson, PE (EDA)	Electrical Engineering	12	25%
Shday Al-Zubi, PE (EDA)	Instrumentation	2	25%
John Doogan, PSM (Avirom)	Survey	42	25%
James Andersen, PG (CCI)	Hydrogeology	6	25%
Ronald Jezerinac, SE, PE (Jezerinac)	Structural	9	25%
Richard Wohlfarth, PE, BN (Nutting)	Geotechnical	30	25%
Alex Ciasca, PE (CROM)	Potable Water Storage Facility Inspection/Maintenance & Specialty Coating Consultation	8	25%

## Project Management Team

This contract requires the commitment of multiple resources to comply with the city's needs and, in some cases, an instant response. Our proposed project manager, **Douglas Hammann, PE**, has over 35 years of experience and has successfully managed numerous similar contracts, including this same contract for Margate since 2018. He is fully aware of the precise order in which each design event needs to occur to complete every assignment within the established schedule and budget. Our management approach and team composition will allow Doug to focus on the overall contract responsibility and manage each individual task order with the goal of reducing the city's day-to-day oversight while maintaining a high-quality product. Doug will develop and maintain an accurate spreadsheet to monitor contract costs, task expirations, contract limits, and to verify that post design services are budgeted when required, while maintaining the budget limit. He will also maintain open lines of communication with the city's project manager and the Department of Environmental and Engineering Services throughout each project's duration. Doug will have the full support of CHA's corporate business practice leader, **Andrew Scales, PE**, our quality manager, **Rich Voorhees, PE, BCEE**, and a full suite of support staff to make sure each task order under this contract is executed at the highest quality, on time, and within budget.



**DOUGLAS HAMMANN, PE**  
Project Manager

**Education:** Florida Atlantic University, FL, M.E., Environmental and Water Resources; Southern Illinois University, IL, B.S., Civil Engineering; Rend Lake College, IL, A.S., Architectural Technology | **Registrations and Certifications:** Professional Engineer - FL, OH

Doug is a principal engineer with over 34 years of experience in the planning, design, permitting, and engineering services during the construction of water, wastewater, and reclaimed water projects for various municipal and private clients. These projects have included utility system master planning, water distribution systems, sanitary sewer collection and transmission systems, sanitary pump stations, vacuum sanitary collection/pumping systems, expansion/rehabilitation of WTPs and WWTPs, industrial wastewater pre-treatment systems, and reclaimed water treatment and distribution systems. Representative project experience includes:

- City of Margate, FL, Water Distribution Model Update and Master Plan
- City of Margate, Forcemain System Model and Master Plan
- City of Coral Springs, FL, New Water Main on Sample Road
- City of Coral Springs, FL, University Drive Water Main and Force Main
- City of Coral Springs, FL, New Force Main on Sample Road Between Coral Springs Drive and Sample Road
- Village of Palm Springs, FL, MIEC Regeneration System Upgrades Main and R.L. Pratt WTPs
- City of Coral Springs, FL, Miscellaneous WTP Improvements



**ANDREW SCALES, PE**  
Water Treatment Process

**Education:** University of Evansville, IN, B.S., Civil Engineering | **Registrations and Certifications:** Professional Engineer - IN, NC, SC

Andy is CHA's Water Resources Group Business Practice Leader with 21 years of experience whose responsibilities include providing planning, modeling, design, permitting and construction administration services for wastewater, water, and stormwater projects. He is well-versed in working with the public on sensitive infrastructure issues, understanding a client's expectations and working with personnel at all levels of their organization, dealing with regulatory agencies, interpreting regulations, and managing field crews. Representative project experience includes:

- City of Noblesville, IN, Maple Avenue Relief and Storm Sewer Mitigation
- City of Noblesville, IN, Central Conveyance Relief Interceptor
- Evansville Water and Sewer Utility, IN, Cass/Adams CSO Relief Sewer



**J. RICHARD VOORHEES, PE, BCEE**  
Quality Manager

**Education:** Auburn University, AL, M.S., Civil/Environmental Engineering; Auburn University, AL, B.S., Civil Engineering | **Registrations and Certifications:** Professional Engineer - FL; Board Certified Environmental Engineer (BCEE)

Rich has over 47 years of experience and is highly qualified in the planning, design and construction of water and wastewater infrastructure projects, from pipelines to treatment and pumping facilities. Rich is a Board-certified Environmental Engineer (BCEE) and is recognized in Florida as a technology leader in water and wastewater conveyance and treatment. He has served as the project or design manager for the design and construction of multi-million-dollar water and wastewater facility projects and has previous experience as a general contractor for water and wastewater facility construction. With this experience, Rich has been assigned the construction administration of large and challenging projects requiring contract resolution between the owner and the contractor. He also has worked for a large private utility in Florida and was responsible for administering the entire engineering and construction program for the Utility's water and wastewater facilities. Representative project experience includes:

- City of Melbourne, FL, Improvements and Expansion of the Lake Washington Surface WTP
- Bonita Springs Utilities, Bonita Springs, FL, RO WTP
- City of Delray Beach, FL, Design and Construction Services for WTP
- City of Haines City, FL, Reclaimed GST and Pump Station
- Utilities, Inc. of Florida, Lakeland, FL, Cypress Lakes WWTP Improvements Design

## Tab 6: Personnel Assigned



## 6. PERSONNEL ASSIGNED

### Key Team Member Experience Overview



**C. ROBERT REISS, PHD, PE**  
Water Treatment Process Lead

Robert has 31 years of experience with advanced water and wastewater treatment systems, including membrane technologies. He has been responsible for the detailed design, process engineering, and technical review of membrane treatment systems, including seawater, groundwater and fresh surface water systems. These projects have regularly involved microfiltration, ultrafiltration, nanofiltration, and reverse osmosis technologies. In addition, Robert has similar experience working with conventional coagulation systems, media filtration, and other advanced treatment technologies. Representative project experience includes:

- Tavistock, Osceola County, FL, Sunbridge WTP and WWTP
- Polk County, FL, Ernie Caldwell Reclaimed Water Main Improvements Phase I
- City of Port St. Lucie, FL, Westport Wastewater Treatment Facility Expansion
- Polk County, FL, Northwest Regional Wastewater Treatment Facility Grit Chamber Conceptual Design
- Polk County, FL, Lift Station Data Collection and Condition Assessments



**BRYANT FACEY, PE**  
Water Treatment Process, Water Distribution/  
Transmission, Wastewater Treatment

Bryant is a senior project manager and engineer with over 20 years of experience in the planning, design, permitting, and construction administration of water, wastewater, and reclaimed water projects for municipal clients throughout Florida. These projects have included numerous design-bid-build and design-build projects that improve water and wastewater infrastructure. Bryant provides engineering services for utility projects of all sizes, starting with project concept to design through project construction and implementation. His additional experience has included master planning, design, permitting, and construction services of all aspects of a governmental utility. Bryant's broadening experience base of multi-disciplinary municipal utility projects via various project delivery methods expands his ability to provide management and engineering services to his clients. Representative project experience includes:

- City of Coral Springs, FL, University Drive Water Main and Force Main
- City of Coral Springs, FL, Rehabilitation of Lift Station 22A, 21D, and New Force Main
- City of Boca Raton, FL, Dixie Highway Reclaimed Water Main Extension
- City of Pembroke Pines, FL, Pembroke Pines WWTP Rehabilitation Phase 1
- Palm Beach County, FL, PBCWUD WTP No. 2 Treatment and Disposal Improvements



**STEFANO CERIANA, PE, LEED AP**  
Water Distribution/Transmission Lead,  
Wastewater Transmission

Stefano is a project manager with over 22 years of experience. He has extensive knowledge of water and wastewater utility projects, including pipeline design (pressure and gravity) and lift station design. Stefano's expertise comprises project management duties, including project startup, preliminary/final design, execution, and construction administration. His background includes utility system planning, permitting processes, the use of computer-aided design (CAD) and geographic information systems (GIS), resident project representation (RPR), and the use of hydraulic modeling software for planning and design purposes. Representative project experience includes:

- Polk County, FL, Ernie Caldwell Boulevard Reclaimed Water Main Improvements Phase 1
- SSNOCWTA, Seminole County, FL, Eagle Circle Force Main
- Reedy Creek Improvement District (RCID), World Drive Extension Utility Relocation
- SSNOCWTA, Seminole County, FL, C-200 Force Main Pipeline
- City of Casselberry, FL, Seminola Force Main Replacement



**JAMES HAGERTY, PE**  
Wastewater Treatment Lead

Jim is a civil and environmental engineer with over 37 years of experience and a successful track record in facility planning and executing strategic plans, projects, and programs for water, wastewater, and stormwater utilities. His expertise includes program management, regulatory compliance program development, infrastructure development, alternative delivery, and utility compliance management. Jim offers specialized wastewater treatment expertise, responsible for developing and optimizing process designs for advanced biological treatment systems sludge processing, and effluent disposal systems. He has used his unit process and operations experience to develop facility expansion plans, construction plans, value engineering analysis, and technical reviews. His wastewater process design experience includes advanced treatment, effluent filtration, anaerobic and aerobic digestion systems, sludge pelletizing systems, lime treatment, and sludge dewatering. Representative project experience includes:

- City of Port St. Lucie, FL, Westport WWTF Expansion
- Tavistock, Osceola County, FL, Sunbridge WTP and WWTP
- Orange County Utilities, FL, SWRF IPS Expansion and Upgrades
- Hillsborough County, FL, Delwood Super Station Design-Build
- City of Eustis, FL, Eastern WWTP Expansion



**SCOTT HOXWORTH, PE**  
Wastewater Treatment

Scott has over 26 years of experience in water, wastewater, and reclaimed water fields. His expertise encompasses the design, construction, startup, and operation of water and WWTFs; water, wastewater, and

reclaimed water pipelines; stormwater systems; and pump/lift stations. Scott also has expertise in pilot-scale membrane water treatment systems and pilot-scale and full-scale groundwater remediation systems, solid waste with landfill closure design, construction oversight, and permitting. Representative project experience includes:

- Tavistock, Osceola County, FL, Sunbridge WTP and WWTP
- City of Eustis, FL, Eastern WWTP Expansion
- Volusia County, FL, Normandy Boulevard Reclaimed Water Main Extension
- City of Haines City, FL, Reclaimed GST and Pump Station
- Hillsborough County, FL, Delwood Super Station Design-Build



**ARNELIO ALFONSO, PE**  
Wastewater Transmission Lead,  
Stormwater Lead

Arnelio has over 36 years of experience managing and designing very complex wastewater collection and transmission systems. He has led the water resources team

of CHA Doral for over 20 years. His experience includes several miles of pipeline projects, more than 30 sanitary lift stations (all sizes), and outstanding performance in award-winning projects in south Florida, such as the 20-inch water main/16-inch force main HDD crossing of Las Olas Boulevard and the 54-inch redundant force main designed in record time for the City of Fort Lauderdale. Stormwater projects have included sea level rise mitigation, flood protection studies and stormwater management master plans. Representative project experience includes:

- City of Fort Lauderdale, FL, New Redundant 54-inch Bypass Line Design-Build
- City of Miami Beach, FL, Stormwater Pump Station at Miami Beach Convention Center
- City of Fort Lauderdale, FL, Las Olas Boulevard 20-inch Water Main and 16-inch Force Main
- M-D WASD, Miami-Dade County, FL, Stormwater Pump Station at Miami Beach Convention Center
- M-D WASD, Miami-Dade County, FL, Proposed 48-Inch PCCP Force Mains Along Milam Dairy Road



**WESTON HAGGEN, PE, DBIA, ENV SP, PMP**  
Wastewater Transmission

Weston has over 14 years of experience in water, wastewater, and reclaimed water. His expertise includes water quality hydraulic modeling, master planning, pipeline design, lift station design, potable water

quality improvement, unidirectional flushing (UDF), I&I studies, construction administration, preliminary design of wastewater and water plants, regulatory permitting, water

treatment pilot studies, feasibility studies, report writing, and data management, including geographic information systems (GIS) for a variety of municipal and government projects in water and wastewater treatment. Representative project experience includes:

- SSNOCWTA, Seminole County, FL, Eagle Circle Force Main Replacement
- City of Casselberry, FL, Seminola Force Main Replacement and Master Pump Station Relocation
- Pinellas County, FL, Force Main Condition Assessment from Pennsylvania Avenue and Eighth Street to the Dunn WRF
- Hillsborough County, FL, Delwood Super Station Design-Build



**EDWARD TALTON, PE**  
Master Planning/Hydraulic Modeling/CIP  
Support Lead

Ed's 30+ years of experience and expertise in master planning and hydraulic/water quality modeling runs deep, having completed major master plans, water quality modeling/

calibration to mitigate nitrification, distribution operations optimizations, wastewater model calibrations, and risk-based asset prioritization. His publications include a December 2011 Florida Water Resource Journal article on a water quality application to help utilities better utilize available SCADA, quality, and modeling outputs. Ed has completed a comprehensive reuse master plan and wastewater force main hydraulic model (1,500 miles of pipe and more than 900 pump stations) for the Miami-Dade Water and Sewer Department (MDWASD), and master planning and hydraulic modeling services for Orange County Utilities, Seminole County, Brevard County, and the cities of Tampa, Lakeland, St. Petersburg, Port St. Lucie, St. Cloud, West Palm Beach, Orange City, and Ocoee. Representative project experience includes:

- City of Fort Lauderdale, FL, Comprehensive Utility Strategic Master Plan
- City of Altamonte Springs, FL, Potable and Reclaimed Water Systems Master Plan and Hydraulic Model Update
- Orange County Utilities, FL, Continuing Hydraulic Modeling Services
- City of Ocoee, FL, Consumer Court Lift Station Hydraulic Modeling and Permitting
- City of Port St. Lucie, FL, Water Delivery and Wastewater Collection Master Plan



**JULIAN GOMEZ, PE**  
Sanitary Lift Stations Lead

Julian has over seven years of experience in designing and modeling pipeline and pump stations, from sanitary sewer collection systems to water distribution systems. He has been involved in the design of major

water and sewer systems for the City of Fort Lauderdale and several other municipalities. These systems include large-diameter water and force mains, gravity sewers, and pump stations. Julian has experience in modeling and analyzing hydraulic transients and steady-state conditions

in pipeline and pump stations and can produce 3D models and renderings of these systems. Representative project experience includes:

- City of Fort Lauderdale, FL, Design-Build for the Installation of a New Redundant 54-inch Bypass Line
- City of Miami Beach, FL, Pump Station 001
- Miami-Dade County, FL, Regional Booster Station 0300 (51.84 MGD)
- City of Fort Lauderdale, FL, Triplex Lift Station (2,070,gpm at 121 feet TDH)



**ALEX GUON, PE**  
Sanitary Lift Stations

Alex has more than 33 years of experience in the electrical engineering field. He graduated with a bachelor's degree in electrical engineering from the University of Havana in 1990 and received his Florida Professional electrical engineering registration in 1998. Alex has extensive experience in roadway electrical/lighting design, intelligent transportation systems (ITS) design, lift station facilities, commercial, industrial, health care, shopping centers, and condominiums, etc. Representative project experience includes:

- M-D WASD, Miami-Dade County, FL, North District WWTP (NDWWTP) Disinfection System (Chlorine Building)
- M-D WASD, Miami-Dade County, FL, South Dade WWTP
- City of Miami, FL, SR 826/SR 836 Interchange Electrical Design
- City of Miami, FL, SR 25/Okeechobee Road from East of N.E. 107th Avenue to East of N.W. 116th Way Reconstruction



**Jason Hignite**  
Environmental Lead

Jason has over 29 years of professional experience in environmental planning and regulatory compliance in the United States Navy and as a civilian consultant. His planning and policy experience includes a variety of private and public clients, including various airports, various state departments of transportation (DOTs), the Department of Defense, the Federal Communications Commission, the U.S. Department of Housing and Urban Development (HUD), and the U.S. Postal Service (USPS). Representative project experience includes:

- City of South Miami, FL, Florida Bonneted Bat Limited Roost Survey, 71st Street Pedestrian Bridge
- St. Lucie County, FL, Wetland Determination, North County Utilities Extension
- City of Hollywood, FL, Wetland Determination, Sheridan Road Improvement Project
- City of Ft. Pierce, FL, Treasure Coast International Airport and Business Park Airport (FPR) Sustainability Plan



**ERIK SIBILA, PE, CGC**  
Construction Management/CEI Lead

Erik has over 16 years of experience as a project manager for civil engineering projects. He has successfully performed many different levels, including as a CEI project manager/senior project engineer, designer, and engineer-of-record (EOR). Erik has outstanding oral and written skills and is an FDOT Project Administrator Academy graduate. He is also a registered surveyor-in-training and has a pending Primavera P6 certification. Representative project experience includes:

- FDOT District 6, Miami-Dade County, FL, HDD of 20-inch HDPE Force Main Under NW 21st Street
- FDOT District 6, Miami-Dade County, FL, 8-inch DI Water Main and Milling and Resurfacing along SW 64th Court (SW 8th Street to SW 6th Street)
- FDOT District 6, Miami-Dade County, FL, Park-and-Ride Lot at SW 112th Avenue and SW 204th Street Busway
- FDOT District 6, Miami-Dade County, FL, Districtwide Hybrid Construction Contract



**ALEJANDRO LEON, PE**  
Transportation/Traffic Lead

Alejandro has over 15 years of highway infrastructure experience. He has worked with several agencies, including the Florida Department of Transportation (FDOT), the Miami-Dade Expressway Authority (MDX), the City of Doral, the City of Miami, Miami-Dade County, and the Broward Metropolitan Planning Organization (MPO). Alejandro has served as the lead roadway engineer and deputy project manager on several projects, including major interchange reconstruction; lighting-only projects; roadway reconstruction; resurfacing, restoration, and rehabilitation (RRR) projects; bicycle/pedestrian mobility Americans with Disabilities Act (ADA) compliance projects; and civil site projects. He also specializes in maintenance of traffic (MOT) plans, having completed the advanced MOT course approved by FDOT. Alejandro has several years of experience in MOT design, including major interchange reconstructions. Representative project experience includes:

- FDOT District 4, FL, Districtwide Plans Review
- FDOT District 6, Miami, FL, SR 90/SW 8 Street (East of SW 42 Avenue/Leune Road to West of NW 27 Avenue)
- FDOT District 4, Broward County, FL, Broward MPO Mobility Project, Phase I
- City of Miami, FL, Miami River Greenway to Curtis Park East (NW N River Drive from NW 24th Avenue to NW 22nd Avenue)



**NICHOLAS SCHWARTZ, RLA, LEED AP**  
Landscape Architecture Lead

Nick has over 29 years of experience in planning and landscape architecture. He manages sustainable and green design applications, urban design, streetscape enhancements, and community redevelopments. As a LEED-accredited Professional (LEED AP), Nick provides leadership on issues concerning the LEED rating systems and process administration. Representative



project experience includes:

- Buffalo Sewer Authority, Buffalo, NY, Landscape and Site Improvements - Bird Island Campus
- Town of Bethlehem, NY, Delaware Avenue Hamlet Multi-Modal and Streetscape Enhancements
- Albany Water Board, NY, Hansen and Ryckman Flood Mitigation Planning Study
- New York State (NYS) Office of General Services, NY, Landscape Architectural Services - NYS Fairgrounds
- City of Albany Department of General Services, NY, Delaware Avenue Urban Street Reconstruction
- Albany Water Board, NY, Quail Street Green Infrastructure Project



**DAVID HATTON, AIA, NCARB**  
Architecture Lead

David is a licensed architect with expertise in the planning, programming and design of academic buildings, campus master plans, student centers, and dining and residence halls. He has worked with over 100 college and university campuses across the country, and is a recognized expert and frequent speaker for The Association of College Unions International (ACUI) and The National Association of College Auxiliary Services (NACAS) on topics regarding the design and programming of colleges and universities. He is a frequent speaker at SCUP, ACUHO-I, ACUI, NACAS and CIC. Representative project experience includes:

- University of Delaware, DE, Russell & Smyth Residence Halls
- East Carolina University, NC, College Hill Suites
- SUNY Binghamton, NY, East Campus Housing/Dining Complex
- Maine Maritime Academy, ME, Curtis Hall Renovation



**DAMEION DONALDSON, PE (EDA)**  
Electrical/I&C Lead

Dameion is the chief electrical engineer for EDA, and has 18 years of experience in various projects within the private and public sectors. He is experienced in designing electrical power distribution for municipal systems, water and wastewater treatment facilities, above and below ground distribution systems, lighting systems for roadway and industrial facilities. His electrical designing responsibilities encompass all aspects of drawing production, as well as system design. Representative project experience includes:

- City of Boynton Beach, FL, Master Lift Station No. 309
- City of Port St. Lucie, FL, Westport WWTP Expansion
- City of Largo, FL, WRF Influent Pumping & Headworks Improvements
- Osceola County, FL, Sunbridge Potable Water, Wastewater, and Reclaimed Water Treatment, Storage and High-Service Pumping Facilities



**JOHN DOOGAN, PSM (Avirom)**  
Surveying & Mapping

John had 24 years of survey experience prior to joining Avirom & Associates in 1999. He has been a Florida registered surveyor since

July of 1987 and became certified in Geographic Information System from Florida Atlantic University in June of 2003. He is currently responsible for boundary surveys, topographic surveys, GPS surveys and expert witness testimony. John is a member of the Florida Society of Professional Land Surveyors. Representative project experience includes:

- Village of Bay Harbor Island, FL, Route of line/topographic surveys for all streets on the island
- City of Boca Raton, FL, Office Depot boundary, topographic and tree survey
- City of Coral Springs, FL, Route of line survey and base mapping for existing utilities above and below ground



**JAMES ANDERSEN, PG (CCI)**  
Hydrogeology

Jim has 38 years of experience and is responsible for CCI South Florida operations, project management, technical oversight, well design, permitting and construction phase services team leader. He has extensive groundwater experience, having developed monitoring and supply wells in every aquifer system in South Florida. Mr. Andersen is also the president of JLA Geosciences, Inc. a Jupiter based hydrogeologic services company. Mr. Andersen is a former board member of the Palm Beach County Natural Resources Protection Board and was recently on the Southeast Desalting Association Board. He is a frequent speaker for AWWA, AMTA, SEDA, AGWT, AWWA on topics such as Aquifer Storage and Recovery, hydrogeology, water use permitting and well design, construction and rehabilitation strategies. Representative project experience includes:

- City of Coral Springs, FL, Coral Springs Improvement District Well 9 Rehabilitation
- City of Coral Springs, FL, Coral Springs Improvement District Well 4R Redevelopment
- Town of Highland Beach, FL, Evaluation of Three (3) Brackish Water Reverse Osmosis Public Water Supply Wells



**RONALD JEZERINAC, SE, PE (Jerezinac)**  
Structural

Ron is an accomplished structural engineer with over 30 years of experience designing, diagnosing, re-purposing, and rehabilitating building structures. He has led some of the most demanding projects - from modest architectural statements to iconic sport's facilities to very large-scale, commercial mixed-use projects - throughout the United States and the Caribbean. Representative project experience includes:

- City of Margate, FL, WWTP Chlorine Building SCA
- City of Miami, FL, Miami South District Waste Water Treatment Plant
- City of Belle Glade, FL, Tellus Products Manufacturing Facility





**RICHARD WOHLFARTH, PE, BN (Nutting)**  
Geotechnical

Richard has 38 years of experience (33 with NEF) in various aspects of geotechnical engineering which include determining feasibility of site development, foundation design analysis and recommendations,

providing engineering evaluation for bridge and roadway construction, pavement design for roadways, roadway subgrade stabilization by geotextiles and other means, design of shoring systems for utility trenches and other deep excavations, dewatering methodology, backfill procedures, setting up and monitoring pile load tests, and providing value engineering for foundations.. Representative project experience includes:

- City of Margate, FL, Southgate Park
- City of Margate, FL, Roadway Evaluation @ NW 8th St
- City of Fort Lauderdale, FL, NE 21st Avenue and NE 24th Terrace Stormwater Improvements
- City of Fort Lauderdale, FL, NE 19th Street Force Main Rehabilitation



**ALEX CIASCA, PE (CROM)**  
Potable Water Storage Facility Inspection/  
Maintenance & Specialty Coating Consultation

Mr. Ciasca has 17 years of advanced skills developed in marketing, sales, and management of construction projects.


Comprehensive understanding of the engineering design and construction details required in the prestressed concrete tank industry, as well as the coordination between government agencies, owners, engineers, and contractors to ensure the successful development of projects. Focused on details and dedicated to delivering clients a product constructed safely, ahead of schedule, and held to the highest industry standards.

## Tab 7: Professional Registration

# 7. PROFESSIONAL REGISTRATION

## Prime Firm's Licenses and Certifications

CHA Consulting, Inc.



Florida  
**dbpr** Department of Business  
& Professional Regulation

HOME CONTACT US MY ACCOUNT

ONLINE SERVICES

Apply for a License  
Verify a Licensee  
View Food & Lodging Inspections  
File a Complaint  
Continuing Education Course Search  
View Application Status  
Find Exam Information  
Unlicensed Activity Search  
AB&T Delinquent Invoice & Activity List Search

LICENSEE DETAILS

11:01:12 AM 6/23/2022

Licensee Information

Name:

CHA CONSULTING, INC. (Primary Name)

Main Address:

575 BROADWAY  
ALBANY New York 12207

County:

OUT OF STATE

License Information

License Type:

Registry

Rank:

Registry

License Number:

28386

Status:

Current

Licensure Date:

01/29/2009

Expires:

**Note:** FDBPR stopped issuing certificates in 2020. CHA's license number is 28386.

**CHA Consulting, Inc. is active and in good standing with the Florida Department of State under document number F08000004937.**

State of Florida  
Department of State


I certify from the records of this office that CHA CONSULTING, INC. is a New York corporation authorized to transact business in the State of Florida, qualified on November 17, 2008.


The document number of this corporation is F08000004937.

I further certify that said corporation has paid all fees due this office through December 31, 2022, that its most recent annual report/uniform business report was filed on January 10, 2022, and that its status is active.

I further certify that said corporation has not filed a Certificate of Withdrawal.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Tenth day of January, 2022



  
Secretary of State

Tracking Number: 1892863710CC

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.  
<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

## Subconsultant Licenses/Certifications

### EDA

**State of Florida  
Department of State**

I certify from the records of this office that ELECTRICAL DESIGN ASSOCIATES, INC. is a corporation organized under the laws of the State of Florida, filed on October 8, 1998.

The document number of this corporation is P98000086834.

I further certify that said corporation has paid all fees due this office through December 31, 2023, that its most recent annual report/uniform business report was filed on January 18, 2023, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

*Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Eighteenth day of January, 2023*



*[Signature]*  
Secretary of State

Tracking Number: 857087921CC  
To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.  
<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

Licensee

Name:	DONALDSON, DAMEION	License Number:	70851
Rank:	Professional Engineer	License Expiration Date:	02/28/2025
Primary Status:	Current	Original License Date:	01/09/2010
Secondary Status:	Active		

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
8079	Current	ELECTRICAL DESIGN ASSOCIATES, INC.	Registry			

### AVIROM

**State of Florida  
Department of State**


I certify from the records of this office that AVIROM & ASSOCIATES, INC. is a corporation organized under the laws of the State of Florida, filed on July 1, 1981.

The document number of this corporation is 693023.

I further certify that said corporation has paid all fees due this office through December 31, 2023, that its most recent annual report/uniform business report was filed on January 24, 2023, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

*Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Twenty-fourth day of January, 2023*



*[Signature]*  
Secretary of State


Tracking Number: 1587317163CC  
To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.  
<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

Florida Department of Agriculture and Consumer Services  
Division of Consumer Services  
Board of Professional Surveyors and Mappers  
2005 Apalachee Parkway Tallahassee, Florida 32399-6500

License No.: **LB3300**  
Expiration Date: February 28, 2025

**Professional Surveyor and Mapper Business License**  
Under the provisions of Chapter 472, Florida Statutes

AVIROM & ASSOCIATES INC  
50 SW 2ND AVE #102  
BOCA RATON, FL 33432-4799



*[Signature]*  
WILTON SIMPSON  
COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.

**State of Florida**

**Minority Business Certification**

**Electrical Design Associates, Inc**

Is certified under the provisions of  
287 and 295.187, Florida Statutes, for a period from:  
09/23/2021 to 09/23/2023

*[Signature]*  
Jonathan R. Satter, Secretary  
Florida Department of Management Services



Office of Supplier Diversity  
4050 Esplanade Way, Suite 380  
Tallahassee, FL 32399  
850-487-0915  
[www.dms.myflorida.com/od](http://www.dms.myflorida.com/od)

### CCI

**State of Florida  
Department of State**

I certify from the records of this office that CONNECT CONSULTING, INC. is a corporation organized under the laws of the State of Florida, filed on January 22, 1996.

The document number of this corporation is P96000007973.

I further certify that said corporation has paid all fees due this office through December 31, 2023, that its most recent annual report/uniform business report was filed on January 4, 2023, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

*Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Fourth day of January, 2023*



*[Signature]*  
Secretary of State

Tracking Number: 777887063CC  
To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.  
<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>



## JEZERINAC

**LICENSEE DETAILS** 11:06:04 AM 4/6/2023

**Licensee Information**


Name: JEZERINAC GROUP, PLLC (Primary Name)  
Main Address: 480 HIBISCUS STREET  
SUITE 107  
WEST PALM BEACH Florida 33401  
County: PALM BEACH

**License Information**

License Type: Engineering Business Registry  
Rank: Registry  
License Number: 30785  
Status: Current  
Licensure Date: 07/25/2014  
Expires:

## CROM

Your payment was processed. Print this tax receipt for your records. It was also sent to stillman@cromcorp.com

 **Online Business Tax Receipt<sup>(1)</sup>**

Business Name **CROM, LLC**  
Business Tax ID **36596**

This constitutes your business tax receipt for 10/1/2022 - 9/30/2023.

Your business tax(es) for the fiscal year **10/1/2022 - 9/30/2023** are as follows:

ID	Service Name	Tax Amount	Explanation of Calculations
1000	STATE LICENSE/CERTIFICATION REQUIRED	\$0.00	
1360	CONTRACTOR-GENERAL-UNLIMITED	\$131.25	Business category flat fee of \$131.25
1940	ENGINEER	\$210.00	Per item fee \$105.00. Value submitted for taxation is 2.
6801	COMMERCIAL ZONED	\$0.00	
****	Payment	(\$341.25)	Posted on 9/1/2022
<b>TOTAL DUE:</b>		<b>\$341.25</b>	

Please note that the maximum charge for any single service is \$525

Amount Due on **Thursday, September 01, 2022** is **\$341.25**

(1) This page will serve as your business tax receipt for the fiscal year 10/1/2022 - 9/30/2023.  
Payments must be time-stamped by 11:59 pm on Monday, October 03, 2022 in order to avoid late fees.

Please, note that a home occupation permit may be required for this location, someone will contact you upon review of the information

## NUTTING

**State of Florida  
Department of State**



I certify from the records of this office that NUTTING ENGINEERS OF FLORIDA INC is a corporation organized under the laws of the State of Florida, filed on February 16, 1967.

The document number of this corporation is 313874.

I further certify that said corporation has paid all fees due this office through December 31, 2022, that its most recent annual report/uniform business report was filed on January 20, 2022, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

*Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Twentieth day of January, 2022*

   
Secretary of State

Tracking Number: 6952625433CC

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.  
<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

**Licensee Details**

**Licensee Information**

Name: NUTTING ENGINEERS OF FLORIDA, INC. (Primary Name)  
Main Address: 1310 NEPTUNE DRIVE  
BOYNTON BEACH Florida 334268498  
County: PALM BEACH

License Mailing:  
License Location:

**License Information**

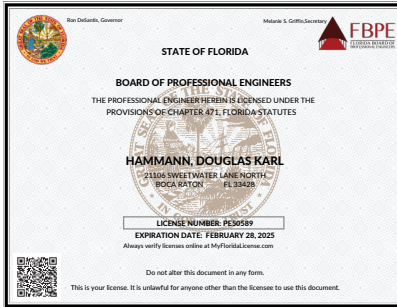
License Type: Registry  
Rank: Registry  
License Number: 606  
Status: Current  
Licensure Date: 05/10/1977  
Expires:

**Special Qualifications** Qualification Effective

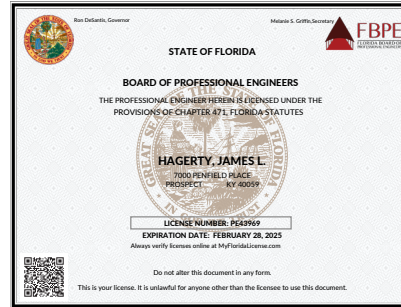
**Alternate Names**

## Key Personnel Licenses

Douglas Hammann, PE



James Hagerty, PE



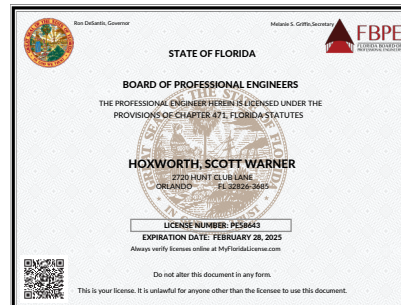
Edward Talton, PE

LICENSEE DETAILS	
Licensee Information	
Name:	TALTON, EDWARD HOLMES JR (Primary Name)
Main Address:	1016 SPRING VILLAS PT. SUITE 2000 WINTER SPRINGS Florida 32708
County:	SEMINOLE
License Information	
License Type:	Professional Engineer
Rank:	Prof Engineer
License Number:	47023
Status:	Current/Active
Licensure Date:	08/23/1993
Expires:	02/28/2025

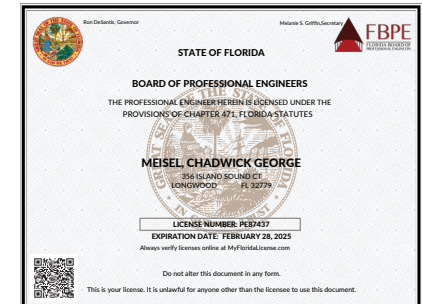
Richard "Rich" Voorhees, PE, BCEE

LICENSEE DETAILS	
Licensee Information	
Name:	VOORHEES, JOHN RICHARD (Primary Name)
Main Address:	3307 SUNSET RIDGE COURT LONGWOOD Florida 32779
County:	SEMINOLE
License Location:	3307 SUNSET RIDGE COURT LONGWOOD FL 32779
County:	SEMINOLE
License Information	
License Type:	Professional Engineer
Rank:	Prof Engineer
License Number:	25385
Status:	Current/Active
Licensure Date:	07/14/1978
Expires:	02/28/2025

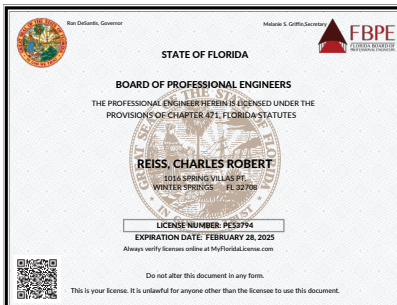
Scott Hoxworth, PE



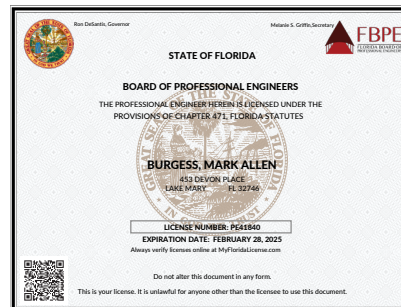
Chadwick Meisel, PE



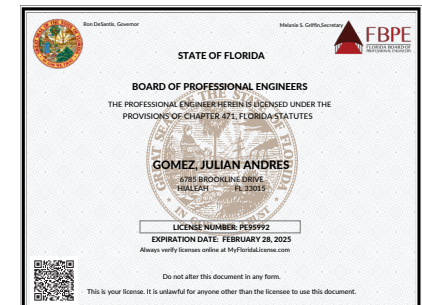
C. Robert Reiss, PhD, PE



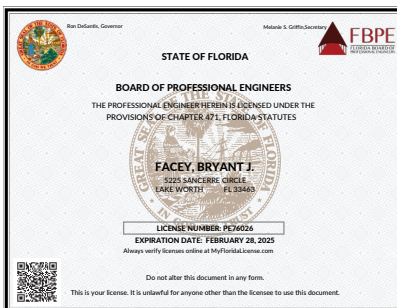
Mark Burgess, PE, BCEE



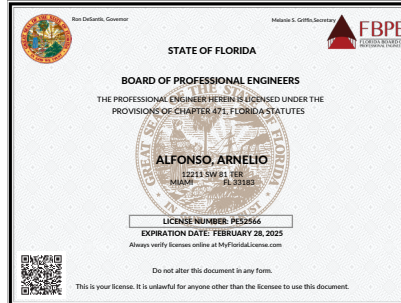
Julian Gomez, PE



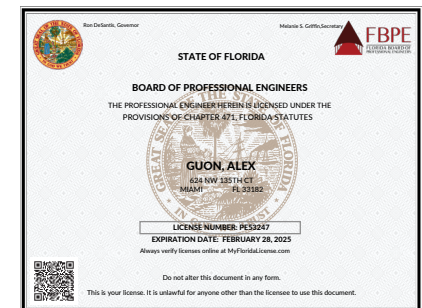
Bryant Facey, PE



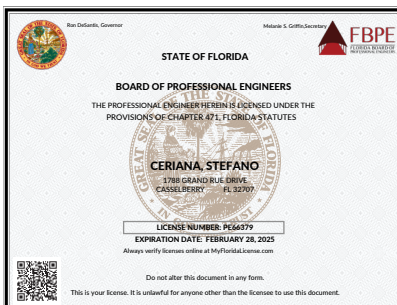
Arnelio Alfonso, PE



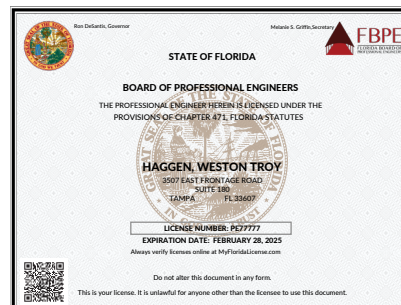
Alex Guon, PE



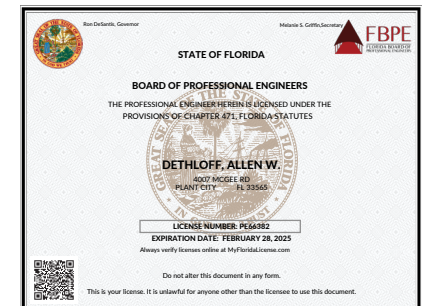
Stefano Ceriana, PE, LEED AP



Weston Haggen, PE, DBIA, ENV SP, PMP

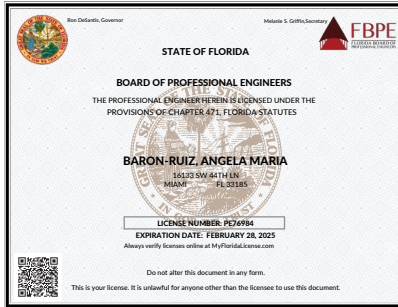


Allen Dethloff, PE

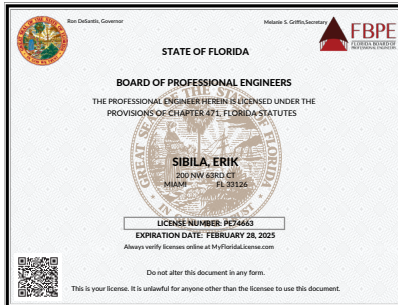




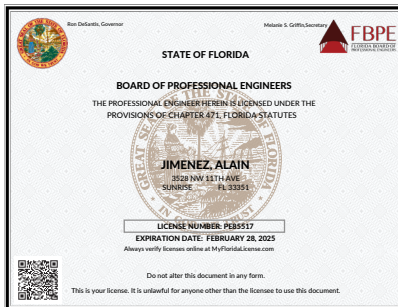
Angela Barón-Ruiz, PE, ENV SP



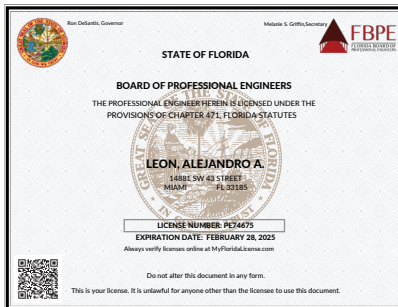
Erik Sibila, PE, CGC



Alain Jimenez, PE, MSCE, ENV SP



Alejandro Leon, PE



David Hatton, AIA, NCARB

#### LICENSEE DETAILS

##### Licensee Information

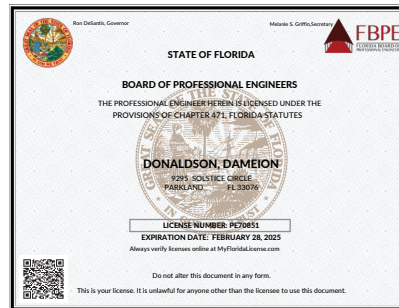
Name	HATTON, DAVID T (Primary Name)
Main Address	34 SHADY HILL ROAD MEDIA Pennsylvania 19063
License Mailing:	34 SHADY HILL ROAD MEDIA PA 19063

##### License Information

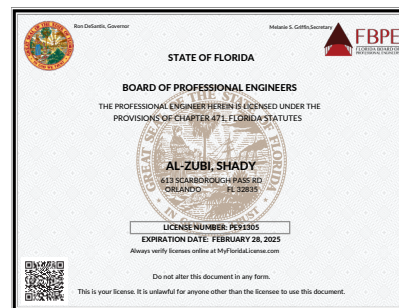
License Type:	Architect
Rank:	Architect
License Number:	AR92579
Status:	Current/Active
Licensure Date:	05/06/2005
Expires:	02/28/2025

## Subconsultant Personnel Licenses

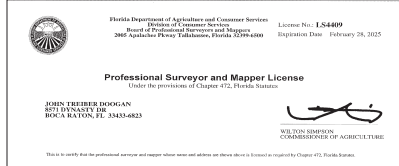
Dameion Donaldson, PE (EDA)



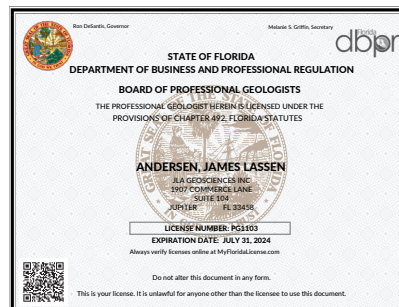
Shady Al-Zubi, PE (EDA)



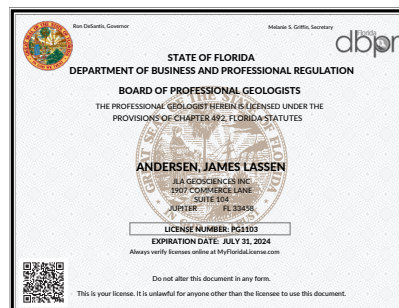
John Doogan, PSM (Avirom)



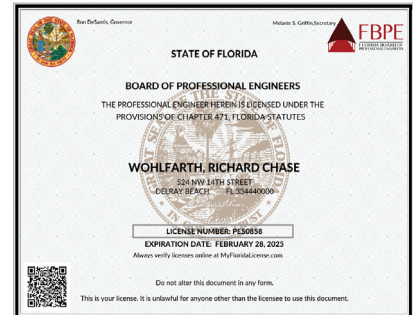
James Andersen, PG (CCI)



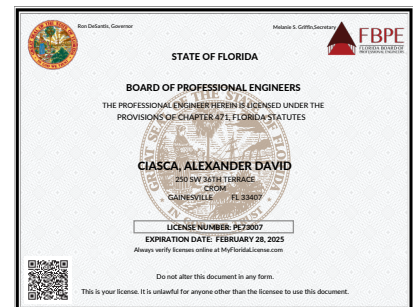
Ronald Jezerinac, SE, PE (Jezerinac)



Richard Wohlfarth, PE, BN (Nutting)



Alex Ciasca, PE (CROM)



## Tab 8: Project Management

Tab 8

# 8. PROJECT MANAGEMENT



## Snapshot

### 1. UNDERSTANDING OF SCOPE OF PROJECT

A successful project begins with the complete understanding of the scope of the project.

### 2. DEVELOPMENT OF A WORK PLAN

CHA will develop a project-specific work plan which defines the project goals and resources required to complete the project within the schedule.

### 3. INITIAL PROJECT MEETING

The meeting will outline a clear project understanding, set project goals, and define key project milestones.

### 4. PROJECT EXECUTION

Once the specific project design approach has been completed and approved, work would commence upon the notice to proceed.

### 5. QUALITY CONTROL

We will adhere to a QA/QC plan to maintain standards for technical performance and accuracy of all engineering reports, design drawings and specifications.

## Firm's Methodology for Project Management

CHA's experts provide professional, comprehensive engineering services throughout Florida. Our multi-disciplined team brings the capabilities of a broad spectrum of perspectives and extensive planning backgrounds to each assignment. From studies to construction, we routinely provide these services for power production projects:

- Study and preliminary design phase
- Final design phase
- Bidding phase
- Construction phase
- Engineering studies

CHA will provide the following services on Margate's projects:

### PROJECT MANAGEMENT

An established and practical project design approach is necessary to establish and meet project requirements, schedule and budget. The on-call project design approach includes:

- Meeting with the city to develop a detailed scope of work
- Developing a project-specific schedule
- Identifying and engaging the technical resources for the specific project
- Developing a project-specific QA/QC plan

Once the specific project design approach has been completed and approved by the city, work will commence with the notice to proceed (NTP). Project cost, schedule, and quality control will be managed by:

- Frequent internal project progress meetings
- Regular communication between the project manager and the Department of Environmental and Engineering Services
- Regular project progress reports submitted to the city
- The completion and submission of deliverables at project milestones
- Strict adherence with the project QA/QC plan

### EXTENSIVE QUALITY CONTROL

We take project management and quality control very seriously. Our project managers use three comprehensive project manuals (developed internally at CHA) to develop specific project management and QA/QC plans for each assignment: The Project Management Manual, the QA/QC Manual, and the Total Technical Quality Control (TTQC) Manual.

### CLIENT COORDINATION

The city's team will be an integral part of CHA's quality assurance program. By participating in project meetings, communicating clearly and often, and providing timely and thorough reviews of deliverables, the city and CHA will achieve success. CHA will maintain open communication with the city throughout the design process. Formal design reviews will be made at critical project milestones, such as the 30%, 60%, 90%, and 100% complete phases.



## Communication and Key Decision-Making

Successful management of projects under this contract will depend on three key elements: technical execution, budget maintenance, and the management of the city's goals and expectations relative to the team's delivery. Central to this will be the successful team's focus on working with city staff, staff from the Department of Environmental and Engineering Services and stakeholders. Our team understands that the various elements of projects under this contract may have individual, but interrelated schedules, budgets and priorities. **To promote success, our team employs a philosophy of extensive communication with city personnel to fully understand and appreciate your expectations for each element.** CHA has a long history of successful projects primarily due to our ability to integrate goals and objectives of various client departments and levels, including management, engineering and operations. Our references will attest to our approach that promotes solicitation of input from all stakeholders, and eliminates the "ivory tower" delivery method that some firms use. By participating in project meetings, communicating clearly and often, and providing timely and thorough reviews of deliverables, the city and CHA will achieve success.

**Our team will provide the city with qualified management and technical staff to develop plans and contract documents that will be functional, cost-effective, and maintainable.** We will use our "hands-on" project management approach to satisfy the contract conditions effectively. Our streamlined production-oriented team with state-of-the-art resources allows us to complete project assignments within contract time with high professional quality. Project manager, Doug Hammann, PE, will be intimately involved in all key decisions, working closely with Margate to make sure that all of the city's objectives and expectations are met and exceeded.

## Subconsultant Coordination

CHA's planning, design, and construction management capabilities have been augmented with local subconsultants for hydrogeology/wells, surveying and mapping, SUE, geotechnical engineering, and public involvement. Each firm will be given a specific scope, budget, and schedule. Our project manager will meet with each subconsultant monthly to coordinate key technical issues, schedule requirements, and upcoming work. If the subconsultant falls behind schedule, the firm will be required to add staffing until the progress meets the schedule.

## Coordination with Other Entities

CHA has a long and successful history of coordination with governments, utilities, and authorities throughout Florida. Specific to Margate, several of CHA's previous and existing design and construction projects are located in Broward

County, so our team has established contacts with the county and has a firm understanding of county requirements. State, federal, and private entities, such as FDEP, FDOT, USACE, FEC RR, SFWMD and others, each have specific requirements that the CHA team has successfully complied with on numerous projects. We can confidently state that CHA has significant previous and existing experience in compliance with the laws and ordinances relating to the scope of services for this contract and are prepared to work on Margate's behalf to coordinate with all local agencies if and when a project requires.

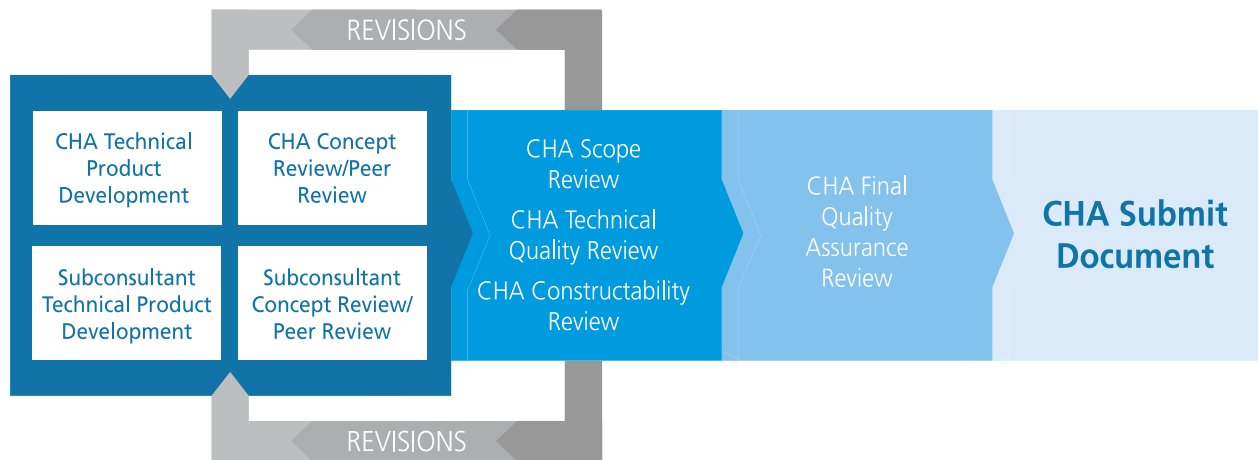
## Conflict Resolution

CHA has direct experience working with and on behalf of our clients to mitigate project conflicts that may arise between various stakeholders. In the event of a conflict, CHA will act as an advocate for Margate to assist in settling any dispute. CHA will work with all parties involved to find a solution and keep the project on schedule and within budget.

In an effort to reconcile potential liquidated damages and contractor claims for extra costs and owner/engineer compensable delays, Orange County Utilities (OCU) requested conflict resolution assistance from CHA as Engineer of Record for the now complete 216 MGD influent pump station at the County's South Water Reclamation Facility (SWRF). This project was challenged by execution during the COVID pandemic, supply chain delays and three hurricanes. OCU performs in-house inspection services on most of their utility projects with the engineering services consisting of typical construction administration services for review of contractor shop drawings, requests for information (RFIs), monthly progress meetings, and inspections for certification of substantial and final completion. The contractor experienced significant key staff turnover over the extended duration of the project and has made exaggerated claims for costs and schedule impacts and has not met many of the contract document requirements with the County. CHA has assisted OCU with understanding of the actual submittal timelines and interpretations of the contract plans and specifications to assist with reconciliation of the contractor's claims.

## Risk Management

Our team includes seasoned certified construction professionals cross-trained in design, project and risk management, and health and safety compliance. In addition to managing risk and governance of corporate workflows and controls, our project manager, Doug Hammann, PE, will be accountable for the monitoring and oversight of the city's project goals and safeguarding financial accountability in delivering the city's strategic objectives under this contract. Doug will work with our team and the city to proactively identify, assess and control each project's risks to prevent or reduce any negative outcomes. Once identified and evaluated, risks are prioritized and resources are coordinated to minimize,



monitor, and control the probability or impact of the risk and maximize the project's success.

## Quality Control Plan

CHA uses proactive quality management planning and execution initiated at the earliest possible time in project development and then implemented and monitored throughout design development. Quality does not simply end with the deliverable. CHA will have a vested interest in the project's quality through project construction and closeout.

Before beginning any project work, CHA's project managers prepare a Project-specific Work Plan (PSWP). The PSWP must comply with basic CHA corporate requirements but is then tailored to the specific project requirements at the project manager's discretion. Each PSWP will include identifying project stakeholders, project location and history, scope of services, schedule, budget, Quality Management Plan (QMP), roles and responsibilities of the team, communication style and frequency, file management procedures, and procedures for managing out of scope items.

The project-specific QMP will be customized as a collaborative effort involving the project managers and technical leads. CHA's quality manager will be:

1. Available to assist in the QMP preparation should the need arise
2. Responsible for reviewing and certifying the QMP for consistency and compliance before project work begins

CHA uses a "Red, Yellow, Green" ("RYG") quality review process so that work products and deliverables are fully and consistently reviewed, resolved and recorded. Our professionals who create the design or prepare the work products bear the primary responsibility for completeness, content, form, and technical accuracy.

We require a formal check and review of all work products and deliverables. The "RYG" quality review process follows a consistent workflow sequence whereby each design

element/work product is highlighted in **YELLOW** to signify that review has occurred. Any direct corrections are annotated in **RED**, and commentary and/or instructions are annotated in **BLUE** or **BLACK**. The checker signs and dates the review set and returns the documents to the design element/work product originator.

The originator evaluates the checkers' comments and works with the checker to resolve each comment. **GREEN** annotations signify agreement with, or the resolution of, the review comments. Corrections are made to the designs or drawings and are then verified by the checker, who places a QA/QC stamp on each drawing or design. Finally, the originator, checker, corrector, and verifier sign and date each drawing or design to verify that the process has been followed for complete quality compliance. The team does not advance or submit any work products or deliverables until they have satisfied the QMP.



## Budget and Schedule Techniques

CHA has provided clients similar to the City of Margate with professional engineering services and additional “extension-of-staff” type resources for a variety of public infrastructure projects using this proven approach. Our strategies for maximizing the effectiveness and efficiency of our projects include:

### SCHEDULE CONTROL

The project team has established procedures and software to continually compare project details and available resources.

Team members will hold regular meetings to determine the percentage of project tasks completed and the budget amount exhausted for each milestone. If a deviation should occur from the schedule or budget, project needs will be re-assessed and discussed.

We are well known for our consistent, on-time performance and quality assurance record for major clients in both the public and private sectors. Our design service strategy is always based on client focus and process-oriented thinking to identify and address project issues quickly and cost-effectively.

Given the firm-wide workforce of over 1,500 people, we do not foresee any difficulties meeting your needs. We have the resources to make sure we meet your project schedule.



### COST CONTROL

CHA’s cost control method begins with developing a detailed scope of work, fee proposal, and project-specific work plan to determine project costs. We accomplish this through proactive, upfront communication during the project’s scoping phase.

Once our team and the stakeholders have agreed on the project costs and work plan, CHA’s assigned project manager will develop forecasted project expenditures depicted graphically. This forecast serves as a baseline to monitor the schedule and expenditure and keep the project on track. This dashboard system gives the project team access to information that can be used to quickly and accurately monitor and assess project status to control schedule and budget proactively.

The objectives of a disciplined, cost-control program are two-fold:

- To maintain control over costs throughout the design development process
- To prevent surprises when construction bids are opened



## Techniques used to control cost include the following:

### REGULAR COMMUNICATION

We will meet to discuss project priorities and develop a project plan that outlines the schedule, major milestones, and staffing. Communication is critical to verify the project’s progress and remain on the most efficient path to completion.

### VALUE ENGINEERING

We have experience applying value engineering principles, techniques, and models to projects. We will incorporate value engineering milestones into the design schedule.

### LIFE-CYCLE COST ESTIMATING

Our team knows how to complete life-cycle cost estimating of major systems and equipment and provide other value engineering functions to select the upgrade components most beneficial to your facilities in terms of cost, quality, and function.

## Tab 9: Proof of Insurance

# 9. PROOF OF INSURANCE



## CERTIFICATE OF LIABILITY INSURANCE

CHAHOLDING

CMURPHY

DATE (MM/DD/YYYY)  
8/2/2022

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

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

PRODUCER <b>Ames &amp; Gough</b> 859 Willard Street Suite 320 Quincy, MA 02169	CONTACT NAME:	
	PHONE (A/C, No, Ext): <b>(617) 328-6555</b>	FAX (A/C, No): <b>(617) 328-6888</b>
	E-MAIL ADDRESS: <b>boston@amesgough.com</b>	
INSURED  <b>CHA Consulting, Inc.</b> 575 Broadway Albany, NY 12207	INSURER(S) AFFORDING COVERAGE	
	INSURER A: <b>Phoenix Insurance Company A++, XV</b>	NAIC # <b>25623</b>
	INSURER B: <b>Travelers Indemnity Company, A++, XV</b>	<b>25658</b>
	INSURER C: <b>Travelers Casualty Insurance Company of Americ</b>	<b>19046</b>
	INSURER D: <b>Berkshire Hathaway Specialty Insurance Company</b>	<b>22276</b>
	INSURER E:	
	INSURER F:	

### COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATION MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input checked="" type="checkbox"/> LOC OTHER:			630-7E170386	8/1/2022	8/1/2023	EACH OCCURRENCE \$ 1,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 500,000
							MED EXP (Any one person) \$ 15,000
							PERSONAL & ADV INJURY \$ 1,000,000
							GENERAL AGGREGATE \$ 2,000,000
							PRODUCTS - COMP/OP AGG \$ 2,000,000
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY			810-4S407410	8/1/2022	8/1/2023	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
							BODILY INJURY (Per person) \$
							BODILY INJURY (Per accident) \$
							PROPERTY DAMAGE (Per accident) \$
							\$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			CUP-4S539836	8/1/2022	8/1/2023	EACH OCCURRENCE \$ 10,000,000
							AGGREGATE \$ 10,000,000
							\$
C	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input checked="" type="checkbox"/> If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N <input checked="" type="checkbox"/> N	N/A	UB-4S429322	8/1/2022	8/1/2023	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER \$ 1,000,000
							E.L. EACH ACCIDENT \$ 1,000,000
							E.L. DISEASE - EA EMPLOYEE \$ 1,000,000
							E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D	Professional Liab			47-EPP-308429-04	8/1/2022	8/1/2023	Per Claim 6,000,000
				47-EPP-308429-04	8/1/2022	8/1/2023	Aggregate 10,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
If AI box is checked, GL Endorsement Form #CGD604, Auto AI #CAT499 to the extent provided therein applies and all coverages are in accordance with the policy terms and conditions.

Evidence of Coverage. The A&E Professional Liability policy listed above includes Pollution Liability coverage.

### CERTIFICATE HOLDER

### CANCELLATION

<b>CHA Consulting, Inc. -- Coral Springs, FL</b> 4700 Riverside Drive Suite 110 Coral Springs, FL 33067	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 <i>Gared Maxwell</i>
--	---

ACORD 25 (2016/03)

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Tab 10:  
Offeror's Certification



# 10. OFFEROR'S CERTIFICATION

## OFFEROR'S CERTIFICATION CITY RFQ NO. 2023-010

### WHEN OFFER IS A CORPORATION

IN WITNESS WHEREOF, the Offeror hereto has executed this Proposal Form this 13<sup>th</sup> day of April, 2023.



ATTEST

By [Signature]  
Asst. Secretary

CHA Consulting, Inc.

Printed Name of Corporation

New York

Printed State of Incorporation

By: [Signature]  
Signature of President or other authorized officer

Michael A. Platt

Printed Name of President or other authorized officer

4700 Riverside Drive, Suite 110

Address of Corporation

Coral Springs, FL 33067

City/State/Zip

954.510.4700

Business Phone Number

State of New York

County of Albany

The foregoing instrument was acknowledged before me by means of X physical presence or    online notarization this 13<sup>th</sup> day of April, 2023, by (Name), Michael A. Platt (Title) General Counsel and Executive Vice President of CHA Consulting, Inc. (Company Name) on behalf of the corporation, who is personally known to me or who has produced    as identification and who did (did not) take an oath.

WITNESS my hand and official seal.

[Signature]

Notary Public

Nikki C. Dames

Name of Notary Public: Print, Stamp, or Type as Commissioned

NIKKI C. DAMES  
NOTARY PUBLIC-STATE OF NEW YORK  
No. 02DA6253381  
Qualified in Schenectady County  
My Commission Expires 12-27-2023

RFQ NO. 2023-010

29

Tab 11:  
Offeror's  
Qualifications  
Statement

# 11. OFFEROR'S QUALIFICATIONS STATEMENT

## OFFEROR'S QUALIFICATION STATEMENT CITY RFQ NO. 2023-010

The undersigned certifies under oath the truth and correctness of all statements and of all answers to questions made hereinafter:

SUBMITTED TO: City of Margate (Purchasing Manager)

ADDRESS: 5790 Margate Boulevard  
Margate, Florida 33063

CIRCLE ONE

SUBMITTED BY: CHA Consulting, Inc.

NAME: Michael A. Platt

ADDRESS: 4700 Riverside Drive, Suite 110, Coral Springs, FL 33067

PRINCIPAL OFFICE: III Winners Circle, P.O. Box 5269, Albany, NY 12205-0269

Corporation  
Partnership  
Individual  
Other

1. State the true, exact, correct and complete name of the partnership, corporation, trade or fictitious name under which you do business and the address of the place of business. (Attach corporate documents from the State of Florida (sunbiz.org) to this statement.)

The correct name of the Offeror is: CHA Consulting, Inc.

The address of the principal place of business is: III Winners Circle, P.O. Box 5269, Albany, NY 12205-0269

2. If Offeror is a corporation, answer the following:

a. Date of Incorporation: January 7, 1927

b. State of Incorporation: New York

c. President's name: James Stephenson

d. Vice President's name: M. John Hensley (Executive Vice President)

e. Secretary's name: Michael A. Platt, Esq.

f. Treasurer's name: Dom Bernardo (C.F.O.)

g. Name and address of Resident Agent:

Corporation Service Company, 1201 Hays Street, Tallahassee, Florida 32301-2525

3. If Offeror is an individual or a partnership, answer the following:

a. Date of organization:

RFQ NO. 2023-010

30

b. Name, address and ownership units of all partners:

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---

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c. State whether general or limited partnership:

---

4. If Offeror is other than an individual, corporation or partnership, describe the organization and give the name and address of principals:

N/A

5. If Offeror is operating under a fictitious name, submit evidence of compliance with the Florida Fictitious Name Statute.

N/A

6. How many years has your organization been in business under its present business name? Since 2011

a. Under what other former names has your organization operated?

CHA Consulting, Inc. (2011-Present); CHA, Inc. (2008-2011); Clough, Harbour & Associates, LLP (1996-Present); Clough, Harbour & Associates (1981-1996); Clough Associates; (1971-1981); Clarkson & Clough Associates (1967-1971); Clarkson, Clough, Yokel (1966-1967); John Clarkson, Consulting Eng. (1955-1966); Clarkson Engineering Co., Inc. (1952-1955)

7. Indicate registration, license numbers or certificate numbers for the businesses or professions which are the subject of this RFQ. Please attach certificate of competency and/or state registration.

Florida Engineering License #28386

CHA Consulting, Inc. is active and in good standing with the Florida Department of State under document number F08000004937

\*\*Copies can be found in Section 7 of our statement of qualifications.

8. Have you ever failed to complete any work awarded to you? If so, state when, where and why?

CHA has never failed to complete any project in breach of the contract or due to the firm's refusal or inability to perform or complete the contracted services. However, CHA has occasionally over the years had clients terminate or suspend projects or contracts prior to completion for reasons other than any breach or nonperformance on the part of CHA.

THE OFFEROR ACKNOWLEDGES AND UNDERSTANDS THAT THE INFORMATION CONTAINED IN RESPONSE TO THIS QUALIFICATIONS STATEMENT SHALL BE RELIED UPON BY OWNER IN AWARDING THE AGREEMENT AND SUCH INFORMATION IS WARRANTED BY OFFEROR TO BE TRUE. THE DISCOVERY OF ANY OMISSION OR MISSTATEMENT THAT MATERIALLY AFFECTS THE OFFEROR'S QUALIFICATIONS TO PERFORM UNDER THE AGREEMENT SHALL CAUSE THE OWNER TO REJECT THE PROPOSAL AND, IF AFTER THE AWARD, TO CANCEL AND TERMINATE THE AWARD AND/OR AGREEMENT.



(Signature)

State of New York  
County of Albany

The foregoing instrument was acknowledged before me by means of x physical presence or  
online notarization this 13<sup>th</sup> day of April, 2023,  
by Michael A. Platt, who is personally known to me or who has  
produced \_\_\_\_\_ as identification and who did  
(did not) take an oath.

WITNESS my hand and official seal.

  
NOTARY PUBLIC

(Name of Notary Public: Print, Stamp,  
or Type as Commissioned)

NIKKI C. DAMES  
NOTARY PUBLIC-STATE OF NEW YORK  
No. 02DA6253381  
Qualified in Schenectady County  
My Commission Expires 12-27-2023



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## Detail by Entity Name

Foreign Profit Corporation  
CHA CONSULTING, INC.

### Cross Reference Name

CHA CONSULTING, INC.

### Filing Information

<b>Document Number</b>	F08000004937
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<b>Event Date Filed</b>	04/06/2021
<b>Event Effective Date</b>	NONE

### Principal Address

575 Broadway  
ALBANY, NY 12207

Changed: 02/23/2015

### Mailing Address

575 Broadway  
ALBANY, NY 12207

Changed: 02/23/2015

### Registered Agent Name & Address

CORPORATION SERVICE COMPANY  
1201 HAYS STREET  
TALLAHASSEE, FL 32301-2525

### Officer/Director Detail

#### **Name & Address**

Title CEO

CARROLL, MICHAEL D  
575 BROADWAY  
ALBANY, NY 12207



Title CFO

BERNARDO, DOM M  
3 WINNERS CIRCLE  
ALBANY, NY 12205

Title Secretary, General Counsel

PLATT, MICHAEL A  
3 WINNERS CIRCLE  
ALBANY, NY 12205

Title AS

TITSWORTH, THOMAS DESQ  
3 WINNERS CIRCLE  
ALBANY, NY 12205

Title President

Stephenson, James  
1 Faneuil Hall Marketplace  
South Market Building, suite 4195  
Boston, MA 02109

**Annual Reports**

Report Year	Filed Date
2021	01/18/2021
2022	01/10/2022
2023	01/30/2023

**Document Images**

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Florida Department of State, Division of Corporations

## Tab 12: SF 330 Forms

# 12. STANDARD FORM 330 (PARTS I AND II)

## ARCHITECT - ENGINEER QUALIFICATIONS

### PART I - CONTRACT-SPECIFIC QUALIFICATIONS

#### A. CONTRACT INFORMATION

1. TITLE AND LOCATION (City and State)

General Civil Engineering, Building Architectural, and Landscape Architectural Consulting Services

2. PUBLIC NOTICE DATE

March 16, 2023

3. SOLICITATION OR PROJECT NUMBER

RFQ No. 2023-010

#### B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Doug Hammann, PE, Project Manager

5. NAME OF FIRM

CHA Consulting, Inc.

6. TELEPHONE NUMBER

954.510.4700

7. FAX NUMBER

N/A

8. EMAIL ADDRESS

DHammann@chacompanies.com

#### C. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors.)

	(Check)			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	JV PARTNER	SUBCONTRACTOR			
a.	<input checked="" type="checkbox"/>			CHA Consulting, Inc. (CHA)  <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	4700 Riverside Drave, Suite 100 Coral Springs, FL 33067	Project management, planning, evaluation, modeling, design, and construction support services
b.	<input checked="" type="checkbox"/>			CHA Consulting, Inc. (CHA)  <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	1016 Spring Villas Pt. Winter Springs, FL 32708	Project management, planning, evaluation, modeling, design, and construction support services
c.	<input checked="" type="checkbox"/>			CHA Consulting, Inc. (CHA)  <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	927 New Haven Avenue Suite 206 Melbourne, FL 32901	Project management, planning, evaluation, modeling, design, and construction support services
d.			<input checked="" type="checkbox"/>	Electrical Design Associates, Inc. (EDA)  <input type="checkbox"/> CHECK IF BRANCH OFFICE	7284 West Palmetto Park Road Suite 302-S Boca Raton, FL 33433	Electrical and Instrumentation
e.			<input checked="" type="checkbox"/>	Avirom & Associates, Inc. (Avirom)  <input type="checkbox"/> CHECK IF BRANCH OFFICE	50 S.W. 2nd Avenue Suite 102 Boca Raton, FL 33432	Surveying/SUE
f.			<input checked="" type="checkbox"/>	Connect Consulting, Inc. (CCI)  <input type="checkbox"/> CHECK IF BRANCH OFFICE	1907 Commerce Lane Suite 104 Jupiter, FL 33458	Hydrogeology
g.			<input checked="" type="checkbox"/>	Jezerinac Group, PLLC (Jezerinac)  <input type="checkbox"/> CHECK IF BRANCH OFFICE	480 Hibiscus Street Suite 107 West Palm Beach, FL 33401	Structural Engineering

**C. PROPOSED TEAM (CONTINUED)***(Complete this section for the prime contractor and all key subcontractors.)*

	(Check)			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	JV PARTNER	SUBCONTRACTOR			
h.			X	Nutting Engineers of Florida, Inc. (Nutting)  <input type="checkbox"/> CHECK IF BRANCH OFFICE	1310 Neptune Drive Boynton Beach, FL 33426	Geotechnical engineering
i.			X	CROM, LLC  <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	2090 Palm Beach Lakes Blvd. Suite 304 West Palm Beach, FL 33409	Potable Water Storage Facility Inspection/Maintenance & Specialty Coating Consultation



## Organizational Chart

Our team has been built to provide Margate with an extraordinary blend of engineering expertise, Margate and local Florida project history, and personalized service. Our proposed project manager, Doug Hammann, PE, will serve as the city's direct day-to-day contact. He has assigned the most qualified project team for the scope of services identified in this RFQ. Each of our team members was specifically selected to assist in successfully completing all unique challenges and project needs for the duration of the contract.



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS PROJECT	14. YEARS EXPERIENCE
<b>Douglas Hammann, PE</b>	<b>Project/Client Manager</b>	<div>a. TOTAL</div> <div>b. WITH CURRENT FIRM</div>
		<div>35</div> <div>34</div>

15. FIRM NAME AND LOCATION (City and State)



16. EDUCATION (Degree and Specialization)

Florida Atlantic University, FL, M.E., Civil/Environmental and Water Resources  
Southern Illinois University, IL, B.S., Civil Engineering Technology

17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)

Professional Engineer - FL, OH

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

ASCE, AWWA, FWEA, WEF

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
<b>a.</b>	<b>New Lime Storage/Feed Facility</b> Coral Springs, FL	2005	2007
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Client manager/engineer for replacement of existing lime slurry storage and feed facilities, including new 200-ton lime storage silo, 3 lime slaking process trains, 3 lime slurry storage tanks, and 6 variable speed lime slurry feed pumps. This system is designed for the provision of lime slurry addition to 4 existing Accelerator softening units. The equipment and controls are located and configured within a new CMU structure at the Coral Springs Water Treatment Plant.		
<b>b.</b>	<b>New Water Main on Sample Road</b> Coral Springs, FL	2018	2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Client manager/engineer who provided engineering services for the preliminary design, final design, permitting, bidding, and construction-phase services. The project consisted of approximately 1,500 feet of 16-inch ductile iron water main along Sample Road and 950 feet of 12-inch ductile iron water main along Coral Hills. CHA was responsible for construction services, such as daily site evaluations and inspections.		
<b>c.</b>	<b>University Drive Water Main and Force Main</b> Coral Springs, FL	2021	2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Client manager/engineer who provided engineering services for the preliminary design, final design, permitting, bidding phase, and construction-phase services for the installation of approximately 2,155 feet of new 12-inch water main and approximately 1,500 feet of 6-inch force main within the traffic lanes of University Drive.		
<b>d.</b>	<b>Reclamation of Nano Filtration Concentrate</b> Boca Raton, FL	2010	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Client manager/engineer for feasibility evaluation and preliminary design recommendations for the incorporation of magnetic ion exchange (MIEX®) system for reduction of organic concentrations and color from nano filtration concentrate. The system was proposed for the reclamation of the concentrate and returning of the effluent stream to the City of Boca Raton's existing conventional lime softening filtration plant.		
<b>e.</b>	<b>Miscellaneous Water Treatment Plant Improvements, Phase III</b> Coral Springs, FL	2011	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Provided evaluation, preliminary design, final design, bidding assistance and engineering services during construction for the Third phase of improvements to the existing 16.0 MGD lime softening WTF. The improvements follow the recommendations of the 2006 Utility System Master Plan Update, prepared by CHA (formerly Eckler Engineering). The general scope of improvements included: New high service pump station; new chemical storage and feed building (for coagulant aid, hexametaphosphate, ammonia and fluoride); new plant-wide SCADA system and fiber optic network; new electrical feeder, distribution and VFD's for the high service pump station; modifications to the existing sodium hypochlorite feed system to convert from positive displacement pumps to low pressure distribution; remodel of two-story WTP administration building; yard piping improvements, civil site work, instrumentation and control systems and electrical.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS PROJECT	14. YEARS EXPERIENCE
<b>J. Richard Voorhees, PE, BCEE</b>	<b>Quality Manager</b>	<div>a. TOTAL</div> <div>b. WITH CURRENT FIRM</div>
		49                      5

15. FIRM NAME AND LOCATION (City and State)



16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
Auburn University, AL, M.S., Civil/Environmental Engineering Auburn University, AL, B.S., Civil Engineering	Professional Engineer - FL BCEE certificate no. 98-20040

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Life Member - Chi Epsilon Civil Engineering Honorary Fraternity, American Society of Civil Engineers, Water Environment Federation, American Water Works Association (AWWA), Florida Select Society of Sanitary Sludge Shovelers

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
<b>a.</b>	<b>Ormond Beach WTP Sodium Hypochlorite Generator and Lime Slaker Rehabilitation and Replacement, Ormond Beach, FL</b>  (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior project engineer for the preliminary and final design, development of bid documents and bidding assistance to repair the sodium hypochlorite generation units, replace the lime slaker units, and upgrade the equipment with more modern and energy-efficient equipment while maintaining reliability and safe plant operations.	2020	2020
		<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>b.</b>	<b>6.0-MGD Lime Softening Water Treatment Plant Evaluation Miramar, FL</b>  (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior technical manager for the evaluation of a 6.0-mgd Lime Softening Water Treatment Plant. The purpose of the evaluation was to determine improvements necessary to meet USEPA proposed regulations for the D/DBP Rule. A new softening process was proposed as well as extensive filter improvements. Costs for all improvements and an implementation plan were included in the study.	2000	N/A
		<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>c.</b>	<b>Design and Construction Services for Phase I Improvements to the Northport Water Treatment Plant, Port St. Lucie, FL</b>  (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager for a new 1.7-mgd lime softening reactor-clarifier, a new 35 foot diameter lime sludge gravity thickener, two new 5,000 gpm backwash pumps, a new liquid/dry polymer feed system and polymer feed metering pumps, a new coagulant day tank system and coagulant feed metering pumps, and a new diesel fuel storage tank and containment. The design included a comprehensive water treatability study for enhanced lime softening to remove color and TOC for a highly colored raw water, resulting in a reduction of trihalomethane formation potential.	1999	1999
		<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>d.</b>	<b>Bonita Springs Utilities Reverse Osmosis Water Treatment Plant Bonita Springs, FL</b>  (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Process mechanical QC reviewer and senior process mechanical technical resource for a DB project for CCI/CH2Mhill. The ultimate capacity of the plant was 13.0-mgd with the first phase having a capacity of 6.5-mgd. In addition to review of the Process Mechanical design effort for QC Rich was heavily involved in the chemical feed system designs for the plant. Developed a study plan to determine the DBP formation potential for the existing lime softening WTP as well as various blending scenarios for lime-softened water and RO permeate. Designed new disinfection contact basin for the combined ultimate plant flow of 23.5-mgd, which meets EPA DBP and GWT Rules.	2003	2003
		<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>e.</b>	<b>Design and Construction Services for an 8.75-MGD Enhanced Lime Softening Water Treatment Plant, Bartow, FL</b>  (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project design manager for the degasification for hydrogen sulfide removal with forced draft, packed (Jaeger ball) tower aeration with hydrogen sulfide gas scrubbers; cone-type softening units; dual media, high rate filtration with air-water backwash; chemical feed systems for coagulant (ferric sulfate), polymer, lime slurry, polyphosphate, carbon dioxide, chlorine and ammonia; backwash, transfer and high service pumping facilities; a 2.0 MG domed roof, circular prestressed concrete finished water storage tank; lime sludge thickening and truck loading facilities, filter backwash settling and recycle pumping facilities and an administration/laboratory building. Design also included a comprehensive enhanced lime softening treatment optimization study to reduce disinfection byproduct precursors in the finished water. The results of the study were used for the final design criteria for plant processes and chemical feed equipment.	2001	2001
		<input checked="" type="checkbox"/> Check if project performed with current firm	

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS PROJECT	14. YEARS EXPERIENCE	
<b>C. Robert Reiss, PhD, PE</b>	<b>Water Treatment Process Lead</b>	a. TOTAL	b. WITH CURRENT FIRM
		29	23

15. FIRM NAME AND LOCATION (City and State)



16. EDUCATION (Degree and Specialization)

University of Central Florida, FL, Ph.D., Environmental Engineering  
University of Central Florida, FL, M.S.E., Environmental Engineering  
University of Central Florida, FL, B.S.E., Environmental Engineering  
University of Central Florida, FL, B.S.E., Civil Engineering

17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)

Professional Engineer - FL, CA, Bahamas


18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

American Water Works Association (AWWA), American Membrane Technology Association, American Society of Civil Engineers, Bahamas Society of Engineers, Caribbean Desalination Association, Southeast Desalting Association, International Community Board, University of Central Florida

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
<b>a.</b>	<b>Reverse Osmosis Water Treatment Plant Design Services</b> Vero Beach, FL	2018	2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;">[X] Check if project performed with current firm</span> Principal-in-charge for the design and construction management of an expansion to the 2.0-million-gallon-per-day (mgd) RO treatment facilities to 4.5 mgd. Reiss provided complete design and specification preparation at the typical 60%, 90%, and 100% completion levels. The scope of services included efforts necessary to design, permit, and bid the expansion of the RO WTP. In addition, engineering services and limited construction management services were provided during construction.		
<b>b.</b>	<b>Ammonia Alternatives Study, Tampa Bay Water</b> Tampa, FL	2016	2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;">[X] Check if project performed with current firm</span> Principal-in-charge and QC reviewer for an evaluation of alternative ammonia source chemicals used in chloramination of wholesale potable water distributed from seven WTPs to improve system reliability and worker safety. This study evaluated alternatives on a cost and non-cost basis for each of the plants. The study recommended switching from liquid Aqua Ammonia® (ammonium hydroxide) to ammonium sulfate for at least five of the plants, primarily due to worker health and safety, and reduced chemical precipitation and associated maintenance at the injection sites. Reiss developed standard operating procedures and assisted Tampa Bay Water with the chemical conversions of the plants.		
<b>c.</b>	<b>James E. Anderson Reverse Osmosis Pilot Evaluation and Concentrate Disposal Assessment, Port St. Lucie, FL</b>	2005	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;">[X] Check if project performed with current firm</span> Water system engineering service project involved conducting a RO pilot evaluation of multiple alternative membranes to determine fouling potential, the acceptability of alternative membranes, compliance with water quality goals, and other criteria to ensure the adequacy of the proposed facility. A Concentrate Disposal Preliminary Assessment was conducted to assess the City's ability to obtain a surface water discharge permit for concentrate disposal.		
<b>d.</b>	<b>6.25 MGD Brackish RO WTP #2</b> Clearwater, FL	2015	2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;">[X] Check if project performed with current firm</span> Project manager for the design of the City's new 6.25 MGD RO WTP #2. The design of the plant incorporates two treatment trains. The brackish groundwater blended with the concentrate from the City's RO WTP #1 is treated via RO to reduce the salt concentration, and the 5.25 MGD of permeate is then ozonated to oxidize the sulfides. The freshwater is oxidized with chlorine, filtered to remove the iron and then blended with the ozonated permeate. As the freshwater is relatively hard and alkaline, the blending of the freshwater and permeate results in stable water after minimum post-treatment. Treatment of the concentrate from RO WTP #1 was an innovative approach to conserve water.		
<b>e.</b>	<b>Finished Water Post Stabilization Evaluation</b> Vero Beach, FL	2018	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;">[X] Check if project performed with current firm</span> QA/QC for evaluating finished water stability following the expansion of the City's RO WTP and reduced blending with lime softened water. Water chemistry was evaluated using the RTW stoichiometry model.		


**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME  <b>Bryant Facey, PE</b>	13. ROLE IN THIS PROJECT  <b>Water Treatment Process, Water Distribution/Transmission, Wastewater Treatment, Wastewater Transmission, Sanitary Lift Stations</b>	14. YEARS EXPERIENCE	
		a. TOTAL  19	b. WITH CURRENT FIRM  4
15. FIRM NAME AND LOCATION (City and State)   <b>CHA Consulting, Inc.</b> Coral Springs, FL			
16. EDUCATION (Degree and Specialization)  University of Central Florida, FL, B.S., Environmental Engineering		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)  Professional Engineer - FL	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  FWEA, WEF			

19. RELEVANT PROJECTS			
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
a.	<b>University Drive Water Main and Force Main</b> Coral Springs, FL  (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project engineer for the design and const. mgmt. of the city's water main and force main along University Dr. between Sample Rd. and Lift Station 15C. The existing mains were of concern due to pipeline age and materials.. The existing mains were required to be kept in service during design and construction phases. The project included permitting of the mains through multiple regulatory agencies in the area. CHA provided the services during construction for the project, in addition to the design, to verify that the water and wastewater pipeline replacement and modifications were constructed per city and engineering standards.	2021	2021
b.	<b>Rehabilitation of Lift Station 22A, 21D, and New Force Main</b> Coral Springs, FL  (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project engineer for the design and construction management of lift station rehabilitation. The city has implemented a new standard for submersible lift stations, and CHA has continued the rehabilitation program for lift station conversion. The project included design to rehabilitate and convert five of the city's aging lift stations. The design included demolishing the existing lift station pump house, converting the existing wetwells into conflict manholes, installing new deeper wetwells, valve vaults, and associated mechanical, electrical, and control systems. CHA also provided services during construction to verify that the lift stations were constructed per city and engineering standards. This project is currently under construction.	2019	Ongoing
c.	<b>MIEX Regeneration System Upgrades</b> Village of Palm Springs, FL  (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project manager/engineer to provide engineering services during construction to replace the MIEX regeneration system at both, Main and RL Pratt, WTPs owned and operated by the Village of Palm Springs, the project scope also included installing associated electrical, mechanical, and controls systems and site improvements.	2021	Ongoing
d.	<b>Water Supply Facilities Work Plan 2019 Update</b> Tamarac, FL  (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project manager/engineer to update the City's water supply facilities work plan associated with the most recent Lower East Coast plan issuance and State F.A.C. requirements. Project included evaluation of historical water usage and demands, flow projections, verification of the City's water infrastructure and treatment plant capacities and presenting the City's CIP and code for inclusion in the City's upcoming Comprehensive Plan update.	2021	N/A
e.	<b>WTP 2 Treatment and Disposal Improvements</b> Palm Beach County, FL  (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project manager/engineer to provide new lime softening unit, rehabilitation of existing lime softening unit, demolition of an existing lime softening unit and associated systems, hydraulic valve station, modifications to process water and chemical systems and associated site civil improvements.	2021	Ongoing



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS PROJECT	14. YEARS EXPERIENCE	
<b>Arnab Hanra, PE</b>	<b>Water Treatment Process</b>	a. TOTAL 22	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION (City and State)			
 <b>CHA Consulting, Inc.</b> Winter Springs, FL			
16. EDUCATION (Degree and Specialization)		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
National Institute of Technology, India, B. Tech., Civil Engineering Indian School of Business, India, M.B.A., Marketing		Professional Engineer - FL, TX	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			


19. RELEVANT PROJECTS			
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
a.	<b>Valero Renewals Inc., Feasibility Study on Process Improvements for Aquifer WTP at Ethanol Production Facility, Hartly, IA</b>  (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <div> <input type="checkbox"/> Check if project performed with current firm           </div> <p>Lead process for evaluation of options to eliminate lime, soda ash and lime sludge disposal costs (\$1.02M/yr) at existing 1.7 MGD WTP providing high purity water to boilers at ethanol producing plant. Recommended direct aquifer feed to RO softening system, bypassing existing lime clarifiers. Submitted preliminary design report with cost estimates to enable client to make 'go/no-go' decision.</p>	2019	2020
b.	<b>Fiat Chrysler, Saltillo N Engine Plant</b> Saltillo, Mexico  (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <div> <input type="checkbox"/> Check if project performed with current firm           </div> <p>Lead process for evaluation of options for RO concentrate disposal/reuse – Lime softening, 3rd stage NF, evaporation pond options considered. Compared capital and operating costs of various options.</p>	2019	2019
c.	<b>Vietnam Ministry of Industry, 6.7 MGD SWRO Treatment Plant</b> Vietnam  (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <div> <input type="checkbox"/> Check if project performed with current firm           </div> <p>Lead process-mechanical on this \$11.8M Engineer Procure (EP) project to produce polished water from sea water for a power plant. Treatment consisted of coagulation, flocculation, lamella clarifiers, auto strainers, micro- filtration (MF), SWRO, energy recovery devices (ERD), BWRO, degasifier, Mixed bed (MB) Ion Exchange consisting of Anion/Cation resins, and an activated carbon filter (for small potable demand).</p>	2017	2019
d.	<b>Government of Turkmenistan &amp; Kawasaki Heavy Industries Ltd., Water Treatment Plant Design, Turkmenistan</b>  (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <div> <input type="checkbox"/> Check if project performed with current firm           </div> <p>Lead process-mechanical engineer on a \$14M Engineer-Procure (EP) project, treating river water via clariflocculators, dual media filters (DMF), BWRO, Ion Exchange resin units (C/Anion/MB), degasifier, and calcite remineralization unit (potable water stream) for a fertilizer factory. Recommended operational/design changes leading to \$100k civil works cost savings and resolved water quality challenges pertaining to clarifier operation.</p>	2010	2013
e.	<b>1.8 MGD Zero Liquid Discharge (ZLD) Plant</b> Palm Coast, FL  (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <div> <input type="checkbox"/> Check if project performed with current firm           </div> <p>Lead process-mechanical engineer and design manager on this \$3.5M EP Project involving RO concentrate treatment via lime clarifiers, auto-cleaning strainers, ultrafiltration (UF), and solids handling systems. Treated RO concentrate was reused as drinking water. Arnab identified potential for power cost yearly savings of \$13k by suggesting simple modifications to UF feed piping and valving. He also assisted with initial piloting to determine full-scale design criteria.</p>	2011	2014

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS PROJECT	14. YEARS EXPERIENCE	
<b>Stefano Ceriana, PE</b>	<b>Water Distribution/Transmission Lead</b>	a. TOTAL	b. WITH CURRENT FIRM
		21	7
15. FIRM NAME AND LOCATION (City and State)			
 <b>CHA Consulting, Inc.</b> Winter Springs, FL			
16. EDUCATION (Degree and Specialization)		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
Worcester Polytechnic Institute, MA, M.S., Environmental Engineering Worcester Polytechnic Institute, MA, B.S., Civil/Environmental Engineering		Professional Engineer - FL LEED® Accredited Professional (LEED AP) FDOT Certification Transportation Approved Temporary Traffic Control (TTC) Intermediate Course, No. 41174	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
American Water Works Association (AWWA)			

19. RELEVANT PROJECTS			
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
a.	<b>South Seminole and North Orange County Wastewater Transmission Authority (SSNOCWTA) Program Management Services, Seminole and Orange Counties, FL</b>	Ongoing Since 2009	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Program manager for SSNOCWTA, which is composed of several local municipalities and counties that form the member entities to regionalize their wastewater treatment and transmission to obtain optimum efficiencies in wastewater treatment. The SSNOCWTA system consists of 32 pump stations (design capacity of 47 MGD) and major transmission mains (10- to 42-in) to meet needs in relation to the transmission of wastewater to a regional WWTP. Responsibilities include design, permitting, and construction admin services; surveying, utility locates, and subsurface utility investigations; management of continuing contractors; vendor/contractor proposals and contract procurement; asset rehabilitation and replacement; emergency response services (loss of power, pump station overflows, and pipeline incidents); O&M support; I/I program implementation; facilities maintenance tracking and management; extension of staff; and updates to the master plan and CIP budget.		
b.	<b>East Service Area Potable Water and Reclaimed Water Storage and Repump Facility, Orange County, FL</b>	2016	2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Project engineer for a new storage and repump facility with a 2.5 MGD potable water GST, a 1.5 MG reclaimed water GST, yard piping, a 7,200 gpm potable water high-service pumping (HSP) system, a 6,000 gpm reclaimed water HSP system, a sodium hypochlorite storage and feed system, an operations building, electrical, emergency generator and fuel storage, instrumentation and SCADA, 5,000 feet of 36-inch potable water mains, 5,000 feet of 24-inch reclaimed water mains, 600 feet of gravity sewers, manholes, and 1,100 feet of 4-inch force main.		
c.	<b>Summerport Village Parkway Water Main Project Orange County, FL</b>	2016	2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Project manager for the design, permitting, public involvement, and construction administration for approximately 1,300 feet of new 24-inch potable water main along Summerport Village Parkway, including a new county easement.		
d.	<b>World Drive Extension Utility Relocation Kissimmee, FL</b>	2020	2020
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Project manager to relocate water, wastewater and reclaimed water utilities as part of a roadway project to extend World Drive as it enters the Magic Kingdom. The roadway was extended, realigned, and included fly-overs, modified drainage, and other roadway improvements. The design included 3,400 ft of 20-inch and 30-inch reclaimed water, 1,800 ft of 6-inch and 8-inch potable water main, 1,250 ft of 20-inch potable water main and 1,100 ft of 8-inch gravity force main, and five manholes.		
e.	<b>Osceola Parkway and Victory Way Improvements Kissimmee, FL</b>	2016	2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Project manager for the relocation of approximately 6,500 feet of force main, 4,000 feet of reclaimed water main and 7,000 feet of potable water main (ranging in size from 10- to 16-inch), in addition to 3,700 feet of gas pipeline (ranging in size from 4- to 6-inch) as part of this roadway project to modify the Osceola Parkway and Victory Way intersection to include a flyover.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS PROJECT	14. YEARS EXPERIENCE	
<b>James Hagerty, PE</b>	<b>Wastewater Treatment Lead</b>	a. TOTAL 37	b. WITH CURRENT FIRM 6
15. FIRM NAME AND LOCATION (City and State)			
 <b>CHA Consulting, Inc.</b> Winter Springs, FL			
16. EDUCATION (Degree and Specialization)		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
University of Louisville, KY, M.E., Civil Engineering University of Louisville, KY, B.S., Civil Engineering		Professional Engineer - FL, KY, MO, IL	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	<b>Westport WWTF Expansion</b> Port St. Lucie, FL	PROFESSIONAL SERVICES 2020	CONSTRUCTION (if applicable) TBD
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Lead design engineer for the preliminary engineering, permitting, final design, bidding, and construction services for expanding the Westport WWTF to meet the future treatment needs of the Westport service area. This scope is based on an anticipated future treatment to meet the following capacities: 10.71 MGD AADF, 12.00 MGD maximum month average day capacity and 15.85 MGD peak day capacity.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	<b>Tavistock Sunbridge WTP and WWTP</b> Osceola County, FL	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable) TBD
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Project engineer responsible for the preliminary design, detailed design, permitting, and construction services for a new greenfield 1.0 MGD WTP using ozonation for hydrogen sulfide removal to supply drinking water to a new development community and a new greenfield 3.5 MGD WWTP to treat the domestic wastewater.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	<b>SWRF IPS Expansion and Upgrades</b> Orange County, FL	PROFESSIONAL SERVICES Est. 2022	CONSTRUCTION (if applicable) Est. 2022
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Design engineer to expand the SWRF influent pumping capacity to meet the Phase V peak flow needs with six pumps installed and make provisions for future maximum plan peak flow needs of 216 MGD. Provided the final design, bidding and construction administration services of a new influent pump station with dual self-cleaning wet wells and space for up to eight 31 MGD pumps.		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	<b>Delwood Super Station Design-Build</b> Hillsborough County, FL	PROFESSIONAL SERVICES 2018	CONSTRUCTION (if applicable) 2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Technical advisor for this design-build project that involved the design and construction of a 10 MGD dual wet well, triplex diversion pump station and demolition and repurposing of the existing Dale Mabry WWTP as part of the overall Northwest Consolidation Project. Additionally, the project included the design and construction of a reclaimed water low-profile cascade aerator and dechlorination for surface water discharge to Brushy Creek. This design includes a 3,000 scfm odor control unit, six submersible pumps, a dual wet well, a cascade aerator, a chemical feed system, site layout, and hydraulic analysis.		
e.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	<b>Eastern WWTP Expansion</b> Eustis, FL	PROFESSIONAL SERVICES 2018	CONSTRUCTION (if applicable) 2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Project engineer for preliminary engineering, funding assistance, permitting, design, bidding, and construction administration services for the 1.0 MGD WWTP expansion, including the mechanically cleaned screens and compactor; grit removal and dewatering; new wet well with variable speed submersible pumps; treatment process for nutrient removal with internal recycle; aeration system; clarifiers; RAS/WAS pumping system; chlorine contact chambers and effluent transfer pumps; sodium hypochlorite storage and feed system; RIB evaluation and third RIB; biosolids holding/decanting and truck loading area; electrical, including a new generator; instrumentation and controls/SCADA; and an aeration/blower building.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS PROJECT	14. YEARS EXPERIENCE
<b>Scott Hoxworth, PE</b>	<b>Wastewater Treatment</b>	<div>a. TOTAL</div> <div>b. WITH CURRENT FIRM</div>
		24 19

15. FIRM NAME AND LOCATION (City and State)



16. EDUCATION (Degree and Specialization)

University of Central Florida, FL, M.S., Environmental Engineering  
University of Central Florida, FL, B.S., Environmental Engineering

17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)

Professional Engineer - FL

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Water Environment Federation

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
<b>a.</b>	<b>Sunbridge WTP and WWTP</b> Osceola County, FL  (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Ongoing	WTP 2021/WWTP 2023
	<input checked="" type="checkbox"/> Check if project performed with current firm Senior project engineer to provide a pilot study, preliminary design, detailed design, permitting, and construction services for a new greenfield 1.0 MGD WTP to supply drinking water to a new development community and a new greenfield 1.0 MGD WWTP to treat the domestic wastewater from the Sunbridge community and sanitary flows from the WTP. The two treatment plants will be built adjacent on the same site.		
<b>b.</b>	<b>Ormond Beach WTP Upgrades</b> Ormond Beach, FL  (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	2020	2020
	<input checked="" type="checkbox"/> Check if project performed with current firm Senior project engineer for the design, permitting, and construction oversight activities for the renewal and replacement projects at the city's 12 MGD lime softening/LPRO WTP. The improvements included a new bulk hypochlorite storage and feed facility, two replacement lime slakers, and a replacement motor control center.		
<b>c.</b>	<b>6.25 MGD Brackish RO WTP #2</b> Clearwater, FL  (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	2015	2016
	<input checked="" type="checkbox"/> Check if project performed with current firm Senior project engineer for the design of the city's new 6.25 MGD RO WTP #2. The design incorporates two treatment trains. The brackish groundwater blended with the concentrate from the city's RO WTP #1 is treated via RO to reduce the salt concentration, and the 5.25 MGD of permeate is then ozonated to oxidize the sulfides. The freshwater is oxidized with chlorine, filtered to remove the iron and then blended with the ozonated permeate. As the freshwater is relatively hard and alkaline, the blending of the freshwater and permeate results in stable water after minimum post-treatment.		
<b>d.</b>	<b>Storey Park/Innovation Place Utility Project</b> Orange County, FL  (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	2020	2020
	<input checked="" type="checkbox"/> Check if project performed with current firm Project/construction engineer for the preliminary design, final design, permitting, and construction management services to install over 40,000 feet of large-diameter potable water main, reclaimed water main, and force main to address projected future development.		
<b>e.</b>	<b>Pineda Causeway Water Transmission Main Design</b> Melbourne, FL  (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Ongoing	Est. 2023
	<input checked="" type="checkbox"/> Check if project performed with current firm Project/construction engineer for the design, bidding, and construction-phase services for a 20-inch HDPE water main installed via subaqueous HDD under the Banana and Indian Rivers and 16-inch ductile iron piping for the portion to be attached to the main bridge structure with expansion and contraction control devices, isolation valves, and ARVs. The project replaces aging infrastructure, improves water quality, fireflow, and creates redundancy for beachside residents.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS PROJECT	14. YEARS EXPERIENCE
<b>Mark Burgess, PE, BCEE</b>	<b>Wastewater Treatment</b>	<div>a. TOTAL</div> <div>b. WITH CURRENT FIRM</div>
		38 9

15. FIRM NAME AND LOCATION (City and State)



16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
University of Florida, FL, B.S., Environmental Engineering University of Louisville, KY, B.A., Biology	Professional Engineer - FL, KY, OH, IN

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)


Board Certified Environmental Engineer (BCEE), American Academy of Environmental Engineers, American Water Works Association, Water Environment Federation, Solid Waste Association of North America, American Society of Civil Engineers

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
a.	<b>Grant and Loan Assistance to Fund New Wastewater Treatment Facility</b> Vero Beach, FL	2020	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project manager to assist the city in developing a facilities plan that identifies components necessary for constructing the new WWTP, expanding the septic tank effluent pump system, and constructing a supplemental reclaimed water system using water from the main canal stormwater system based on the feasibility studies, the preliminary design report for the new WWTP, and other documentation to assist in the funding of the project.		
b.	<b>SRF and Asset Management Plan</b> Apopka, FL	2015	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Client manager to assist the city in obtaining \$50M in funding. Services included a comprehensive utility rate study, a preliminary design report and creating an asset management database for the city's WWTP expansion project. This project was fast-tracked to complete the application submittal before the SRF fiscal year deadline.		
c.	<b>Eastern WWTP Expansion</b> Eustis, FL	2017	2017
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Client service manager and funding task leader for engineering, funding assistance, permitting, design, bidding, and construction administration services for the 1.0 MGD WWTP expansion, including grit removal and dewatering, a new wet well with variable speed submersible pumps, treatment process for nutrient removal with internal recycle, aeration system, clarifiers, RAS/WAS pumping system, chlorine contact chambers and effluent transfer pumps, sodium hypochlorite storage and feed system, RIBs, instrumentation and controls/SCADA, and an aeration/blower building.		
d.	<b>Lift Station 218 (LS218) Relocation</b> Orlando, FL	2022	2022
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Client service manager for the two-phase project to relocate the primary wastewater collection lift station from underneath Terminal A at Orlando International Airport (OIA) to increase safety and accessibility. Phase 1 included designing and installing a temporary/permanent electrical bypass pump with variable frequency drive (VFD) controls adjacent to LS218, ready for use in the event of an emergency. Phase I also included a preliminary report with the conceptual cost analysis and a plan for three location options, with final location chosen based on coordination with all parties. Phase II included designing the LS218 relocation, preceded by a preliminary design report examining current capacity, future capacity, wet well shape and size, gravity sewer installation method, and the site layout.		
e.	<b>Wastewater Treatment Facility (WWTF) Nutrient Management Study</b> Vero Beach, FL	2019	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Client service manager/project manager for data collection, influent flow, loading characterization, evaluating influent and biological unit process loadings, developing process modeling, evaluating alternatives for improving nutrient removal with no additional tankage, BioWin process modeling software and calibration, and plant operations review and analysis.		



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME  <b>Arnelio Alfonso, PE</b>	13. ROLE IN THIS PROJECT  <b>Wastewater Transmission Lead, Stormwater Lead</b>	14. YEARS EXPERIENCE	
		a. TOTAL  36	b. WITH CURRENT FIRM  22
15. FIRM NAME AND LOCATION (City and State)   <b>CHA Consulting, Inc.</b> Doral, FL			
16. EDUCATION (Degree and Specialization)  IPSJAE, Havana, Cuba, B.S., Civil Engineering University of Madrid, Spain, Hydrology Course		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)  Professional Engineer - FL Project Management Institute	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)  <b>New Redundant 54-inch Bypass Line Design-Build</b> Fort Lauderdale, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES  2021	CONSTRUCTION (if applicable)  2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Project manager for the R&R of approximately 15,200 feet of 54-inch HDPE force main. The project included 9,700 feet of pipe installation using innovative HDD technology to cross underneath essential city streets and rivers. The project also provided interconnections to existing pump stations and force mains currently connected to the existing and aging pipe. <span style="float: right;">[X] Check if project performed with current firm</span>		
b.	(1) TITLE AND LOCATION (City and State)  <b>M-D WASD Upgrade of Sewage Pump Station 0542</b> Miami-Dade County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES  2018	CONSTRUCTION (if applicable)  2019
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Project manager to upgrade the existing Pump Station 0542 due to the existing pumps not having sufficient head capacity to pump the peak flow at peak pressure. The upgrades included a new 8-foot ID wet well with 8-inch internal piping, a new valve vault with 8-inch piping, and various force main upgrades. The upgraded Pump Station 0542 was designed for an ultimate peak flow of 780 gpm, and the selected pumps to deliver the peak flow were two submersible Flygt, model NP 3202 HT 3-462 with 278 mm impeller, 45 HP, 1,775 rpm motors. These pumps were designed to operate alternatively; one pump would deliver peak flow against peak pressures, and the other would serve as a spare. <span style="float: right;">[X] Check if project performed with current firm</span>		
c.	(1) TITLE AND LOCATION (City and State)  <b>Upgrade of Sewage Pump Station 001</b> Miami Beach, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES  2017	CONSTRUCTION (if applicable)  2017
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Project manager for this project. This project consisted of the upgrade of the existing Pump Station 001 in part due to excessive I/I. An in-depth analysis was conducted and a report with calculations and design plans was prepared. <span style="float: right;">[X] Check if project performed with current firm</span>		
d.	(1) TITLE AND LOCATION (City and State)  <b>24-inch Force Main and 24-Inch Water Main, Subaqueous Crossing of Biscayne Canal   North Miami, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES  2015	CONSTRUCTION (if applicable)  2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Project manager responsible for installing 450 linear feet of 24-inch force main installed by horizontal directional drilling (HDD) under the Biscayne Canal from Griffin Boulevard to NE 2nd Avenue. The new 24-inch force main will be interconnected to the existing force mains on both canal sides. The project also encompasses 450 linear feet of 24-inch water main installed by HDD, which crosses the Biscayne Canal. <span style="float: right;">[X] Check if project performed with current firm</span>		
e.	(1) TITLE AND LOCATION (City and State)  <b>M-D WASD Upgrade of Sewage Pump Station 0300</b> Miami-Dade County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES  Ongoing	CONSTRUCTION (if applicable)  TBD
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Project manager to rehabilitate and upgrade Pump Station 0300, an important booster facility that suffered a catastrophic disaster when a dresser coupling failed and flooded the station. CHA created a BDR and designed the upgrade of the pump station, which includes five 600 HP pumps, operating in a flow range of 7,000 to 31,000 gpm. The pumps collect sewage from a 72-inch influent pipe and discharge into a common header that joins a 48-inch force main. CHA performed several analyses of the existing conditions including hydraulic, mechanical, electrical, structural, and architectural to determine the various possibilities and implement the most practical and cost-effective solution. <span style="float: right;">[X] Check if project performed with current firm</span>		

## E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS PROJECT	14. YEARS EXPERIENCE	
<b>Weston Hagen, PE, DBIA, ENV SP, PMP</b>	<b>Wastewater Transmission</b>	a. TOTAL	b. WITH CURRENT FIRM
		14	14

15. FIRM NAME AND LOCATION (City and State)



CHA Consulting, Inc.  
Tampa, FL

16. EDUCATION (Degree and Specialization)

University of Central Florida, FL, M.S.E., Civil Engineering  
University of Central Florida, FL, B.S.E., Civil Engineering

17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)

Professional Engineer - FL  
FDOT, MOT Intermediate, No. 4169  
NASSCO PACP/MACP/LACP Certification No. 07004925  
Design-Build Professional Certification No. D-3301  
Envision Sustainability Professional, Certification No. 39259

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

OSHA 10-Hour Construction Program, Hydraulic Surge Modeling Training, American Water Works Association (AWWA), Water Environment Federation, American Society of Civil Engineers

### 19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
<b>SSNOCWTA Eagle Circle Force Main Replacement</b> Seminole County, FL	2015	2015
<b>a.</b> (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Project manager for the force main replacement project that included the preliminary design, final design, permitting, construction inspection, and construction administration services for 8,275 feet of 12-inch HDPE force main. The project included ROW, MOT, and FDEP permitting.	<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>Seminola Force Main Replacement</b> Casselberry, FL	2020	2020
<b>b.</b> (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Project manager to up-size an existing 10-inch C-200 PVC force main to a 16-inch PVC and HDPE force main. The project included preliminary and final design, permitting, construction inspection, and construction administration services for 4,619 feet of 16-inch force main consisting of 590 feet of jack-and-bore within a 30-inch steel casing, 2,777 feet of HDD, and 1,252 feet of open-cut connecting the city's largest pump station to the city's WRF and an alternative connection with valving to the City of Orlando's Iron Bridge WRF. The project also included ROW, MOT, and FDEP permits.	<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>Seminola Master Pump Station Relocation</b> Casselberry, FL	2021	2021
<b>c.</b> (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Project manager for the preliminary and final design, permitting, bidding, and limited construction services for a new triplex master pump station. The master pump station relocation included the complete demolition of the existing lift station, with the exception of the existing wet well. The new lift station included a new triplex lift station with submersible pumps, pump guide rails, single wet well, liner, access hatches, discharge piping, electrical and controls, emergency generator, miscellaneous piping and appurtenances, new access drive, fencing, and landscaping. The permitting included FDEP and County ROW applications.	<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>Force Main Condition Assessment from Pennsylvania Avenue and Eighth Street to the Dunn WRF   Pinellas County, FL</b>	2017	N/A
<b>d.</b> (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Project manager responsible for investigating the transmission force main using different technologies, comparing the results and making recommendations for repair or replacement after a recent failure in the 30-inch force main.	<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>Delwood Super Station Design-Build</b> Hillsborough County, FL	2018	2018
<b>e.</b> (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Project manager for this design-build project that involved the design and construction of a 10 MGD dual wet well, triplex diversion pump station and demolition and repurposing of the existing Dale Mabry WWTP as part of the overall Northwest Consolidation Project. Additionally, the project included the design and construction of a reclaimed water low-profile cascade aerator and dechlorination for surface water discharge to Brushy Creek. This design includes a 3,000 scfm odor control unit, six submersible pumps, a dual wet well, a cascade aerator, a chemical feed system, site layout, and hydraulic analysis.	<input checked="" type="checkbox"/> Check if project performed with current firm	

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS PROJECT	14. YEARS EXPERIENCE	
<b>Ed Talton, PE</b>	<b>Master Planning/Hydraulic Modeling/CIP Support</b>	a. TOTAL	b. WITH CURRENT FIRM
		30	21

15. FIRM NAME AND LOCATION (City and State)



16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
University of Florida, FL, M.S.E., Environmental Engineering University of Florida, FL, B.S.E., Environmental Engineering University of Kentucky, KY, Hydraulic Surge Modeling Training	Professional Engineer - FL


18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

American Water Works Association (AWWA)

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
<b>a.</b>	<b>Morris Bridge Pump Station Improvements</b> Tampa, FL	2020	2020
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">[X] Check if project performed with current firm</span> Project engineer performing hydraulic and transient (surge) analyses and preliminary engineering to size and configure modifications to the key Morris Bridge pump station. Developed an innovative concept to boost new Tampa low pressures.		
<b>b.</b>	<b>Potable and Reclaimed Water Systems Master Plan and Hydraulic Model Update</b> , Altamonte Springs, FL	2017	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">[X] Check if project performed with current firm</span> Client/project manager to perform and summarize various technical evaluations on the potable water and reclaimed water systems, including hydraulic modeling, to develop capital improvement projects. Developed an implementation schedule for the City to expand, repair, replace, and maintain the potable and reclaimed water systems to economically meet the City's service standards for over 10 years.		
<b>c.</b>	<b>Continuing Hydraulic Modeling Services</b> Orange County, FL	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">[X] Check if project performed with current firm</span> Project manager for a continuing engineering services contract to provide hydraulic modeling for the County to update, optimize and utilize potable water, wastewater and reclaimed water system hydraulic models. The engineering services included utilizing hydraulic models to support utilities planning, including recommending capital improvements projects, design, operation, and regulatory compliance.		
<b>d.</b>	<b>Consumer Court Lift Station Hydraulic Modeling and Permitting</b> Ocoee, FL	2015	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">[X] Check if project performed with current firm</span> Client manager and quality assurance/quality control (QA/QC) for a hydraulic analysis to size the lift station components and confirm an existing gravity main could accept the flow from the new force main and gravity system connection along SR 50. The hydraulic analyses were used for the general FDEP permit approval. A jurisdictional wetland delineation and evaluation was completed to obtain the Environmental Resource Permit (ERP) and the United States Army Corps of Engineers (USACE) permit.		
<b>e.</b>	<b>Water Delivery and Wastewater Collection Master Plan</b> Port St. Lucie, FL	2016	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">[X] Check if project performed with current firm</span> Project manager for a water delivery, wastewater collection and reuse utilities master plan to address an expanding service area, evaluate the CIP and assess the capacity and reliability of key existing infrastructure. Master plan components consisted of potable water storage and delivery, wastewater collection, reuse storage and delivery, and high-service pumping and transmission/distribution piping for the City.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME  <b>Ahmet Tahaoglu, EI</b>	13. ROLE IN THIS PROJECT  <b>Water Distribution/Transmission, Master Planning/Hydraulic Modeling/CIP Support</b>	14. YEARS EXPERIENCE	
		a. TOTAL  10	b. WITH CURRENT FIRM  6
15. FIRM NAME AND LOCATION (City and State)   <b>CHA Consulting, Inc.</b> Coral Springs, FL			
16. EDUCATION (Degree and Specialization)  Florida Atlantic University, FL, M.A., Civil Engineering (in progress) Florida Atlantic University, FL, B.S., Environmental Engineering		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)  Engineer Intern - FL	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  FWEA, WEF			

19. RELEVANT PROJECTS			
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
a.	<b>University Drive Water Main and Force Main</b> Coral Springs, FL	2021	2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Engineer/inspector for the preliminary design, final design, permitting, bidding phase, and construction-phase services for the installation of approximately 2,155 feet of new 12-inch water main and approximately 1,500 feet of 6-inch force main within the traffic lanes of University Drive.		
b.	<b>Water Treatment Filtration System Upgrade</b> Tamarac, FL	2022	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Assistant to project manager/engineer for project that includes decommissioning and demolition of an existing 4.0 MGD lime softening unit and filters 1 and 2. Construction of a new 10.0 MG filter building and associated piping, backwash pump station, chemical feed systems, and miscellaneous site restoration.		
c.	<b>New Force Main on Sample Road Between Coral Springs Drive and Sample Road, Coral Springs, FL</b>	2018	2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project engineer who provided engineering services for the planning, design, permitting, and services during construction. CHA designed a new force main along Sample Road between Coral Hills Drive and University Drive in response to the city's growing concern regarding aged transmission force mains. The project consisted of approximately 1,500 feet of 20-inch ductile iron force main and a right-turn lane on Sample Road at NW 94th Avenue. CHA was also responsible for construction services, such as daily site evaluations and inspections.		
d.	<b>Replacement of Raw Water Supply Wells 18, 19 and 20</b> Coral Springs, FL	2019	2019
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project engineer to update the City's water supply facilities work plan associated with the most recent Lower East Coast plan issuance and State F.A.C. requirements. Project included: evaluation of historical water usage and demands, flow projections, verification of the City's water infrastructure and treatment plant capacities and presenting the City's CIP and code for inclusion in the City's upcoming Comprehensive plan update.		
e.	<b>Water Supply Facilities Work Plan 2019 Update</b> Tamarac, FL	2021	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Assistant to project manager/engineer to update the City's water supply facilities work plan associated with the most recent Lower East Coast plan issuance and State F.A.C. requirements. Project included: evaluation of historical water usage and demands, flow projections, verification of the City's water infrastructure and treatment plant capacities and presenting the City's CIP and code for inclusion in the City's upcoming Comprehensive plan update.		


**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME <b>Julian Gomez, PE</b>	13. ROLE IN THIS PROJECT <b>Sanitary Lift Stations Lead</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>7</b>	b. WITH CURRENT FIRM <b>7</b>
15. FIRM NAME AND LOCATION (City and State) <b>CHA Consulting, Inc.</b> <b>Doral, FL</b>			
16. EDUCATION (Degree and Specialization) <b>Oral Roberts University, OK, B.S., Mechanical Engineering</b>		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) <b>Professional Engineer - FL</b>	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State) <b>Design-Build for the Installation of a New Redundant 54-inch Bypass Line Fort Lauderdale, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2021</b>	CONSTRUCTION (if applicable) <b>2021</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <div> <div></div> <div> <p><input checked="" type="checkbox"/> Check if project performed with current firm</p> <p>Project manager responsible for the replacement/rehabilitation of approximately 15,200 feet of 54-inch HDPE force main. The project included approximately 9,700 feet of pipe installation using the innovative HDD technology to cross underneath essential city streets and rivers. The project also provided interconnections to existing pump stations and force mains currently connected to the existing aging pipe.</p> </div> </div>		
b.	(1) TITLE AND LOCATION (City and State) <b>Proposed 8- to 18-inch Sanitary Sewer along NW 37th Avenue (Phase I &amp; Phase II)   Miami-Dade County, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2022</b>	CONSTRUCTION (if applicable) <b>Est. 2024</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <div> <div></div> <div> <p><input checked="" type="checkbox"/> Check if project performed with current firm</p> <p>Project engineer for the design of approximately 26,860 linear feet of 8-inch to 18-inch PVC gravity sewer, complete with 100 manholes and all necessary clean-outs and connections for a complete sanitary sewer system. The team developed detailed maintenance of traffic plans with specifications for completing the sewer collection system.</p> </div> </div>		
c.	(1) TITLE AND LOCATION (City and State) <b>NW 7th Avenue Wastewater Collection System Expansion Miami-Dade County, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2019</b>	CONSTRUCTION (if applicable) <b>2021</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <div> <div></div> <div> <p><input checked="" type="checkbox"/> Check if project performed with current firm</p> <p>Project engineer for the design of approximately 16,600 feet of 8-inch PVC Gravity Sewer and 6,050 feet of 8-inch DIP force main across two sub-basins, complete with a total of 73 manholes, and all necessary valves and accessories for connections to future pump stations. A detailed MOT plan for construction was also developed, in conjunction with specifications for the completion of the gravity sewer and force main system.</p> </div> </div>		
d.	(1) TITLE AND LOCATION (City and State) <b>Upgrade of Sewage Pump Station 001 Miami Beach, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2017</b>	CONSTRUCTION (if applicable) <b>2017</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <div> <div></div> <div> <p><input checked="" type="checkbox"/> Check if project performed with current firm</p> <p>Project engineer for this project. This project consisted of the upgrade of the existing Pump Station 001 in part due to excessive I/I. An in-depth analysis was conducted and a report with calculations and design plans was prepared.</p> </div> </div>		
e.	(1) TITLE AND LOCATION (City and State) <b>M-D WASD Upgrade of Sewage Pump Station 0300 Miami-Dade County, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>Ongoing</b>	CONSTRUCTION (if applicable) <b>TBD</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <div> <div></div> <div> <p><input checked="" type="checkbox"/> Check if project performed with current firm</p> <p>Project engineer to rehabilitate and upgrade Pump Station 0300, an important booster facility that suffered a catastrophic disaster when a dresser coupling failed and flooded the station. CHA created a BDR and designed the upgrade of the pump station, which includes five 600 HP pumps, operating in a flow range of 7,000 to 31,000 gpm. The pumps collect sewage from a 72-inch influent pipe and discharge into a common header that joins a 48-inch force main. CHA performed several analyses of the existing conditions including hydraulic, mechanical, electrical, structural, and architectural to determine the various possibilities and implement the most practical and cost-effective solution.</p> </div> </div>		



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS PROJECT	14. YEARS EXPERIENCE	
<b>Alex Guon, PE</b>	<b>Sanitary Lift Stations</b>	a. TOTAL <b>33</b>	b. WITH CURRENT FIRM <b>18</b>
15. FIRM NAME AND LOCATION (City and State)			
 <b>CHA Consulting, Inc.</b> Doral, FL			
16. EDUCATION (Degree and Specialization)		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
University of Havana, Cuba, B.S., Electrical Engineering		Professional Engineer - FL	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	<b>North District WWTP (NDWWTP) Disinfection System (Chlorine Building)</b> Miami-Dade County, FL	PROFESSIONAL SERVICES <b>2022</b>	CONSTRUCTION (if applicable) <b>2022</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span>		
<p>           EOR for this project in which the scope of work consisted of the upgrading the electrical distribution power system in the chlorination building by replacing existing 1600 A, 480 V, three-phase switchgears, two 1200 A, 480 V, three-phase MCCs by new ARC flash types. As part of this design, VFDs were provided for two 350 HP motors. A new electrical room, doubling the size of the existing, was provided to install new Arc flash switchgears and MCCs which are larger than regular types. By implementing this solution, CHA avoided undesirable process interruptions and complied with the required clearances per NEC. As part of this design, new 2000A, 480V three-phase feeders were provided from the existing main plant electrical room to this building. The electrical upgrade included all communications between field instruments and local control panels with the new RTU. CHA also upgraded the existing fire alarm system. New HVAC was required in the new electrical room which will also now houses the Bristol Babcock RTU and new process controls for the building. The existing control panel functionality was integrated into the plant's SCADA system using the existing panels as a terminal box. The control functionality was staged transfer, train by train, to integrate the field inputs and outputs into the plant's SCADA system. These changes were the most significant to replace and upgrade the entire building's electrical distribution system and process control system. All proposed equipment replacement was completed without interrupting the existing operation systems.         </p>			
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	<b>South Dade WWTP</b> Miami-Dade County, FL	PROFESSIONAL SERVICES <b>2014</b>	CONSTRUCTION (if applicable) <b>2014</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span>		
<p>           EOR for the detailed electrical design to install four 2000KW, 4.16KV, three-phase generators as a cogeneration system interconnected with the two main electrical buildings. Also, a new low voltage electrical power distribution system for the ancillary equipment was provided. Communication with the new RTUs and upgrading the existing fire alarm system were part of our scope of work. The new process control functionality was integrated into the plant SCADA system. CHA also provided technical information for the permitting process relevant to the electrical discipline of the facilities mentioned above. Alex participated in several design workshops and assisted in value engineering.         </p>			
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	<b>SR 826/SR 836 Interchange Electrical Design</b> Miami, FL	PROFESSIONAL SERVICES <b>2016</b>	CONSTRUCTION (if applicable) <b>2016</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span>		
<p>           Electrical engineer for this project consisted of several levels of ramps providing proper connections between both expressways. This required a new lighting system for SR 826, from S.W. 4th Street to N.W. 22nd Street, and for SR-836, from N.W. 87th Avenue to N.W. 57th Avenue. Due to the construction of new on and off ramps, additional lighting was installed on impacted side streets, including Flagler Street and 87th Avenue. The new lighting system consisted of a combination of high-mast lighting and conventional lighting poles with mounting heights between 15 and 45 feet along both highways and more than 100 under-bridge-deck luminaries. The entire lighting system required 12 service points with an average of 200 amps each; and it was designed to comply with FDOT and MDX lighting design criteria. Special conditions and considerations were given to design the section of SR 826 in the vicinity of Miami International Airport (MIA) to comply with Federal Aviation Authority (FAA) regulations.         </p>			
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	<b>North District WWTP Headworks System Upgrades</b> Miami-Dade County, FL	PROFESSIONAL SERVICES <b>2020</b>	CONSTRUCTION (if applicable) <b>2020</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span>		
<p>           Electrical engineer for the development of the design drawings, specifications, and bid documents to implement the improvements of two headworks buildings at the NDWWTP, referred as the pre-treatment and sludge transfer (PST) building and the aerated grit/screening building. For the PST building, Alex coordinated the design of the new electrical room with the upgrades to the existing 480V switchgears and 350 HP sludge transfer pump VFDs.         </p>			



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS PROJECT	14. YEARS EXPERIENCE
<b>Jason Hignite</b>	<b>Environmental Services</b>	<div>a. TOTAL</div> <div>b. WITH CURRENT FIRM</div>
		29 <1

15. FIRM NAME AND LOCATION (City and State)



**CHA Consulting, Inc.**  
Coral Springs, FL

16. EDUCATION (Degree and Specialization)

Ball State University, IN, M.A., Natural Resources and Environmental Management  
Ball State University, IN, B.G.S., Liberal Arts

17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)

Certified Environmental Consultant, Indiana Department of Transportation/Federal Highway Administration

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

National Association of Environmental Professionals; American Association of Aviation Executives: Environmental Committee; Aviation Consultants Council: Environmental Committee; Florida Airports Council: Environmental Committee

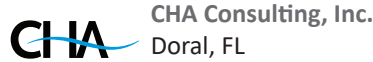
**19. RELEVANT PROJECTS**

a.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Florida Bonneted Bat Limited Roost Survey, 71st Street Pedestrian Bridge South Miami, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>
		Ongoing	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			
[X] Check if project performed with current firm			
Project manager who visually inspected tree canopies within the project area for the presence of roosting Florida bonneted bats.			
b.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Phase II Environmental Site Assessment, 71st Street Pedestrian Bridge South Miami, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>
		Ongoing	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			
[X] Check if project performed with current firm			
Project manager for the subsurface investigation for the presence of contaminants underlying the intersection of SW 71st Street and US-1 for the proposed pedestrian bridge project.			
c.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Wetland Determination, North County Utilities Extension St. Lucie County, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>
		2022	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			
[X] Check if project performed with current firm			
Project manager who inspected the area along the proposed waterline route adjacent to US-1 in northern St. Lucie County.			
d.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Wetland Determination, Sheridan Road Improvement Project Hollywood, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>
		2022	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			
[X] Check if project performed with current firm			
Project manager who inspected 2.7 miles of adjacent roadway corridor for the presence of wetland features for a proposed improvement project.			
e.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Treasure Coast International Airport and Business Park Airport (FPR) Sustainability Plan, Fort Pierce, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>
		2018	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			
[ ] Check if project performed with current firm			
Project manager for Facilitated Sustainability Plan as part of the Airport Master Plan. Sustainability objectives were integrated into the master plan goals for FPR. These objectives were derived from the long-term vision for the airport by airport staff, sponsor representatives, and community leaders. During the Public Participation Program, interest stakeholders and the general public reviewed and commented on the proposed objectives. Objectives covered environmental, financial, social, and operational factors.			

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS PROJECT	14. YEARS EXPERIENCE
<b>Erik Sibila, PE, CGC</b>	<b>Construction Management/CEI Lead</b>	<div>a. TOTAL</div> <div>16</div> <div>b. WITH CURRENT FIRM</div> <div>15</div>

15. FIRM NAME AND LOCATION (City and State)



16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
Florida International University, FL, M.S., Civil Engineering University of Miami, FL, B.S., Civil Engineering University of Miami, FL, B.S., Architectural Engineering	Professional Engineer - FL Certified General Contractor - FL

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

ACI Concrete Field Inspector; Concrete Specifications Asphalt Paving Level I & II; Earthwork Construction Inspection Level I & II; Final Estimates Level II; QC Manager; FDEP Storm Water Erosion; Control Inspector; Advanced MOT; IMSA Traffic Signal Inspector; FDOT Construction PA Academy; FDOT Maintenance; Rating Program; Critical Structures CBT

**19. RELEVANT PROJECTS**


	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
<b>a.</b>	<b>HDD of 20-inch HDPE Force Main Under NW 21st Street</b> Miami-Dade County, FL	2012	2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;">[X] Check if project performed with current firm</span> CEI senior project engineer to replace a ruptured pipeline designed to bypass a broken existing 20-inch DI force main serving the Miami International Airport (MIA). The construction was carried out on an emergency basis to avoid complications and possible airport downtime. The well-executed coordination of the emergency operation allowed construction within a week with no significant setbacks. Erik presented this project at the 2012 ASCE National Pipelines Conference.		
<b>b.</b>	<b>8-inch DI Water Main and Milling and Resurfacing along SW 64th Court (SW 8th Street to SW 6th Street)   Miami-Dade County, FL</b>	2020	2020
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;">[X] Check if project performed with current firm</span> CEI project manager/project administrator to review this project's roadway and drainage plans. The project included installing a steel pedestrian bridge over NW 199th Street, a steel pedestrian bridge over the Turnpike Connector Road, and two pre-cast concrete pedestrian tunnels under the stadium perimeter road to improve pedestrian access. Additional tasks included associated milling and resurfacing, earthwork, pre-cast concrete piles, pre-cast structural beams/structures, pre-cast tunnel units, retaining walls, gates, roadway modifications, sidewalks, drainage, utilities, landscaping, irrigation, lighting, pavement markings, stairs, railing, plumbing electrical, video surveillance for security, bollards. This project won Project of the Year at the 2021 CAACE Gala.		
<b>c.</b>	<b>Park-and-Ride Lot at SW 112th Avenue and SW 204th Street Busway</b> Miami-Dade County, FL	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;">[X] Check if project performed with current firm</span> CEI senior project engineer to rehabilitate the existing park-and-ride lot at SW 112 Avenue and SW 204 Street Busway to accommodate approximately 450 parking spaces. The work included furnishing all supervision, labor, materials, equipment, tools, services, and incidentals necessary for milling, resurfacing of the park-and-ride, minor pavement widening, construction of new sidewalks, upgrades to existing pedestrian ramps and crosswalks, replacement of damaged curbs, signing and pavement markings associated with the new configuration of the lot, parking bumpers, lighting upgrades, installation of passenger shelters, and sodding in compliance with the latest FDOT standards. Additionally, the scope included furnishing and installing five Level 2 electric vehicle (EV) charging stations, one single-port and four dual-port charging stations incorporating lighting conductors, a load center, pull-and-splice boxes, prestressed concrete poles, post signs, bollards, and detectable warnings installation.		
<b>d.</b>	<b>FDOT District 6, Districtwide Hybrid Construction Contract</b> Miami-Dade County, FL	2023	2023
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;">[X] Check if project performed with current firm</span> CEI project manager providing overall management of the inspection staff, resource and workforce planning, task work order (TWO) negotiation, tracking cost and time budgets, communication with the department, and overall client service for a variety of tasks involving milling and resurfacing, lighting upgrades, signalization, and signing and pavement marking construction projects throughout FDOT District 6.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME <b>Alejandro Leon, MSEM, PE</b>	13. ROLE IN THIS PROJECT <b>Transportation/Traffic Lead</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>16</b>	b. WITH CURRENT FIRM <b>11</b>
15. FIRM NAME AND LOCATION (City and State) <b>CHA Consulting, Inc.</b> <b>Doral, FL</b>			
16. EDUCATION (Degree and Specialization) Florida International University, FL, M.S., Engineering Management University of Florida, FL, B.S., Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer - FL	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State) <b>NW 87TH Avenue Interchange Improvements at SR-836</b> <b>Miami, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2020</b>	CONSTRUCTION (if applicable) <b>2020</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The SR-836/NW 87th Avenue Interchange reconstruction is the final piece necessary to complete the Section 5 Master Plan. The project will complete the system-to-system connections for the western portion of SR-836 connecting to SR-826 and provide the ultimate capacity improvements along the SR-836 mainline. In addition, the project will provide significant traffic operations and safety improvements for the interchange and the surrounding arterial network. The goal is to improve access from the arterial network onto the expressway relieving the arterial grid, the intersection of NW 87th Avenue and NW 12th Street. Being able to accomplish this will be a win-win for all by reducing commuter travel times on SR-836 and improving operations on NW 87th Avenue and NW 12th Street. Improving interchange operations is also a key factor, which includes providing ramp sequencing at the interchange, providing lane continuity and balance, and eliminating the weaving condition within the interchange.		
b.	(1) TITLE AND LOCATION (City and State) <b>Broward MPO - Mobility Project - Phase 1</b> <b>Broward County, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2017</b>	CONSTRUCTION (if applicable) <b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The Florida Department of Transportation (FDOT) and the Metropolitan Planning Organization (MPO) proposed improvements to transportation options for pedestrians and cyclists in Broward County. The intent of this project was to provide sidewalks, multi-use paths, and bicycle facilities in several locations throughout Broward County to provide enhanced connect the ability between existing transit along Broward Boulevard and the surrounding communities, with the goal that this project will encourage the use of transit in Broward County.		
c.	(1) TITLE AND LOCATION (City and State) <b>SR-A1A/South Ocean Drive from Miami-Dade/Broward County Line to Seacrest Parkway</b> <b>Miami, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2014</b>	CONSTRUCTION (if applicable) <b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This was a milling and resurfacing project, including the installation of video detection at signalized intersections, installation of a pedestrian signal countdown, signal upgrades from concrete poles to mast arms, signing and pavement markings, and ADA improvements which consisted of replacing damaged sidewalk and replacing noncompliant curb ramps where needed, and implementation of bicycle lanes, where possible. In addition, the City of Hallandale Beach Public Works Department entered into a Joint Participation Agreement (JPA) with the Department to install decorative pedestrian lighting and sidewalk.		
d.	(1) TITLE AND LOCATION (City and State) <b>SW 1ST Street Bridge Over Miami River, Bridge No. 870660</b> <b>Miami, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2012</b>	CONSTRUCTION (if applicable) <b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This project included the emergency maintenance of a Bascule Bridge in the Heart of Downtown Miami, FL, that is both over US Significant Waters and the US. Coast Guard recognized Navigable Waterway. Maintenance of Traffic plan included a clear plan to guide pedestrian and traffic to other roadways in phases where the bridge needed to be closed to perform necessary repairs.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS PROJECT	14. YEARS EXPERIENCE	
<b>Leann Wishah, EI</b>	<b>GIS Support</b>	a. TOTAL 2	b. WITH CURRENT FIRM 2
15. FIRM NAME AND LOCATION (City and State)			
 <b>CHA Consulting, Inc.</b> Winter Springs, FL			
16. EDUCATION (Degree and Specialization)		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
University of Florida, FL, B.S., Environmental Engineering		Engineering Intern - FL	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	<b>World Drive Extension, Phase III</b> Kissimmee, FL	PROFESSIONAL SERVICES 2021	CONSTRUCTION (if applicable) 2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project engineer assisting with relocating and upsizing 9,200 feet of 16- and 20-inch reclaimed water main, 9,000 feet of 16-inch potable water main, and 1,500 feet of 20-inch wastewater force main within county right-of-way. Tasks included preliminary engineering, final design, and permitting services for the project.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	<b>Toho Water Authority (Toho), Wastewater Master Plan Update</b> Kissimmee, FL	PROFESSIONAL SERVICES Est. 2023	CONSTRUCTION (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project engineer for this wastewater master plan update. Toho's last master plan was completed in 2012 using 2010-2011 data, and an update is required to incorporate changes since that time. Toho continues to experience growth and development throughout its utility service area, with an expected significant increase in wastewater customers over the next 5 to 10 years. Master planning will facilitate the timing and cost efficiency of future infrastructure improvements required to serve this growth. This wastewater master plan update will incorporate recently constructed infrastructure and use planning tools, including the updated hydraulic model, to update capital planning in a cost-efficient manner. The capital improvement plan portion will be completed for a 10-year planning horizon.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	<b>Wekiva Septic-to-Sewer Conversion</b> Seminole County, FL	PROFESSIONAL SERVICES 2021	CONSTRUCTION (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project engineer for developing a remediation plan in the first phase that included an inventory with more than 4,000 on-site sewage treatment and disposal systems (OSTDS) in the Wekiva Basin Management Action Plan (BMAP). The second phase consists of an inventory with more than 16,000 OSTDSs in the Lake Jesup and Middle St. Johns River BMAPs. Both areas assessed existing wastewater capacity and infrastructure (including potential infrastructure upgrade and expansion options) and evaluated cost-effective project solutions, financing alternatives and potential rate and homeowner impacts. A grant funds this entire project through FDEP.		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	<b>Utilities Commission of New Smyrna Beach, Lead and Copper Rule Program, New Smyrna Beach, FL</b>	PROFESSIONAL SERVICES 2022	CONSTRUCTION (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project engineer for deploying an asset inventory of the service lines within the utilities commission's potable distribution system. Leann's role in this project was to use current as-builts from the client, integrate them into ArcGIS, and use a data collection system (through Microsoft excel) to create an asset inventory assessment and review for the client's service line assets.		
e.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	<b>SSNOCWTA, Lift Station (LS) and Generator Improvements</b> Seminole County, FL	PROFESSIONAL SERVICES 2021	CONSTRUCTION (if applicable) 2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project engineer for the repair and rehabilitation of the LS-003, LS-004, LS-016, LS-017, and LS-022. This included the following services, which varied per LS: replacing discharge piping and valves, removing the valve vault and installing pipe above grade, adding site lighting, replacing all electrical panels, adding sump pump in flow meter vault, adding emergency generators, adding an automatic transfer switch, and modifying structural walls.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS PROJECT	14. YEARS EXPERIENCE
<b>Nicholas Schwartz, RLA, LEED AP</b>	<b>Landscape Architecture Support</b>	<div>a. TOTAL</div> <div>b. WITH CURRENT FIRM</div>
		30 27

15. FIRM NAME AND LOCATION (City and State)



CHA Consulting, Inc.  
Colonie, NY

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
SUNY College of Environmental Science and Forestry, NY, B.L.A., Landscape Architecture; State University of New York at Cobleskill, NY, A.A.S. in Landscape Development	Registered Landscape Architect - AL, CT, GA, IN, MA, ME, MS, NC, NJ, NY, RI; LEED AP

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

President - New York State Council of Landscape Architects; American Society of Landscape Architects; Council of Landscape Architects Registration Boards

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
a.	<b>Landscape and Site Improvements - Bird Island Campus</b> Buffalo Sewer Authority, Buffalo, NY	2022	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm  Project manager for the landscape and wayfinding signage project at the Bird Island Campus in Buffalo, NY. Led the development of new pedestrian plaza areas, including seating walls and accessible ramps and railings, traffic calming utilizing vegetation, foundation level plantings, sidewalk connections and a complete wayfinding signage plan and sign face development. The project is currently in the pre-bid phase of development.		
b.	<b>Delaware Avenue Hamlet Multi-Modal and Streetscape Enhancements  </b> Town of Bethlehem, NY	2019	2020
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm  Lead Landscape Architect for the improvements and enhancements to define the Delaware Avenue corridor as a multi-modal facility. Project includes improved pedestrian facilities and safety enhancements, new bus stop and bicycle facility enhancements, pavement resurfacing, drainage improvements, new curbing and sidewalks, new signage and lighting, traffic calming features, streetscaping and landscaping, and access improvements. Project included the evaluation and design of green infrastructure, including rain gardens and planter boxes, as well as gateway signage design and an artwall design.		
c.	<b>Hansen and Ryckman Flood Mitigation Planning Study</b> Albany Water Board, Albany, NY	2019	2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm  Lead Landscape Architect responsible for the overall design, grading and planting of the constructed stormwater wetland to abate the stormwater flows from Ryckman Alley. Responsible for the connection of the overflow connection to the combined sewer system as well as the inclusion of an automated level control system to allow the level to the stormwater wetland water depth to be adjusted during periods of dry weather to allow for maintenance and invasive species control.		
d.	<b>Quail Street Green Infrastructure Project</b> Albany Water Board, Albany, NY	2016	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm  Lead Landscape Architect responsible for the oversight of the landscape design as well as interaction with the civil engineers regarding the interface and design of the structural soil and the water storage gallery. The project incorporates the use of porous pavement, bioretention, and street trees and plantings to create a green corridor along Quail Street to manage stormwater. The project will reduce the volume of stormwater runoff into the City of Albany's combined sewers while improving pedestrian comfort and the overall aesthetic experience of the Quail Street neighborhood.		



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS PROJECT	14. YEARS EXPERIENCE
<b>David Hatton, AIA, NCARB</b>	<b>Architecture Support</b>	<div>a. TOTAL</div> <div>b. WITH CURRENT FIRM</div>
		<div>3</div> <div>3</div>

15. FIRM NAME AND LOCATION (City and State)



**CHA Consulting, Inc.**  
Colonie, NY

16. EDUCATION (Degree and Specialization)

University of Minnesota, MN, B.Arch.

17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)

Registered Architect - FL, GA, MD, MI, NC, NJ, NY, PA, VA  
National Council of Architectural Registration Boards

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

American Institute of Architects

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
a.	<b>Maine Maritime Academy, Curtis Hall Renovation</b> Castine, ME	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Principal-in-charge of the renovation of a 160,000 SF student residence hall built in three phases between 1969 and 1973 and houses 650 students in 315 rooms. The ground floor contains the Academy's bookstore, recreation facilities, and utility rooms, with the first floor supporting the Administrative Offices and student and health services. Floors two through four contain dorm rooms, student lounges, laundry facilities, and bathrooms.		
b.	<b>University of Maine School of Law, 300 Fore Street</b> Portland, ME	2023	2023
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Principal-in-charge of the renovation and fit out of a five-story, 63,841 SF office building. The Maine School of Law will temporarily use the space until a permanent location can be identified on their campus.		
c.	<b>University of Maine Farmington, Early Childhood Education Center</b> Farmington, ME	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Project executive for the design of a new Early Childhood Education Center, which nurtures the growth of the children, students, teachers and professors it serves by providing a safe environment from which curiosity, discovery and independence ripple outward. The project will transform a former 10,000 SF former banking call center into the university's new early childhood education center to better serve community families, university students, university faculty and the teachers and staff of the childcare center.		
d.	<b>New York Racing Association, Inc., Saratoga Racetrack Grandstand Refurbishment   Saratoga Springs, NY</b>	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Principal-in-charge of renovations to the concessions, signage, and wayfinding throughout key locations in the 350,000+ SF Grandstands and Clubhouse at Saratoga Racetrack. CHA prepared a Master Plan study and developed design concepts that will transform the tired amenities into high-performing sales locations with updated food service equipment packaged in a fresh design aesthetic giving the fans an enhanced race day experience.		
e.	<b>Fire Station #3</b> Saratoga Springs, NY	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Principal-in-charge of the design of a new fire station on a 2.36-acre parcel. The new facility will be approximately 15,000 SF and is subject to specific design standards due to its location within the City's Historic Zoning Overlay District. CHA has conducted programming meetings with stakeholders to verify facility space use requirements.		



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS PROJECT	14. YEARS EXPERIENCE	
<b>Dameion Donaldson, PE</b>	<b>Electrical Engineer</b>	a. TOTAL	b. WITH CURRENT FIRM
		18	12

15. FIRM NAME AND LOCATION (City and State)



**Electrical Design Associates, Inc. (EDA)**  
Boca Raton, FL

16. EDUCATION (Degree and Specialization)

Florida International University, B.S., Electrical Engineering

17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)

Professional Engineer - FL

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Florida Engineering Society, Illuminating Engineering Society

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
<b>a.</b>	<b>Westport WWTP Expansion</b> Port St. Lucie, FL	2019	2020
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span>  Electrical engineer to provide electrical and instrumentation design associated with the expansion of the City's Westport WWTF from 6 MGD to 12 MGD in capacity. Design includes replacement and upgrade of the site-wide PLC system and electrical and Instrumentation design associated with Injection Well #2.		
<b>b.</b>	<b>WTP Wells 10, 11, 12 &amp; 13 Upgrades</b> Tamarac, FL	2018	2020
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span>  Electrical engineer to provide design, permitting, bidding, and construction services associated with new wellhead equipment systems for Wells 10, 11, 12 and 13. The general scope and electrical design of these wellheads was the relocation of equipment out of the existing below-grade vaults to above-grade installations; electrical design associated with the demolition of the existing centralized electrical service and below-grade electrical equipment for each well; coordination and relocation of recently upgraded well site RTU's for Wells 10, 11, 12 and 13.		
<b>c.</b>	<b>System-Wide Wellfield Improvements</b> Palm Beach County, FL	Ongoing	TBD
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span>  Electrical engineer to provide electrical and instrumentation design for improvements to surficial aquifer production wells located at two of the County's water treatment plants (Nos. 2 & 8) throughout the Palm Beach County Water Utilities Department (PBCWUD) service area.		
<b>d.</b>	<b>Master Lift Station No. 309</b> Boynton Beach, FL	2015	2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span>  Electrical engineer to provide electrical engineering services for the referenced project. Our scope of work included electrical design associated with the electrical distribution system, station control system, conduits, lighting and wiring device replacement, removal/demolition of existing non-compliant electrical equipment, switches, wiring devices located within the classified spaces, coordination with FPL and HVAC design associated with the pump station.		
<b>e.</b>	<b>Largo WRF Influent Pumping and Headworks Improvements</b> Largo, FL	2015	2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span>  Electrical engineer for an evaluation and field verification for the existing electrical system at the City of Largo Water Reclamation Facility and an analysis of the necessary improvements to accommodate process improvements. Subsequently, EDA prepared a basis of design report as it related to the electrical system associated with the proposed Influent Pump Station, the demolition of the North and South Influent Pump Stations, the proposed Headworks facility and the demolition of the existing chemical building.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS PROJECT	14. YEARS EXPERIENCE	
<b>Shady Al-Zubi, PE</b>	<b>Instrumentation Engineer</b>	a. TOTAL	b. WITH CURRENT FIRM
		22	2

15. FIRM NAME AND LOCATION (City and State)



**Electrical Design Associates, Inc. (EDA)**  
Boca Raton, FL

16. EDUCATION (Degree and Specialization)

Oakland University, MI, Ph.D., Control Systems Engineering  
Oakland University, MI, M.Sc., Control Systems Engineering  
JUST, B.Sc., Communications Engineering

17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)

Professional Engineer - FL

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

International Society for Automation, Institute of Electrical and Electronics Engineers

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
<b>a.</b>	<b>Sunbridge WTP</b> Toho Water Authority/Tavistock, FL	2021	2022
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span>		
	Instrumentation engineer to provide electrical and instrumentation design for the referenced project. Developed P&IDs for the water treatment facility. Specification assembly and review for WTP.		
<b>b.</b>	<b>Bill Frederick Park Lift Station Upgrades</b> Orlando, FL	2022	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span>		
	Instrumentation engineer to provide electrical and instrumentation engineering services for the referenced project. There were six existing lift stations that needed to be upgraded. Each lift station design included a new control panel, SCADA panel, equipment rack and related electrical modifications in accordance with City Standards.		
<b>c.</b>	<b>Design/Build for the S331 C &amp; CC Communication System Upgrade</b> Miami-Dade County, FL	2021	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span>		
	Instrumentation engineer to provide communication system upgrades required at eight pump stations along the S331C&CC area. The Pump Stations included in this project for communication system upgrade are S331, S332B, S332C, S332D, S356, S357, S199 and S200. Electrical Design Associates, Inc. was contracted to provide electrical and instrumentation engineering services for the project, including the transition from the existing Telvent system to the newer factory talk system.		
<b>d.</b>	<b>Engineering Services for Sawmill Pond PS 073 Electrical and Instrumentation Improvements, Orange County, FL</b>	2021	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span>		
	Instrumentation engineer to provide electrical engineering services for the referenced project. Our scope of work included the following: Evaluated the existing electrical and instrumentation components to verify their condition and integrity and develop a single line diagram of the existing components; Evaluated remote terminal units (RTU) for potential replacement and identified SCADA implications; Identified and inventoried the primary electrical and instrumentation components and wiring in order to develop an existing conditions elementary control diagram for the Pump Control Panel.		
<b>e.</b>	<b>Reedy Creek HMI SCADA Replacement Evaluation Report</b> Reedy Creek, FL	2021	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span>		
	Instrumentation engineer to provide an HMI SCADA Replacement Evaluation Report for Reedy Creek. Recommendations included are as follows: Upgrade of current system to new 5.9 HTML5 compatible graphics under GE's new graphical engine; Migration of current iFix screens to WinCC with HTML5 compatibility; Migration of current iFix screens to Wonderware with HTML5 compatibility.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS PROJECT	14. YEARS EXPERIENCE
<b>John Doogan, PSM</b>	<b>Project Surveyor</b>	<div>a. TOTAL</div> <div>b. WITH CURRENT FIRM</div>
		46 24

15. FIRM NAME AND LOCATION (City and State)



**Avirom & Associates, Inc.**  
Boca Raton, FL

16. EDUCATION (Degree and Specialization)

Nassau Community College, NY, A.S.

17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)

Professional Surveyor and Mapper - FL

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
<b>a.</b>	<b>City of Lauderdale</b> Lauderhill, FL	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span>  Project surveyor responsible for preparing boundary, topographic and route-of-line surveys for projects throughout the City. Provided GPS surveys and prepared sketches and descriptions. Avirom maintains an ongoing contract with the City of Lauderdale for the past ten years.		
<b>b.</b>	<b>Brightline/Virgin Trains Project</b> Aventura/Boca Raton, FL	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span>  Project surveyor for boundary and route of line surveys for base map for engineering design for Brightline Trains, sketch and descriptions, and construction services as needed.		
<b>c.</b>	<b>Office Depot</b> Boca Raton, FL	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span>  Project surveyor for boundary and topographic survey; field as-built three canal cross-sections and certified drawing; survey for maintenance area; tree survey; topographic survey of the northeast corner of Military Trail and Yamato Road; boundary survey to ALTA/ACSM standards; topographic survey of two entrances; additional topographic services off-site to the east and off-site to the south.		
<b>d.</b>	<b>Lynn University</b> Boca Raton, FL	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span>  Project surveyor responsible for preparing the overall boundary, topographic and tree survey of the site, used as the base map for engineer's and architect's designs, planning and renovations at the campus. Avirom coordinated with the utility locating firms for the underground locations and provided on-site survey support for construction related projects.		
<b>e.</b>	<b>Fairway Commons</b> Boca Raton, FL	2020	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span>  Project surveyor for plat preparation; field stake wells MW-13, MW-14, MW-23, MW-24, MW-25, MW-29; sketch and descriptions of existing and proposed utility easements; update tree survey; field stake proposed traffic light poles; field locate exposed underground utilities; specific purpose survey of dedicated turn lane; ALTA/ACSM survey; construction related surveying services.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS PROJECT	14. YEARS EXPERIENCE
<b>James Andersen, PG</b>	<b>Hydrogeologist</b>	<div>a. TOTAL</div> <div>b. WITH CURRENT FIRM</div>
		<div>37</div> <div>6</div>

15. FIRM NAME AND LOCATION (City and State)



**Connect Consulting, Inc. (CCI)**  
Jupiter, FL

16. EDUCATION (Degree and Specialization)

Florida Atlantic University, FL, B.S., Geology

17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)

Professional Geologist - FL


18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Florida Section American Water Works Association (AWWA); Southeastern Desalting Association (SEDA); American Membrane Treatment Association (AMTA), Geological Society of America (GSA); International Association of Hydrogeologists (IAH)

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
a.	<b>Coral Springs Improvement District Well 9 Rehabilitation</b> Coral Springs, FL	2018	2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;">[X] Check if project performed with current firm</span> Project hydrogeologist for project to rehabilitate public water supply well 8 and restore lost capacity. Services included developing technical specifications, soliciting water well contractors, and the oversight of well rehabilitation. Methods included chemical and mechanical techniques to restore lost production. Specific capacity was increased from 12 to 30 gpm/ft allowing the well to safely produce the original design rate of 750 gpm.		
b.	<b>Coral Springs Improvement District Well 4R Redevelopment</b> Coral Springs, FL	2017	2017
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;">[X] Check if project performed with current firm</span> Project hydrogeologist for project to reduce or eliminate sand production from public water supply well 4R. Services included developing technical specifications, soliciting water well contractors, and the oversight of well rehabilitation. Methods included mechanical techniques to reduce or eliminate sand production. Sand production was reduced and specific capacity was increased allowing the well to safely produce the original design rate of 750 gpm.		
c.	<b>FPUA Well W-1 Abandonment and Replacement</b> Fort Pierce, FL	2017	2017
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;">[X] Check if project performed with current firm</span> Project hydrogeologist for project that replaced an existing well that had lost production and could not be rehabilitated. Services included water use permitting, conceptual well design, preparing technical specifications, soliciting water well contractors, service during construction, data collection and final reporting. Completed well was 12-inch diameter stainless steel with wire-wrapped screen set between 74 and 114 feet below land surface.		
d.	<b>Evaluation of Three Brackish Water RO Public Water Supply Wells</b> Highland Beach, FL	2018	2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;">[X] Check if project performed with current firm</span> Project hydrogeologist that reviewed the available construction and operational data, developed and implemented a data collection program, and evaluated the data to determine water quality trends, well production, and interference between wells. Recommended equipping each of the wells with pressure transducers and data loggers and conducting a series of operational tests to monitor water levels and interference under four different pumping scenarios.		
e.	<b>Rehabilitation of WTPs 3 and 9 Surficial Aquifer</b> Palm Beach County, FL	2016	2017
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;">[X] Check if project performed with current firm</span> Project hydrogeologist to provide hydrogeologic consulting services during design, bidding, and construction phases for this rehabilitation program of WTPs 3 and 9. Early design estimates provided an innovative cost matrix to accurately predict project budgets and stay within budget. Opinions of probable cost (OPCs) accurately predicted costs and the rehabilitation of well-restored lost capacity.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS PROJECT	14. YEARS EXPERIENCE	
<b>Ronald M. Jezerinac, PE</b>	<b>Structural</b>	a. TOTAL 30	b. WITH CURRENT FIRM 9
15. FIRM NAME AND LOCATION (City and State)			
 <b>Jezerinac Group, PLLC (Jezerinac)</b> West Palm Beach, FL			
16. EDUCATION (Degree and Specialization)		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
B.S., Civil Engineering		Registered Special Inspector - FL Professional Engineer - FL, IA, IL, KS, KY, MO, NC, NE, PA, SC, TX	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Publications: Engineering News Record, "Steel Connections - Engineers Should Lead the Way," May 2004 Awards: Building Design and Construction Magazine 2009's 40 Under 40			

19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	<b>Miami South District Waste Water Treatment Plant</b> Miami, FL	PROFESSIONAL SERVICES 2020	CONSTRUCTION (if applicable) 2020
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm Provided delegated engineering design for 476 linear feet of aluminum railing, two roof access ladders, and eight elevated digester tank access platforms for Miami Dade South District's Waste Water Treatment Plant's Effluent Pump Station Electrical Improvements project. The overall project intent is to provide improvements needed to keep the plant operational as the district completes programs associated with Florida's Ocean Outfall legislation and Consent Decree throughout the WASD system.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	<b>Jupiter WWTP Data Center and Training Facility</b> Jupiter, FL	PROFESSIONAL SERVICES Ongoing (Est. 2026)	CONSTRUCTION (if applicable) Ongoing (Est. 2026)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm The Town intends to construct a two-story, masonry building with approximately s +/-2,600 SF, which will serve as a hardened IT server location; a hardened sheltering location for staff required to work during storm events; a training room of adequate size meeting ADA requirements. The building shall be constructed southwest of the existing Water Plant Offices Building. Work shall consist of preparing drawings and specifications suitable to advertise for competitive bids, and submittal of permit applications to construct the building. The proposed building facility will be designed to withstand a minimum speed of 195 mph and include a training room capable of serving as a safe room during a catastrophic storm event which will have a design capable to withstand 200 mph winds. In addition, the design shall include a 100KW diesel generator or the adequate size to support the critical facility. Design of the generator facilities shall include an automatic transfer switch, fuel tank and a wind rated enclosure.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	<b>Margate WWTP Chlorine Building SCA</b> Margate, FL	PROFESSIONAL SERVICES 2022	CONSTRUCTION (if applicable) 2022
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm The project consists of structural condition assessment of the Chlorine Building at the Margate Water Treatment Plant facility prior to window and door installation to identify distress and provide recommendations for cracking observed. The SCA will include visual observations of representative exposed structural elements for which the assessment team is provided reasonable access and as the presence of finishes allows. A sufficient number of typical structure members will be examined to permit reasonable conclusions to be drawn, as determined by the personnel on site performing the assessment, based on the conditions observed. Observations and recommendations will be limited to those that are structural in nature. Material testing and destructive testing/removal of finishes are not included in this scope. Analysis with engineered solutions and repair details (if required) will be an additional phase not included in the base scope of this SCA other than pre-established areas requiring repair that are known prior to the time of proposal and specifically included within the project description.		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	<b>Tellus Products Manufacturing Facility</b> Belle Glade, FL	PROFESSIONAL SERVICES 2017	CONSTRUCTION (if applicable) 2017
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm Multi-building complex with over 130,000 square feet of office and production area. Support and coordination of tanks, piping, and other elements critical to the manufacturing process with the within pulping and molding buildings. Jezerinac Group also performed Special Inspections Services for the project.		
e.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	<b>Florida Power &amp; Light Hardened Building Design</b> Various Locations, FL	PROFESSIONAL SERVICES 2018	CONSTRUCTION (if applicable) 2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project consists of the design and construction of seven, 23,000 square feet, two-story office buildings and five modular shelter complexes throughout Florida that house FPL personnel responsible for maintaining and restoring the local community power and a distribution control center in West Palm Beach, FL. Also included is the structural hardening of the FLO that houses offices and additional critical control facilities. The new buildings and modular shelters were designed for extreme 226 mph wind speeds and the LFO was upgraded from roughly 140 mph to 186 mph.		



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS PROJECT	14. YEARS EXPERIENCE
<b>Richard Wohlfarth, PE, BN</b>	<b>Geotechnical Engineer</b>	<div>a. TOTAL</div> <div>b. WITH CURRENT FIRM</div>
		<div>35</div> <div>29</div>

15. FIRM NAME AND LOCATION (City and State)



**Nutting Engineers of Florida, Inc. (Nutting)**  
Boynton Beach, FL

16. EDUCATION (Degree and Specialization)

University of Florida, FL, B.S., Civil Engineering

17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)

Professional Engineer - FL  
Registered Building Inspector BN #3580  
SBCCI #6528  
ACI Level 1, UBCI, Lab Technical Services Manager (AASHTO)


18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Florida Engineering Society- Past Chapter President, National Society of Professional Engineers, Treasure Coast Builders Association, American Red Cross First Aid & CPR Certification

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
<b>a.</b>	<b>Various Projects</b> Lauderhill, FL	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Providing geotechnical engineering, construction material testing and/or special/threshold inspection services for various project including but not limited to: Lauderhill fire station #30, Veterans Park, St. George Park, Lauderhill fire station #20 new proposed fire tower, the 33,000 SF Performing Arts Center and adjacent 11,000 SF Library, the 40,000 Municipal Building, and design and construction of a new three-bay fire station #110.		
<b>b.</b>	<b>Various Projects</b> Coral Springs, FL	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Providing geotechnical engineering, construction materials testing and inspection services on many projects including multiple lift stations, NW 110th Avenue water main replacement, Sample Road waste and force main replacement, W. and E. booster station rehab, Forest Hill Boulevard sidewalk lighting, rehabilitation of Mullins water booster station, Westside municipal site, waste transfer station, multiple wellhead replacements, emergency water services interconnect upgrade.		
<b>c.</b>	<b>Various Projects</b> Miramar, FL	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Providing geotechnical engineering, construction materials testing and inspection services per a qualification based continuing service contract. Projects include the City of Miramar Overflow Parking Facility, Fire Station #107, Police Department, East Miramar fire hydrant and line improvements, Old City Hall site, Ansin Sports Complex, Miramar Multi-Service Center, numerous parks and infrastructure improvement projects.		
<b>d.</b>	<b>Various Projects</b> Hollywood, FL	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Lift stations, roadway improvements, drainage improvements, water main replacements, water treatment plants and building construction throughout Hollywood, including the Young Circle parking and traffic improvement project, Garfield Street Parking Garage, Charnow Park, Dowdy Field, Rotary Park Improvements, Raw Water Piping Floridan, Water Main Replacement Program, Hollywood WWTP.		
<b>e.</b>	<b>Qualification-Based Contract, Multiple Depts.</b> Broward County, FL	Ongoing since 1987	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> Providing geotechnical engineering, site and building pad preparation monitoring, construction materials testing, special/threshold inspection services. Projects under this contract include West Regional Library and Parking Garage, EDP Laboratory, Pembroke Park Fire Stations #17 and #27, multiple roadway improvements, Aviation Dept. (several new bldgs., new terminal building and apron, a 1.3M SF 7-story short-term parking structure, fuel line relocations, roadways etc.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT**  
(Complete one Section E for each key person.)

12. NAME  <b>Alexander Ciasca, PE</b>	13. ROLE IN THIS PROJECT  <b>Potable Water Storage Facility Inspection/Maintenance &amp; Specialty Coating Consultation</b>	14. YEARS EXPERIENCE	
		a. TOTAL  17	b. WITH CURRENT FIRM  7
15. FIRM NAME AND LOCATION (City and State)   <b>CROM, LLC (CROM, LLC)</b> West Palm Beach, FL			
16. EDUCATION (Degree and Specialization)  University of Florida, FL, B.S., Environmental Engineering		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)  Professional Engineer - FL, TX, LA, MS	

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Advanced skills developed in marketing, sales, and management of construction projects. Comprehensive understanding of the engineering design and construction details required in the prestressed concrete tank industry, as well as the coordination between government agencies, owners, engineers, and contractors to ensure the successful development of projects.

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
a.	<b>District 1B1 High Service Pump Stations and Ground Storage Tank - Tank Construction</b> Fort Lauderdale, FL	N/A	2021
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
Construction of (1) 1,500,000 Gallon Ground Storage Tank as a Subcontractor under RJ Sullivan Corp for Broward County Water and Wastewater Services			
b.	<b>District 3A High Services Pump Station and Ground Storage Tank - Tank Construction</b> Dania Beach, FL	N/A	2022
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		
Construction of (1) 2,500,000 Gallon Ground Storage Tank as a Subcontractor under RJ Sullivan Corp for Broward County Water and Wastewater Services			
c.	<b>District 2A- Ground Storage Tank - Tank Construction</b> Miramar, FL	N/A	2020
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		
Construction of (1) 5,000,000 Gallon Water Storage Tank as a Subcontractor under RF Environmental Services, Inc. for Broward County			
d.	<b>NRWWTP - Facility Improvements - Solids - BCWWS Project No. 100914 (9195) Concrete Repair Subcontractor</b> Pompano Beach, FL	N/A	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		
Concrete Repairs on Secondary Digester No. 1, Primary Digester No. 1, Primary Digester No. 2, Primary Digester No. 5, and Primary Digester No. 4 as a Subcontract under Southland Painting Corp for Broward County Board of County Commissioners.			

**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

**1**

21. TITLE AND LOCATION (City and State)

**Rehabilitation of Lift Stations 14A, 15C, 17B, 19C, and 20C**  
Coral Springs, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES

2021

CONSTRUCTION (if applicable)

2021

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

City of Coral Springs

b. POINT OF CONTACT NAME

Chad Maraj, PE, Public Works  
Engineering Division

c. POINT OF CONTACT TELEPHONE NUMBER

954.344.3463

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

CHA (Eckler Engineering) provided design, permitting, and engineering services during construction for the rehabilitation and conversion of five of the City of Coral Springs wet pit/dry pit suction lift stations. These lift stations were converted to submersible lift stations as well made additional civil site improvements specific to each station. The design phase proposed provision for a new deeper wet well, valve vault, electrical and control panels, and associated mechanical and civil improvements required to bring each of the lift stations up to the City's standard submersible lift station. Following design and permitting of the lift station rehabilitations, CHA provided engineering services during construction as the Owner's representative for contract administration with limited onsite field inspections, to review and observe construction progress from project mobilization through closeout.

**RELEVANCE TO SCOPE:**

- ✓ Lift Station
- ✓ Force Main
- ✓ Design
- ✓ Permitting
- ✓ Services during construction
- ✓ Owner's representative



**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

a.	(1) FIRM NAME CHA Consulting, Inc.	(2) FIRM LOCATION (City and State) Coral Springs, FL	(3) ROLE Prime
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE



**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

**2**

21. TITLE AND LOCATION (City and State)

**Lift Station 14A Forcemain Replacement**  
Coral Springs, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES

2022

CONSTRUCTION (if applicable)

2022

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

City of Coral Springs

b. POINT OF CONTACT NAME

Najla Zerrouki, PE

c. POINT OF CONTACT TELEPHONE NUMBER

954.345.2188

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

CHA (Eckler Engineering) provided design, permitting, and engineering services during construction for the abandonment and replacement of 2,200 linear feet of 6-inch force main along the pipeline route between Woodside Drive and Riverside Drive for the City of Coral Springs Utilities Department. This portion of the City's wastewater transmission was selected for replacement due to pipe age, forecasted flow velocities and system pressures, from CHA recommendations made within the Wastewater Transmission System Model Master Plan (2016). Following design and permitting of the forcemain replacement, CHA provided engineering services during construction as the Owner's representative for contract administration with limited onsite field inspections, to review and observe construction progress from project mobilization through closeout.

**RELEVANCE TO SCOPE:**

- ✓ Lift Station
- ✓ Force Main
- ✓ Design
- ✓ Permitting
- ✓ Services during construction



**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

a.	(1) FIRM NAME CHA Consulting, Inc.	(2) FIRM LOCATION (City and State) Coral Springs, FL	(3) ROLE Prime
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

**3**

21. TITLE AND LOCATION (City and State)

**Water Treatment Plant No. 2 Treatment and Disposal Improvements**  
Palm Beach County Water Utilities Department, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES

2021

CONSTRUCTION (if applicable)

Ongoing

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

Kimley-Horn and Associates

b. POINT OF CONTACT NAME

Ali Bayat, PE

c. POINT OF CONTACT TELEPHONE NUMBER

561.493.6000

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Design phase of the project encompasses providing services related to the Water Treatment Plant No. 2 Treatment and Disposal Improvements which include hydraulic modifications to the influent of lime softening treatment units, a new 15 MGD lime softening unit, demolition of the existing 3.5 MGD lime softening unit number 1, a new deep injection well, new stairway access to the control room, new bathrooms in the chlorine building and sanitary sewer connection, a new 5.0 MG ground storage tank, new tank mixers in the existing and new ground storage tank, a new raw water supply well 2W-2R and abandonment of the existing raw water supply well 2W-2, and site plan s for future phases of upgrades within the treatment plant. The goal is to upgrade the facility in several areas within the treatment process and about the treatment facility to sustain treatment quality and quantity through the next decade. CHA provided engineering services for design, permitting, and construction for portions of the project that are related to the lime softening units hydraulics, chemical systems, new treatment unit, and ancillary civil and mechanical systems.

**RELEVANCE TO SCOPE:**

- ✓ WTP facility
- ✓ Softening process improvements
- ✓ Lime sludge for softener



**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

a.	(1) FIRM NAME CHA Consulting, Inc.	(2) FIRM LOCATION (City and State) Coral Springs, FL	(3) ROLE Prime
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE



**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

4

21. TITLE AND LOCATION (City and State)

**Membrane Water Treatment Feasibility Study**  
Coral Springs, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES  
2022

CONSTRUCTION (if applicable)  
2022

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

City of Coral Springs

b. POINT OF CONTACT NAME

Chad Maraj, PE, Public Works  
Engineering Division

c. POINT OF CONTACT TELEPHONE NUMBER

954.344.3463

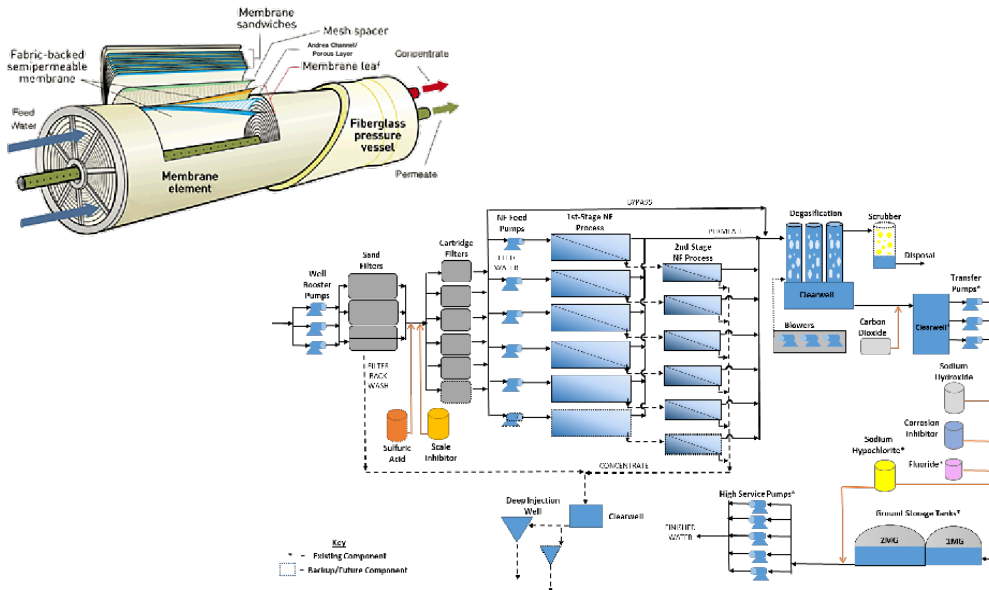
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

The City of Coral Springs expressed interest in modification of their existing conventional lime softening water treatment facilities to a membrane-based treatment process. A feasibility study was completed to evaluate the potential implementation of the membrane treatment and provide the required treatment process, raw water supply components, disposal, and equipment to construct a new membrane treatment facility. The study also included a cost comparison of the new membrane treatment facilities with the rehabilitation requirements of the 50+-year-old lime softening treatment plant. The study evaluated and assessed the existing wellfield and treatment plant to describe required rehabilitative actions to implement for maintaining the existing treatment operations, as well as provided a proposed membrane treatment process, Nanofiltration, based on the raw water quality. The study included discussions of emerging contaminants for water treatment, probable construction phasing and sequencing, a cost comparison, and recommendations for converting to a modern water treatment process.

CHA provided the engineering services required to complete the study and present the information and recommendations to the City of Coral Springs. The assembled team researched and evaluated various membrane treatment processes, evaluated the existing treatment facilities for rehabilitation, performed hydrogeological studies on the existing wells and wellfield, and provided final recommendations to the City's Engineering division for further review by the City's Public Works and City management.

**RELEVANCE TO SCOPE:**

- ✓ WTP improvements
- ✓ Membrane treatment



**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

a.	(1) FIRM NAME CHA Consulting, Inc.	(2) FIRM LOCATION (City and State) Coral Springs, FL	(3) ROLE Subconsultant
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

5

21. TITLE AND LOCATION (City and State)

**Water Treatment Plant Filtration System Upgrade (Bid Package "C")**  
Tamarac, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES

2023

CONSTRUCTION (if applicable)

Ongoing

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

City of Tamarac

b. POINT OF CONTACT NAME

Earl Henry, PE

c. POINT OF CONTACT TELEPHONE NUMBER

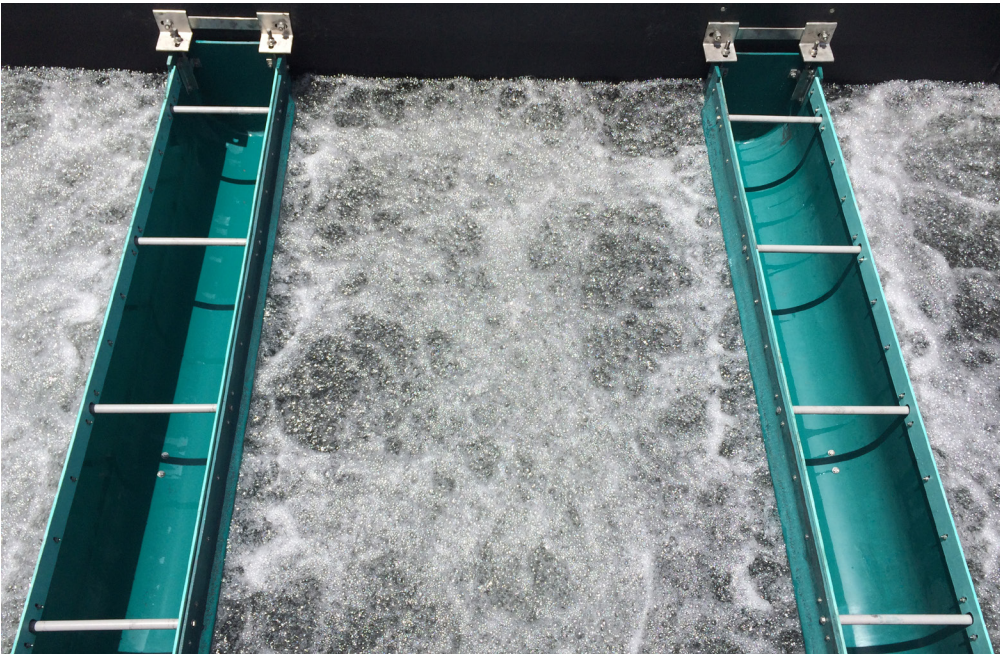
954.597.3758

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

The City's existing filtration system has been in service for approximately 40 years and is in need of replacement and upgrade. The existing package filtration system modules have difficulty with providing a backwash of the filter media that is needed to serve a lime softening process. The current backwash process does not achieve a full cleaning of the filtered lime particles and this allows for a shortened media life. To resolve this issue a new filtration system based on concurrent air/water backwashing was proposed. The project was designed for a filtration capacity of 10 MGD with one filter bay out of service. The design included the following improvements: new reinforced concrete filtration system structure to replace the existing steel package filters; 10 MGD of dual media (sand and anthracite) and filter underdrains; enclosed filter gallery with all process piping and support equipment; new backwash water pump station; yard piping and other required improvements.

**RELEVANCE TO SCOPE:**

- ✓ WTP facility
- ✓ Filtration system regeneration system
- ✓ Design
- ✓ Construction-phase services



**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

a.	(1) FIRM NAME CHA Consulting, Inc.	(2) FIRM LOCATION (City and State) Coral Springs, FL	(3) ROLE Prime
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

**6**

21. TITLE AND LOCATION (City and State)

**Water Treatment Plant Control Building (Process Improvements)**  
Tamarac, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES

Ongoing

CONSTRUCTION (if applicable)

Ongoing

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

City of Tamarac

b. POINT OF CONTACT NAME

Earl Henry, PE

c. POINT OF CONTACT TELEPHONE NUMBER

954.597.3758

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

CHA is providing preliminary design, final design, permitting and engineering services during construction for the decommissioning of process improvements to allow demolition and construction of new WTP Control/Administration Building. The project includes design of facility improvements to allow for the replacement of the facilities existing Control/Administration Building while maintaining all operations and capacity of the 20 MGD treatment facility.

Processes being addressed include:

- Relocation of Plant MCC's and electrical feeders/distribution
- Relocation and upgrade of plant wide SCADA System
- Relocation of fluoride storage/feed system
- Upgrade of sodium hypochlorite storage facility
- Relocation of plant site sanitary collection and pumping facility
- Miscellaneous yard piping relocations/modifications

Design and permitting have been completed. Anticipated project construction completion date is the last quarter of 2024.

**RELEVANCE TO SCOPE:**

- ✓ WTP facility
- ✓ Process improvements
- ✓ Facilities replacement



**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

a.	(1) FIRM NAME CHA Consulting, Inc.	(2) FIRM LOCATION (City and State) Coral Springs, FL	(3) ROLE Subconsultant
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE



**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

**7**

21. TITLE AND LOCATION (City and State)

**SCADA System Upgrade Main Water Treatment Plant (Main WTP)**  
Palm Springs, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES

2023

CONSTRUCTION (if applicable)

2023

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

Village of Palm Springs

b. POINT OF CONTACT NAME

Paul Ward

c. POINT OF CONTACT TELEPHONE NUMBER

561.584.8200 x8716

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Project was a complete SCADA system upgrade to replace and expand an existing SCADA system. The existing on-site SCADA system consisted of antiquated PLCs from the late 1990's that were no longer supported for both parts and hardware. The new SCADA system was a complete upgrade inclusive of: new plant wide fiber optic network; replacement PLCs and panel mounted computer HMI screens; new complete replacement PLC panels where needed; new SCADA servers, work stations and CTU/network interface; incorporation of off site I/O from offsite wells and sanitary pump stations; and incorporation of two offsite SCADA nodes and communication via VPN. All of the proposed work was designed for and completed while maintaining operation of all facilities and the existing SCADA system. Existing SCADA was cut over to new and decommissioned at the end of the installation.

**RELEVANCE TO SCOPE:**

- ✓ WTP facility
- ✓ SCADA system upgrade



**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

a.	(1) FIRM NAME CHA Consulting, Inc.	(2) FIRM LOCATION (City and State) Coral Springs, FL	(3) ROLE Subconsultant
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

**8**

21. TITLE AND LOCATION (City and State)

**Water Main and Force Main on Sample Road**  
Coral Springs, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES

2018

CONSTRUCTION (if applicable)

2018

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

City of Coral Springs

b. POINT OF CONTACT NAME

Chad Maraj, PE, Public Works  
Engineering Division

c. POINT OF CONTACT TELEPHONE NUMBER

954.344.3463

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

CHA was selected to provide design, permitting, and construction services required for this project. The project consists of the construction of approximately 1,500 feet of new 16-inch water main, 1,500 feet of 20-inch ductile iron pipe force main, and a right turn lane on Sample Road at NW 94th Avenue. An add alternate of 950 feet of 12-inch ductile iron pipe along Coral Hills Drive was also put in place. Extensive maintenance of traffic plans, collaboration with Broward County inspectors, and public relations were required to ensure the project was completed in an effective manner.

**RELEVANCE TO SCOPE:**

- ✓ Water main
- ✓ Force main
- ✓ MOT
- ✓ Public relations
- ✓ Design
- ✓ Permitting
- ✓ Construction-phase services



**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

a.	(1) FIRM NAME CHA Consulting, Inc.	(2) FIRM LOCATION (City and State) Coral Springs, FL	(3) ROLE Subconsultant
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE



**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

**9**

21. TITLE AND LOCATION (City and State)

**University Drive Water and Force Main Replacement**  
Coral Springs, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES

2020

CONSTRUCTION (if applicable)

2020

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

City of Coral Springs

b. POINT OF CONTACT NAME

Najla Zerrouki, PE

c. POINT OF CONTACT TELEPHONE NUMBER

954.345.2188

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

CHA is providing preliminary design, final design, permitting and engineering services during construction for the replacement/upgrade of the existing first-generation MIEX anion resin regeneration system to a new MIEX System G2 Phase R1 regeneration system.

The project includes the design of temporary resin regeneration systems to allow both facilities to remain online during upgrade construction. The anticipated project construction completion date is the first quarter of 2023.

**RELEVANCE TO SCOPE:**

- ✓ Water main
- ✓ Force main
- ✓ MOT
- ✓ Public relations
- ✓ Design
- ✓ Permitting
- ✓ Construction-phase services



**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

a.	(1) FIRM NAME CHA Consulting, Inc.	(2) FIRM LOCATION (City and State) Coral Springs, FL	(3) ROLE Prime
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

**10**

21. TITLE AND LOCATION (City and State)

**Surface Water Treatment Plant Improvements**  
Okeechobee, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES

2019

CONSTRUCTION (if applicable)

2021

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

Okeechobee Utility Authority

b. POINT OF CONTACT NAME

John Hayford, PE

c. POINT OF CONTACT TELEPHONE NUMBER

863.763.9460 x118

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

CHA provided design services for the Okeechobee Utility Authority's surface water treatment plant improvements. The improvements included the design of an addition of a 3.0 MG prestressed concrete ground storage tank, new high service pumps, new transfer pumps, new backwash pumps, the addition of a new gravity sludge thickener and improvements to the existing Actiflo system.

**RELEVANCE TO SCOPE:**

- ✓ WTP facility
- ✓ Gravity sludge thickener
- ✓ Concrete GST



**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

a.	(1) FIRM NAME CHA Consulting, Inc.	(2) FIRM LOCATION (City and State) Coral Springs, FL	(3) ROLE Prime
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

**G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS**

26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)									
		1	2	3	4	5	6	7	8	9	10
Douglas Hammann, PE	Project/Client Manager	X	X	X	X	X	X	X	X	X	X
J. Richard "Rich" Voorhees, PE, BCEE	Quality Manager										
C. Robert Reiss, PhD, PE	Water Treatment Process Lead										
Bryant Facey, PE	Water Treatment Process, Water Distribution/Transmission, Wastewater Treatment, Wastewater Transmission, Sanitary Lift Stations			X	X		X				X
Arnab Hanra, PE	Water Treatment Process										
Stefano Ceriana, PE, LEED AP	Water Distribution/Transmission, Wastewater Transmission										
Ahmet Tahaoglu, EI	Water Distribution/Transmission, Master Planning/Hydraulic Modeling/CIP Support			X	X		X				X
Arnelio Alfonso, PE	Wastewater Transmission Lead, Stormwater Lead										
Weston Haggen, PE, DBIA, ENV SP, PMP	Wastewater Transmission										
James Hagerty, PE	Wastewater Treatment Lead										
Scott Hoxworth, PE	Wastewater Treatment										
Edward Talton, PE	Master Planning/Hydraulic Modeling/CIP Support Lead										
Anglea Barón-Ruiz, PE, ENV SP	Stormwater										
Jason Hignite	Environmental Services Lead										
Julian Gomez, PE	Sanitary Lift Stations Lead										
Alex Guon, PE	Sanitary Lift Stations										
Erik Sabila, PE	Construction Mgmt./CEI Lead										
Alejandro Leon, PE	Transportation/Traffic Lead										
David Hatton, AIA, NCARB	Architecture Lead										
Nicholas Schwartz, RLA, LEED AP	Landscape Architecture Lead										
Leann Wishah, EI	GIS Support										
Dameion Donaldson, PE (EDA)	Electrical Engineering										
Shday Al-Zubi, PE (EDA)	Instrumentation										
John Doogan, PSM (Avirom)	Survey										
James Andersen, PG (CCI)	Hydrogeology			X	X						
Ronald Jezerinac, SE, PE (Jezerinac)	Structural										
Richard Wohlfarth, PE, BN (Nutting)	Geotechnical										X
Alex Ciasca, PE (CROM)	Potable Water Storage Facility Inspection/Maintenance & Specialty Coating Consultation										

**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

No.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	No.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Coral Springs Rehabilitation of Lift Stations 14A, 15C, 17B, 19C, and 20C	6	Tamarac Water Treatment Plant Control Building (Process Improvements)
2	Coral Springs Lift Station 14A Forcemain Replacement	7	Village of Palm Springs SCADA System Upgrade Main Water Treatment Plant (Main WTP)
3	Palm Beach County Water Utilities Department Water Treatment Plant #2 Treatment and Disposal Improvements	8	Coral Springs Water Main and Force Main on Sample Road
4	Palm Beach County Water Utilities Department Water Treatment Plant #2 Treatment and Disposal Improvements	9	Coral Springs University Drive Water and Force Main Replacement
5	Coral Springs Membrane Water Treatment Feasibility Study	10	Okeechobee Utility Authority Water Treatment Plant Improvements



## H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.



**Our water resources team is supported by more than 1,500 professionals, including engineers, scientists, architects, and project managers with a commitment to responsiveness, reliability and professionalism.**



Responsibly Improving  
the World We Live In



We have multi-disciplined resources readily available to mobilize and bring a collaborative and comprehensive approach to each project. From water supply professional engineering design to bidding and construction management services, we integrate environmentally responsible design, engineering and construction into our projects, providing solutions that last.

We look forward to the opportunity of further highlighting the needs of Pembroke Pines and our ability and experience in providing professional consulting services for projects that arise under this contract. If you have any questions or require additional information pertaining to this proposal submission, please do not hesitate to contact me at 954.510.4700 or [DHammann@chacompanies.com](mailto:DHammann@chacompanies.com).

## I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE

32. DATE

April 19, 2023

33. NAME AND TITLE

Douglas Hamann, PE, Project/Client Manager

# ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)  
RFQ No. 2023-010

## PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME <b>CHA Consulting, Inc.</b>			3. YEAR ESTABLISHED 2022	4. UNIQUE ENTITY IDENTIFIER 00-933-5857
2b. STREET 4700 Riverside Drive, Suite 110			<b>5. OWNERSHIP</b>	
2c. CITY Coral Springs			a. TYPE Corporation	
2d. STATE FL		2e. ZIP CODE 33067	b. SMALL BUSINESS STATUS No	
6a. POINT OF CONTACT NAME AND TITLE Douglas Hammann, PE, Project Manager			7. NAME OF FIRM (If block 2a is a branch office)	
6b. TELEPHONE NUMBER 954.510.4700		6c. E-MAIL ADDRESS DHammann@chacompanies.com		
8a. FORMER FIRM NAME(S) (If any)			8b. YR. ESTABLISHED	8c. DUNS NUMBER
Clarkeson Engineering Co., Inc., 1952 Clarkeson, Clough, Yokel, 1966 Clough Associates, 1971 Clough Harbour & Associates LLP, 1990			John Clarkeson, Consulting Eng., 1955 Clarkeson & Clough Associates, 1967 Clough, Harbour & Associates, 1981 CHA, Inc., 2008	

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees (1) FIRM (2) BRANCH		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
NA	Airport Engineer	22		A05	Airports; Navajds; Airport Lighting; Aircraft	6
06	Architect	27		A06	Airports; Terminals; & Hangers; Freight	6
12	Civil Engineer	108	4	C15	Construction Management	5
15	Construction Inspector	80		D02	Dams (Earth; Rock); Dikes; Levees	2
21	Electrical Engineer	135		E02	Educational Facilities; Classrooms	6
23	Environmental Engineer	9		E07	Energy Conservation; New Energy Sources	4
24	Environmental Scientist	36		E09	Environmental Impact Studies,	5
25	Fire Protection Engineer	13		F03	Fire Protection	9
27	Foundation/Geotechnical	7		H04	Heating, Ventilating, Air Conditioning	4
30	Geologist	6		H07	Highways; Streets; Airfield Paving; Parking	8
35	Industrial Engineer	2		I06	Irrigation; Drainage	4
38	Land Surveyor	24		L03	Landscape Architecture	4
39	Landscape Architect	14		L06	Lighting (Exteriors; Street; Memorials;	3
42	Mechanical Engineer	66		P06	Planning (Site, Installation and Project)	6
52	Sanitary Engineer	8		P12	Power Generation, Transmission,	6
54	Security Specialist	8		R06	Rehabilitation (Buildings; Structures;	6
57	Structural Engineer	79		S04	Sewage Collection, Treatment & Disposal	8
58	Technician/Analyst	96		S05	Soils & Geologic Studies; Foundations	3
60	Transportation Engineer	133		S07	Solid Wastes; Incineration; Landfill	4
62	Water Resource Engineer	56		S09	Structural Design; Special Structures	5
	Other Employees	573		S10	Surveying; Platting; Mapping; Flood Plain	5
<b>Total</b>		<b>1,502</b>	<b>4</b>	<b>W03</b>	<b>Water Supply; Treatment and Distribution</b>	<b>8</b>

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER	
a. Federal Work	6	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	10	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million
		5. \$1 million to less than \$2 million	10. \$50 million or greater

## 12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE April 19, 2023
c. NAME AND TITLE Douglas Hammann, PE, Project Manager	

AUTHORIZED FOR LOCAL REPRODUCTION

STANDARD FORM 330 (REV. 7/2021) PAGE 6



**ARCHITECT – ENGINEER QUALIFICATIONS**

1. SOLICITATION NUMBER (If any)

RFQ No. 2023-010

**PART II – GENERAL QUALIFICATIONS**

(If a firm has branch offices, complete for each specific branch office seeking work.)


2a. FIRM (OR BRANCH OFFICE) NAME <b>CHA Consulting, Inc.</b>			3. YEAR ESTABLISHED 2021	4. UNIQUE ENTITY IDENTIFIER
2b. STREET 1016 Spring Villas Point			5. OWNERSHIP	
2c. CITY Winter Springs			a. TYPE Corporation	
2d. STATE FL		2e. ZIP CODE 32708	b. SMALL BUSINESS STATUS No	
6a. POINT OF CONTACT NAME AND TITLE <b>C. Robert Reiss, PhD, PE - Vice President/Florida Team Leader</b>			7. NAME OF FIRM (If block 2a is a branch office)	
6b. TELEPHONE NUMBER <b>407.789.0403</b>		6c. E-MAIL ADDRESS <b>CReiss@chacompanies.com</b>		
8a. FORMER FIRM NAME(S) (If any)			8b. YR. ESTABLISHED	8c. DUNS NUMBER
Clarkeson Engineering Co., Inc., 1952 Clarkeson, Clough, Yokel, 1966 Clough Associates, 1971 Clough Harbour & Associates LLP, 1990			John Clarkeson, Consulting Eng., 1955 Clarkeson & Clough Associates, 1967 Clough, Harbour & Associates, 1981 CHA, Inc., 2008	

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees (1) FIRM (2) BRANCH		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
NA	Airport Engineers	22		A05	Airports; Navajds; Airport Lighting; Aircraft	6
06	Architects	27		A06	Airports; Terminals; & Hangers; Freight	6
12	Civil Engineers	108		C15	Construction Management	5
15	Construction Inspector	80	1	D02	Dams (Earth; Rock); Dikes; Levees	2
21	Electrical Engineers	135	2	E02	Educational Facilities; Classrooms	6
23	Environmental Engineer	9		E07	Energy Conservation; New Energy Sources	4
24	Environmental Scientist	36		E09	Environmental Impact Studies,	5
25	Fire Protection Engineer	13		F03	Fire Protection	9
27	Foundation/Geotechnical	7		H04	Heating, Ventilating, Air Conditioning	4
30	Geologist	6		H07	Highways; Streets; Airfield Paving; Parking	8
35	Industrial Engineers	2		I06	Irrigation; Drainage	4
38	Land Surveyor	24		L03	Landscape Architecture	4
39	Landscape Architects	14		L06	Lighting (Exteriors; Street; Memorials;	3
42	Mechanical Engineers	66		P06	Planning (Site, Installation and Project)	6
52	Sanitary Engineers	8	4	P12	Power Generation, Transmission,	6
54	Security Specialists	8		R06	Rehabilitation (Buildings; Structures;	6
57	Structural Engineers	79		S04	Sewage Collection, Treatment & Disposal	8
58	Technician/Analyst	96		S05	Soils & Geologic Studies; Foundations	3
60	Transportation Engineers	133		S07	Solid Wastes; Incineration; Landfill	4
62	Water Resource Engineer	56	11	S09	Structural Design; Special Structures	5
	Other Employees	514	14	S10	Surveying; Platting; Mapping; Flood Plain	5
Total		1443	32	W03	Water Supply; Treatment and Distribution	8

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER	
a. Federal Work	6	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	10	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million
		5. \$1 million to less than \$2 million	10. \$50 million or greater

**12. AUTHORIZED REPRESENTATIVE**

The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE April 19, 2023
c. NAME AND TITLE <b>C. Robert Reiss, PhD, PE - Vice President/Florida Team Leader</b>	

AUTHORIZED FOR LOCAL REPRODUCTION

STANDARD FORM 330 (REV. 7/2021) PAGE 6

# ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)  
RFQ No. 2023-010

## PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME <b>CHA Consulting, Inc.</b>			3. YEAR ESTABLISHED <b>2021</b>	4. UNIQUE ENTITY IDENTIFIER
2b. STREET <b>927 New Haven Avenue, Suite 206</b>			<b>5. OWNERSHIP</b>	
2c. CITY <b>Melbourne</b>			2d. STATE <b>FL</b>	2e. ZIP CODE <b>32901</b>
2f. TYPE <b>Corporation</b>			b. SMALL BUSINESS STATUS <b>No</b>	
6a. POINT OF CONTACT NAME AND TITLE <b>C. Robert Reiss, PhD, PE – Vice President/Florida Team Leader</b>			7. NAME OF FIRM (If block 2a is a branch office)	
6b. TELEPHONE NUMBER <b>407.789.0403</b>			6c. E-MAIL ADDRESS <b>CREISS@chacompanies.com</b>	
8a. FORMER FIRM NAME(S) (If any)			8b. YR. ESTABLISHED	8c. DUNS NUMBER
Clarkson Engineering Co., Inc., 1952 Clarkson, Clough, Yokel, 1966 Clough Associates, 1971 Clough Harbour & Associates LLP, 1990			John Clarkson, Consulting Eng., 1955 Clarkson & Clough Associates, 1967 Clough, Harbour & Associates, 1981 CHA, Inc., 2008	

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees (1) FIRM (2) BRANCH		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
NA	Airport Engineers	22		A05	Airports; Navais; Airport Lighting; Aircraft	6
06	Architects	27		A06	Airports; Terminals; & Hangers; Freight	6
12	Civil Engineers	108	1	C15	Construction Management	5
15	Construction Inspector	80		D02	Dams (Earth; Rock); Dikes; Levees	2
21	Electrical Engineers	135		E02	Educational Facilities; Classrooms	6
23	Environmental Engineer	9	1	E07	Energy Conservation; New Energy Sources	4
24	Environmental Scientist	36		E09	Environmental Impact Studies,	5
25	Fire Protection Engineer	13		F03	Fire Protection	9
27	Foundation/Geotechnical	7		H04	Heating, Ventilating, Air Conditioning	4
30	Geologist	6		H07	Highways; Streets; Airfield Paving; Parking	8
35	Industrial Engineers	2		I06	Irrigation; Drainage	4
38	Land Surveyor	24		L03	Landscape Architecture	4
39	Landscape Architects	14		L06	Lighting (Exteriors; Street; Memorials;	3
42	Mechanical Engineers	66	1	P06	Planning (Site, Installation and Project)	6
52	Sanitary Engineers	8		P12	Power Generation, Transmission,	6
54	Security Specialists	8		R06	Rehabilitation (Buildings; Structures;	6
57	Structural Engineers	79		S04	Sewage Collection, Treatment & Disposal	8
58	Technician/Analyst	96		S05	Soils & Geologic Studies; Foundations	3
60	Transportation Engineers	133		S07	Solid Wastes; Incineration; Landfill	4
62	Water Resource Engineer	56		S09	Structural Design; Special Structures	5
	Other Employees	514	1	S10	Surveying; Platting; Mapping; Flood Plain	5
<b>Total</b>		<b>1443</b>	<b>4</b>	<b>W03</b>	<b>Water Supply; Treatment and Distribution</b>	<b>8</b>

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER	
a. Federal Work	6	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	10	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million
		5. \$1 million to less than \$2 million	10. \$50 million or greater

## 12. AUTHORIZED REPRESENTATIVE

a. SIGNATURE 	b. DATE <b>April 19, 2023</b>
c. NAME AND TITLE <b>C. Robert Reiss, PhD, PE – Vice President/Florida Team Leader</b>	


1. SOLICITATION NUMBER (If any)  
RFQ No. 2023-010

*(If a firm has branch offices, complete for each specific branch office seeking work.)*

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index number <i>(see below)</i>
		(1) FIRM	(2) BRANCH			
08	CADD Technician	3	1	C11	Community Facilities	1
21	Electrical Engineer	3	2	H07	Highways; Streets; Airfield Paving; etc.	2
16	Field Supervisor	1	0	W03	Water Supply, Trmt & Distribution	3
58	Technician/Analyst	7	1	L06	Lighting (Exteriors; Streets; Memorials)	2
02	Administrative	1	2	P12	Power Generation, Transmission, Dist.	3
Total		15	6			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER	
a. Federal Work	0	1. Less than \$100,000.	6. \$2 million to less than \$5 million
b. Non-Federal Work	5	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total	5	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million
		5. \$1 million to less than \$2 million	10. \$50 million or greater

The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE April 19, 2023
c. NAME AND TITLE Dameion Donaldson, P.E., President	

1. SOLICITATION NUMBER (If any)  
RFQ No. 2023-010

*(If a firm has branch offices, complete for each specific branch office seeking work.)*

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index number <i>(see below)</i>
		(1) FIRM	(2) BRANCH			
02	Administrative	5	0	A06	Airports; terminals; hangars	1
08	CAD Technician	7	2	C10	Comm buildings; shopping ctrs	3
38	Land Surveyor	6	0	C12	Communication systems; tv	1
	Field Technician	19	4	C16	Construction surveying	5
	Project Manager	1	1	E02	Educational facs; classroom	3
				E09	Environmental impact studies	2
				H01	Harbors; ship terminal facilities	2
				H07	Highways; streets; parking lots	2
				H09	Hospitals and medical facilities	2
				H11	Housing; res; multi-family	2
				L02	Land Surveying	8
				O01	Office buildings; ind parks	3
				P04	Pipelines	2
				P12	Power generation; trans; dist	5
				R11	Rivers; canals; waterways	3
				S10	Surveying; platting; mapping	5
				R04	Rec facilities; parks; marinas	1
	Total	45	11			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER	
a. Federal Work	1	1. Less than \$100,000.	6. \$2 million to less than \$5 million
b. Non-Federal Work	7	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total	7	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million
		5. \$1 million to less than \$2 million	10. \$50 million or greater

The foregoing is a statement of facts.

STANDARD FORM 330 (REV. 8/2016) PAGE 84





# ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

RFQ No. 2023-010

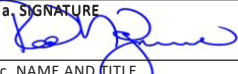
## PART II - GENERAL QUALIFICATIONS (If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME Jezerinac Group, PLLC			3. YEAR ESTABLISHED 2014	4. UNIQUE ENTITY IDENTIFIER 079381564
2b. STREET 480 Hibiscus Street, Suite 107			5. OWNERSHIP	
2c. CITY West Palm Beach, FL	2d. STATE FL	2e. ZIP CODE 33401	a. TYPE Professional Limited Liability Company (pllc)	
6a. POINT OF CONTACT NAME AND TITLE Ronald M. Jezerinac, President			b. SMALL BUSINESS STATUS S41330	
6b. TELEPHONE NUMBER 561.622.8585			7. NAME OF FIRM (If block 2a is a branch office)	
6c. E-MAIL ADDRESS RJezerinac@JezerinacGroup.com				

8a. FORMER FIRM NAME(S) (If any)	8b. YEAR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. Number of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	2		A06	Airports; Terminals and Hangars	1
57	Structural Engineer	17		A11	Auditoriums & Theaters	1
				C06	Churches; Chapels	1
				C10	Commercial Buildings; Shopping Centers	1
				C11	Community Facilities	1
				D07	Dining Halls; Clubs; Restaurants	1
				E02	Educational Facilities; Classrooms	1
				F02	Field Houses; Gyms; Stadiums	2
				G01	Garages; Vehicle Maintenance Facilities; Parking Decks	1
				H01	Harbors; Jetties; Piers. Ship Terminal	1
				H09	Hospital & Medical Facilities	1
				H10	Hotels; Motels	2
				H11	Housing	2
				I01	Industrial	2
				L04	Libraries; Museums; Galleries	1
				O01	Office Buildings; Industrial Parks	2
				P08	Prisons & Correctional Facilities	1
				P13	Public Safety Facilities	1
				W01	Warehouses & Depots	1
	Other Employees					
	Total	19				

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER	
a. Federal Work	1	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	5	2. \$100,00 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	5	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million
		5. \$1 million to less than \$2 million	10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.	
a. SIGNATURE 	b. DATE April 19, 2023
c. NAME AND TITLE Ronald M. Jezerinac, President	



1. SOLICITATION NUMBER <i>(If any)</i>	RFQ No. 2023-010
--	------------------

*(If a firm has branch offices, complete for each specific branch office seeking work.)*

2a. FIRM (or Branch Office) NAME CROM LLC			3. YEAR ESTABLISHED 2014	4. UNIQUE ENTITY IDENTIFIER
2b. STREET 250 SW 36th Terrace			5. OWNERSHIP	
2c. CITY Gainesville	2d. STATE FL	2e. ZIP CODE 32607	a. TYPE LLC	
6a. POINT OF CONTACT NAME AND TITLE Alexander Ciasca, Vice President and Business Development Manager			b. SMALL BUSINESS STATUS N/A	
6b. TELEPHONE NUMBER (352) 372-3436			6c. EMAIL ADDRESS aciasca@cromcorp.com	
			7. NAME OF FIRM (If Block 2a is a Branch Office)	

8a. FORMER FIRM NAME(S) <i>(If any)</i>	8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER
The CROM Corporation	1953	

[illegible]

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS <i>(Insert revenue index number shown at right)</i>		PROFESSIONAL SERVICES REVENUE INDEX NUMBER	
a. Federal Work	1	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	10	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million
		5. \$1 million to less than \$2 million	10. \$50 million or greater

*The foregoing is a statement of facts.*

a. SIGNATURE <i>John Bongiovanni</i>	b. DATE April 19, 2023
c. NAME AND TITLE John Bongiovanni/Bid-Coordinator	

Tab 13:  
Scrutinized  
Companies Certificate

Tab 13

# 13. SCRUTINIZED COMPANIES CERTIFICATE

## Scrutinized Company Certification

I hereby swear or affirm that as of the date below this company is not listed on a Scrutinized Companies list created pursuant to 215.4725, 215.473, or 287.135, Florida Statutes. Pursuant to 287.135, Florida Statutes I further affirm that:

- (1) This company is not participating in a boycott of Israel such that it is not refusing to deal, terminating business activities, or taking other actions to limit commercial relations with Israel, or persons or entities doing business in Israel or in Israeli-controlled territories, in a discriminatory manner.
- (2) This Company does not appear on the Scrutinized Companies with Activities in Sudan List where the State Board of Administration has established the following criteria:
  - Have a material business relationship with the government of Sudan or a government-created project involving oil related, mineral extraction, or power generation activities, or
  - Have a material business relationship involving the supply of military equipment, or
  - Impart minimal benefit to disadvantaged citizens that are typically located in the geographic periphery of Sudan, or
  - Have been complicit in the genocidal campaign in Darfur.
- (3) This Company does not appear on the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List where the State Board of Administration has established the following criteria:
  - Have a material business relationship with the government of Iran or a government-created project involving oil related or mineral extraction activities, or
  - Have made material investments with the effect of significantly enhancing Iran's petroleum sector.
- (4) This Company is not engaged in business operations in Cuba or Syria.

VENDOR/COMPANY NAME: CHA Consulting, Inc.

SIGNATURE: 

PRINTED NAME: Michael A. Platt

TITLE: General Counsel and Executive Vice President

DATE: April 13, 2022

The scrutinized company list is maintained by the State Board of Administration and available at <http://www.sbafla.com/>



Tab 14:  
Non-Collusive  
Affidavit

# 14. NON-COLLUSIVE AFFIDAVIT

## NON-COLLUSIVE AFFIDAVIT FORM

State of New York )

County of Albany )

Michael A. Platt being first duly sworn, deposes  
and says that:

☒ He/she is the General Counsel and Executive Vice President (Officer), (Owner, Partner, Officer, Representative or Agent) of CHA Consulting, Inc., the Offeror that has submitted the attached Proposal;

☒ He/she is fully informed regarding the preparation and contents of the attached Proposal and of all pertinent circumstances regarding such Proposal;

Such Proposal is genuine and is not a collusive or sham Proposal;

Neither the said Offeror nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, have in any way colluded, conspired, connived or agreed, directly or indirectly, with any other Offeror, firm, or person to submit a collusive or sham Proposal in connection with the Work for which the attached Proposal has been submitted; or to refrain from bidding in connection with such Work; or have in any manner, directly or indirectly, sought by agreement or collusion, or communication, or conference with any Offeror, firm, or person to fix the price or prices in the attached Proposal or of any other Offeror, or to fix any overhead, profit, or cost elements of the Proposal price or the Proposal price of any other Offeror, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against (Recipient), or any person interested in the proposed Work;

The price or prices quoted in the attached Proposal are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the Offeror or any other of its agents, representatives, owners, employees or parties in interest, including this affiant.

Signed, sealed, and delivered in the presence of:

Witness

Witness

By

Michael A. Platt

Printed Name

General Counsel and Executive Vice President  
Title

**ACKNOWLEDGMENT**  
**NON-COLLUSIVE AFFIDAVIT FOR CITY 2023-010**

State of ~~Florida~~ New York  
County of Albany

On this the 13<sup>th</sup> day of April, 20 23, before me by means of x physical presence  
or    online notarization, the undersigned Notary Public of the State of ~~Florida~~, personally  
appeared New York

Michael A. Platt

(Name(s) of individual(s) who appeared before notary)

whose name(s) is/are Subscribed to within the instrument, and he/she/they acknowledge that  
he/she/they executed it.

WITNESS my hand  
and official seal.

NOTARY PUBLIC  
SEAL OF OFFICE:

  
\_\_\_\_\_  
NOTARY PUBLIC, STATE OF ~~FLORIDA~~  
NEW YORK

NIKKI C. DAMES  
NOTARY PUBLIC-STATE OF NEW YORK  
No. 02DA6253381  
Qualified in Schenectady County  
My Commission Expires 12-27-2023

\_\_\_\_\_  
(Name of Notary Public: Print, Stamp, or  
Type as Commissioned)

- ☒ Personally known to me, or  
☐ Produced identification:

\_\_\_\_\_  
(Type of Identification Produced)

☐ DID take an oath, or ☒ DID NOT take an oath

Tab 15:  
Drug-Free Workplace  
Program Form

# 15. DRUG-FREE WORKPLACE PROGRAM FORM


## DRUG-FREE WORKPLACE PROGRAM FORM

In accordance with Section 287.087, State of Florida Statutes, preference shall be given to businesses with Drug-free Workplace Programs. Whenever two or more bids which are equal with respect to price, quality, and service are received for the procurement of commodities or contractual service, a bid received from a business that certifies that it has implemented a Drug-free Workplace Program shall be given preference in the award process. In the event that none of the tied vendors have a Drug-free Workplace program in effect, the CITY reserves the right to make final Decisions in the CITY's best interest. In order to have a Drug-free Workplace Program, a business shall:

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (1).
4. In the statement specified in subsection (1), notify employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893, Florida Statutes, or of any controlled substance law of the United States of any State, for a violation occurring in the workplace no later than five (5) days after such conviction.
5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community by any employee who is convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation.

If bidder's company has a Drug-free Workplace Program, so certify below:

**AS THE PERSON AUTHORIZED TO SIGN THE STATEMENT, I CERTIFY THAT THIS FIRM COMPLIES FULLY WITH THE ABOVE REQUIREMENTS.**

SIGNATURE OF BIDDER:  DATE: 4/13/2023  
Michael A. Platt



Tab 16:  
Byrd Anti-Lobbying  
Certification

# 16. BYRD ANTI-LOBBYING CERTIFICATION

## BYRD ANTI LOBBYING CERTIFICATION FOR CONTRACTS, GRANTS, LOANS, AND COOPERATIVE AGREEMENTS

**To be submitted with each bid or offer exceeding \$100,000**

The undersigned certifies, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor, CHA Consulting, Inc., certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. §3801 *et seq.* apply to this certification and disclosure, if any.



Signature of Contractor's Authorized Official

Michael A. Platt, General Counsel and Executive Vice President

Name and Title of Contractor's Authorized Official

Date 4/13/23

Tab 17:  
Statement of  
Compliance

# 17. STATEMENT OF COMPLIANCE

## STATEMENT OF COMPLIANCE - SMALL AND MINORITY BUSINESSES, WOMEN'S BUSINESS ENTERPRISES, AND LABOR SURPLUS AREA FIRMS

The undersigned Contractor hereby swears under penalty of perjury that Contractor took the following affirmative steps to assure that minority businesses, women's business enterprises, and labor surplus area firms were used when possible:

- (1) Placing qualified small and minority businesses and women's business enterprises on solicitation lists;
- (2) Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;
- (3) Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;
- (4) Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises; and
- (5) Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.

Dated 4/13, 20 23 CHA Consulting, Inc.

By [Signature] Contractor  
(Signature)

By Michael A. Platt, General Counsel and Executive Vice President

STATE OF New York )  
 ) SS.  
COUNTY OF Albany )

The foregoing instrument was acknowledged before me by means of X physical presence or online notarization this 13 day of March, 2023 by Michael A. Platt who is personally known to me or who has produced as identification and who did/did not take an oath. WITNESS my hand and official seal, this day of March, 2023.

(NOTARY SEAL)

[Signature]  
(Signature of person taking acknowledgment)

Nikki C. Dames  
(Print Name of Officer taking acknowledgment)

Notary Public  
(Title or rank)

NIKKI C. DAMES  
NOTARY PUBLIC-STATE OF NEW YORK  
No. 02DA6253381  
Qualified in Schenectady County  
My Commission Expires 12-27-2023

My Commission expires: Dec. 27, 2023  
(Serial number, if any)

RFQ NO. 2023-010

36

**Electronic Code of Federal Regulations**  
**e-CFR data is current as of January 26, 2023**

Title 2 → Subtitle A → Chapter II → Part 200 → Subpart D → Subject Group

Title 2: Grants and Agreements

PART 200—UNIFORM ADMINISTRATIVE REQUIREMENTS, COST PRINCIPLES, AND AUDIT REQUIREMENTS FOR FEDERAL AWARDS

Subpart D—Post Federal Award Requirements

**§ 200.317 Procurements by states.**

When procuring property and services under a Federal award, a State must follow the same policies and procedures it uses for procurements from its non-Federal funds. The State will comply with §§ 200.321, 200.322, and 200.323 and ensure that every purchase order or other contract includes any clauses required by § 200.327. All other non-Federal entities, including subrecipients of a State, must follow the procurement standards in §§ 200.318 through 200.327.

**§ 200.318 General procurement standards.**

(a) The non-Federal entity must have and use documented procurement procedures, consistent with State, local, and tribal laws and regulations and the standards of this section, for the acquisition of property or services required under a Federal award or subaward. The non-Federal entity's documented procurement procedures must conform to the procurement standards identified in §§ 200.317 through 200.327.

(b) Non-Federal entities must maintain oversight to ensure that contractors perform in accordance with the terms, conditions, and specifications of their contracts or purchase orders.

(c)

(1) The non-Federal entity must maintain written standards of conduct covering conflicts of interest and governing the actions of its employees engaged in the selection, award and administration of contracts. No employee, officer, or agent may participate in the selection, award, or administration of a contract supported by a Federal award if he or she has a real or apparent conflict of interest. Such a conflict of interest would arise when the employee, officer, or agent, any member of his or her immediate family, his or her partner, or an organization which employs or is about to employ any of the parties indicated herein, has a financial or other interest in or a tangible personal benefit from a firm considered for a contract. The officers, employees, and agents of the non-Federal entity may neither solicit nor accept gratuities, favors, or anything of monetary value from contractors or parties to subcontracts. However, non-Federal entities may set standards for situations in which the financial interest is not substantial or the gift is an unsolicited item of nominal value. The standards of conduct must provide for disciplinary actions to be applied for violations of such standards by officers, employees, or agents of the non-Federal entity.

(2) If the non-Federal entity has a parent, affiliate, or subsidiary organization that is not a State, local government, or Indian tribe, the non-Federal entity must also maintain written standards of conduct covering organizational conflicts of interest. Organizational conflicts of interest means that because of relationships with a parent company, affiliate, or subsidiary organization, the non-Federal entity is unable or appears to be unable to be impartial in conducting a procurement action involving a related organization.

(d) The non-Federal entity's procedures must avoid acquisition of unnecessary or duplicative items. Consideration should be given to consolidating or breaking out procurements to obtain a more economical purchase. Where appropriate, an analysis will be made of lease versus purchase alternatives, and any other appropriate analysis to determine the most economical approach.



(e) To foster greater economy and efficiency, and in accordance with efforts to promote cost-effective use of shared services across the Federal Government, the non-Federal entity is encouraged to enter into state and local intergovernmental agreements or inter-entity agreements where appropriate for procurement or use of common or shared goods and services. Competition requirements will be met with documented procurement actions using strategic sourcing, shared services, and other similar procurement arrangements.

(f) The non-Federal entity is encouraged to use Federal excess and surplus property in lieu of purchasing new equipment and property whenever such use is feasible and reduces project costs.

(g) The non-Federal entity is encouraged to use value engineering clauses in contracts for construction projects of sufficient size to offer reasonable opportunities for cost reductions. Value engineering is a systematic and creative analysis of each contract item or task to ensure that its essential function is provided at the overall lower cost.

(h) The non-Federal entity must award contracts only to responsible contractors possessing the ability to perform successfully under the terms and conditions of a proposed procurement. Consideration will be given to such matters as contractor integrity, compliance with public policy, record of past performance, and financial and technical resources. See also § 200.214.

(i) The non-Federal entity must maintain records sufficient to detail the history of procurement. These records will include, but are not necessarily limited to, the following: Rationale for the method of procurement, selection of contract type, contractor selection or rejection, and the basis for the contract price.

(j)

(1) The non-Federal entity may use a time-and-materials type contract only after a determination that no other contract is suitable and if the contract includes a ceiling price that the contractor exceeds at its own risk. Time-and-materials type contract means a contract whose cost to a non-Federal entity is the sum of:

(i) The actual cost of materials; and

(ii) Direct labor hours charged at fixed hourly rates that reflect wages, general and administrative expenses, and profit.

(2) Since this formula generates an open-ended contract price, a time-and-materials contract provides no positive profit incentive to the contractor for cost control or labor efficiency. Therefore, each contract must set a ceiling price that the contractor exceeds at its own risk. Further, the non-Federal entity awarding such a contract must assert a high degree of oversight in order to obtain reasonable assurance that the contractor is using efficient methods and effective cost controls.

(k) The non-Federal entity alone must be responsible, in accordance with good administrative practice and sound business judgment, for the settlement of all contractual and administrative issues arising out of procurements. These issues include, but are not limited to, source evaluation, protests, disputes, and claims. These standards do not relieve the non-Federal entity of any contractual responsibilities under its contracts. The Federal awarding agency will not substitute its judgment for that of the non-Federal entity unless the matter is primarily a Federal concern. Violations of law will be referred to the local, state, or Federal authority having proper jurisdiction.

[85 FR 49543, Aug. 13, 2020, as amended at 86 FR 10440, Feb. 22, 2021]

#### **§ 200.319 Competition.**

(a) All procurement transactions for the acquisition of property or services required under a Federal award must be conducted in a manner providing full and open competition consistent with the standards of this section and § 200.320.

(b) In order to ensure objective contractor performance and eliminate unfair competitive advantage, contractors that develop or draft specifications, requirements, statements of work, or invitations for bids or requests for proposals must be excluded from competing for such procurements. Some of the situations considered to be restrictive of competition include but are not limited to:

- (1) Placing unreasonable requirements on firms in order for them to qualify to do business;
- (2) Requiring unnecessary experience and excessive bonding;
- (3) Noncompetitive pricing practices between firms or between affiliated companies;
- (4) Noncompetitive contracts to consultants that are on retainer contracts;
- (5) Organizational conflicts of interest;
- (6) Specifying only a "brand name" product instead of allowing "an equal" product to be offered and describing the performance or other relevant requirements of the procurement; and
- (7) Any arbitrary action in the procurement process.

(c) The non-Federal entity must conduct procurements in a manner that prohibits the use of statutorily or administratively imposed state, local, or tribal geographical preferences in the evaluation of bids or proposals, except in those cases where applicable Federal statutes expressly mandate or encourage geographic preference. Nothing in this section preempts state licensing laws. When contracting for architectural and engineering (A/E) services, geographic location may be a selection criterion provided its application leaves an appropriate number of qualified firms, given the nature and size of the project, to compete for the contract.

(d) The non-Federal entity must have written procedures for procurement transactions. These procedures must ensure that all solicitations:

(1) Incorporate a clear and accurate description of the technical requirements for the material, product, or service to be procured. Such description must not, in competitive procurements, contain features which unduly restrict competition. The description may include a statement of the qualitative nature of the material, product or service to be procured and, when necessary, must set forth those minimum essential characteristics and standards to which it must conform if it is to satisfy its intended use. Detailed product specifications should be avoided if at all possible. When it is impractical or uneconomical to make a clear and accurate description of the technical requirements, a "brand name or equivalent" description may be used as a means to define the performance or other salient requirements of procurement. The specific features of the named brand which must be met by offers must be clearly stated; and

(2) Identify all requirements which the offerors must fulfill and all other factors to be used in evaluating bids or proposals.

(e) The non-Federal entity must ensure that all prequalified lists of persons, firms, or products which are used in acquiring goods and services are current and include enough qualified sources to ensure maximum open and free competition. Also, the non-Federal entity must not preclude potential bidders from qualifying during the solicitation period.

(f) Noncompetitive procurements can only be awarded in accordance with § 200.320(c).

**§ 200.320 Methods of procurement to be followed.**

The non-Federal entity must have and use documented procurement procedures, consistent with the standards of this section and §§ 200.317, 200.318, and 200.319 for any of the following methods of procurement used for the acquisition of property or services required under a Federal award or sub-award.

(a) **Informal procurement methods.** When the value of the procurement for property or services under a Federal award does not exceed the *simplified acquisition threshold (SAT)*, as defined in § 200.1, or a lower threshold established by a non-Federal entity, formal procurement methods are not required. The non-Federal entity may use informal procurement methods to expedite the completion of its transactions and minimize the associated administrative burden and cost. The informal methods used for procurement of property or services at or below the SAT include:

(1) **Micro-purchases -**

(i) **Distribution.** The acquisition of supplies or services, the aggregate dollar amount of which does not exceed the micro-purchase threshold (See the definition of *micro-purchase* in § 200.1). To the maximum extent practicable, the non-Federal entity should distribute micro-purchases equitably among qualified suppliers.

(ii) **Micro-purchase awards.** Micro-purchases may be awarded without soliciting competitive price or rate quotations if the non-Federal entity considers the price to be reasonable based on research, experience, purchase history or other information and documents it files accordingly. Purchase cards can be used for micro-purchases if procedures are documented and approved by the non-Federal entity.

(iii) **Micro-purchase thresholds.** The non-Federal entity is responsible for determining and documenting an appropriate micro-purchase threshold based on internal controls, an evaluation of risk, and its documented procurement procedures. The micro-purchase threshold used by the non-Federal entity must be authorized or not prohibited under State, local, or tribal laws or regulations. Non-Federal entities may establish a threshold higher than the Federal threshold established in the Federal Acquisition Regulations (FAR) in accordance with paragraphs (a)(1)(iv) and (v) of this section.

(iv) **Non-Federal entity increase to the micro-purchase threshold up to \$50,000.** Non-Federal entities may establish a threshold higher than the micro-purchase threshold identified in the FAR in accordance with the requirements of this section. The non-Federal entity may self-certify a threshold up to \$50,000 on an annual basis and must maintain documentation to be made available to the Federal awarding agency and auditors in accordance with § 200.334. The self-certification must include a justification, clear identification of the threshold, and supporting documentation of any of the following:

(A) A qualification as a low-risk auditee, in accordance with the criteria in § 200.520 for the most recent audit;

(B) An annual internal institutional risk assessment to identify, mitigate, and manage financial risks; or,

(C) For public institutions, a higher threshold consistent with State law.

(v) **Non-Federal entity increase to the micro-purchase threshold over \$50,000.** Micro-purchase thresholds higher than \$50,000 must be approved by the cognizant agency for indirect costs. The non-federal entity must submit a request with the requirements included in paragraph (a)(1)(iv) of this section. The increased threshold is valid until there is a change in status in which the justification was approved.

(2) **Small purchases -**

(i) **Small purchase procedures.** The acquisition of property or services, the aggregate dollar amount of which is higher than the micro-purchase threshold but does not exceed the simplified acquisition threshold. If small purchase procedures are used, price or rate quotations must be obtained from an adequate number of qualified sources as determined appropriate by the non-Federal entity.

(ii) **Simplified acquisition thresholds.** The non-Federal entity is responsible for determining an appropriate simplified acquisition threshold based on internal controls, an evaluation of risk and its documented procurement procedures which must not exceed the threshold established in the FAR. When applicable, a lower simplified acquisition threshold used by the non-Federal entity must be authorized or not prohibited under State, local, or tribal laws or regulations.

(b) **Formal procurement methods.** When the value of the procurement for property or services under a Federal financial assistance award exceeds the SAT, or a lower threshold established by a non-Federal entity, formal procurement methods are required. Formal procurement methods require following documented procedures. Formal procurement methods also require public advertising unless a non-competitive procurement can be used in accordance with § 200.319 or paragraph (c) of this section. The following formal methods of procurement are used for procurement of property or services above the simplified acquisition threshold or a value below the simplified acquisition threshold the non-Federal entity determines to be appropriate:

(1) **Sealed bids.** A procurement method in which bids are publicly solicited and a firm fixed-price contract (lump sum or unit price) is awarded to the responsible bidder whose bid, conforming with all the material terms and conditions of the invitation for bids, is the lowest in price. The sealed bids method is the preferred method for procuring construction, if the conditions.

(i) In order for sealed bidding to be feasible, the following conditions should be present:

(A) A complete, adequate, and realistic specification or purchase description is available;

(B) Two or more responsible bidders are willing and able to compete effectively for the business; and

(C) The procurement lends itself to a firm fixed price contract and the selection of the successful bidder can be made principally on the basis of price.

(ii) If sealed bids are used, the following requirements apply:

(A) Bids must be solicited from an adequate number of qualified sources, providing them sufficient response time prior to the date set for opening the bids, for local, and tribal governments, the invitation for bids must be publicly advertised;

(B) The invitation for bids, which will include any specifications and pertinent attachments, must define the items or services in order for the bidder to properly respond;

(C) All bids will be opened at the time and place prescribed in the invitation for bids, and for local and tribal governments, the bids must be opened publicly;

(D) A firm fixed price contract award will be made in writing to the lowest responsive and responsible bidder. Where specified in bidding documents, factors such as discounts, transportation cost, and life cycle costs must be considered in determining which bid is lowest. Payment discounts will only be used to determine the low bid when prior experience indicates that such discounts are usually taken advantage of; and

(E) Any or all bids may be rejected if there is a sound documented reason.

(2) **Proposals.** A procurement method in which either a fixed price or cost-reimbursement type contract is awarded. Proposals are generally used when conditions are not appropriate for the use of sealed bids. They are awarded in accordance with the following requirements:

(i) Requests for proposals must be publicized and identify all evaluation factors and their relative importance. Proposals must be solicited from an adequate number of qualified offerors. Any response to publicized requests for proposals must be considered to the maximum extent practical;

(ii) The non-Federal entity must have a written method for conducting technical evaluations of the proposals received and making selections;

(iii) Contracts must be awarded to the responsible offeror whose proposal is most advantageous to the non-Federal entity, with price and other factors considered; and

(iv) The non-Federal entity may use competitive proposal procedures for qualifications-based procurement of architectural/engineering (A/E) professional services whereby offeror's qualifications are evaluated and the most qualified offeror is selected, subject to negotiation of fair and reasonable compensation. The method, where price is not used as a selection factor, can only be used in procurement of A/E professional services. It cannot be used to purchase other types of services though A/E firms that are a potential source to perform the proposed effort.

(c) **Noncompetitive procurement.** There are specific circumstances in which noncompetitive procurement can be used. Noncompetitive procurement can only be awarded if one or more of the following circumstances apply:

(1) The acquisition of property or services, the aggregate dollar amount of which does not exceed the micro-purchase threshold (see paragraph (a)(1) of this section);

(2) The item is available only from a single source;

(3) The public exigency or emergency for the requirement will not permit a delay resulting from publicizing a competitive solicitation;

(4) The Federal awarding agency or pass-through entity expressly authorizes a noncompetitive procurement in response to a written request from the non-Federal entity; or

(5) After solicitation of a number of sources, competition is determined inadequate.

**§ 200.321 Contracting with small and minority businesses, women's business enterprises, and labor surplus area firms.**

(a) The non-Federal entity must take all necessary affirmative steps to assure that minority businesses, women's business enterprises, and labor surplus area firms are used when possible.

(b) Affirmative steps must include:

(1) Placing qualified small and minority businesses and women's business enterprises on solicitation lists;

(2) Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;

(3) Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;

(4) Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises;

(5) Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce; and

(6) Requiring the prime contractor, if subcontracts are to be let, to take the affirmative steps listed in paragraphs (b)(1) through (5) of this section.

**§ 200.322 Domestic preferences for procurements.**

(a) As appropriate and to the extent consistent with law, the non-Federal entity should, to the greatest extent practicable under a Federal award, provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products). The requirements of this section must be included in all subawards including all contracts and purchase orders for work or products under this award.



(b) For purposes of this section:

(1) "Produced in the United States" means, for iron and steel products, that all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States.

(2) "Manufactured products" means items and construction materials composed in whole or in part of non-ferrous metals such as aluminum; plastics and polymer-based products such as polyvinyl chloride pipe; aggregates such as concrete; glass, including optical fiber; and lumber.

**§ 200.323 Procurement of recovered materials.**

A non-Federal entity that is a state agency or agency of a political subdivision of a state and its contractors must comply with section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

**§ 200.324 Contract cost and price.**

(a) The non-Federal entity must perform a cost or price analysis in connection with every procurement action in excess of the Simplified Acquisition Threshold including contract modifications. The method and degree of analysis is dependent on the facts surrounding the particular procurement situation, but as a starting point, the non-Federal entity must make independent estimates before receiving bids or proposals.

(b) The non-Federal entity must negotiate profit as a separate element of the price for each contract in which there is no price competition and in all cases where cost analysis is performed. To establish a fair and reasonable profit, consideration must be given to the complexity of the work to be performed, the risk borne by the contractor, the contractor's investment, the amount of subcontracting, the quality of its record of past performance, and industry profit rates in the surrounding geographical area for similar work.

(c) Costs or prices based on estimated costs for contracts under the Federal award are allowable only to the extent that costs incurred or cost estimates included in negotiated prices would be allowable for the non-Federal entity under subpart E of this part. The non-Federal entity may reference its own cost principles that comply with the Federal cost principles.

(d) The cost plus a percentage of cost and percentage of construction cost methods of contracting must not be used.

**§ 200.325 Federal awarding agency or pass-through entity review.**

(a) The non-Federal entity must make available, upon request of the Federal awarding agency or pass-through entity, technical specifications on proposed procurements where the Federal awarding agency or pass-through entity believes such review is needed to ensure that the item or service specified is the one being proposed for acquisition. This review generally will take place prior to the time the specification is incorporated into a solicitation document. However, if the non-Federal entity desires to have the review accomplished after a solicitation has been developed, the Federal awarding agency or pass-through entity may still review the specifications, with such review usually limited to the technical aspects of the proposed purchase.

(b) The non-Federal entity must make available upon request, for the Federal awarding agency or pass-through entity pre-procurement review, procurement documents, such as requests for proposals or invitations for bids, or independent cost estimates, when:

(1) The non-Federal entity's procurement procedures or operation fails to comply with the procurement standards in this part;

(2) The procurement is expected to exceed the Simplified Acquisition Threshold and is to be awarded without competition or only one bid or offer is received in response to a solicitation;

(3) The procurement, which is expected to exceed the Simplified Acquisition Threshold, specifies a "brand name" product;

(4) The proposed contract is more than the Simplified Acquisition Threshold and is to be awarded to other than the apparent low bidder under a sealed bid procurement; or

(5) A proposed contract modification changes the scope of a contract or increases the contract amount by more than the Simplified Acquisition Threshold.

(c) The non-Federal entity is exempt from the pre-procurement review in paragraph (b) of this section if the Federal awarding agency or pass-through entity determines that its procurement systems comply with the standards of this part.

(1) The non-Federal entity may request that its procurement system be reviewed by the Federal awarding agency or pass-through entity to determine whether its system meets these standards in order for its system to be certified. Generally, these reviews must occur where there is continuous high-dollar funding, and third-party contracts are awarded on a regular basis;

(2) The non-Federal entity may self-certify its procurement system. Such self-certification must not limit the Federal awarding agency's right to survey the system. Under a self-certification procedure, the Federal awarding agency may rely on written assurances from the non-Federal entity that it is complying with these standards. The non-Federal entity must cite specific policies, procedures, regulations, or standards as being in compliance with these requirements and have its system available for review.

#### **§ 200.326 Bonding requirements.**

For construction or facility improvement contracts or subcontracts exceeding the Simplified Acquisition Threshold, the Federal awarding agency or pass-through entity may accept the bonding policy and requirements of the non-Federal entity provided that the Federal awarding agency or pass-through entity has made a determination that the Federal interest is adequately protected. If such a determination has not been made, the minimum requirements must be as follows:

(a) A bid guarantee from each bidder equivalent to five percent of the bid price. The "bid guarantee" must consist of a firm commitment such as a bid bond, certified check, or other negotiable instrument accompanying a bid as assurance that the bidder will, upon acceptance of the bid, execute such contractual documents as may be required within the time specified.

(b) A performance bond on the part of the contractor for 100 percent of the contract price. A "performance bond" is one executed in connection with a contract to secure fulfillment of all the contractor's requirements under such contract.

(c) A payment bond on the part of the contractor for 100 percent of the contract price. A "payment bond" is one executed in connection with a contract to assure payment as required by law of all persons supplying labor and material in the execution of the work provided for in the contract.

#### **§ 200.327 Contract provisions.**

The non-Federal entity's contracts must contain the applicable provisions described in appendix II to this part.

## Tab 18

### E-Verify Form

# 18. E-VERIFY FORM

## CITY OF MARGATE E-VERIFY FORM

Project Name:	General Civil Engineering, Building Architectural, and Landscape Architectural Consulting Services
Project No.:	RFQ No. 2023-010

ACKNOWLEDGEMENT


### Definitions:

"Contractor" means a person or entity that has entered or is attempting to enter into a contract with a public employer to provide labor, supplies, or services to such employer in exchange for salary, wages, or other remuneration.

"Subcontractor" means a person or entity that provides labor, supplies, or services to or for a contractor or another subcontractor in exchange for salary, wages, or other remuneration.

Effective January 1, 2021, public and private employers, contractors and subcontractors will begin required registration with, and use of the E-verify system in order to verify the work authorization status of all newly hired employees. Vendor/Consultant/Contractor acknowledges and agrees to utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of:

- All persons employed by Vendor/Consultant/Contractor to perform employment duties within Florida during the term of the contract; and
- All persons (including subvendors/subconsultants/subcontractors) assigned by Vendor/Consultant/Contractor to perform work pursuant to the contract with the Department. The Vendor/Consultant/Contractor acknowledges and agrees that use of the U.S. Department of Homeland Security's E-Verify System during the term of the contract is a condition of the contract with the City of Margate; and
- Should vendor become successful Contractor awarded for the above-named project, by entering into this Contract, the Contractor becomes obligated to comply with the provisions of Section 448.095, Fla. Stat., "Employment Eligibility," as amended from time to time. This includes but is not limited to utilization of the E-Verify System to verify the work authorization status of all newly hired employees, and requiring all subcontractors to provide an affidavit attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. The contractor shall maintain a copy of such affidavit for the duration of the contract. Failure to comply will lead to termination of this Contract, or if a subcontractor knowingly violates the statute, the subcontract must be terminated immediately. Any challenge to termination under this provision must be filed in the Circuit Court no later than 20 calendar days after the date of termination. If this contract is terminated for a violation of the statute by the Contractor, the Contractor may not be awarded a public contract for a period of 1 year after the date of termination and shall be liable for any additional costs incurred by the City as a result of the termination.

COMPANY CONTACT INFORMATION	Company Name:	CHA Consulting, Inc.
	Authorized Signature:	
	Print Name:	Michael A. Platt
	Title	General Counsel and Executive Vice President
	Date:	4/13/23
	Phone:	518.453.4500
	Email:	MPlatt@chacompanies.com
	Website:	www.chacompanies.com

Tab 19:  
Additional RFQ  
Information



# 19. ADDITIONAL RFQ INFORMATION

## Addenda Acknowledgement

### ACKNOWLEDGEMENT FORM

#### ADDENDUM NO. 1

#### BID NO. 2023-010

I acknowledge receipt of Addendum No. 1 for RFQ No. 2023-010. This addendum contains seven (7) pages. Please include the original of this form in your qualifications submission.

Company Name: CHA Consulting, Inc.

Address: 4700 Riverside Drive, Suite 110, Coral Springs, FL 33067

Name of Signer Michael A. Platt  
(please print)

Signature:  Date: 4/13/23

Telephone: 518.453.4500 Facsimile: N/A

Please fax your completed form to (954) 935-5258 or e-mail to [purchase@margatefl.com](mailto:purchase@margatefl.com).

Kelly McGilvray  
Kelly McGilvray  
Buyer II

Thursday, March 30, 2023

NOTE: The original of this form must be included with your qualifications submission.

### ACKNOWLEDGEMENT FORM

#### ADDENDUM NO. 2

#### BID NO. 2023-010

I acknowledge receipt of Addendum No. 2 for RFQ No. 2023-010. This addendum contains three (3) pages. Please include the original of this form in your qualifications submission.

Company Name: CHA Consulting, Inc.

Address: 4700 Riverside Drive, Suite 110, Coral Springs, FL 33067

Name of Signer Michael A Platt  
(please print)

Signature:  Date: 4/17/2023

Telephone: 518.453.4500 Facsimile: N/A

Please fax your completed form to (954) 935-5258 or e-mail to [purchase@margatefl.com](mailto:purchase@margatefl.com).

*Kelly McGilvray*  
Kelly McGilvray  
Buyer II

Wednesday, April 12, 2023

NOTE: The original of this form must be included with your qualifications submission.

## Client References

We believe the ultimate success of our projects is entirely dependent on our clients' satisfaction, perspective, and impressions. Perhaps the best evidence of our team's focus on client service and total quality management is our reputation for excellence that we have gained through our previous projects. We have provided letters of reference and client testimonials received from clients on the following pages for which CHA has provided similar services. Additionally, we have provided the names of contacts from several of these references below. We feel confident that our clients speak highly of our personal and professional integrity, and the included statements act as evidence of our team's abilities.

### Client: City of Coral Springs

Najla Zerrouki, PE, Assistant Director of Public Works  
Public Works Engineering Division  
9500 W Sample Road  
Coral Springs, FL 33065  
T: 954.345.2188  
E: [nzerrouki@coralsprings.gov](mailto:nzerrouki@coralsprings.gov)



### Client: Miami-Dade Water and Sewer Department (M-D WASH)

Juan A. Curiel, PE, Assistant Director – Utility Construction  
3071 SW 38 Avenue,  
Suite 560-6  
Miami, Florida 33146  
T: 786.812.6342 / 305.310.0472 (cell)  
E: [Juan.Curiel@miamidade.gov](mailto:Juan.Curiel@miamidade.gov)



### Client: City of Tamarac

Earl Henry, PE, Utility Engineer  
Public Services Department  
6011 Nob Hill Road, 2nd Floor  
Tamarac, FL 33321  
T: 954.597.3758  
E: [Earl.Henry@tamarac.org](mailto:Earl.Henry@tamarac.org)



### Client: Village of Palm Springs

Paul Ward, Assistant Utilities Director  
226 Cypress Lane  
Palm Springs, FL 33461  
T: 561.584.8200 ext. 8712  
E: [pward@vpsfl.org](mailto:pward@vpsfl.org)



### Client: Okeechobee Utility Authority

John Hayford, PE, Executive Director  
100 SW 5th Avenue  
Okeechobee, FL 34974  
T: 863.763.9460  
E: [jhayford@ouafl.com](mailto:jhayford@ouafl.com)





### SOUTH SEMINOLE & NORTH ORANGE COUNTY WASTEWATER TRANSMISSION AUTHORITY

410 Lake Howell Road

Maitland, FL 32751-5907

August 13, 2014

RE: Letter of Recommendation

To Whom It May Concern:

It gives me great pleasure to write this "Letter of Recommendation" for Reiss Engineering Inc. (REI). Since 2009, REI has been a trusted partner for the South Seminole & North Orange County Wastewater Transmission Authority (SSNOCWTA). REI has continually met schedule and budget commitments, while delivering the quality results they have promised. Some of the various wastewater engineering services REI has provided to SSNOCWTA include:

- Design, engineering, and construction inspection services for force main repairs and replacements. Pump station repairs, maintenance, and rehabilitations;
- Engineering services as requested regarding general system conditions, operation, and maintenance, including semi-annual pump station functional tests;
- Engineering services as required for pump station upgrades and improvements;
- Hydraulic modeling;
- Master Plan updates and the design and implementation of a CIP program;
- Preparation of grants and permits to construct and maintain sections of the transmission system;
- Engineering services as required during emergencies, including, but not limited to, loss of power, pump station overflows, outside contractor impacts, and infrastructure issues.

REI is a quality service provider that has a team \ common sense approach to resolving issues. We have enjoyed working with their personnel and continue to be impressed with their enthusiasm and expertise. We look forward to continually work with REI on future projects.

Sincerely,

Ed Gil de Rubio  
Executive Director  
(407) 628-0153

*\*CHA acquired Reiss Engineering in 2021.*



*City of Vero Beach*  
17 17<sup>th</sup> Street  
Post Office Box 1389  
Vero Beach, Florida 32961  
(772) 978-5220 Fax: (772) 978-5215

Office of the Director  
Water and Sewer Dept.

**RE: Reiss Engineering, Inc. Letter of Recommendation**

To Whom It May Concern:

On the behalf of the City of Vero Beach, I write this letter with the highest recommendation for Mark Burgess and the staff at Reiss Engineering, Inc. (Reiss) who has performed a variety of engineering, design, and construction management related services to support our utilities. They have continually met schedule and budget commitments while delivering quality results and work products. The City originally contracted with Reiss under a Master Services Agreement in 2013 and, again, in 2018 to provide professional services that have included:

- Water, wastewater, and reclaimed water distribution system modeling;
- Water quality modeling;
- Water, wastewater, and reclaimed water system master planning;
- Water use permitting;
- Pipeline preliminary and final design, permitting, and construction services;
- Pump station/lift station design, permitting, and construction services;
- Water, wastewater, and reclaimed water treatment piloting, preliminary, final design, permitting, bidding, and construction phase services;
- Wastewater nutrient management study;
- State Revolving Fund (SRF) Loan and grant Assistance.

Under these contracts, they have performed various tasks including 4-Log virus evaluation at our drinking water softening treatment plant, reverse osmosis (RO) membrane replacement and expansion for our RO water treatment plant, and sulfuric acid bulk tank replacement projects. Reiss recently completed a Nutrient Management Study to evaluate alternatives to retrofit our existing 4.5 MGD wastewater treatment facility to improve treatment and reduce effluent nutrients. They are currently assisting the City with SRF Loan and grant funding considerations for our proposed relocation and expansion of our wastewater treatment facility to a new site with a 5.0 MGD capacity and a process that will be capable of meeting Advanced Wastewater Treatment (AWT) limits.

Reiss continues to maintain open and effective communication with our staff. Overall, their team is built of experienced, trusted, and dedicated employees. I would not hesitate to employ them on future projects.

Sincerely,

Robert J. Bolton, P.E., Director  
Water and Sewer Department

RJB/sb

*\*CHA acquired Reiss Engineering in 2021.*





CITY OF  
**FORT LAUDERDALE**



**Dean J. Trantalis**  
Mayor

100 North Andrews Avenue  
Fort Lauderdale, FL 33301  
(954) 828-5004  
(954) 828-5667 Fax  
dtrantalis@fortlauderdale.gov  
[www.fortlauderdale.gov](http://www.fortlauderdale.gov)

To whom it may concern:

I highly recommend Robert Reiss and Reiss Engineering as extremely capable and knowledgeable consultants in the public works field.

Reiss Engineering conducted an in-depth review in 2017 of the condition of Fort Lauderdale's utility infrastructure and what work the city needed to undertake in the coming years. This strategic planning initiative helped the city prioritize rehabilitation and replacement projects and included recommendations regarding energy efficiency and sustainability.

The report was eye-opening to myself — then a city commissioner — and many in the community about the problematic state of our utility system and the funding gaps that existed to ensure the city had a reliable infrastructure for our future. Unfortunately for the city, the report was prescient and some of the weaknesses that it identified reached crisis points before we could take adequate measures to address them.

I must compliment Mr. Reiss and his company for their thoroughness, depth of knowledge, clarity and willingness to bring to the city critical information. Their work helped form the cornerstone of the current fast-track initiatives underway to improve the utility infrastructure. Throughout my experience with the firm, Mr. Reiss and his staff have conducted themselves with the utmost professionalism and were readily accessible to myself and other city leaders for follow-up discussions and questions.

Sincerely,

Dean J. Trantalis  
Mayor

# City of Melbourne



900 E. Strawbridge Avenue • Melbourne, FL 32901 • (321) 727-2900 • Fax (321) 953-6207

August 25, 2014

RE: Letter of Recommendation

To Whom It May Concern:

On behalf of the City of Melbourne, I am pleased to write this letter of recommendation for Reiss Engineering, Inc. (REI) regarding the quality engineering support that they have provided on the following projects:

- Wastewater Collection/Transmission Master Plan
- Water System Master Plan Update
- RO Concentrate Discharge Permitting

The REI team consists of experienced and dedicated employees that are capable of performing quality technical tasks for a variety of services. They are always responsive and take great pride in their work while maintaining an appropriate schedule. They are capable of completing complex tasks while providing leadership and direction. Overall, the team is great to work with and meshes well with City Staff in a true "team" effort. The City continues to utilize their services on both a continuing consulting and project-specific basis. If you have any questions, please do not hesitate to contact me at (321) 608-5000.

Sincerely,

A handwritten signature in blue ink that reads "Harold C. Nantz".

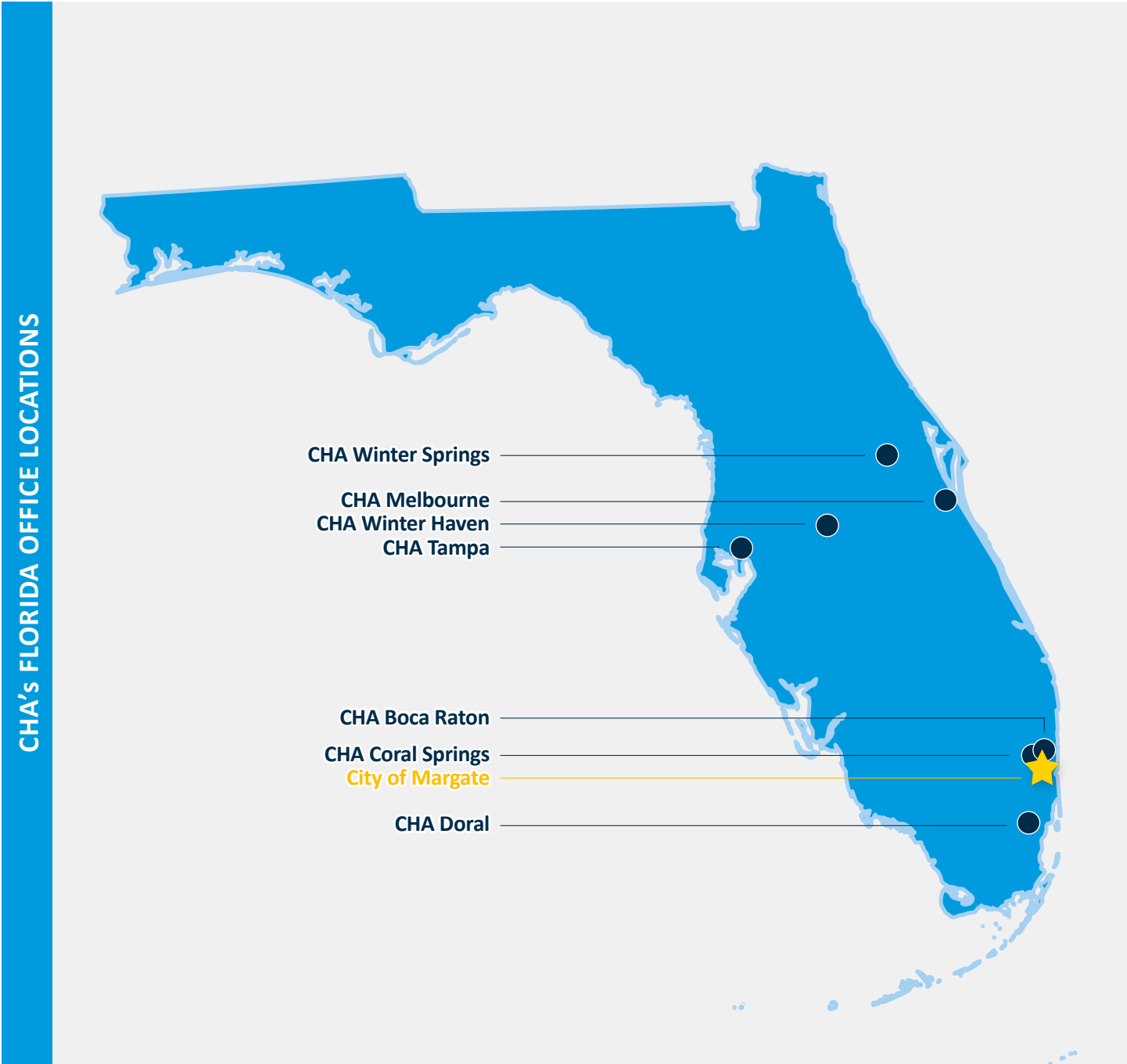
Harold C. Nantz, P.E.  
Assistant Public Works & Utilities Director

*An Equal Opportunity Employer*

• Internet: [www.melbourneflorida.org](http://www.melbourneflorida.org) • E-Mail: [cityhall@melbourneflorida.org](mailto:cityhall@melbourneflorida.org)

**\*CHA acquired Reiss Engineering in 2021.**

Office Location



CHA has seven offices located in Florida, with a bench strength of over 1,500 professionals in more than 45 office locations company-wide. For this contract, **the City of Margate will have the direct commitment of our Coral Springs office, located at 4700 Riverside Drive, Suite 110, Coral Springs, FL 33067.** Our proposed project manager, Doug Hammann, PE, is located in our Coral Springs office. With CHA's office located less than 15 minutes from the Department of Environmental and Engineering Services, our team can respond quickly to any and all of the city's needs.

# Water Experience



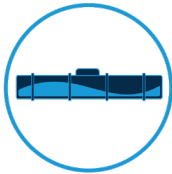
## Master Planning and Feasibility Studies

CHA has extensive experience in developing system-wide water master plans, CIPs, and rate studies. Our engineers and planners will assist your community in implementing the most cost-effective plan.



## Water Solutions

Our highly qualified staff has developed thousands of water-related projects, including source of supply, distribution, storage, treatability evaluations, treatment plant design, operation and maintenance plans, and sludge dewatering.



## Water Distribution

CHA's staff has planned, permitted, designed, and delivered millions of feet of water main. This knowledge, combined with our modeling, tank and pump station design expertise, makes CHA an industry leader.



## Water Treatment

CHA's highly qualified staff has evaluated and designed municipal water treatment facilities for cities and counties throughout the United States; this includes facility design and optimization using state-of-the-art treatment technologies.



## Water Resources

Safe and clean water is essential for a healthy community. Knowledge is essential for developing water systems. We have developed thousands of water-related projects, each taking into account our client's unique environmental, water quality, permitability, and funding concerns.

## Water Services

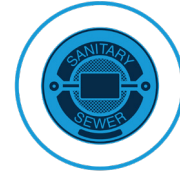
- Water treatment and storage:
  - Consumptive use permitting
  - Asset management
  - Conventional and advanced treatment
  - Fresh, brackish and surface water sources
  - Plant hydraulics
  - Supervisory control and data acquisition (SCADA)
  - Contract administration and resident inspection
- RO and membranes
- Distribution system
- Water utility planning
- Groundwater well design
- WTP intake design and rehabilitation
- Unidirectional flushing (UDF) design
- Bidding support
- Merger/integration of water systems
- Smart water consultancy
- Emerging contaminant and regulatory support
- Process analysis and design
- Environmental permitting
- Operations support
- Sustainable solutions
- Water quality and regulatory compliance
- Water recycling and reuse
- Construction services
- Program management

# Wastewater Experience



## Master Planning and Feasibility Studies

CHA has extensive experience in developing system-wide wastewater master plans, CIPs, and rate studies. Our experienced staff of engineers and planners will help your community implement the most cost-effective overall plan.



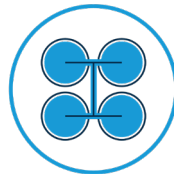
## Wastewater Collection Systems

As a leading collection system and wet weather flow engineering firm, we have assisted many clients in constructing new gravity sewer lines, pump stations, and force mains. Our experience includes modeling, sanitary sewer evaluation surveys (SSES), I/I studies, sewer system rehabilitation, and sanitary sewer design, permitting and construction services.



## Reclaimed Water

We have designed and permitted innovative reclaimed water systems using traditional techniques and innovative approaches to maximize value of the resource. Our team is well-versed in the latest reclaimed water regulations and they vigorously embrace a “green” design philosophy in all their reclaimed water design, permitting, and planning work.



## Wastewater Treatment

Our staff specializes in developing innovative, environmentally sound, and cost-effective wastewater treatment systems to meet today’s increasingly stringent regulations. These include conventional and innovative treatment technologies for domestic wastewater treatment.



## Funding

Securing funding is as important as the engineering for a successful project. We’ve secured millions of dollars for wastewater projects on behalf of our clients.

## Wastewater Services

- Wastewater treatment:
  - Solids handling, treatment, and disposal
  - System hydraulic modeling
  - Treatability studies and process evaluation/optimization
  - Secondary and tertiary treatment system design
  - Biological nutrient reduction (BNR)
  - Enhanced BNR (EBNR)
  - CMOM
  - SCADA
- Wastewater collection systems:
  - Collection system, transmission system (FM) and pump station design
  - I/I studies
  - SSES
  - Sewer rehabilitation
  - System mapping
  - Condition assessment
- Contract administration and construction observation



## Additional Comprehensive In-House Architectural and Engineering Services Available to Support Our Team's Service Efforts to the City of Margate

Our large team of highly trained engineers is supported by hundreds of technical specialists who provide a vast array of services to our clients.



### Architectural

Our architects and designers seek to create high-quality, collaborative designs that stress innovation grounded in careful listening to your functional needs and tailored to your culture and specific organizational needs. We have vast expertise and resources, but our commitment to you will be laser-focused, thoughtful and longstanding. Building design often involves diverse stakeholder input, and you can trust that we'll guide you through a design process that's right-sized for your project and community. The end result will be a design that is innovative, flexible, creative, and beautiful. You'll like our designers and love what they design for you.



### Arc Flash Analysis

Arc flash is arguably the deadliest and least understood hazard faced daily by plant personnel. Research indicates that even the best safety plan, training regimen, and protective equipment may be no match for an arc flash's heat and blast effects. Leveraging robust knowledge of industry standards, CHA regularly performs arc flash analyses geared toward understanding and preventing arc flash and arc blast hazards. Our team performs thorough risk assessments, collecting all applicable data about power distribution and electrical systems and determines levels of risk for each component. CHA's analysis will provide you with a list of possible mitigation options to decrease arc flash energy levels and protect your personnel.



### Asset Management

CHA's asset management capabilities provide a powerful complement to our long history of delivering investigative and infrastructure expansion/renewal engineering services for wastewater systems. We offer our clients GIS solution development, long-range capital and system planning, integrity assessment, regulatory strategy, compliance, and data management services. Our GIS system empowers you with complete, easy-to-access information on your assets and a clear picture of the condition of your critical systems. With it, you can quickly develop comprehensive maintenance programs, optimize field programs, and respond to emergencies and outages. Our goal is to help you manage your capital assets effectively while minimizing the costs associated with owning and operating them.



### Civil Engineering

The backbone of modern society is the built environment. To support the demands of the ever-changing present, communities need supporting infrastructure that can match the rapid pace of daily life. Today, the roads we drive on, the infrastructure that provides services to our homes and businesses, and civic and recreational spaces must respond to unique and complex environmental and social settings. Communities need solutions that are both right for today's world and flexible enough to accommodate the future.

Our civil engineers rely on unique designs, innovative materials, and modern construction technologies to create structures, foundations, and other sensitive projects for the public and the bottom line. Our expertise spans the entire project cycle from feasibility evaluations through full-service design and construction. With thousands of design projects under our belt and offices throughout the United States, we have the relationships and experience to smooth the path to project completion.



### Construction Administration/Construction Inspection

CHA provides a full complement of construction administration and inspection services to monitor, record, and deliver projects. Our team includes seasoned certified construction professionals cross-trained in design, project and risk management, and health and safety compliance.



### Electrical/Instrumentation

Electronics power the 21st century. Without well-designed, efficient lighting, security, telecommunication systems, and even the brightest, most alluring facilities are left in the dark. Our electrical professionals specialize in the design of lighting, power distribution, emergency power, fire alarm, security, lightning protection, instrumentation and control, and telecommunication systems. Our staff consists of recognized industry professionals with careers spanning decades. They have a reputation for verifying regulatory compliance while crafting durable, energy-efficient systems.



### Energy

We help industrial, commercial and institutional clients develop energy management and sustainability programs that reduce energy costs through intelligent efficiency improvements. We also provide technical support services to state and utility programs in outreach, technical review, technical advisory, and program implementation services. Our team has conducted more than 1,000 energy efficiency audits and assessments, identifying more than \$90M in energy and operational savings. We've designed and installed combined heat and power (CHP) systems that reduce utility expenses by up to 50%, reduce carbon footprints by 45% and make utility outages less of a problem. CHA has also identified grants, incentives, and private financing for a range of projects.



### Financial Analyses and Evaluations

CHA recognizes the value accurately and thoroughly evaluates the feasibility, cost, and benefit of capital improvements project ventures to enhance the quality of service. Our team considers various financing strategies and operational analyses to implement desired projects with minimal impacts and costs successfully. Our approach encompasses assessing potential financial plans, service changes, rate structures, and rates to fund and develop long-term improvements to your conveyance and treatment systems.



### Funding

Our funding specialists have been working in Florida for decades, know the stakeholders, and provide support to secure grants and loans for the communities to improve and maintain their water and sewer systems. Our local presence and working relationship with the regulators and funding agencies will be unparalleled to serve your needs.



### Mechanical Engineering

CHA creates state-of-the-art mechanical systems that prioritize energy efficiency without sacrificing strength or ramping up costs. Our team consists of industry leaders who have valuable hands-on experience as plant managers and engineers in industrial settings. We offer complete MEP engineering and design/construction services for companies throughout the manufacturing sector and various public, private, and institutional clients. Our professionals will perform a thorough analysis of your systems and use proven methods to optimize performance.



### Permitting

Our team will serve as your resident expert in permitting compliance. Our team will manage the design, regulatory approval, specialized environmental studies, environmental management systems, collection system capacity, management, operation & maintenance (CMOM) programs, environmental compliance planning and reporting programs. Our strong relationships and experience with regulatory agencies mean we can help smooth the path to full permitting compliance.



### Public Outreach

CHA is experienced with community outreach and public stakeholder involvement. We engage the public early and often in the preliminary design phase and maintain awareness and involvement as the project moves forward. We also work with our clients to identify key stakeholders and public officials and keep them apprised of major issues and decisions as the project develops. We have found that actively working with the identified key stakeholders from preliminary design to construction completion minimizes misunderstandings and keeps projects on track through experience.

Our key staff members have also demonstrated strong speaking capabilities and have been called on to publicly present technical and non-technical material to a variety of audiences. We have regularly conducted extensive public outreach programs to inform and solicit input from residents, businesses and other community stakeholders. Programs regularly involved planning and executing public meetings to address and incorporate public and committee questions. Other outreach tactics include developing project websites, text messages, e-newsletter alert services, individual and group stakeholder meetings, public inquiry responses via phone and email, and project branded collateral.



### **Sustainability**

Our team has led the way with innovative green designs. From our early work on America's Most Scenic Highways to our recent award-winning Smart Growth projects, we've helped set the standard that others follow today. CHA is a registered member of the U.S. Green Building Council and employs a staff of LEED Accredited Professionals, including landscape architects, engineers, and professional planners. From the initial planning stages to the achievement of certification, our experienced LEED Accredited Professionals will be there to help set goals, guide progress, document construction practices, and interface with the U.S. Green Building Council.



### **Transportation**

Our transportation specialists plan, design, and help maintain and construct these most valued assets—including roads, bridges, railways, waterways, and multi-modal facilities—for public and private transportation owners, agencies and authorities. Whether an initiative involves a cost-effective rehabilitation or an innovatively funded major capital improvement, we provide the experience, creativity, and expertise to improve mobility and safety.



### **Water and Wastewater**

#### **Water**

Our experienced and highly skilled professionals can assess, plan, design, and construct required infrastructure while meeting increasingly stringent regulations. Our resume covers hundreds of water supply, distribution, storage, treatability evaluations, treatment plant design, operation and maintenance plants, and sludge dewatering projects. Making sure that water is clean and safe is one of the most important services each community can provide.

#### **Wastewater Collection**

CHA is one of the leading collection system and wet weather flow engineering firms. We have assisted many clients in constructing new gravity sewer lines, pump stations, and force mains. Our experience includes modeling, sanitary sewer evaluation surveys (SSES), I/I studies, sewer system rehabilitation, and equalization basin design.



#### **Water and Sewer Modeling**

We are industry leaders in using hydraulic models to develop planning strategies, CIPs, operational scenarios, and water and sewer improvement project design parameters. We have included multiple water and sewer modelers who previously used Innovyze's water modeling software and the know-how to use the software efficiently.

#### **Water and Wastewater Technology**

Our knowledge of proven smart-water ideas and expertise in state-of-the-art pipe rehabilitation and replacement technologies, funding mechanisms, and digitalization trends in the industry gives us the tools to provide the best planning and modeling services to optimize your investments.



#### **Stormwater**

Our team has the resources to address stormwater engineering design needs, with the possibility of construction inspection services for various types of storm-related projects including storm sewers, ditching, channels, infiltrative practices, and resurfacing work. Our stormwater designs strive to preserve our environment, restore natural ecosystems and vitalize the communities in which we work for future generations.

## Additional Project Experience



### 6.0 MGD Microfiltration and RO WTP Addition City of Bowling Green, OH

The City of Bowling Green expanded its WTP using an integrated membrane system (IMS) to treat reservoir water fed by the Maumee River. Integrating the RO membrane system into the WTP enabled blending of finished plant water with a combination of integrated membrane treatment (MF/RO) and lime softening for a permitted flow of 11 MGD to meet Ohio Environmental Protection Agency (OEPA) water quality requirements. The new IMS treatment plant, consisting of microfiltration (MF) followed by low-pressure RO (LPRO), operates with the lime softening plant to increase capacity and improve finished water quality, especially in terms of DBPs. CHA's pilot study report guided the engineering design of the WTP expansion and provided study results to meet OEPA regulatory requirements. The design included an integrated membrane process for treating the surface water source. The project included approximately 3,500 feet of 36-inch HDPE raw water piping to connect the new membrane facilities to the raw water reservoir. The membrane expansion facilities were designed for a build-out capacity of a 6.0 MGD addition to the existing treatment plant with a first phase installation of 3.0 MGD. CHA's responsibilities included onsite inspection, construction management, funding compliance support, facility startup, testing, commissioning, and OEPA certification. We performed a blending analysis to affirm stability and maximum use of the most efficient water treatment technology. The study was used to implement the IMS to yield the best quality water at the most cost-effective range.

**Firm:** CHA (Prime) | **Client Contact:** Brian O'Connell | **Phone:** 419.354.6246  
**Professional Services End Date:** 2013 | **Construction Services End Date:** 2013

**Relevance to Scope:** WTP expansion, Chemical storage/feed, Permitting, Design, and Construction-phase services



### Water Treatment Plant Accelerator D Piping Modification City of Pembroke Pines, FL

CHA was selected to provide engineering services for field inspection and location of installed piping and provide the city with record drawings of the piping modification to Accelerator D for the City of Pembroke Pines WTP. The piping modifications were used to address operation and maintenance issues related to the influent pipe and tank drain line.

**Firm:** CHA (Prime) | **Client Contact:** Karl Kennedy, PE | **Phone:** 954.435.6511  
**Professional Services End Date:** 2019 | **Construction Services End Date:** 2019  
**Relevance to Scope:** WTP facility, WTP process, Construction-phase services



### Wastewater Treatment Plant Rehabilitation, Phase I City of Pembroke Pines, FL

CHA provided design/build engineering services to modify multiple processes at the City of Pembroke Pines Wastewater Treatment Facility. The project encompassed rehabilitation and improvements to a 2 MGD packaged treatment unit, structural rehabilitation and aeration upgrade for two equalization tanks, instrumentation and process controls improvements, and the redesign and reconstruction of a new onsite 12 MGD influent pump station.

**Firm:** CHA (Subconsultant) | **Client Contact:** George Wrves | **Phone:** 954.518.9040  
**Professional Services End Date:** 2020 | **Construction Services End Date:** Ongoing  
**Relevance to Scope:** Recent experience working for you, WTP process, Construction-phase services





## Main Water Treatment Plant SCADA System Upgrade Village of Palm Springs, FL

CHA is providing preliminary design, final design and engineering services during construction for the complete replacement of the facilities existing SCADA System. Work included the replacement of SCADA Servers and computer workstations; the addition of new process control panels with upgraded PLCs, HMI and network switches; the addition of new Remote I/O panels; provision of a new plant-wide fiberoptic communications network; incorporation of offsite wells and wastewater transmission facilities; and electrical improvements to facilitate the upgrades. The anticipated project construction completion date is the first quarter of 2023.

**Firm:** CHA (Prime) | **Client Contact:** Paul Ward | **Phone:** 561.584.8200 x8716  
**Professional Services End Date:** Ongoing | **Construction Services End Date:** Ongoing  
**Relevance to Scope:** WTP facility, WTP process, Construction-phase services



## Rehabilitation of Lime Sludge Thickeners 1 and 2 City of Coral Springs, FL

CHA was selected to provide engineering services for this project. The existing thickeners had been in service for approximately 20 years. Over that time, the operations staff experienced numerous failures and maintenance issues related to the torque capability of the rake drives.

CHA provided planning, design, permitting, bidding administration services, and engineering services during construction. Other problems related to maintenance access and the introduction of lime sludge to the thickener mechanisms were also of concern. The rehabilitation design greatly increased the system torque by designing with a larger “k” factor and changing from a chain-driven rake to a gear-driven rake. Other improvements included larger access walkways, platforms, and non-submerged discharge points to the thickeners.

**Firm:** CHA (Prime) | **Client Contact:** Najla Zerrouki | **Phone:** 954.345.2188  
**Professional Services End Date:** 2012 | **Construction Services End Date:** 2017  
**Relevance to Scope:** WTP facility, WTP process, Construction-phase services



## Miscellaneous Water Treatment Plant Improvements, Phase III City of Coral Springs, FL

CHA provided engineering services for this third phase of improvements. The City of Coral Springs needed miscellaneous improvements to their water treatment plant. The improvements included the following items: the demolition of existing chemical feed systems and construction of a new chemical feed building with new chemical feed systems; the new chemical feed systems include coagulant aid, hexametaphosphate, fluoride, ammonia, and sodium hypochlorite; demolition of the existing high-service pump station and the construction of a new high-service pump station building with five vertical turbine high-service pumps in suction cans capable of pumping a design flow rate of 16 MGD; improvements to the finished water transmission piping; rehabilitation of the filters; complete plant-wide SCADA system, including fiber network, interfacing with existing control systems and new base HMI systems; expansion and remodeling of the existing water treatment plant administration building; miscellaneous electrical and process instrumentation and controls work. General site work and restoration; and access improvements to the existing main, including a temporary guard house and improvements to the entrance gate. CHA provided planning, design, permitting, and engineering services during construction.

**Firm:** CHA (Prime) | **Client Contact:** Najla Zerrouki | **Phone:** 954.345.2188  
**Professional Services End Date:** 2015 | **Construction Services End Date:** 2015  
**Relevance to Scope:** WTP facility, WTP process, Construction-phase services





## R.L. Pratt Water Treatment Plant Spiractor Replacement Village of Palm Springs, FL

CHA provided engineering services to the Village of Palm Springs to replace the existing Spiractors at the R.L. Pratt Water Treatment Plant. The Spiractor treatment unit is a pellet softening treatment process, which is utilized at the two Water Treatment plants owned and operated by the Village of Palm Springs. CHA designed, permitted, and provided services during construction for the replacement of the Spiractors and ancillary equipment and systems.

**Firm:** CHA (Prime) | **Client Contact:** Paul Ward | **Phone:** 561.584.8200 x8716  
**Professional Services End Date:** 2020 | **Construction Services End Date:** 2020  
**Relevance to Scope:** WTP facility, WTP process, Construction-phase services



## Main Water Treatment Plant Filter Media Replacement Village of Palm Springs, FL

CHA provided engineering services to the Village of Palm Springs to replace the filter media at the Main Water Treatment Plant. CHA designed, permitted, and provided services during construction to replace the filter media for the treatment plant and improve ancillary equipment and systems.

**Firm:** CHA (Prime) | **Client Contact:** Paul Ward | **Phone:** 561.584.8200 x8716  
**Professional Services End Date:** 2020 | **Construction Services End Date:** 2020  
**Relevance to Scope:** WTP facility, WTP process, Construction-phase services



## R.L. Pratt Water Treatment Plant Spiractor Replacement Village of Palm Springs, FL

CHA provided engineering services to the Village of Palm Springs to rehabilitate the existing filters at the R.L. Pratt Water Treatment Plant. CHA designed, permitted, and provided services during construction for the rehabilitation and improvements to the filters and filter structure, required modifications to yard piping, and improvements to ancillary equipment and systems.

**Firm:** CHA (Prime) | **Client Contact:** Paul Ward | **Phone:** 561.584.8200 x8716  
**Professional Services End Date:** 2020 | **Construction Services End Date:** 2020  
**Relevance to Scope:** WTP facility, WTP process, Construction-phase services



## Reverse Osmosis (RO) Water Treatment Facility Expansion City of Vero Beach, FL

The City of Vero Beach needed to increase the capacity of its 3.3 MGD RO water treatment facility. The reverse osmosis skid was rated at 2.0 MGD, and the treatment facility's capacity needed to be expanded to 4.5 MGD to improve the finished water quality and decrease the operation of the lime softening plant. CHA provided design, permitting, bidding, and construction management services.

Improving the reverse osmosis skid involved modifying the permeate header, adding valves and a flow meter to balance and control flows between Stage 1 and Stage 2, and installing piping associated with using five unused pressure vessels. Two 1.25 MGD reverse osmosis skids with high-pressure pumps and variable frequency drives were added. The skids were designed to be expandable to 2.0 MGD each by adding pressure vessels and connection piping to the different headers designed for 2.0 MGD. The aging sulfuric acid and scale inhibitor feed systems were replaced to accommodate increased chemical demands due to the addition of the two membrane skids.

Additional improvements included electrical upgrades, instrumentation and control modifications, additional programmable logic controllers and remote input/output panels, and finished water quality stability measurement system integration. A spreadsheet-based software was developed and integrated into the SCADA system to predict key post-treatment water quality parameters based on measured water quality and determine the water quality in response to potential treatment operation changes.

**Firm:** CHA (Prime) | **Client Contact:** Robert Bolton, PE | **Phone:** 772.978.5220

**Professional Services End Date:** 2018 | **Construction Services End Date:** 2018

**Relevance to Scope:** WTP expansion, Chemical storage/feed, Permitting, Design, and Construction-phase services



## Ormond Beach WTP Upgrades/Station Relocation City of Ormond Beach, FL

The city owns and operates a 12 MGD lime softening/LPRO WTP. The sodium hypochlorite generation units and lime slaker units at the Ormond Beach WTP were nearing the end of their useful life. The city decided to upgrade and replace the equipment with more modern and energy-efficient equipment to maintain reliable and safe plant operations.

CHA provided preliminary design, final design, and bidding assistance to replace the WTP sodium hypochlorite generator and lime slaker units. The work included installing new lime feeders, lime slakers, and grit removal systems; connecting water piping to the new slakers; connecting lime slurry discharge piping from the new slakers to the existing slurry mixing tanks; installing and connecting the new eductor dust fan ventilators and vent piping to the new slakers; mounting and electrical connections of the new dust ventilators and the remote wall-mounted control panels; installation of new wiring from the wall-mounted control panels to the slaker junction boxes; and installing a new bulk sodium hypochlorite feed and storage system for the WTP, including all electrical and I&C to complete a fully operational system.

The new bulk sodium hypochlorite includes two 6,000-gallon lined, cross-linked, polyethylene bulk sodium hypochlorite storage tanks with a pre-engineered metal protective canopy and concrete tank pedestal; two duplex sodium hypochlorite feed pump skids; one triplex sodium hypochlorite feed pump skid; new chemical feed injection points and chemical feed piping with containment; and all associated piping, fittings, valves, and appurtenances.

**Firm:** CHA (Prime) | **Client Contact:** Alex Schumann, PE | **Phone:** 386.676.3302

**Professional Services End Date:** 2021 | **Construction Services End Date:** 2021

**Relevance to Scope:** WTP improvements, Chemical storage/feed, Permitting, Design, and Construction-phase services

## Various Projects

### City of Pembroke Pines, FL

Nutting has a relationship with the city dating back to 2012 providing geotechnical studies, construction material testing, laboratory testing and inspection services.

**Water Treatment Plant, 7911 Johnson Street (Prime).** Performed geotechnical exploration/engineering services in an effort to evaluate the subsurface soil conditions in preparation for the soil stabilization to allow safe access for excavation and maintenance equipment to travel between the lagoons and to allow for storage of sludge within the lagoon areas.

**US 27 Water Main Installation, Griffin Road, Stirling Road & US 27 (Subconsultant).** Performed geotechnical exploration/engineering services in an effort to evaluate the subsurface soil conditions for the installation of ~16,300 lineal feet of 12-inch diameter water main via directional drill.

**Pines Village Water Main Replacement (Subconsultant).** Performed geotechnical exploration/engineering services in an effort to evaluate the subsurface soil conditions for the replacement of ~70,000 feet of water main.

**Firm:** Nutting (Prime & Subconsultant) | **Client Contact:** Jon Cooper | **Phone:** 954.921.7781  
**Professional Services End Date:** Ongoing | **Construction Services End Date:** Ongoing  
**Relevance to Scope:** Water treatment, Evaluations, Geotechnical and testing services

## Various Projects

### City of Hollywood, FL

Nutting has a relationship with the city dating back to 2002 with a geotechnical study and asphalt coring services for the Ocean Walk. Since then, they have provided dozens of geotechnical studies as well as provided construction material testing, laboratory testing and inspection services directly for Hollywood.

**Water Main Replacement Program.** Geotechnical services for 64,000 feet of water main for Hollywood Boulevard from Johnson Street to Hollywood Boulevard and 60th Avenue to North 53rd Avenue.

**Water Main and Sewer Replacement.** Geotechnical services for 60,000 feet of water main for Hollywood Boulevard, north of Pembroke Road, west of South Federal Highway and east of South Dixie.

**Water Main Replacement Program.** Testing services for South 26th Avenue to Dixie Highway.

**WTP Scrubber System Expansion.** Geotechnical services for Hollywood Boulevard and North 35th Avenue.

**Hollywood WWTP at 1621 North 35th Avenue.** Testing services provided.

**Drainage Study.** Drainage study completed for NW 29th Street between NW 6th Avenue and Florida Turnpike

**14th Avenue Drainage Improvements.** Provided drainage improvement services for North 14th Avenue and various streets west of North 14th Avenue.

**Dixie Corridor Septic to Sewer Conversion.** Septic to Sewer Conversion for Dixie Highway between Pembroke Road and Sheridan Street and between Sherman Street and Taft Street.

**Firm:** Nutting (Prime) | **Client Contact:** Clece Aurelus | **Phone:** 954.921.3930  
**Professional Services End Date:** Ongoing since 2002 | **Construction Services End Date:** Ongoing  
**Relevance to Scope:** Water treatment, Evaluations, Geotechnical and testing services

## Various Projects

### City of Hallandale Beach, FL

Nutting has performed geotechnical exploration/engineering, construction materials testing and/or inspection services for the city since 2001.

**Hallandale Beach Stormwater 42-Year Community Development Block Grant.** Installation of drainage pipes, catch basins, manholes, and exfiltration trenches throughout the referenced project area.

**SW-SE Hallandale Beach Drainage Improvements.** Installation of 72-inch to 18-inch diameter DIP force mains (approx. 3,900 feet, pump stations, control structures, and drainage structures.

**Firm:** Nutting (Prime) | **Client Contact:** Gregg Harris | **Phone:** 954.451.3029  
**Professional Services End Date:** Ongoing | **Construction Services End Date:** Ongoing  
**Relevance to Scope:** Water treatment, Evaluations, Geotechnical and testing services

## Commitment to Designing Sustainable Solutions



CHA is committed to integrating environmentally responsible design, engineering, and construction into all our projects. These practices are generally known as “green building” or “green construction” and imply a design philosophy that stresses solving the present needs without diminishing the resources necessary to solve the needs of the future.

CHA’s resource-conscious design and engineering philosophy is on the green movement’s cutting-edge and built-in ways to use renewable resources and green technologies.

CHA’s sustainability initiative stands on four strategic pillars:

### Sustainable Services & Clients

We provide sustainable practices in the services we offer to help our clients plan, design, and build projects that endure.

### Sustainable Workforce

We inspire our employees by creating an environment that connects us to our company and communities and challenges our employees to grow personally and professionally.

### Sustainable Communities

We meaningfully engage with stakeholders and support the communities in which we work and live.

### Sustainable Operations

We measure our environmental footprint and implement programs to reduce resource use, waste, and carbon emissions.

## Corporate Commitment to Environmental Stewardship

At CHA, our responsibility to [improve the world we live in](#) goes far beyond delivering a quality engineering design on schedule and under budget. Our responsibility extends to the communities where each of our employees lives and works.



**Our obligation is to responsibly improve the world through our designs and actions to preserve our environment for future generations.**



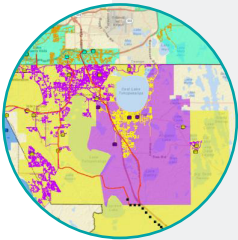
## Project Awards



**Early B. Phelps Award for Outstanding Wastewater Treatment Operations In Florida | *Seminole County, Greenwood Lakes WRF Improvements*.** CHA designed numerous upgrades to the plant and associated facilities, including converting an existing off-line package treatment train into an equalization tank and sequential facultative digestion process. These operational improvements contributed to Seminole County's receipt of this award.



**American Public Works Association's Florida Chapter Project Of The Year Award | *Clearwater WTP No. 2 and Water Transmission Mains*.** CHA recently designed and completed construction inspection services for a 6.25 MGD brackish water RO WTP and 64,625 feet of 6- to 24-inch associated pipeline.



**Central Florida Engineer's Week Outstanding Project of The Year Award | *Cypress Lake Potable Water Transmission, Optimization, and Interconnection Conceptual Design*.** CHA developed a 36 MGD conceptual design for transmission and optimization of the Cypress Lake alternative water supply in concert with existing potable water sources to facilitate the efficient and cost-effective transfer and transmission of potable water among five major central Florida utilities.



**Associated Builders and Contractors 2020 Excellence in Construction Eagle Award | *Polk County CRUSA Water Production Facility (WPF)*.** CHA provided services for the pilot process testing, design, construction, and startup of the CRUSA WPF. This greenfield 4 MGD plant design includes ozonation for sulfide removal, GAC adsorption of total organic carbon (TOC) removal, post chemical treatment, and finished water storage/high-service pumping. The scope also included final design, permitting, bidding, and construction-phase services to install the two Upper Floridan Aquifer (UFA) raw water production wells and one Lower Floridan Aquifer (LFA) well.



## RECOGNIZED EXPERTS IN MUNICIPAL UTILITIES

Whether it's providing responsive service, quality deliverables, or innovative solutions to our clients, CHA is constantly striving to be better for our clients, our communities, and our employees. These efforts have resulted in recognition and awards for our firm and projects. Some of these include:

### Firm Awards



**Zweig Group Hot Firm Award Winner** | The Zweig Group Hot Firm List recognizes the 100 fastest-growing A/E/C firms in the United States and Canada. These firms have outperformed the economy and competitors to become leaders in their chosen fields.



**PSMJ/Client Savvy Premiere Award for Client Satisfaction** | The award honors firms that deliver the best client experience based on data collected from client surveys. CHA has won this award twice, in 2019 and in 2016.



**Florida Trend Best Companies To Work For** | To identify Florida's best employers, Florida Trend partners with the Best Companies Group, which surveys firms that chose to participate. The survey includes a questionnaire about company policies, practices, and demographics and includes two open-ended questions that is sent to firm employees to be anonymously filled out.



**PSMJ AEC Employer of Choice Award** | With survey questions that dig deep into employees' fundamental sense of how they contribute and connect with colleagues, leaders, projects, clients, and missions, this data-driven award separates high-performing firms and individuals from the pack and gets employees to put forth difference-making discretionary effort to meet a firm's growth objectives, even when no one is looking.



**Orlando Business Journal Best Places To Work** | Winners represent firms with workforces that range from 10 to 500-plus employees in Orange, Seminole, Osceola, Lake, Volusia, and Brevard counties. Participants are judged and receive a performance score based on the results of an employee survey.