



RFQ #2023-010

# GENERAL CIVIL ENGINEERING, BUILDING ARCHITECTURAL, AND LANDSCAPE ARCHITECTURAL CONSULTING SERVICES

SUBMITTED TO:

**CITY OF MARGATE**

5790 Margate Boulevard | Margate, Florida

954.972.6454

SUBMITTED BY:

**MCKIM & CREED**

Boca Raton, FL

561.910.8630 | [mckimcreed.com](http://mckimcreed.com)



## 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: McKim & Creed, Inc.

Address: 6501 Congress Avenue, #160, Boca Raton, FL 33487

Name of Signer Robert Garland, P.E., DBIA, ENV SP  
(please print)

Signature:  Date: April 12, 2023

Telephone: 561.910.8630 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.

## 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: McKim & Creed, Inc.

Address: 6501 Congress Avenue, #160, Boca Raton, FL 33487

Name of Signer Chase Dickinson, PE  
(please print)

Signature:  Date: April 14, 2023

Telephone: 561.910.8630 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.





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TRANSMITTAL LETTER

April 19, 2023



Mr. Spencer Shambray  
Office of the Purchasing Division  
City of Margate  
City Hall, Finance Department  
2nd Floor  
5790 Margate Boulevard  
Margate, FL 33063

**RE: RFQ #2023-010: General Civil Engineering, Building Architectural, and Landscape Architectural Consulting Services**

Dear Mr. Shambray and Members of the Selection Committee:

The City of Margate (City) will benefit from partnering with a local, multidisciplinary engineering firm that has demonstrated experience providing diverse assignments under similar continuing services agreements. The City recognizes that selecting a team with key members capable of providing design, permitting, and construction phase services for multiple project types will bring added value to the contract.

**McKim & Creed has completed over 2,000 assignments on 60 current professional services contracts across the state and will leverage lessons learned – and success stories – to deliver practical and resilient solutions that achieve your short-term operational needs while providing the flexibility to meet your long-term planning goals.**

Chase Dickinson, PE, will serve as your project manager. As the attached proposal demonstrates, he has provided diverse planning, design, construction, and operational assistance services under similar contracts throughout South Florida. Chase is located in our Boca Raton office, has previously provided services for the City under a similar contract, will be able to provide responsive and cost-effective services on routine assignments, and is readily available to respond to emergencies or resolve unforeseen operational issues.

**Chase is a proficient hydraulic modeler and will ensure that recommendations for pipeline, lift station, and pump station improvement projects are sized to optimize operational performance, minimize energy costs, and to meet future growth needs.**

Our proposed project manager will be supported by seven (7) technical leaders, each recognized as subject matter experts by their peers. This will allow our team to address any unique planning, design, permitting, or construction issues that may arise. The technical leaders will also serve as advisors to the City to resolve unforeseen operational issues or to maintain levels of service following natural disasters to protect the environment and maintain the quality of life for your residents.

#### CASE STUDY - EMERGENCY RESPONSE

The influent pump station at the City of Clearwater's Marshall Street WWTP failed during Hurricane Hermine. Our team mobilized when conditions were safe, performed a condition assessment, and developed an interim solution to bring the pump station back online and minimize overflows. Our team designed and supervised the construction of a 25 mgd temporary bypass pumping system, with back-up generator and controls, and had the system operational within 3 days of the Hurricane. The interim system was in operation for 12 months while the fast-tracked design, procurement, and construction of the permanent facility were completed.

All major engineering disciplines anticipated under this contract will be provided in-house. The ability of Chase to control resources will protect project schedules and budgets, while enhancing the quality of the deliverables.

In addition to typical engineering services, our firm also provides the following unique operational support and field investigation services in-house that will bring even further value to the City:

**Instrumentation and Controls (SCADA)**

McKim & Creed's team includes experienced programmers/engineers for SCADA, PLC, and telemetry systems; as well as system troubleshooting specialists to enhance system communications and optimize network operations. A snapshot of our services includes:

- ▶ Master Planning
- ▶ Testing/Startup/Training
- ▶ Disaster Recovery
- ▶ Standards Development
- ▶ Troubleshooting
- ▶ PLC/SCADA Programming

**Water Loss Management**

McKim & Creed can provide real-time monitoring to detect and analyze water distribution systems to reduce nonrevenue water and improve operational performance. Our in-house field crews evaluate the integrity of water distribution systems by locating and pinpointing leaks. We also use predictive analysis tools to predict future leaks, which can serve as the basis of a condition assessment and asset management program for city-wide water main replacement programs.

**Renewal and Replacement**

Our renewal and replacement (R&R) specialists can assess your wastewater collection system's aging assets and develop a program to methodically prioritize system improvements. Typical in-house services include:

- ▶ Inflow/Infiltration (I&I) Analysis
- ▶ CCTV Pipeline Inspections
- ▶ Flow Monitoring
- ▶ Smoke & Dye Testing
- ▶ Repair & Rehabilitation Design
- ▶ Sewer System Evaluation Surveys

**Trenchless Technologies**

Our firm is a leader in using horizontal directional drilling (HDD) and other trenchless technologies to install pipes under surface water bodies and environmentally sensitive features. Shallow HDD is also being used on city-wide water main replacement projects to reduce project costs and minimize community impacts during construction.

We look forward to partnering with the City on this contract and serving as financial and environmental stewards for your customers. By signing below, we acknowledge that we both have signatory authority to bind McKim & Creed on this contract.

Sincerely,  
  
McKim & Creed, Inc.



**Robert Garland, PE, DBIA, ENV SP**  
Vice President  
5701 Division Drive, Suite A  
Fort Myers, FL 33905  
RGarland@mckimcreed.com  
239.220.2606



**Chase Dickinson, PE**  
Project Manager  
6501 Congress Avenue, #160  
Boca Raton, FL 33487  
CDickinson@mckimcreed.com  
561.910.8630





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## CHECKLIST

**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)





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## CORPORATE HISTORY

# 3 CORPORATE HISTORY



## Firm History

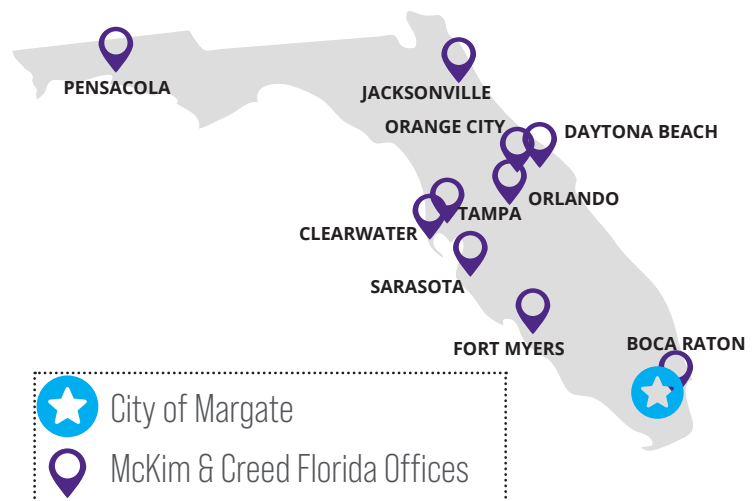
McKim & Creed has long been established on the East Coast of Florida since its acquisition of Briley Wild & Associates in 1992. Through that lineage, we have been providing professional utility and civil engineering services for over 60 years. It is our rich history of relevant experience, and an understanding of the area's coastal communities, that make our team uniquely qualified to meet the City of Margate's goals and contract needs.

As an employee-owned company, our more than 800 employees located in 30 offices throughout the United States bring dedication and passion to solving problems and making a positive impact for the communities they serve. McKim & Creed has been regularly providing continuing engineering services to clients on the East Coast of Florida for over 6 decades and will provide the City the same level of service and attention regardless of the size of the assignment.

A partnership with McKim & Creed means that we will proactively seek opportunities to increase levels of service for your customers while maintaining affordable rate structures. We will advise you of options that ensure the an effective use of capital funds. Our team will also partner with the City to identify traditional and creative funding sources and explore collaborative delivery options to further protect your investments.

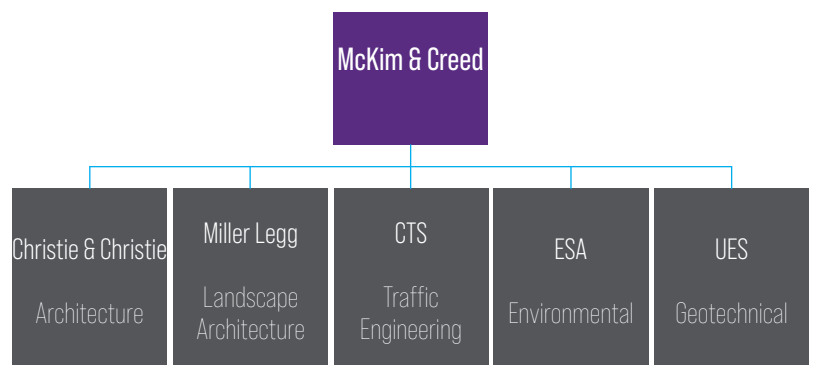
This proposal will demonstrate that our team has the requisite balance of experience, qualifications and in-house capabilities to provide cost-effective and responsive services for the City.

McKim & Creed is a national firm with a local presence. Our team of local professionals will provide the same attention to detail to all work assignments, regardless of size. Our Boca Raton office is strategically located to provide responsive and cost-effective services for this contract.



**McKim & Creed has put together a multidisciplinary team able to provide the majority of the planning, permitting, design, and construction tasks in-house. This will enhance the quality of our deliverables and protect project schedules and budgets.**

**However, we have added specialty subconsultants to our team to complement our in-house services and to resolve any unique challenges that may arise in a timely and cost-effective manner.**





# Specialty Consultants

## Christie & Christie, Inc

Role: Architecture



Christie & Christie, Inc. is an architectural consulting company specializing in the design of municipal buildings and facilities. They have worked with McKim & Creed as a consultant for multiple facility improvement, rehabilitation, and hardening projects.

### Unique Qualifications and Benefits

- ✓ Specializes in functional designs, operator-friendly layouts, and safe work environments
- ✓ Designs incorporate energy efficient, resilient, and sustainable features
- ✓ More than two decades of experience with McKim & Creed

## Miller Legg

Role: Landscape Architecture/Arborist



Miller Legg has been providing urban planning, landscape architecture, and urban design services in South Florida for nearly 60 years. Their local team creates quality spaces through functional design, site-sensitive planning, and aesthetic enhancements.

### Unique Qualifications and Benefits

- ✓ Local, certified arborist is readily available for routine or emergency assignments
- ✓ Local projects include recreational facilities, urban developments, transportation corridors, and open spaces
- ✓ Enhanced corridors for utility, drainage, and roadway improvement projects

## CTS Engineering

Role: Traffic Engineering



CTS will provide traffic planning and engineering services and will support our team for roadway, sidewalk, and complete street design assignments. They have partnered with South Florida communities for almost 15 years and

have developed mutually beneficial relationships with local regulatory agencies, including FDOT.

### Unique Qualifications and Benefits

- ✓ Performed diverse planning and design services for southeast Florida municipalities
- ✓ Performs pedestrian, bicyclist, and ADA compliance studies
- ✓ FDOT pre-qualified for major work types anticipated under this contract

## Environmental Science Associates (ESA)

Role: Environmental



ESA has supported our team on developing practical and cost-effective solutions for projects with challenging wetland, endangered species, and protected trees/plants. Services also include surveys for cultural resources.

### Unique Qualifications and Benefits

- ✓ Specializes in natural and cultural resources
- ✓ Provides permit compliance support during construction for environmental issues
- ✓ Complements our in-house services for the development of Environmental Resource Permit applications to support HDD designs

## Universal Engineering Services (UES)


Role: Geotechnical




UES has supported McKim & Creed on geotechnical, materials testing, and forensic engineering services on diverse projects throughout Florida. Projects have ranged from utilities to roadways to municipal buildings.

### Unique Qualifications and Benefits


- ✓ Also provides building code compliance, threshold inspections and environmental consulting support
- ✓ Local knowledge of subsurface conditions
- ✓ FDOT Pre-qualified for major work types anticipated under this contract




#26 OVERALL DESIGN FIRM IN THE SOUTHEAST



TOP 130 ENVIRONMENTAL FIRM IN THE U.S.



TOP 150 DESIGN FIRM (TOP 250 SINCE 1992)



TOP 50 TRENCHLESS DESIGN FIRM

INDUSTRY RANKINGS

Rankings as per *Engineering News-Record (ENR)* and *Trenchless Technology Magazine*



## 4

## CORPORATE QUALIFICATIONS



## 4 CORPORATE QUALIFICATIONS

### Benefits to The City

The City of Margate will benefit from partnering with a local multidisciplinary engineering firm that has demonstrated experience providing diverse assignments under similar continuing services agreements. The City recognizes that selecting a team with key members capable of providing design, permitting, and construction phase services for multiple project types will bring added value to the contract.

### SIMILAR CONTRACT EXPERIENCE

McKim & Creed has been providing general engineering and consulting services to public agencies for over 60 years. Many of our projects were performed to support Florida municipalities and were delivered under continuing services contracts that included services anticipated under this contract. McKim & Creed holds more than 60 continuing services contracts throughout Florida and understands how to provide quality, cost-effective, and responsive services for a broad range of project types.

**“Work assignments delivered by McKim & Creed over the last 20 years were completed on time and within budget - with only a few exceptions.”**

**Mark Simpson, Manatee County**

The City can expect our team to deliver the same level of detail, assurance of quality and commitment on all assignments under this contract, regardless of size, to meet the objectives of all stakeholders. Our firm - and proposed team members - are experienced providing the range of services anticipated under this contract.

In addition to our history completing assignments under similar contracts, we have a successful track record of delivering projects with tight schedules on time and within budget. We have the available resources to absorb expedited schedules for fast-tracked projects or to respond in times of emergencies, including natural or man-made disasters or operational upsets at your treatment facilities.



### McKim & Creed In-House Services

#### Wastewater Facilities

- ▶ Gravity Sewer Systems
- ▶ Vacuum Sewer Systems
- ▶ Lift Stations
- ▶ Force Mains
- ▶ Wastewater Treatment
- ▶ Unit Processes
- ▶ Repair & Rehabilitation

#### Water Facilities

- ▶ Water Demand Studies
- ▶ Hydraulic Modeling
- ▶ Water Quality Modeling
- ▶ Lime Softening
- ▶ Storage Tanks
- ▶ Pumping Systems
- ▶ Transmission Mains/Pipelines
- ▶ Distribution Systems
- ▶ Water Loss Management

#### Forensic Engineering

- ▶ Structural Analyses
- ▶ Building Renovation/Hardening
- ▶ MEP

#### Reclaimed Water

- ▶ Reuse System Planning
- ▶ Pumping/Distribution
- ▶ Reuse Management

#### Electrical

- ▶ Power Transmission
- ▶ Backup Power
- ▶ Lightning Protection

#### SCADA

- ▶ Design & Implementation
- ▶ IPLC and SCADA Programming
- ▶ System Planning, Installation & Training

#### Survey & Mapping

- ▶ Conventional Land Surveying
- ▶ Hydrographic Surveying
- ▶ 3-D Imaging/Laser Scanning
- ▶ MoDaC Mobile Data
- ▶ Geographic Information System (GIS)
- ▶ Subsurface Utility Engineering

#### Site/Civil

- ▶ Roadways/Streets
- ▶ Maintenance of Traffic
- ▶ Sidewalks/ADA Compliance
- ▶ Drainage/Stormwater
- ▶ Parks & Recreation
- ▶ Streetscape/Complete Streets

#### Funding Assistance

## DEMONSTRATED CONTINUING SERVICE CONTRACT EXPERIENCE

Our success with delivering projects under continuing services contracts is due to our overall approach that focuses on working collaboratively with our clients, and providing practical, innovative and sustainable solutions. McKim & Creed offers a complete suite of professional engineering services that includes all services expected under this contract. **Table 4.1** provides a snapshot of the years of continuing services contracts that our firm has maintained for decades.

**Table 4.1 | Continuing Service Contract Experience**

Scope of Work	Sarasota County	City of Clearwater	City of St. Petersburg	Pinellas County	Charlotte County	Manatee County
<b>Number of Assignments</b>	<b>16</b>	<b>276</b>	<b>108</b>	<b>103</b>	<b>18</b>	<b>228</b>
<b>TYPE OF SERVICE</b>						
Master Planning	●	●	●	●		●
Design	●	●	●	●	●	●
Permitting	●	●	●	●	●	●
Construction	●	●	●	●	●	●
Operational Support	●	●	●	●	●	●
<b>DISCIPLINE OR TASK</b>						
Water Distribution	●	●	●	●	●	●
Water Treatment	●	●	●	●	●	●
Wellfields/Storage	●	●	●	●	●	●
Wastewater Collection	●	●	●	●	●	●
Wastewater Treatment	●	●	●	●	●	●
Pump/Lift Stations	●	●	●	●		●
Reclaimed Water Distribution	●	●	●	●	●	●
Forensic Engineering	●	●		●		●
Building Renovation/MEP	●	●	●	●	●	●
Stormwater Drainage	●	●	●	●	●	●
Transportation/Traffic	●	●	●	●	●	●
Streetscape Improvements		●		●		●
Parks & Recreation	●	●	●	●	●	●
Grants/Funding	●	●	●	●	●	●
Open Space Design	●	●	●	●	●	●
Environmental	●			●		●
Structural	●	●	●	●	●	●
Site/Civil	●	●	●	●	●	●
Landscape Architectural		●			●	●
Arborist			●	●		●
Geotechnical	●	●	●	●	●	●
Architectural	●	●	●	●		●
I&C/SCADA/Electrical	●	●	●	●	●	●

## DEMONSTRATED PROJECT EXPERIENCE

Our team has met with your staff and understands the types of projects anticipated under this contract. Ten (10) reference projects have been selected to highlight the diverse experience that our proposed team members have recently completed.

**As required by the Request for Qualifications, all reference projects were completed within the last 5 years in Florida.**

**Table 4.2** summarizes the relevance of each of the reference projects. Complete project abstracts are included in the attached Standard Form 330. The abstracts will demonstrate that the projects were completed on time, within budget, and to the satisfaction of key internal and external stakeholders.

Five (5) of the reference projects were delivered under similar general engineering contracts. These include the two (2) City of Gulf Breeze projects ; and the City of Palm Coast, City of Largo and Manatee County projects. The other projects demonstrate our team's depth and breadth to develop and deliver programs ranging from city-wide water main replacement projects to \$200 million wastewater treatment plant upgrades using design-build to challenging lift station and sewer main replacement projects. The City will benefit from this vast experience.

	Services				Project Type									
	Study	Design	Permitting	Construction	Replace AC, Aged, and/or Undersized Water Mains	Replace and/or Renovate Lift Stations	Replace Sewer Force Mains/Collection	WWTP Improvements/Rehabilitation	WTP Improvements/Rehabilitation	Structural Analysis of Facilities	Building/Facility Renovations	Roadway/Drainage Improvements	Parks/Recreation Improvements	Complete Streets/Streetscapes
City of Sarasota   LS 87 Phases 1-3	●	●	●	●	●	●	●			●		●		
City of Tampa   FY 19 Water Main Replacement Design-Build		●	●	●	●							●		
Hillsborough County   Northwest Regional WRF Expansion	●	●	●	●			●	●		●	●			
City of Gulf Breeze   Fairpoint to Shoreline Multi-Use Pathway	●	●	●	●								●	●	●
Palm Coast   Backup Power to 30 Pump Stations	●	●	●	●		●				●				
City of Largo   Hurricane Hermine SSES	●	●	●	●			●							
City of Gulf Breeze   Wetlands Trail Boardwalk	●	●	●	●								●	●	●
Manatee County   Water Treatment Plant Biological Treatment Unit	●	●	●	●					●					
City of Fort Myers   Winkler Water Main Replacement		●	●	●	●									
City of Miramar   Water Loss Management	●	●			●									





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## PROJECT TEAM



## 5 PROJECT TEAM

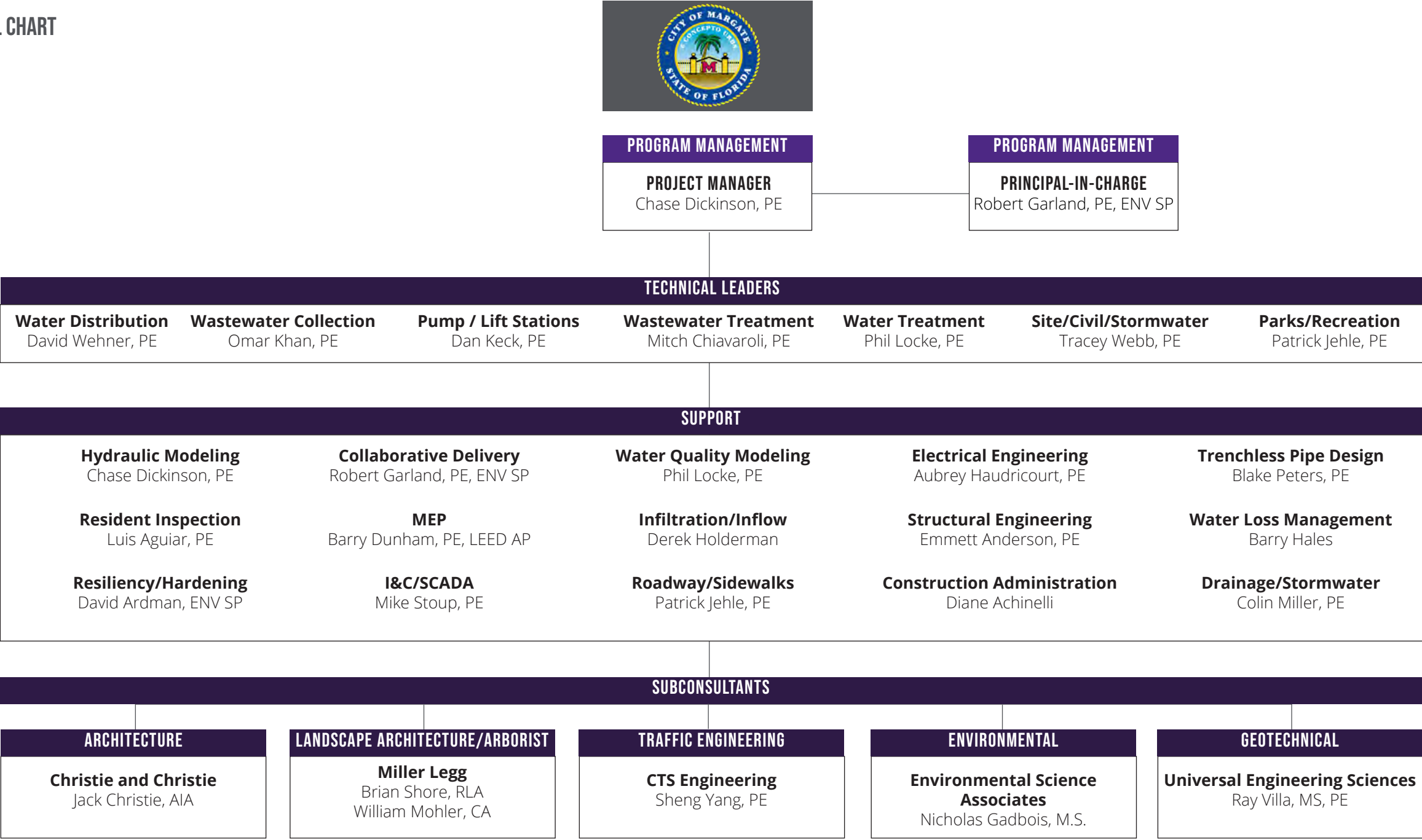


The name, title, and years with their respective firms are summarized in **Table 5.1**. An Organizational Chart delineating the management of the team and each person's role on this contract is presented on page 13. No additional information is included in this tab pursuant to RFQ requirements.

**Table 5.1 | Staff Experience Overview Matrix**

	Title	Years with Firm
<b>CONTRACT MANAGEMENT</b>		
Chase Dickinson, PE	Project Engineer	1
Robert Garland, PE	Vice President, Regional Director	10
<b>TECHNICAL LEADERS</b>		
David Wehner, PE	Senior Project Manager	21
Omar Khan, PE	Project Manger	1
Dan Keck, PE	Regional Manager	1
Mitch Chiavaroli, PE	Engineering Group Leader	23
Phil Locke, PE	Senior Project Manager	16
Tracey Webb, PE	Senior Project Manager	3
Patrick Jehle, PE	Regional Manager	15
<b>IN-HOUSE-SUPPORT STAFF</b>		
Aubrey Haudricourt, PE	Engineering Group Manager	9
Blake Peters, PE	Senior Project Manager	13
Luis Aguiar, PE	Project Engineer	1
Barry Dunham, PE, LEED AP	Regional Manager	2
Derek Holderman	Wet Weather Program Operations Manager	2
Emmett Anderson, PE	Senior Project Engineer	6
Barry Hales	Regional Manager	18
David Ardman, ENV SP	Business Development Manager	2
Mike Stoup, PE	Vice President, Manager of Electrical/Controls Group	7
Diane Achinelli	Senior Project Administrator	13
Colin Miller, PE	Senior Project Manager	1
<b>SUBCONSULTANTS</b>		
Jack Christie, AIA (Christie and Christie)	Architect	15
Brian Shore, RLA (Miller Legg)	Senior Landscape Architect	22
William Mohler, CA (Miller Legg)	Certified Arborist	9
Sheng Yang, PE (CTS Engineering)	Senior Engineer	22
Nicholas Gadbois, M.S. (ESA)	Senior Environmental Scientist	15
Ray Villa (UES)	South Florida Division Branch Manager	19

5 ORGANIZATIONAL CHART  
City of Margate







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**PERSONNEL ASSIGNED**





## PROVEN EXPERIENCE

The City recognizes the benefit of selecting a team that is managed and staffed with key members capable of providing design, permitting, and construction phase services for multiple project types.



**Chase Dickinson, PE**  
**PROJECT MANAGER**

Chase Dickinson, PE will serve as your Project Manager. He has successfully completed projects for all assignments anticipated under this contract and has diverse planning, permitting, design, and construction experience.

- ▶ Expert in gravity, vacuum and low pressure wastewater collection systems
- ▶ Leader in water transmission and distribution system modeling
- ▶ Experienced with water and wastewater treatment facility evaluations



**Robert Garland, PE**  
**PRINCIPAL-IN-CHARGE**

Robert H. Garland, PE will be the Principal-in-Charge and has full signatory authority on behalf of the team. He will also serve as the back-up project manager to ensure continuity of communication in Chase's unforeseen absence or during times of emergency. Robert is a former WWTP operator and former licensed contractor and will provide input during the planning and design phases to develop operator-friendly, safe, and constructable designs.

- ▶ Former Licensed Contractor - effective constructability reviews and practical bid packages
- ▶ Former Licensed WWTP Operator - operator-friendly planning and design solutions
- ▶ Experience with funding assistance and compliance - will develop a strategy to optimize funding sources

**Chase and Robert will be supported by seven (7) technical leaders, each recognized as subject matter experts by their peers.**



**David Wehner, PE**  
**WATER DISTRIBUTION**

David Wehner, PE will be the water distribution lead and brings extensive water main replacement experience to the City, including the replacement of asbestos concrete pipe. He served in a similar role for the City of Tampa's water main replacement program which included water pressure, quality, and flow improvements to 20 residential neighborhoods and business districts.

- ▶ Neighborhood friendly execution of water main replacement projects in congested corridors
- ▶ Recognized horizontal directional drilling design specialist
- ▶ Advanced FDOT Maintenance of Traffic Training - incorporates MOT into designs to minimize community impacts



**Omar Khan, PE**  
**WASTEWATER COLLECTION**

Omar Khan, PE will be the wastewater collection lead. Omar has served as a project manager and/or lead engineer on multiple wastewater collection projects throughout south Florida. He has also designed and supported related infrastructure projects, including pump stations, roadway restoration, and drainage improvements.

- ▶ Significant experience in replacing asbestos cement pipes
- ▶ Engineered and managed multi-million-dollar septic-to-sewer conversion projects
- ▶ Cross-trained to provide design of water main, roadway, and drainage improvements



**Dan Keck, PE**  
**PUMP/LIFT STATIONS**

Dan Keck, PE offers more than 19 years of experience in the planning, design, permitting, and construction of complex pump station and lift station rehabilitation, hardening, and replacement projects. He has an in-depth knowledge of numerous modeling platforms and also provides operational support to enhance pumping efficiencies and reduce operating costs.

- ▶ Extensive experience managing multi-disciplinary teams
- ▶ Understands the importance of designing facilities in tandem with City staff, including operators and maintenance staff
- ▶ Nationally recognized pump station design and troubleshooting specialist



**Mitch Chiavaroli, PE**  
WASTEWATER TREATMENT

Mitch Chiavaroli, PE will be the wastewater treatment lead and has more than 30 years of relevant experience. Throughout his career, Mitch has been involved in design and construction of more than 30 wastewater treatment projects, ranging from process improvements to new plant construction. He has provided condition assessment and developed prioritized capital improvement plans for facilities approaching 100 mgd.

- ▶ Oversight of \$300 million of wastewater infrastructure projects
- ▶ Designs for plant optimization to maintain reliable services and reduce operating costs
- ▶ Maintenance of plant operations (MOPO) is integrated into facility improvement designs



**Phil Locke, PE**  
WATER TREATMENT

Phil Locke, PE offers 27 years of experience in the planning, design, permitting and construction management of water supply, treatment, and storage facilities. He has developed a proactive approach to provide innovative solutions to improve operational performance and system sustainability. Under similar continuing service contracts, Phil has performed process optimization studies for plants ranging from traditional lime softening and reverse osmosis facilities to cutting edge carbon absorption facilities. Phil also provides water supply studies for groundwater, surface water, and hybrid sources.

- ▶ Lead engineer for multiple award-winning water treatment projects
- ▶ Process optimization specialist to reduce energy, chemical, and operating costs
- ▶ Develops LEED certified solutions for hardening, renovating, and remodeling operational facilities



**Tracey Webb, PE**  
SITE, CIVIL, STORMWATER

Tracey Webb, PE is experienced in the planning, design, and construction of public works projects ranging from roadway maintenance evaluations to ADA compliance upgrades for sidewalks and roadway crossings. Her 21 years of experience on roadway and stormwater related projects will protect the City's investment and increase levels of service. Tracey also has a strong understanding of critical maintenance of traffic and construction sequencing plan development with an emphasis on minimizing impacts to local users.

- ▶ Diverse experience in civil and transportation engineering
- ▶ Ability to integrate drainage and roadway enhancement plans with utility projects
- ▶ Experienced in resolving localized and regional stormwater issues



**Patrick Jehle, Jr., PE**  
PARKS/RECREATION

Patrick Jehle, Jr. PE has over 15 years of experience in improving the quality of life for communities, including extensive experience with the design of public sidewalks and pedestrian facilities in accordance with ADA/PROWAG, FDOT and Local Agency standards. He also provides complete streets designs, parks and playground facility redevelopment, brownfield development, and open space designs for municipal clients.

- ▶ Local Agency Program (LAP) Experience
- ▶ Specific experience with the multi-use trails, recreational facilities and pedestrian facilities
- ▶ Proven facilitator of public involvement activities

We have assembled a multi-disciplined team of engineers, construction professionals, and operational specialists specifically to deliver projects anticipated under this contract. Our in-house team is cross-trained to provide multiple services which leads to timely and responsive deliverables on work assignments under general engineering contracts. Refer to Table 6.1 for our team's diverse qualifications.



# PERSONNEL ASSIGNED

Our firm - and proposed team members - are experienced providing the wide range of services anticipated under this contract. **Table 6.1** provides a snapshot of the diverse capabilities of our key team members, the ability to meet the requirements of this RFQ, and our firm's demonstrated experience on similar general engineering contracts - contracts managed and performed by the team members proposed for this contract.

**TABLE 6.1 STAFF EXPERIENCE OVERVIEW MATRIX**

	Key Services Provided				Project Type										
	Planning	Design	Permitting	Construction	Water Distribution	Water/Wastewater Treatment	Wastewater Collection	Reclaimed Water Distribution	Pump/Lift Stations	Transportation/Traffic	Streetscapes	Stormwater/Drainage	Building Renovations/Hardening	Parks & Recreation	Environmental
Chase Dickinson, PE <i>Project Manager</i>	●	●	●	●	●	●	●	●	●			●			
Robert Garland, PE, ENV SP <i>Principal-in-Charge</i>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
David Wehner, PE <i>Water Distribution</i>	●	●	●	●	●	●	●	●	●		●	●			●
Omar Khan, PE <i>Wastewater Collection</i>	●	●	●	●	●	●	●	●	●			●			
Dan Keck, PE <i>Pump/Lift Stations</i>	●	●	●	●	●	●	●	●	●			●			●
Mitch Chiavaroli, PE <i>Wastewater Treatment</i>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Phil Locke, PE <i>Water Treatment</i>	●	●	●	●	●	●	●	●	●			●	●		●
Tracey Webb, PE <i>Site, Civil, Stormwater</i>	●	●	●	●	●		●	●	●	●	●	●			●
Patrick Jehle, PE <i>Parks/Recreation</i>	●	●	●	●	●		●	●	●	●	●	●		●	●
Aubrey Haudricourt, PE <i>Electrical Engineer</i>	●	●	●	●	●	●	●	●	●				●		
Blake Peters, PE <i>Trenchless Pipe Design</i>	●	●	●	●	●	●	●	●	●			●		●	●
Luis Aguiar, PE <i>Resident Inspection</i>	●	●	●	●	●	●	●	●	●			●			
Barry Dunham, PE, LEED AP <i>MEP</i>	●	●	●	●		●							●		
Emmett Anderson, PE <i>Structural Engineering</i>	●	●	●	●		●			●	●			●	●	
Barry Hales <i>Water Loss Management</i>	●	●	●	●	●							●			
David Ardman, ENV SP <i>Resiliency/Hardening</i>	●	●	●	●	●	●	●	●	●	●			●	●	
Mike Stoup, PE <i>I&amp;C / SCADA</i>	●	●	●	●	●	●	●	●	●			●	●		
Diane Achinelli <i>Construction Administration</i>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Colin Miller, PE <i>Drainage/Stormwater</i>	●	●	●	●								●		●	●
Jack Christie (Christie and Christie) <i>Architecture</i>	●	●	●	●		●			●				●	●	●
Brian Shore, RLA (Miller Legg) <i>Landscape Architecture</i>	●	●	●	●						●	●			●	●
William Mohler, CA (Miller Legg) <i>Arborist</i>										●	●			●	●
Sheng Yang, PE (CTS Engineering) <i>Traffic Engineering</i>	●	●	●	●						●	●	●			
Nicholas Gadbois, M.S. (ESA) <i>Environmental</i>	●	●	●	●	●	●	●	●	●	●	●			●	●
Ray Villa (UES) <i>Geotechnical</i>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

# TEAM AVAILABILITY

Our team has the available resources to complete projects assigned under this contract. Because of our highly skilled work force, staff availability can be readily managed to meet the project requirements. In the event of a need to increase productivity, we have an exceptional workshare program that will allow us to surge staff assignments to meet the City’s needs. The current and projected workloads of our key personnel were carefully considered when assembling the team. The key personnel proposed are all available to perform on this contract, as demonstrated by **Table 6.2** below.

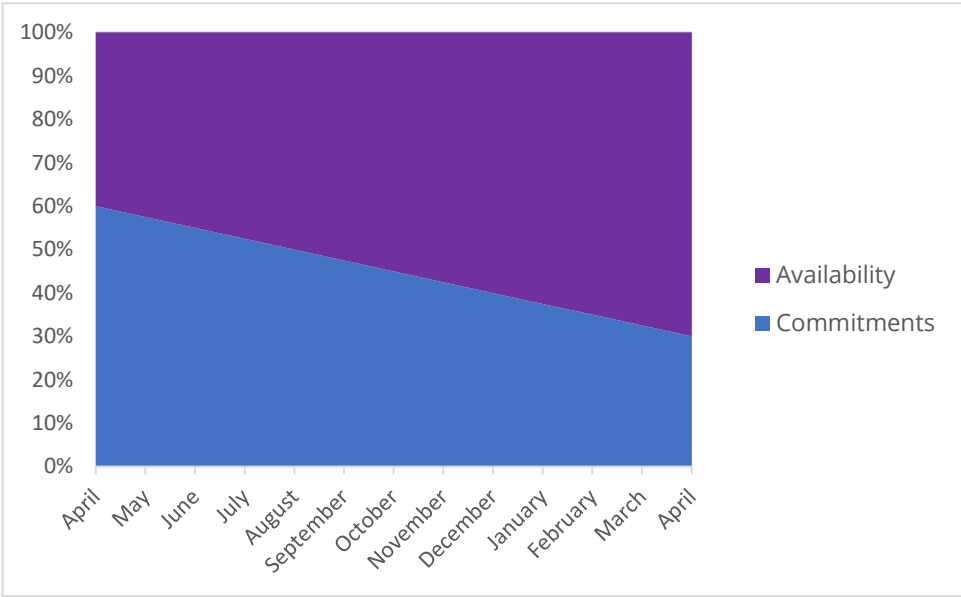
**TABLE 6.2 AVAILABILITY OF KEY PERSONNEL/TEAM LEADERS FOR DURATION OF PROJECT**

	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Chase Dickinson, PE   <i>Project Manager</i>										
Robert Garland, PE, ENV SP   <i>Principal-in-Charge</i>										
David Wehner, PE   <i>Water Distribution</i>										
Omar Khan, PE   <i>Wastewater Collection</i>										
Dan Keck, PE   <i>Pump/Lift Stations</i>										
Mitch Chiavaroli, PE   <i>Wastewater Treatment</i>										
Phil Locke, PE   <i>Water Treatment</i>										
Tracey Webb, PE   <i>Site, Civil, Stormwater</i>										
Patrick Jehle, PE   <i>Parks/Recreation</i>										

\*PURPLE BAR represents time available

McKim & Creed has brought together a robust group of industry experts, creating a team that has the depth, experience and local horsepower to form a strong bench to support the City. This includes specialty subconsultants to complement our staff. Each subconsultant has been contacted and has committed that they have the available resources required for this contract. **Table 6.3** below summarizes the team’s commitment and availability for the next year.

**TABLE 6.3 TEAM AVAILABILITY**



Of course, availability can be increased by redistributing workload among staff to accommodate any special project needs the City may have or any emergencies that may arise. We perform workload projections weekly; these projections include an evaluation of current project backlogs, projects under negotiation and opportunities being pursued ensuring projects start on track and finish on-time.





7

## PROFESSIONAL REGISTRATION



# *State of Florida*

## *Department of State*

I certify from the records of this office that MCKIM & CREED, INC. is a North Carolina corporation authorized to transact business in the State of Florida, qualified on May 2, 2011.


The document number of this corporation is F11000001885.

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 11, 2023, 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 Twenty-second day of  
February, 2023*



  
*Secretary of State*

Tracking Number: 8689995086CU

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<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>



[Department of State](#) / [Division of Corporations](#) / [Search Records](#) / [Search by Entity Name](#) /

## Detail by Entity Name

Florida Profit Corporation  
CHRISTIE & CHRISTIE, INC.

### Filing Information

Document Number P05000148777  
FE/EIN Number 20-3720963  
Date Filed 11/07/2005  
State FL  
Status ACTIVE  
Last Event REINSTATEMENT  
Event Date Filed 05/24/2017

### Principal Address

135 19th Ave SE  
Saint Petersburg, FL 33705

Changed: 03/23/2014

### Mailing Address

135 19th Ave SE  
Saint Petersburg, FL 33705

Changed: 03/23/2014

### Registered Agent Name & Address

CHRISTIE, JOHN D, II  
135 19TH AVE SE  
ST PETERSBURG, FL 33705

Name Changed: 05/24/2017

Address Changed: 05/24/2017

### Officer/Director Detail

#### **Name & Address**

#### **Title President**

CHRISTIE, JOHN D, II  
135 19th Ave SE  
Saint Petersburg, FL 33705

#### **Title Secretary**

CHRISTIE, DEBORAH  
135 19th Ave SE  
Saint Petersburg, FL 33705

### Annual Reports

Report Year	Filed Date
-------------	------------



# *State of Florida*

## *Department of State*

I certify from the records of this office that MILLER, LEGG & ASSOCIATES, INC. is a corporation organized under the laws of the State of Florida, filed on March 15, 1995.


The document number of this corporation is P95000021117.

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 16, 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 Sixteenth day of January, 2023*



  
*Secretary of State*

Tracking Number: 7409731975CC

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# *State of Florida*

## *Department of State*

I certify from the records of this office that CTS ENGINEERING, INC. is a corporation organized under the laws of the State of Florida, filed on October 8, 2009.


The document number of this corporation is P09000083589.

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 20, 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 Twentieth day of January,  
2023*



  
*Secretary of State*

Tracking Number: 8064454336CC

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# *State of Florida*

## *Department of State*

I certify from the records of this office that ENVIRONMENTAL SCIENCE ASSOCIATES CORPORATION is a California corporation authorized to transact business in the State of Florida, qualified on March 20, 2000.


The document number of this corporation is F00000001598.

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 March 24, 2023, 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 Twenty-fourth day of March,  
2023*



  
*Secretary of State*

Tracking Number: 4441279259CU

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# *State of Florida*

## *Department of State*

I certify from the records of this office that GFA INTERNATIONAL, INC. is a corporation organized under the laws of the State of Florida, filed on October 20, 1998.


The document number of this corporation is P98000089761.

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 20, 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 Twentieth day of January,  
2023*



  
*Secretary of State*

Tracking Number: 7855421186CC

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Ron DeSantis, Governor

Melanie S. Griffin, Secretary



## STATE OF FLORIDA

### BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE  
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

**DICKINSON, CHASE ORA**

2740 SW MARTIN DOWNS BLVD  
#103  
PALM CITY FL 34990

**LICENSE NUMBER: PE83325**

**EXPIRATION DATE: FEBRUARY 28, 2025**

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**GARLAND, ROBERT HYDE**

13861 AVON PARK CIRCLE #104  
FORT MYERS FL 33912

**LICENSE NUMBER: PE64329**

**EXPIRATION DATE: FEBRUARY 28, 2025**

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**WEHNER, DAVID C.**

4032 LIGUSTRUM DRIVE  
PALM HARBOR FL 34685

**LICENSE NUMBER: PE59541**

**EXPIRATION DATE: FEBRUARY 28, 2025**

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**KHAN, OMAR**

2464 NW 118 TERRACE  
CORAL SPRINGS FL 33065

**LICENSE NUMBER: PE75524**

**EXPIRATION DATE: FEBRUARY 28, 2023**

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**KECK, DANIEL WADE**

1365 HAMLET AVE  
CLEARWATER FL 33756

**LICENSE NUMBER: PE50489**

**EXPIRATION DATE: FEBRUARY 28, 2025**

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**CHIAVAROLI, MITCHEL A.**

239 176TH TERRACE DRIVE E  
REDINGTON SHORES FL 33708

**LICENSE NUMBER: PE56335**

**EXPIRATION DATE: FEBRUARY 28, 2025**

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**LOCKE, PHILLIP JAMES**

3332 HUNT CLUB DR.  
CLEARWATER FL 33761

**LICENSE NUMBER: PE57527**

**EXPIRATION DATE: FEBRUARY 28, 2025**

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**WEBB, TRACEY LYN**

1751 FIRCREST CT  
WESLEY CHAPEL FL 33543

**LICENSE NUMBER: PE88356**

**EXPIRATION DATE: FEBRUARY 28, 2025**

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**JEHLE, D. PATRICK JR.**

1206 N. PALAFOX STREET  
PENSACOLA FL 32501

**LICENSE NUMBER: PE71528**

**EXPIRATION DATE: FEBRUARY 28, 2025**

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**HAUDRICOURT, AUBREY ARMAND**

51 ISLAND WAY  
UNIT 1005  
CLEARWATER FL 33767

**LICENSE NUMBER: PE66861**

**EXPIRATION DATE: FEBRUARY 28, 2025**

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**PETERS, BLAKE**

6527 KIMLINDA LN.  
SARASOTA FL 34243

**LICENSE NUMBER: PE64429**

**EXPIRATION DATE: FEBRUARY 28, 2025**

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**AGUIAR, LUIS ALBERTO**

12549 WESYHAVEN WAY  
FORT MYERS FL 33913

**LICENSE NUMBER: PE95727**

**EXPIRATION DATE: FEBRUARY 28, 2025**

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**DUNHAM, BARRY A JR**

3064 GRANDVIEW AVE  
CLEARWATER FL 33759

**LICENSE NUMBER: PE69142**

**EXPIRATION DATE: FEBRUARY 28, 2025**

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**SPECIAL INSPECTOR NUMBER: 0666**

**ANDERSON, AUGUSTUS EMMETT III**

175 COUNTRY BROOK AVENUE  
PONTE VEDRA FL 32081

**LICENSE NUMBER: PE34779**

**EXPIRATION DATE: FEBRUARY 28, 2025**

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**STOUP, G. MICHAEL**

16012 GLEN HAVEN DRIVE  
TAMPA FL 33618

**LICENSE NUMBER: PE65702**

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**MILLER, COLIN TYSON**

4014 MOUNTAIN SPRINGS LN  
TAMPA FL 33624

**LICENSE NUMBER: PE61775**

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Ron DeSantis, Governor

Melanie S. Griffin, Secretary



**STATE OF FLORIDA  
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

**BOARD OF ARCHITECTURE & INTERIOR DESIGN**

THE ARCHITECT HEREIN IS LICENSED UNDER THE  
PROVISIONS OF CHAPTER 481, FLORIDA STATUTES

**CHRISTIE, JOHN D**

CHRISTIE & CHRISTIE INC  
135 19TH AVE SE  
ST PETERSBURG FL 33705

**LICENSE NUMBER: AR0016722**

**EXPIRATION DATE: FEBRUARY 28, 2025**

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Ron DeSantis, Governor

Julie I. Brown, Secretary



**STATE OF FLORIDA  
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

**BOARD OF LANDSCAPE ARCHITECTURE**

THE LANDSCAPE ARCHITECT HEREIN HAS REGISTERED UNDER THE  
PROVISIONS OF CHAPTER 481, FLORIDA STATUTES

**SHORE, BRIAN R**

5747 NORTH ANDREWS WAY  
MILLER LEGG & ASSOCIATES, INC.  
FORT LAUDERDALE FL 33309

**LICENSE NUMBER: LA6666770**

**EXPIRATION DATE: NOVEMBER 30, 2023**

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Hereby Announces That

*William Ripley Mohler, III*

Has Earned the Credential

**ISA Certified Arborist ®**

By successfully meeting ISA Certified Arborist certification requirements through demonstrated attainment of relevant competencies as supported by the ISA Credentialing Council

Caitlyn Pollihan  
CEO & Executive Director

15 February 2014

Issue Date

30 June 2023

Expiration Date

FL-6601A

Certification Number





Licensee Information

Name:	VILLA, REINALDO JESUS (Primary Name)
Main Address:	12868 NW 8TH STREET MIAMI Florida 33182
County:	DADE

License Information

License Type:	Professional Engineer
Rank:	Prof Engineer
License Number:	72242
Status:	Current,Active
Licensure Date:	01/29/2011
Expires:	02/28/2025

Special Qualifications	Qualification Effective
------------------------	-------------------------

Civil	08/05/2010
-------	------------

Print

Licensee

Name:	YANG, SHENG	License Number:	64802
Rank:	Professional Engineer	License Expiration Date:	02/28/2025
Primary Status:	Current	Original License Date:	07/12/2006
Secondary Status:	Active		

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
28935	Current	CTS ENGINEERING, INC.	Registry	12/16/2009	Registry	



8

## PROJECT MANAGEMENT



## 8 PROJECT APPROACH

### Interfacing with the City

All communications with the City will be through our assigned Project Manager, Chase Dickinson, or his designee. Our Principal-in-Charge, Robert Garland, will serve as a secondary point of contact to ensure continuity of communication in the absence of the project manager or during times of emergency.

To promote overall team collaboration, our project manager will establish regularly scheduled progress meetings and focused workshops on key project issues. These regular meetings will streamline communication and enhance problem-solving and decision-making by sharing ideas and promoting creativity as the team works through planning and design issues.

**Draft meeting minutes or conversation logs will be prepared by the Project Manager and forwarded to the City for review and acceptance prior to distribution to other stakeholders. Open and transparent communication is critical for managing real or perceived conflicts and protecting the City's interests.**

Consensus-based scoping documents will achieve the desired end result in an efficient, cost-effective, and reliable manner. Since there will be a wide variety of assignments under this contract, the specifics of the approach will vary based on the needs and goals of each work order. Each work order will be developed to meet stakeholder, operational, and financial objectives. Our goal is to develop consensus-based scoping documents that will achieve the desired outcome in an efficient and reliable manner.



### ON-SCHEDULE APPROACH

#### Design

- Obtain scope and schedule consensus with stake holders
- Hold weekly team meetings to discuss project status
- Update PlanTrax® biweekly for schedule conformance
- Reiterate outstanding issues on monthly invoices
- Develop critical path schedule

#### Permitting

- Conduct pre-application meetings with regulatory agencies during preliminary design
- Maintain conformance with permit requirements
- Document close-out information as obtained

#### During Construction

- Require two-week look ahead to identify/resolve conflicts
- Require contractor red-lines with each pay application
- Foster partnering relationship with contractor (fair but firm)

## CONSENSUS-BASED PROJECT SCOPES

The success of our work orders is based on the input we receive from your staff at the onset of each assignment to incorporate your staff's institutional knowledge into our designs and to "begin with the end in mind." We encourage regular reviews and input from all stakeholders so that the finished design meets permitting, funding, construction, and operational expectations. In some instances, public meetings should be held to keep businesses, residents and elected officials informed about proposed projects and pending construction schedules.

Our team understands that decisions made on short-term planning or system improvement projects could have long-term impacts on your system's operational needs and we will put the same level of effort on all work orders, regardless of size.

All task authorization requests from the City will be forwarded to our proposed Project Manager. Chase will review the requests with one or more of our assigned technical leaders as part of our initial QA/QC process and will assign a team that balances the technical complexities with budgetary, schedule, or other constraints.



**Chase Dickinson, the Project Manager, will review and develop all task authorization requests with input from one or more of our technical leaders as part of our QA/QC process.**

Our team prefers to schedule a brief call or meeting with the City to review the task authorization request, conduct site visits, and clarify any questions prior to developing the draft scope. Experience demonstrates that this expedites the task authorization development process and results in a deliverable that achieves your goals.

**Chase will develop the draft task authorization with input from our technical leaders, support staff, and specialty subconsultants, if required. The draft scope will go through our second QA/QC milestone prior to being submitted to the City.**

Draft scopes provided by subconsultants will be reviewed by our Project Manager to ensure consistency with the City's objectives and to validate proposed fees. All subconsultant deliverables, from initial scoping documents to final designs, will be integrated into our internal QA/QC process.





## DEMONSTRATED APPROACH TO MANAGE RISK

We, like our competitors, have standard project approaches that we follow to ensure each project is completed to the best of our ability. **Table 8.1** provides a summary of typical tasks that are generally included in the planning, design, bidding and construction phases. Tasks will be tailored to achieve the collective goals of key stakeholders and to properly manage risks to protect the City's interests.

**TABLE 8.1 SUMMARY OF TASKS**

<b>PRELIMINARY ENGINEERING ACTIVITIES</b>		
✓ Preparation of a Project Performance Plan	✓ Preliminary estimate of construction cost	✓ Easement and property acquisition requirements
✓ Aerial and/or land survey	✓ Evaluation of non-economical impacts	✓ Development and evaluation of alternative project solutions & costs
✓ Accumulation and review of existing and proposed utility data	✓ Progress reporting and meetings	✓ Coordination with regional master plans
✓ Evaluation of alternative materials, equipment and processes	✓ Geotechnical and hydro-geological investigations, as warranted	✓ Development of stakeholder engagement plans
✓ Development of initial risk registers	✓ Recommendation of the best alternative	✓ Basis of design report with review by City
<b>FINAL DESIGN ACTIVITIES</b>		
✓ Preparation of the plans and specifications	✓ Project Performance Plan updates	✓ Maintenance of traffic plans, if applicable
✓ Progress reporting to the City's project manager	✓ Updated estimates of construction cost at each stage of completion	✓ Coordination with other utilities, departments and developers
✓ 30%, 60%, 90% and 100% review meetings with City staff, as necessary	✓ Preparation of permit applications	✓ Land acquisition assistance
<b>BIDDING ASSISTANCE</b>		
✓ Conducting the pre-bid conference	✓ Preparation of addenda	✓ Review of bids
✓ Investigation of bid irregularities	✓ Investigation of low bidder qualifications	✓ Report on bid and recommendation for award
<b>CONSTRUCTION ENGINEERING AND OBSERVATION</b>		
✓ Assistance awarding the contract	✓ Test verification	✓ Rejecting defective materials
✓ Providing advice and consultation	✓ Conflict resolution	✓ Issuing supplemental drawings
✓ Maintaining construction records	✓ Full-time construction observation if needed	✓ Record drawings
✓ Reviewing shop drawings and other submittals	✓ Reviewing and approving partial pay requests	✓ Conducting the pre-construction conference
✓ Scheduling and conducting monthly progress meetings	✓ Final inspection and punch list	✓ Certification of completion

*The City is seeking support from an engineering firm that will provide cost-effective, practical, and resilient solutions to the operational, environmental, and regulatory challenges that must be resolved to maintain reliable services.*

*As a fully integrated and multi-disciplinary team, we offer the City a single point of responsibility and the ability to provide all required services in an expedited manner.*

However, one thing that sets us apart from our competitors is that we provide the same level of attention to detail—no matter how big or small the assignment. **For each and every assignment, we focus on the following four key elements:**

<p><b>1. CONSTRUCTABILITY</b></p> <p>Each design will be carried out with attention to detail and an eye for constructability. A design that creates constructability issues is a waste of the City's time and money. Every project will be reviewed by our in-house construction professionals to provide input specific to constructability.</p> <p>✔ <b>Conflicts are resolved during design, not construction</b></p>	<p><b>2. OPERABILITY</b></p> <p>Providing an end product that is safe and easy to operate is critical to a project's success. With a former wastewater treatment plant operator on our team, we are uniquely-qualified to ensure each design is operator-friendly. As important as ease of operation is, we place a greater emphasis on ensuring our projects are safe for your operations and maintenance staff.</p> <p>✔ <b>Operator-friendly facilities &amp; safe working environments</b></p>
<p><b>3. FLEXIBILITY</b></p> <p>Our solutions must not only meet today's demands and needs, but also have the flexibility to meet future growth demands and regulatory requirements. We will provide the City with solutions that not only achieve today's short-term needs but will also have the flexibility to meet tomorrow's long-term goals.</p> <p>✔ <b>Design with the future in mind</b></p>	<p><b>4. SUSTAINABILITY</b></p> <p>McKim &amp; Creed is on the leading edge of resiliency and infrastructure hardening. We provide our clients with sustainable solutions, balancing initial capital costs with the costs of recovery if infrastructure fails. As an example, we recently provided the City of Sarasota with design services for a major lift station. While FDEP required the infrastructure to be constructed at a 10-foot elevation, our analysis drove the lift station to be elevated to 26 feet to protect it from wind and storm surge impacts from a Category 3 hurricane and future sea level rise.</p> <p>✔ <b>Resilient solutions increase levels of service while protecting ratepayer investments</b></p>

**Our Envision credentialed professionals will integrate sea level rise and resiliency considerations into the initial planning phases of all projects to evaluate the vulnerability of proposed improvements. Designs will integrate best practices to ensure the project is compatible with the City's sea level rise mitigation and resiliency policies – with a goal to improve the resiliency of the community.**

**PROJECT MANAGEMENT**

For each project the City assigns, our team will develop a clear and concise Project Management Plan (PMP) to ensure that critical success factors are identified, understood, and communicated to the entire project team as well as the City.

The PMP will serve as a “roadmap to success” for quality deliverables and will also extend to all subconsultants. An outline of a typical McKim & Creed PMP is shown below.

PRELIMINARY OUTLINE OF OUR PMP CONTENTS	
▶ Project Overview and Key Milestones	▶ Design Delivery Plan
▶ Organizational Structure and Responsibilities	▶ Project Permitting Plan
▶ Communication Plan	▶ Resource Requirements
▶ Electronic Information Management Plan	▶ Schedule/Milestones
▶ Safety Management Plan	▶ Warranty Administration Plan
▶ Environmental Management Plan	▶ Post Project Review with City
▶ Quality Management Plan	

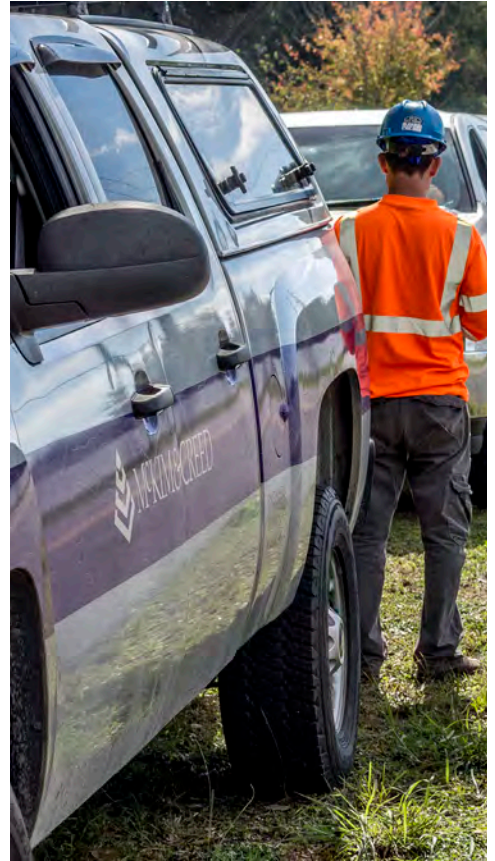


## MANAGEMENT OF SUBCONSULTANT WORK

Our Project Manager will stay in constant communication with subconsultants, involve them in planning and progress meetings, and share project documentation with them so they have all the information needed to be effective in their roles. We have check-in meetings that include subconsultant team members to make sure every project is on track and progressing in accordance with project schedules and budgets. Our team leaders provide clear direction to subconsultants regarding the expectations and standards aligned with their roles and are available to answer any questions the subconsultants have in order to support their participation in projects and work as a solid, effective team.

Part of this communication process is ensuring that design and construction schedules are clearly defined between McKim & Creed and our subconsultants. Our Project Manager will also review the work of all subconsultants to provide assurance of quality services delivered in accordance with project needs and contractual agreements.

Subconsultants who support our assignments will work seamlessly with the rest of the McKim & Creed team and the City fostered by the same focus on positive communication.



## KEYS TO A SUCCESSFUL PROJECT



**COMMUNICATION** From defining scope and schedule, to providing thorough progress updates, to clearly defining challenges and potential solutions.



**DATA COLLECTION** Utilizing appropriate means, methods, and technologies to acquire robust data sets in the most efficient and cost effective manner.



**PUBLIC ENGAGEMENT** When necessary, we are prepared to help the City sell its vision of success to the local community and special interests.



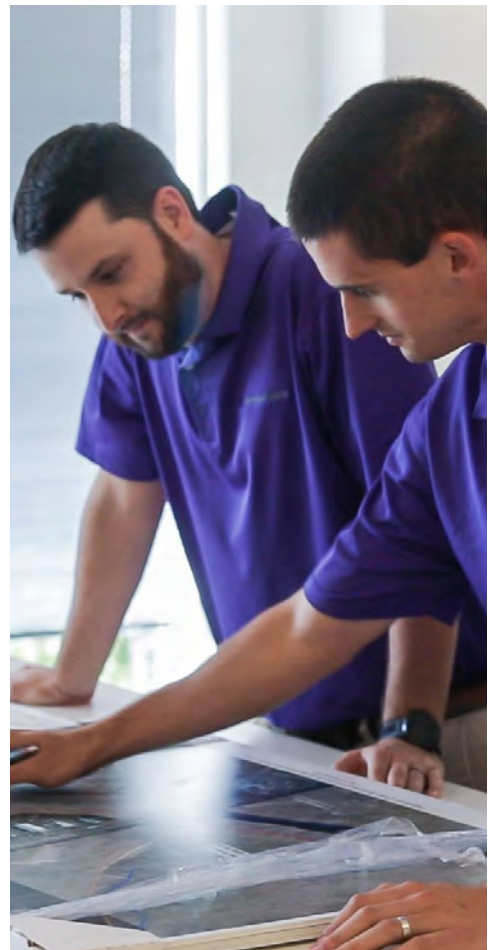
**COST CONTROL** We will provide honest and sound opinions of cost throughout the design of a project to help ensure that bids are received within the desired project budget so that solutions can actually be implemented.



**TECHNICAL OVERSIGHT** We will follow a defined QA/QC process throughout the design process, utilizing third party reviewers not directly associated with the design.



**POST-DESIGN** A design is only as good as its construction, and our team will ensure construction meets the standards and specifications of our designs by remaining engaged throughout construction, until final acceptance and project commissioning.



## SCHEDULE MANAGEMENT

### Design Schedule

McKim & Creed utilizes PlanTrax® as an internal control to develop the scope of work, including project tasks, personnel, budgets, and schedule. PlanTrax® is an Excel®-based project management software that employs the earned value approach to assess budget and schedule status throughout the duration of the project.

Our project manager compares monthly updates to the original project schedule during planning and design to determine if the project is ahead or behind schedule.

McKim & Creed's depth of resources offers the flexibility to make adjustments in our staff allocations to keep projects on track. This is an important aspect of working in today's fast-changing environment. Over the last few years, we have worked closely with clients to meet ever-changing schedules of projects driven by the change in funding availability, drastic population swings and growth forecasts, regulatory changes, and the quickly changing priorities of elected officials.

### Construction Schedule

During construction, a project schedule will be developed by the contractor using Primavera P6 (or an equivalent program). The draft construction schedule will be reviewed by our design team and construction specialists for logical sequencing, adequate float time, and activities that may impact the critical path (i.e., building permits, long lead-time purchases, etc.).

As construction progresses, we typically perform rolling 2 and 4 week "look a-heads" to monitor progress. The contractor will be requested to make adjustments, as needed, to maintain the critical path and protect the substantial completion date.

This schedule will be updated on a monthly basis and used as a tool to track progress, identify potential issues, and prepare mitigation strategies as necessary. Updated schedules will be a prerequisite for review of the contractor's monthly pay requests.

## COST CONTROL

### Planned Cost Control Techniques

As a complement to PlanTrax, we also review our accounting software, BST®, to closely monitor project expenditures. Project expenditures are reviewed at the end of each week, and formal reviews are conducted with the project team on a monthly basis, including subconsultants.

We propose to provide earned revenue and schedule comparisons to the City with our monthly invoices. Potential cost overruns (or schedule slippages) will be discussed during our progress meetings in order to maintain transparency throughout the project.

### Ability to Meet Construction Budgets

The biggest threat to budgets on a project is developing accurate cost estimates throughout the planning and design phases and controlling costs during construction.

**Our project team includes an integration of engineers, estimators, and construction specialists from the initial stages of design through project close-out. This approach develops early cost models and tracks trends so the team can manage risks and provide cost certainty within your established budget and schedule.**

### Opinions of Probable Cost

Our team will meet with the City at the onset of assigned projects to review and understand financial requirements and budget restraints. Our team will provide engineering opinions of probable construction cost at specified project milestones lending an opportunity to modify designs or bidding configurations to better match the City's project budget, if necessary. Understanding and establishing up-front budget expectations are critical to the success of any project with today's market swings and supply chain issues.



**Robert Garland, the Principal-in-Charge, is also the firm's Regional Manager and controls the resources across our 10 Florida offices. This will ensure that resources will be available to support your projects, to absorb expedited schedules, or mobilize during times of emergencies.**



## CONTROLLING CONSTRUCTION COSTS

Industry data suggests change orders account for 8% to 14% of final construction costs and can delay projects as much as 20% past completion dates. Our team has developed proven change management procedures that effectively manage project risks and resolve real or perceived claims in an open, transparent, and collaborative manner.

It's critical that the change order process is understood by all stakeholders - the owner, contractor, subcontractors, vendors, and consultants - and that open lines of communication are maintained. The change management process should be clearly outlined in the contract documents, reviewed in pre-bid meetings, and reiterated during pre-construction workshops.

**Unforeseen site conditions are reported to be the major source of claims by contractors in Florida, including unidentified utilities, unsuitable soils, and sinkholes. We recommend including a baseline geotechnical report with the contract documents that can be used as the basis of all bids for all contractors. This will minimize the potential for subsequent claims, reduce contractor risks, and reduce bid amounts.**

We recommend hosting constructability workshops before construction begins with the entire team - the contractor, key subcontractors, the owner, and the engineer. The goal is to identify and resolve potential ambiguities, errors, or omissions prior to mobilization. Changes are less costly to manage at the start of the process, rather than when construction is underway.

Our team typically reviews pending Requests for Information (RFI's) and potential change orders at all construction progress meetings. The goal is to develop consensus-based solutions that are agreeable and fair to all parties.

Ideally, we will attempt to review and resolve change orders at the project manager level. If not, the contract documents should clearly outline procedures to elevate and resolve claims internally between the owner, contractor, and engineer without requiring mediation or litigation - this should be a last resort.

The effectiveness of our construction management program is best documented by comparing estimates of probable costs to final construction amounts. **Table 8.2** includes recent projects that have been completed by our team that reflect project types anticipated under this contract. Winning bids on the projects were typically below the Engineer's Estimate of Probable Cost, allowing projects to be completed well within budget. Additionally, final construction costs on our projects were almost 2% below the bid amount through the use of risk-based contingencies and demonstrated construction management procedures.

**Table 8.2 Demonstrated Quality Assurance/Quality Control**

PROJECT	ENGINEER'S ESTIMATE	BID COST	FINAL COST	% DIFFERENCE = BID TO FINAL COST
Bunnell WTP Ion Exchange	\$4,710,000	\$4,828,000	\$4,860,000	0.7%
Myakkahatchee Creek WTP RO Reliability	\$8,970,000	\$8,970,355	\$8,961,404	-0.1%
Burgaw Wastewater System Improvements	\$10,500,000	\$7,018,612	\$7,184,789	2.3%
North to Southeast RCW Water Transmission Main	\$12,583,210	\$10,863,110	\$10,985,631	1.1%
Reclaimed Water Interconnect	\$15,453,800	\$14,160,050	\$13,733,395	-3.1%
Barnards Creek PS Upgrade	\$3,900,000	\$3,676,581	\$3,732,750	1.5%
East County Wellfield Relocation/Expansion	\$7,042,000	\$6,896,772	\$6,351,089	-7.9%
Manatee Agricultural Reuse System	\$4,787,000	\$4,632,309	\$4,343,926	-6.2%
South County Potable Water Re-Pump Station	\$6,455,205	\$5,245,700	\$5,136,282	-2.1%
Alline Avenue Stormwater PS, Ph I and II	\$6,639,525	\$4,821,600	\$4,800,000	-0.4%
<b>AVERAGE</b>	<b>\$8,104,074</b>	<b>\$7,111,309</b>	<b>\$7,008,927</b>	<b>-1.4%</b>

**Contractor bids were 12% less than McKim & Creed's cost estimates**

**Final contract costs were 1.4% less than initial bid costs**

## STAKEHOLDER ENGAGEMENT

### Electronic Information Management

Our team will leverage software and technology to provide an electronic information management system for projects. This will enable all stakeholders to exchange, review, store and retrieve documents in real time and will facilitate communication between internal and external team members, including City staff. At the end of each project, the folders can simply be downloaded and turned over to the City in an electronic format.

**We typically establish a secure FTP or SharePoint site for each contract. This will allow the team to readily transfer information and for City staff to review progress reports in real-time.**

### Public Outreach

At McKim & Creed we recognize local residential and business communities are key stakeholders for public works projects. Providing transparency, getting input, and having an open dialogue with local citizens provides a better final product for the end user and helps ensure the success of a project.

Understanding that many people do not have the ability or time to attend public meetings, McKim & Creed can utilize a combination of in-person and virtually hosted events to not only present to the public but also provide a mechanism for feedback and comments.

Our team offers the knowledge, resources and proven track record of successful public outreach that the City requires for projects assigned under this contract.

### Permitting Agencies

Most of the projects assigned under this continuing services contract will require permitting through one or more regulatory agencies, or at least require discussions with these agencies to discuss future or pending regulations that may impact design. Our team is experienced with partnering with the local, state, and federal agencies that may have jurisdiction over projects delivered under this contract, including the Water Management District, Florida Department of Environmental Protection, Army Corps of Engineers, and Florida Department of Transportation.

Based on our experience, we have found it is advantageous to conduct pre-application meetings with these agencies to understand their potential concerns and to open the lines of communication at the initiation of the design. Furthermore, by keeping the regulatory agencies informed throughout the design process, changes in regulations can be understood and potential permitting hurdles can be avoided. This simple effort will expedite the overall permitting process and significantly reduce extensive, time-consuming redesigns.

Once permit applications have been submitted, we will follow up with the respective regulatory agencies to monitor the progress of the application and address agency comments during the review process. We will strive to respond to comments within 10 days after receipt and will encourage City review and comment prior to submitting our response to the agency.

Our experience has demonstrated that pre-application meetings at the initiation of a project will ensure timely approval. Additionally, permit applications will be submitted at 60% design to protect project schedules.

Finally, maintaining our assertion that communication is one of the cornerstone elements in project management, McKim & Creed will create and maintain a permitting log that tracks the date of each agency submittal as well as correspondence, so City staff are aware of the project's permitting status at all times.

"MCKIM & CREED HAS TRANSFORMED WHAT WAS A BLACK EYE FOR THE CITY INTO A PROJECT THAT IS BEING EMBRACED BY THE RESIDENTS – WELL DONE."

**Former Commissioner Suzanne Atwell**  
Lift Station 87 - City of Sarasota





## COORDINATION WITH UTILITY AGENCY OWNERS

The planning, permitting, design, and construction phases will be coordinated with all Utility Agency Owners (UAOs) within or adjacent to the project limits to mitigate disruption of municipal and franchise services during construction and to plan for future utility needs. Many times, utility projects provide an opportunity to enhance cable, natural gas, and fiber optic services.

We routinely partner with private or franchise utilities to underground critical infrastructure, including overhead power lines, as part of a municipal utility project to develop a more resilient power grid or network. This can be accomplished by developing a cost sharing agreement with the private utility or coordinating simultaneous design and construction projects to minimize community disruption.

Utilities are typically located in tight, urban corridors. The alignment of new, improved, or relocated utilities are restricted by existing trees/vegetation, proposed landscaping, drainage improvements, traffic and signalization designs, and other proposed developments by private, state, county, or city agencies. This requires proactive coordination with multiple internal and external stakeholders. Our team understands the community's unique social, environmental, and financial nuances and will partner with the city to develop a successful community outreach and engagement plan throughout all work orders under this contract.

## COORDINATION WITH IMPACTED COMMUNITIES

Maintenance of Traffic (MOT) is critical to the success of any utility improvement or replacement project. Our team proposes to prepare detailed MOT plans as part of our design to maintain safe movement of vehicular, pedestrian, and bicycle traffic throughout construction zones. Based on the success of recent similar projects, the MOT plans should be reviewed with the residential and business communities as well as the owner agency.



# QUALITY MANAGEMENT PLAN

McKim & Creed understands the value an effective Quality Management Plan can have on protecting a project’s schedule and budget. Integration of key City staff into the process can also enhance the operability of the facility. Our plan emphasizes proactive communication, challenging and refining planning and design decisions, confirming calculations, enhancing operability, and increasing levels of service. This demonstrated approach will result in cost-effective, practical, safe, and resilient solutions for the City.

Each project will be assigned to a senior, independent professional engineer for QA/QC. The independent reviewer will not be directly involved with the design of the project but will be informed about its schedule, approach, objectives, and expectations. The reviewer will also be kept abreast of City and regulatory review comments and approved scope changes throughout the project to align the review process with the advancement of the project.

The selection of an independent reviewer will be based on their experience and how it relates to the services required to execute the project. On multidiscipline projects, the independent reviewer may elect to assign other technical specialists, also independent of the design team, to perform more specific reviews of structural, electrical or other specialty components of the project.

Subconsultants will be required to perform their own internal QA/QC reviews prior to submitting their documents for our review. This process will be verified through the request of a QA/QC statement to be issued with each submittal. In addition, each subconsultant deliverable will be further reviewed by our independent QA/QC team prior to incorporating their recommendations into our work product.

The purpose of the QA/QC review will be to identify conflicts, redundancies, and inconsistencies; and to ensure the design fulfills the contract requirements, meets regulatory requirements, and aligns with client expectations in a clear and precise manner without ambiguity. The independent QA/QC review process will occur prior to all project deliverables including meeting minutes, technical memorandums, reports, permit applications, calculations, and design submittals.

The independent reviewer will be responsible for maintaining a QA/QC log that tracks review comments, including those performed by other technical specialists, for discussing them with the design team and for overseeing they are properly addressed and documented within the log prior to signing off on the QA/QC process. The QA/QC log may be supplemented with third party software such as Bluebeam Studio™ that provides a consolidated, cloud based, electronic document to capture drawing review comments and responses from multiple simultaneous users.

### QUALITY MANAGEMENT PROCESS

- ✓ Technical/ Constructability Review Before Sending to City
- ✓ City Comments Received
- ✓ Comments Reviewed with both the Design & QC Teams
- ✓ Comments, Changes and Solutions Incorporated
- ✓ Internal QC Review to Ensure all Comments are Addressed



QA APPROACH FEATURES			
We will implement the following independent tasks to build quality into all phases of each assignment:			
Implementation of QA/QC Plan	Independent Review & Verification	Work in Progress Verification	Commitment of Independent Reviewers
Proposed process and procedures will be reviewed and accepted by the City. Modifications will be made, if needed, to achieve project-specific QA/QC requirements.	An independent QA/QC reviewer will be assigned to each task. Cost estimates and schedules will also receive independent reviews to provide realistic and defensible project metrics. QA/QC comments will be tracked on a Design Review and Comment Spreadsheet.	Deliverables will be reviewed and verified throughout all project phases, including meeting minutes, permit applications, and stakeholder presentations. Reviews will be provided by independent, multidisciplinary engineers, former operators, and construction specialists.	Our QA/QC team will consist of senior technical discipline leaders. Qualifications of each independent reviewer can be provided to the City for approval, if requested. All work completed by subconsultants will also be assigned to independent McKim & Creed reviewers.



McKim & Creed develops task-specific Project Management Plans with input from all key team members so that all parties share a common understanding of the project's objectives and the proposed plan of action to effectively and efficiently meet those objectives. Our QA/QC plan for each project will consider more than just plans and specifications; it will also ensure protection of the City's existing infrastructure and more importantly natural resources.

## MANAGING SCHEDULE AND BUDGET

McKim & Creed has an outstanding record of success on projects with tight schedules being performed on time and within budget. Our team has thrived on projects with compact schedules. Additionally, we believe one of the best indicators of a quality design is when the final project cost is under the engineer's estimate.

SCHEDULE	COST
As a company we are accustomed to meeting our schedule. We do this through effective communication and QA/QC procedures that ensure we meet our agreed upon deadlines. We also have a history of successfully completing assignments with expedited schedules to accommodate our clients' needs.	Winning bids on our projects average 12% below the Engineer's Estimate of Probable Cost, allowing projects to be completed well within budget. Additionally, change orders on our projects account for well less than the national average of 7% of the bid amount, a testament to our attention to detail during design and our QA/QC procedures.



### QUALITY MANAGEMENT PROCESS

1. Technical / Constructability Review Before Sending to City
2. City Comments Received
3. Comments Reviewed with both the Design & QC Teams
4. Comments, Changes and Solutions Incorporated
5. Internal Q/C Review to Ensure all Comments are Addressed

## CONFLICT RESOLUTION (OR AVOIDANCE)

Transparency, collaboration, and open communication are at the core of our approach. The timely delivery of information pertaining to proposed services, planned activities, work efforts accomplished, and issues anticipated and resolved is central to McKim & Creed's core philosophy. Communication is essential among all the team members to endure each project runs smoothly and there are no unexpected issues. **A communication plan will be established at the beginning of the project to effectively coordinate between McKim & Creed, our subconsultants, and City staff.**

Our team's philosophy is to resolve conflicts at the lowest level of the organization in a timely basis to avoid escalation. Key components of our proposed change management procedures include:

### INCIDENT OR CHANGE TRACKING

The Project Manager will be immediately notified of potential conflicts, both internal and external to the design team. The incidents will be tracked to ensure they are addressed in a timely manner.

### CONFLICT RESOLUTION PROCESS

The Project Manager typically has the authority to resolve design and construction issues directly with the City's Project Manager or designated representative. Should the issue not be resolved at that level within 30 days, it will automatically be elevated to the Principal-in-Charge for resolution.

## RISK MANAGEMENT

We recommend the development and implementation of a risk register through all phases of the project. An effective risk register identifies, allocates, and monitors risks during design, construction, and commissioning to protect all team members - City of Margate, the engineer, and the contractor - and reduce project costs.

The risk register should be reviewed, refined, and updated at all team meetings to monitor and adjust risk allocation and enhance collaboration with all stakeholders.

Risk registers should not only include financial risks, but should also include scheduling, permitting, safety, environmental, and operational considerations. Contingency amounts can be used as the basis for reducing retainers to further protect the City's interests.

**Our team's use of risk registers to develop project contingencies and to properly allocate or accept risks has resulted in final construction costs that are approximately 2% less than the bid amounts on recent projects of similar size and complexity.**

## MANAGING DESIGN ISSUES

In the event of real or perceived design issues, McKim & Creed will partner with the City to develop a mutually beneficial and equitable resolution. Should the City find issues with a work product (design or cost) the following steps would be taken to immediately resolve the issue in question:

1. After notification by the City that a work product is questioned, or if there are issues with project invoices and/or costs, the assigned McKim & Creed project manager will meet directly with the City representative to discuss the issue.
2. Once the issue is clearly understood, the project manager will present the City representative with a corrective action. This plan will be provided to the City within 24 hours of the meeting.
3. Based on the agreed upon corrective actions, the project manager will correct issues mutually agreed upon and deliver the adjusted work product to the City.
4. A final meeting will be held with the City when the adjusted work product is delivered. The purpose of this meeting is to discuss adjustments made as agreed to in the initial meeting. Once accepted by the City, the work product will be determined to be final.

## MANAGING CONSTRUCTION ISSUES

Should construction issues arise, the field conflict or potential design modifications will immediately be brought to the attention of the project manager for resolution. Our team uses the typical Request for Information (RFI) process to track and resolve internal design or construction issues.

However, some changes may be outside of the teams' control, such as differing site conditions, unforeseen conditions, and owner-directed changes. When a situation arises that may change the scope, our project manager will immediately notify the City's project manager and proceed with the contractual procedures to modify the scope, budget, or schedule.

### FIELD COMMUNICATION MANUAL

Our team proposes to develop a Field Communications Manual that outlines procedures for the Team to follow when communicating with businesses, residents, and the media. The Manual would also include a call-down list for emergencies or interview requests. This has proven to be an effective tool for managing miscommunication, mitigating stakeholder misinterpretation, and managing third-party claims.



## FUNDING

McKim & Creed has decades of experience helping clients fund their utility projects through grants and other resources. Our team has experience meeting deadlines to acquire funding and offers experience with a variety of funding sources. We recently worked with the City of Ormond Beach on four FEMA HMGP grant applications and project assignments through the Hurricane Matthew and Hurricane Irma cycles.

Our in-house team's experience with project funding and grant applications can support whatever financial services the City requires for projects under this contract. Our ability to support the City's funding needs is complete and available to benefit your projects through the coming years.

Our team is familiar with the following funding sources, among others, and will partner with the City to position for these and other grant and low-interest loan opportunities:

- ✓ FDEP Wastewater Grant Program
- ✓ FDEP State Revolving Fund (SRF)
- ✓ Resilient Florida Grant Program
- ✓ Building Resilient Infrastructure & Communities Program (BRIC)
- ✓ Hazard Mitigation Grant Program
- ✓ Legislative Appropriations
- ✓ Water Infrastructure Finance & Innovation
- ✓ Water Management District
- ✓ Grant Funding/FDOT/LAP Experience

McKim & Creed provided design, permitting and construction services to the City of Palm Coast for the installation of 30 new standby generators to provide essential back-up power for pump stations throughout the city. Funding for the addition of these generators was acquired through FEMA Hazard Mitigation Grants following power outage challenges in 2017 caused by Hurricane Irma.



**We recognize the challenges presented by certain funding mechanisms, particularly the deadlines and administrative requirements that can be imposed. McKim & Creed has decades of experience with helping clients fund their CIP projects through grants and other resources.**





9

## PROOF OF INSURANCE



# 9 PROOF OF INSURANCE



## CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

8/22/2022

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).

<b>PRODUCER</b> Scott Insurance - Raleigh 2501 Blue Ridge Road Suite 250 Raleigh NC 27607		<b>CONTACT NAME:</b> Toni Dyer <b>PHONE (A/C, No, Ext):</b> 919.341.0746 <b>FAX (A/C, No):</b> 434.455.1469 <b>E-MAIL ADDRESS:</b> tdyer@scottins.com	
		<b>INSURER(S) AFFORDING COVERAGE</b>	<b>NAIC #</b>
		<b>INSURER A:</b> Berkley Assurance Company (A+)	39462
<b>INSURED</b> McKim & Creed, Inc. 1730 Varsity Drive Venture IV Building, Suite 500 Raleigh NC 27606-2689		<b>INSURER B:</b>	
		<b>INSURER C:</b>	
		<b>INSURER D:</b>	
		<b>INSURER E:</b>	
		<b>INSURER F:</b>	

### COVERAGES

CERTIFICATE NUMBER: 2031342638

REVISION NUMBER:

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	<b>COMMERCIAL GENERAL LIABILITY</b> <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ \$
	<b>AUTOMOBILE LIABILITY</b> <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY <input type="checkbox"/>						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	<b>UMBRELLA LIAB</b> <input type="checkbox"/> OCCUR <b>EXCESS LIAB</b> <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A				<input type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
A	Professional Liability			PCAB-5019049-0922	9/5/2022	9/5/2023	Each Claim/Aggregate \$5M / \$10M
A	Contractors Pollution Liab			PCAB-5019049-0922	9/5/2022	9/5/2023	Each Claim/Aggregate \$5M / \$10M Self-Insd Retention \$500K / \$1M

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

### CERTIFICATE HOLDER

### CANCELLATION

**FOR BIDS/PROPOSALS ONLY**	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE 

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ACORD 25 (2016/03)

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Client#: 216019

20MCKIMCRE

**ACORD**<sup>TM</sup>**CERTIFICATE OF LIABILITY INSURANCE**

DATE (MM/DD/YYYY)

9/13/2022

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.

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<b>PRODUCER</b> <b>McGriff Insurance Services</b> <b>Post Office Box 13941</b> <b>Durham, NC 27709</b> <b>919 281-4500</b>		<b>CONTACT NAME:</b> NC Certificate Team <b>PHONE (A/C, No, Ext):</b> 919 281-4500 <b>FAX (A/C, No):</b> 8887468761 <b>E-MAIL ADDRESS:</b> NCCertificateTeam@mcgriff.com															
<b>INSURED</b> <b>McKim and Creed Inc</b> <b>1730 Varsity Dr Ste 500</b> <b>Raleigh, NC 27606-2689</b>		<table border="1"> <thead> <tr> <th>INSURER(S) AFFORDING COVERAGE</th> <th>NAIC #</th> </tr> </thead> <tbody> <tr> <td>INSURER A : Valley Forge Insurance Company</td> <td>20508</td> </tr> <tr> <td>INSURER B : Continental Insurance Company</td> <td>35289</td> </tr> <tr> <td>INSURER C : American Casualty Co of Reading PA</td> <td>20427</td> </tr> <tr> <td>INSURER D : ACE American Insurance Co</td> <td>22667</td> </tr> <tr> <td>INSURER E :</td> <td></td> </tr> <tr> <td>INSURER F :</td> <td></td> </tr> </tbody> </table>		INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A : Valley Forge Insurance Company	20508	INSURER B : Continental Insurance Company	35289	INSURER C : American Casualty Co of Reading PA	20427	INSURER D : ACE American Insurance Co	22667	INSURER E :		INSURER F :	
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**COVERAGES****CERTIFICATE NUMBER:****REVISION NUMBER:**


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INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC OTHER:			C7015339793	09/05/2022	09/05/2023	EACH OCCURRENCE \$2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$100,000 MED EXP (Any one person) \$15,000 PERSONAL & ADV INJURY \$2,000,000 GENERAL AGGREGATE \$4,000,000 PRODUCTS - COMP/OP AGG \$4,000,000 \$
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS ONLY			7015339776	09/05/2022	09/05/2023	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 <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$10000			7015339809	09/05/2022	09/05/2023	EACH OCCURRENCE \$10,000,000 AGGREGATE \$10,000,000 \$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? <input checked="" type="checkbox"/> Y/N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		N/A	WC715339762	09/05/2022	09/05/2023	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE - EA EMPLOYEE \$1,000,000 E.L. DISEASE - POLICY LIMIT \$1,000,000
D	Cyber Liability			F1628726A002	09/05/2022	09/05/2023	2,000,000 Aggregate 2,000,000 Each Incident

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

For information use only.

**CERTIFICATE HOLDER****CANCELLATION**

<b>McKim &amp; Creed Inc.</b> <b>1730 Varsity Drive, Ste. 150</b> <b>Raleigh, NC 27606-2689</b>	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE 
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McKim &amp; Creed | RFQ# 2023-010





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 12 day of April, 2023

McKim & Creed, Inc.  
Printed Name of Corporation

North Carolina  
Printed State of Incorporation

(CORPORATE SEAL)

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

ATTEST:

Robert Garland, Vice President  
Printed Name of President or other authorized officer

By \_\_\_\_\_  
Secretary

6501 Congress Avenue, #160  
Address of Corporation

Boca Raton, FL 33487  
City/State/Zip

561.910.8630  
Business Phone Number

State of Florida

County of Lee

The foregoing instrument was acknowledged before me by means of X physical presence or \_\_\_\_\_ online notarization this day 12<sup>th</sup> of APRIL, 2023, by (Name), Robert Garland (Title) McKim & Creed (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

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







11

## OFFEROR'S QUALIFICATION 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: McKim & Creed, Inc.  
NAME: Robert Garland, Vice President  
ADDRESS: 5701 Division Drive, Suite A  
PRINCIPAL OFFICE: Fort Myers, FL 33905

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: McKim & Creed, Inc.  
The address of the principal place of business is: 1730 Varsity Drive, Venture IV Building, Suite 500, Raleigh, NC 27606-2689

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

- a. Date of Incorporation: January 2, 1981
- b. State of Incorporation: North Carolina
- c. President's name: Street Lee, P.E., ENV SP
- d. Vice President's name: Robert Garland
- e. Secretary's name: Edward Pollard
- f. Treasurer's name: Chris Nelson
- g. Name and address of Resident Agent:  
Robert Garland, P.E., DBIA, ENV SP  
5701 Division Drive, Suite A  
Fort Myers, FL 33905

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

- a. Date of organization: N/A



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

N/A

c. State whether general or limited partnership:

N/A

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?

42 Years

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

McKim & Creed Engineers, P.A., McKim & Creed, PA

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.

We have provided all necessary licenses in section 7 of the RFQ.

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

No, we have never failed to complete work awarded to McKim & Creed, Inc.

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.

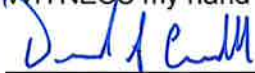
(Signature)



State of Florida  
County of Lee

The foregoing instrument was acknowledged before me by means of X physical presence or \_\_\_\_\_ online notarization this 12<sup>th</sup> day of April, 2023, by Robert Garland, 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)







12

SF 330 FORMS

# 12 SF 330 FORMS

## ARCHITECT - ENGINEER QUALIFICATIONS

### PART I - CONTRACT-SPECIFIC QUALIFICATIONS

#### A. CONTRACT INFORMATION

##### 1. TITLE AND LOCATION

**City of Margate General Civil Engineering, Building Architectural,  
and Landscape Architectural Consulting Services**  
Margate, FL

##### 2. PUBLIC NOTICE DATE

March 16, 2023

##### 3. SOLICITATION OR PROJECT NUMBER

# RFQ 2023-010

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

##### 4. NAME AND TITLE

Chase Dickinson, PE, Project Manager

##### 5. NAME OF FIRM

**McKim & Creed, Inc.**



##### 6. TELEPHONE NUMBER

561.910.8630

##### 7. FAX NUMBER

N/A

##### 8. E-MAIL ADDRESS

CDickinson@mckimcreed.com

	(Check)			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J.V. PARTNER	SUB			
A.	<input checked="" type="checkbox"/>			<b>McKim &amp; Creed, Inc.</b> <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	6501 Congress Avenue, #160 Boca Raton, FL 33487	Prime
B.	<input checked="" type="checkbox"/>			<b>McKim &amp; Creed, Inc.</b> <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	1365 Hamlet Avenue Clearwater, FL 33756	Prime
C.	<input checked="" type="checkbox"/>			<b>McKim &amp; Creed, Inc.</b> <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	551 N Cattlemen Rd #106 Sarasota, FL 34232	Prime
D.	<input checked="" type="checkbox"/>			<b>McKim &amp; Creed, Inc.</b> <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	1206 N Palafox St, Pensacola, FL 32501	Prime
E.	<input checked="" type="checkbox"/>			<b>McKim &amp; Creed, Inc.</b> <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	3903 Northdale Blvd., Suite 115E, Tampa, FL 32501	Prime
				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
				<input type="checkbox"/> CHECK IF BRANCH OFFICE		

#### D. ORGANIZATIONAL CHART OF PROPOSED TEAM

☒ (Attached)



# 12 SF 330 FORMS

## ARCHITECT - ENGINEER QUALIFICATIONS

### PART I - CONTRACT-SPECIFIC QUALIFICATIONS

#### A. CONTRACT INFORMATION

##### 1. TITLE AND LOCATION

**City of Margate General Civil Engineering, Building Architectural, and Landscape Architectural Consulting Services**  
Margate, FL

##### 2. PUBLIC NOTICE DATE

March 16, 2023

##### 3. SOLICITATION OR PROJECT NUMBER

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

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Chase Dickinson, PE, Project Manager

##### 5. NAME OF FIRM

**McKim & Creed, Inc.**



##### 6. TELEPHONE NUMBER

561.910.8630

##### 7. FAX NUMBER

N/A

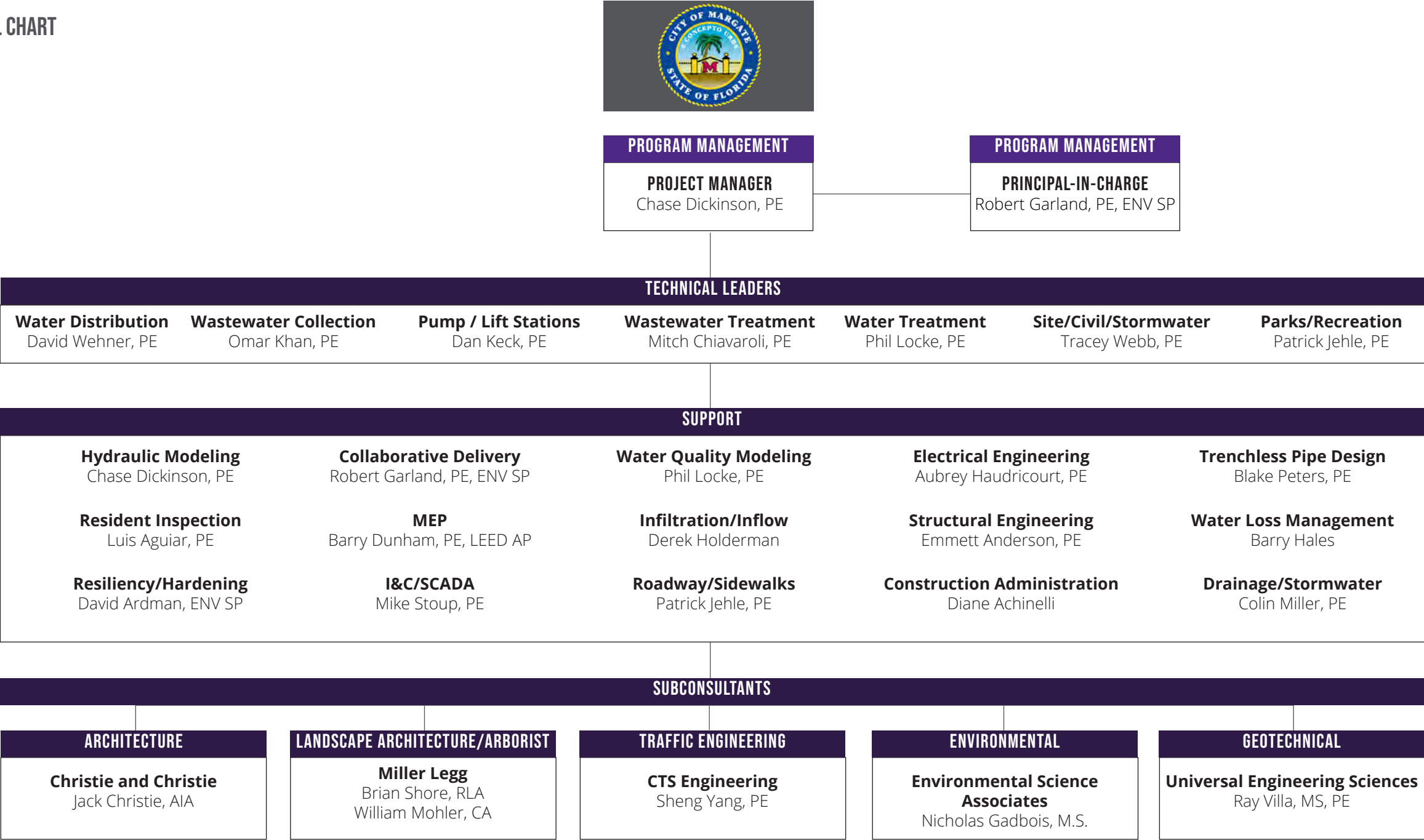
##### 8. E-MAIL ADDRESS

CDickinson@mckimcreed.com

	(Check)			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J.V. PARTNER	SUB			
F.			<b>X</b>	<b>Christie and Christie</b> <input type="checkbox"/> CHECK IF BRANCH OFFICE	135 19th Ave SE St. Petersburg, FL 33705	Architecture
G.			<b>X</b>	<b>Miller Legg</b> <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	5747 N. Andrews Way Fort Lauderdale, FL 33309	Landscape Architect/ Arborist
H.			<b>X</b>	<b>CTS Engineering</b> <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	3230 W. Commercial Blvd., Suite 220 Fort Lauderdale, FL 33309	Traffic Engineering
I.			<b>X</b>	<b>Environmental Science Associates</b> <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	1500 Gateway Boulevard, Suite 220-309 Boynton Beach, FL 33426	Environmental
J.			<b>X</b>	<b>Universal Engineering Sciences</b> <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	3903 Northdale Blvd., Suite 115E, Tampa, FL 32501	Geotechnical
				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
				<input type="checkbox"/> CHECK IF BRANCH OFFICE		


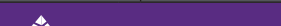
#### D. ORGANIZATIONAL CHART OF PROPOSED TEAM

☒ (Attached)





# E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

	12. NAME <b>Chase Dickinson, PE</b>	13. ROLE IN THIS CONTRACT <b>Project Manager</b>	14. YEARS EXPERIENCE	
	A. TOTAL 11		B. CURRENT FIRM 1	
	15. FIRM NAME AND LOCATION <b>McKim &amp; Creed, Inc.   Boca Raton, FL</b>			

## 16. EDUCATION

M.S., Civil Engineering, Florida Atlantic University  
B.S., Civil Engineering, Florida Atlantic University

## 17. CURRENT PROFESSIONAL REGISTRATION

Professional Engineer, FL #83325


## 18. OTHER PROFESSIONAL QUALIFICATIONS

Chase Dickinson has over 11 years of experience as an engineer in the water/wastewater industry. Chase has designed and managed infrastructure projects including raw water supply, water treatment, water transmission and distribution systems, water and force main replacement, gravity sewer, vacuum, low pressure, pump stations and booster stations. While working on these projects he provided design reports/plans, specifications, cost estimates, permitting, bidding assistance and engineering services during construction. He also has experience developing hydraulic models, master plans and feasibility studies.

## 19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
A.	<b>Water Distribution Model Update and Master Plan</b> <i>City of Margate, FL</i>	2022	N/A
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <input type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM The master plan was prepared in response to the City's desire to update their system wide hydraulic model. The project modeled the water transmission and distribution network and evaluated the hydraulic capacity with respect to current and future demands. The project also identified cast iron piping and recommended the required pipe sizes to replace the obsolete components. The final report included a phased Master Plan for recommended improvements to the existing water transmission and distribution system. Role: Lead Engineer and Project Manager.		
B.	<b>Force Main System Model and Master Plan</b> <i>City of Margate, FL</i>	2022	N/A
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <input type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM Eckler Engineering prepared this report in response to force main piping system breaks, increase in horsepower requirements at lift stations and the results of localized force main integrity evaluations. The project modeled the wastewater transmission system using and evaluated the hydraulic capacity with respect to current and future service requirements. The project also included investigating the air release valves and isolation valves. The final report included a phased Master Plan for recommended improvements to the existing wastewater transmission system. Role: Lead Engineer and Project Manager.		
C.	<b>NW 110th Avenue Water Main Replacement</b> <i>City of Coral Springs, FL</i>	2018	2019
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <input type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM The project was to resolve operational issues associated with cast iron pipe in the distribution system, Chase designed a new water main along NW 110th Avenue from Wiles Road to Sample Road. The project consisted of installing approximately 5,280 feet of 8-inch ductile iron pipe alongside the old cast iron main which was abandoned and grouted. There were five existing fire hydrants that were removed and replaced along with three new fire hydrants installed. The project also consisted of replacing forty-two water services that serve the surrounding neighborhood. Services also included site visit evaluations and field testing inspections during construction. The construction cost for this project was \$866,000. Role: Lead Engineer and Project Manager.		
D.	<b>New Force Main on Sample Road</b> <i>City of Coral Springs, FL</i>	2018	2019
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <input type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM Secondary Design Engineer. Engineering services for planning, design, permitting, and services during construction. Chase provided design services for 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 as well as a right turn lane on Sample Road at NW 94th Avenue. Construction services such as daily site evaluations and inspections were also provided. The construction cost was \$1,500,000.		

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

	12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
	Robert Garland, PE, DBIA, EVB SP	Principal-in-Charge	A. TOTAL 39	B. CURRENT FIRM 10
	15. FIRM NAME AND LOCATION McKim & Creed, Inc.   Sarasota, FL			
16. EDUCATION B.S., Civil Engineering, Vanderbilt University		17. CURRENT PROFESSIONAL REGISTRATION Professional Engineer, FL #64329		

### 18. OTHER PROFESSIONAL QUALIFICATIONS



Mr. Garland brings over 35 years of experience in the planning, design, construction and troubleshooting of complex utility projects to this continuing services contract. In addition to being a licensed engineer and geologist, he is also a licensed contractor and has passed Florida's General Contractor and Underground Utility Licensure Exams. This diverse background will bring unique insight to the constructability and value engineering aspects for projects assigned under this contract. Mr. Garland has specific experience in managing the design and construction of water main replacement projects in congested, urban environments. He also specializes in regulatory agency negotiations, stakeholder consensus building, community outreach, and dispute/claims resolution during construction.

### 19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
A.	<b>Lift Station 87 Design and Construction Services</b> <i>City of Sarasota, FL</i>	<b>2021</b>	<b>2021</b>
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM</span> Mr. Garland served as Project Manager for this award-winning project that included design, permitting, bid and construction phase services to replace the City's existing lift station. The new Lift Station 87 was designed to withstand storm surge associated with a Category 3 hurricane. Design elements included two-stage odor control, sound attenuation on mechanical equipment and landscaping representative of the local community. The lowest, responsive bid was awarded at \$21,267,000. Change orders were limited to only \$62,572, or 0.29% of the bid amount, through the use of pro-active value engineering. This project received the APWA 2018 FL Chapter project of the year award and the FWEA Manasota Chapter 2018 Recognition of Excellence in Engineering award.		
B.	<b>WWRF Biological Treatment Improvements Design Criteria Professional</b> <i>City of Largo, FL</i>	<b>2019</b>	<b>2020</b>
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM</span> As Principal for this project, Mr. Garland led planning and value engineering efforts and provided professional engineering consulting services to develop and implement a Design Criteria Package (DCP) that allowed the City of Largo to select a design-build team to further develop and implement biological treatment improvements at the WWRF. The City's goals for the project included reducing effluent nitrogen levels in discharges to Tampa Bay, replacing aging infrastructure in the "Middle of the Plant" and reducing operational costs. The DCP included goals and requirements of the design-build team for Envision™ rating system sustainability. The scope of work included project management and administration, research and data collection, design-build procurement alternative evaluations, valve engineering negotiations and contract assistance, engineering design support and structural condition evaluations.		
C.	<b>Design Criteria Professional for NWRWRF Expansion</b> <i>Hillsborough County, FL</i>	<b>2019</b>	<b>2020</b>
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM</span> Mr. Garland served as Project Manager, working with multiple Hillsborough County Departments to develop initial procurement and risk management strategies. He served as the firm's lead for development of the Design Criteria Package (DCP) and provided technical guidance for the evaluation of the RFQ (Step 1) and RFP (Step 2) design-build team submittals. A site master plan was developed for the proposed Northwest Wastewater Consolidation program to blend the facility into the neighborhood and provide future recreational and educational opportunities for the community. Value engineering and partnering workshops resulted in cost savings and benefits exceeding \$17 million for the \$193 million project.		
D.	<b>Halifax River Sanitary Sewer Force Main Crossing Professional Utility Engineering &amp; Design Services</b> <i>City of Daytona Beach, FL</i>	<b>2018</b>	<b>2018</b>
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM</span> Mr. Garland served as Project Manager for design, permitting and construction services. McKim & Creed provided the City of Daytona Beach with a capacity analysis, design, permitting and construction services for a new 30-inch subaqueous force main that crosses under the Halifax River (Intracoastal Waterway) from the beachside service area to the Bethune Point Wastewater Treatment Plant (BPWWTP) in order to replace the outdated existing 24-inch force main. The new force main enables the City of Daytona Beach to manage increasing demands on the system and accommodate planning for two new hotel resorts. The project was designed to employ Horizontal Directional Drilling (HDD), and the design included pipe vertical and horizontal curve data, utility relocations, maintenance of traffic (MOT) requirements, road restoration and locations of temporary/permanent construction easements.		



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

	12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
	David Wehner, PE	Water Distribution	A. TOTAL 24	B. CURRENT FIRM 21
	15. FIRM NAME AND LOCATION McKim & Creed, Inc.   Tampa, FL		 McKIM & CREED	
16. EDUCATION B.S., Civil Engineering, University of South Florida		17. CURRENT PROFESSIONAL REGISTRATION Professional Engineer, FL #59541		



### 18. OTHER PROFESSIONAL QUALIFICATIONS

Mr. Wehner has over 24 years of experience providing design and permitting services for municipal utility systems including water supply, transmission and distribution; master planning; pumping and utility relocation engineering. Mr. Wehner is recognized as a regional leader in the evaluation and design of transmission and collection systems. He has designed and overseen construction for pipelines up to 42 inches in diameter, which involved both open-cut and trenchless construction technologies.

### 19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
A.	<b>Dale Mabry Diversion Force Main and Reclaimed Water Transmission Main</b> <i>Hillsborough County, FL</i>	2017	2017
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM</span> Mr. Wehner served as Senior Project Manager and Engineer-of-Record, overseeing construction of over 72,600 LF of 20-inch to 36-inch force main and reclaimed water transmission main through environmentally sensitive areas. The project utilized 16 horizontal directional drills totaling more than 11,000 LF to minimize environmental and traffic impacts. The project required close coordination with two other projects integral to the NWRWRF Consolidation Program. This award winning project was recognized in 2017 both by the Florida American Public Works Association and Design-Build Institute of America, Florida Region.		
B.	<b>FY 19 Water Main Replacement Design-Build</b> <i>City of Tampa, FL</i>	2019	2019
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM</span> Managed project to provide design-build services to replace undersized and aging water mains within the City of Tampa. Our team was tasked with providing design, permitting and construction administration services for approximately 67,000 LF of water main varying from 4 to 12 inches in diameter throughout a dozen neighborhoods. The water mains were installed using open-cut and horizontally directional drilled (HDD) technology. We coordinated permit applications related to City of Tampa ROW, Hillsborough County ROW, Florida Department of Transportation ROW, Hillsborough County Health Department, Florida Department of Environmental Protection and Hillsborough County Environmental Protection Commission.		
C.	<b>MARS Transmission Main</b> <i>Manatee County, FL</i>	2019	2019
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM</span> Project Engineer for the design of 83,000 LF of 30-inch ductile iron reclaimed water main as part of the Manatee Agricultural Reuse System (MARS). The majority of the pipe was installed using open-cut trench installation, approximately 15,000 LF of which was along SR 64, a major east-west corridor into the City of Bradenton as well as connecting to an existing utility at US 75.		
D.	<b>Siesta Key to Casey Key Water Main</b> <i>Sarasota, FL</i>	2013	2013
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM</span> Mr. Wehner served as project manager for the design and permitting of approximately 4,100 LF of 6-inch, 8-inch and 10-inch diameter potable water main. The water main was constructed between the southern tip of Siesta Key and the northern tip of Casey Key and involved crossing the Jim Neville Marine Preserve, Little Sarasota Bay and beach dunes. The method of construction was comprised of installation of 2,700 LF of 10-inch water main by subaqueous horizontal directional drill (HDD) and 1,400 LF of open trench installations. The project received the American Public Works Association (APWA) 2013 Florida Chapter project of the year award in energy repair category for projects within \$5 million and was presented at the 2013 NASTT No-Dig Show.		

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

	<b>12. NAME</b>	<b>13. ROLE IN THIS CONTRACT</b>	<b>14. YEARS EXPERIENCE</b>	
	<b>Omar Khan, PE</b>	<b>Wastewater Collection</b>	<b>A. TOTAL</b>	<b>B. CURRENT FIRM</b>
			<b>15</b>	<b>1</b>
<b>15. FIRM NAME AND LOCATION</b>				
<b>McKim &amp; Creed, Inc.   Boca Raton, FL</b> <div style="text-align: right;">  <b>McKIM&amp;CREED</b> </div>				
<b>16. EDUCATION</b>		<b>17. CURRENT PROFESSIONAL REGISTRATION</b>		
BS, Environmental Engineering, Florida Atlantic University		Professional Engineer, FL #75524		

### 18. OTHER PROFESSIONAL QUALIFICATIONS


Omar Khan has over 15 years of experience working as an engineer in the water/wastewater industry. Omar has managed, designed and supported infrastructure related projects, including gravity sewer, vacuum sewer, pump station and force main designs for expansion, relocation, and rehabilitation assignments. While working on these projects, he provided feasibility studies, design reports/plans, specifications, cost estimates, permitting/bidding assistance, and engineering services during construction.

### 19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
A.	<b>Oak Lake Estates Vacuum Sewer</b> <i>Okeechobee, FL</i>	2022	0000
	<b>(3) BRIEF DESCRIPTION AND SPECIFIC ROLE</b> <span style="float: right;"><input type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM</span> Project manager responsible for preparing design drawings, permit applications, vacuum calculations and specifications on this project. Mr. Khan designed and permitted approximately 3,120 linear feet of vacuum sewer and 19 vacuum pits.		
B.	<b>Southwest Area Vacuum Phase 2</b> <i>Okeechobee, FL</i>	2022	0000
	<b>(3) BRIEF DESCRIPTION AND SPECIFIC ROLE</b> <span style="float: right;"><input type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM</span> Project manager currently responsible for preparing design drawings, permit applications, vacuum calculations and specifications on this project. Mr. Khan designed and permitted approximately 47,000 linear feet of vacuum sewer and 184 vacuum pits.		
C.	<b>Rehabilitation of Lift Stations 22A and 21D and New Force Main</b> <i>City of Coral Springs, FL</i>	2022	0000
	<b>(3) BRIEF DESCRIPTION AND SPECIFIC ROLE</b> <span style="float: right;"><input type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM</span> Project manager for the planning, design, permitting and construction engineering to rehabilitate two sanitary lift stations which included new pump(s), riser piping, railing systems, fittings, valves, mechanical equipment, protective coatings, concrete slab, fence, gates, control panels and diesel generator. In addition, a new force main connecting two of the lift stations was constructed.		
D.	<b>Lift Station 21C Reconstruction and New Force Main</b> <i>City of Coral Springs, FL</i>	2018	0000
	<b>(3) BRIEF DESCRIPTION AND SPECIFIC ROLE</b> <span style="float: right;"><input type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM</span> Project manager for the planning, design, permitting and construction engineering of 1,400 LF of 10-inch force main to replace the aging 6-inch force main which would ultimately reduce the horsepower required for the new lift station.		



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

	12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
	<b>Dan Keck, PE</b>	<b>Pump / Lift Stations</b>	A. TOTAL	B. CURRENT FIRM
	15. FIRM NAME AND LOCATION		<b>31</b>	<b>1</b>

**McKim & Creed, Inc. | Clearwater, FL**



### 16. EDUCATION

M.S., Environmental Engineering, Georgia Tech  
B.C.E., Civil Engineering, Georgia Tech

### 17. CURRENT PROFESSIONAL REGISTRATION

Professional Engineer, FL #50489


### 18. OTHER PROFESSIONAL QUALIFICATIONS

Mr. Keck is a Principal Project Manager and leader for strategic projects in the United States with diverse experience leading complex multi-discipline design, construction, and commissioning teams. He offers more than 19 years of experience in the planning, design, permitting, and construction of complex pump station and lift station rehabilitation, hardening, and replacement projects. He has an in-depth knowledge of numerous modeling platforms and also provides operational support to enhance pumping efficiencies and reduce operating costs.

## 19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
A.	<b>SW WRF Effluent, Reuse and DIW Pump Station</b> <i>Manatee County, FL</i>	<b>2022</b>	<b>2025</b>
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM</span> Mr. Keck is the PM and EOR to design improvements to increase the disposal capacity of the WRF effluent pumping station to 18 mgd, with multiple discharges to Deep Injection Well, effluent storage ponds and tanks, and public access reuse system.		
B.	<b>Southwest Water Reclamation Facility Headworks Replacement</b> <i>Manatee County, FL</i>	<b>2021</b>	<b>2022</b>
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM</span> Lead Mechanical Engineer of Record for design of both reclaimed water pump stations. North PS has two 3-MG GSTs with four 250HP pumps and South PS has two 1.5-MG GSTs with four 200HP pumps. Both stations included automated pressure reducing flow control assembly for tank filling, VFD controls of pumps for highly variable flow and discharge pressure conditions, and sodium hypochlorite disinfection. North PS included automatic bypass controls to transfer RW to South PS when pressure and demand conditions allow.		
C.	<b>Twin Creeks 20-MGD Reclaimed Water Repump Station and Ground Storage Tank</b> <i>JEA, Jacksonville, FL</i>	<b>2015</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <span style="float: right;"><input type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM</span> Lead Mechanical Engineer of Record for design of new reclaimed water pump station and two 1.5 MG GSTs. Facility included automated pressure reducing flow control assembly for tank filling, VFD controls of four 200HP pumps for highly variable flow and discharge pressure conditions, and sodium hypochlorite disinfection. Facility is a critical component to transfer reclaimed water from Greenland toward the Blacksford WRF RW service area.		
D.	<b>Southeast Regional Reclaimed Water Management Strategy</b> <i>JEA, Jacksonville, FL</i>	<b>2015</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <span style="float: right;"><input type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM</span> Lead Engineer and Senior Staff Consultant for the master planning efforts to evaluate and model the reclaimed water system infrastructure needs in the southeast portion of JEA's system. The innovative strategy identified and developed the methodology to transfer reclaimed water from the north grid to the south. It also developed the methodology to transfer excess reclaimed water during wet weather events from no-discharge WRF at Greenland to existing NPDES outfalls at Mandarin and Arlington East WRFs. The study evaluated a 20-year period and involved water balance modeling, development of diurnal and seasonal peaking factors, hydraulic modeling, and report outlining the phasing and estimated costs of any recommended improvements.		

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

	12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
	<b>Mitch Chiavaroli, PE</b>	<b>Wastewater Treatment</b>	A. TOTAL	B. CURRENT FIRM
	15. FIRM NAME AND LOCATION		<b>36</b>	<b>23</b>

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### 16. EDUCATION

B.S., Civil Engineering, University of Akron, Ohio

### 17. CURRENT PROFESSIONAL REGISTRATION

Professional Engineer, FL #56335

### 18. OTHER PROFESSIONAL QUALIFICATIONS



Mr. Chiavaroli's experience as a project engineer and project manager with environmental engineering consultants spans 32 years. Throughout his career, Mr. Chiavaroli has been involved in design and construction of more than 30 wastewater treatment plant projects, ranging from process improvements to new plant construction. He has also provided condition assessments and developed prioritized CIP plans for WWTP's approaching 100 mgd. With his experience in the design and construction contract administration for treatment plant projects, as well as utility infrastructure system improvements, he is a primary resource for technical review and cross discipline checking of construction project documents.

### 19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
A.	<b>Water Master Plan</b> <b>Hernando County, FL</b>	<b>2020</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <input checked="" type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM The County needed to revise the 2005 Water Supply Master Plan to address changes in the customer base while planning for future water supply needs. The County contracted McKim & Creed to prepare a new Potable Water Master Plan which included an analysis of potential and probable growth areas, as well as projected service needs in those areas. The development of the new Master Plan included a review of the prior master plans, previously completed related studies, and related studies currently underway. Recommendations within these other studies are incorporated into the Master Plan, as appropriate. Mr. Chiavaroli served as Project Manager.		
B.	<b>Howard F. Curren Advanced WWTP Master Plan Phase I</b> <b>City of Tampa, FL</b>	<b>2019</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <input checked="" type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM McKim & Creed provided engineering services for Phase 1 of master planning efforts launched by the City of Tampa for its Howard F. Curren Advanced Wastewater Treatment Plant that is permitted to treat 96 mgd with a Type I two-stage, high rate (pure oxygen and fine bubble aeration) activated sludge biological nitrification/denitrification process. Our team provided review of historical and ongoing projects, reports and studies; initial observation of the plant; and a conceptual level assessment of major equipment within the facility and its current operations. Mr. Chiavaroli served as project manager for Phase 2 of the project which included the evaluation of process alternatives and recommendations for improvements to the treatment plant.		
C.	<b>Northwest Regional WRF Expansion</b> <b>Hillsborough County, FL</b>	<b>2020</b>	<b>2020</b>
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <input checked="" type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM Mr. Chiavaroli worked with Hillsborough County to provide engineering design services for the expansion of the Northwest Regional Water Reclamation Facility (NWRWRF). McKim & Creed developed a site master plan related to the Northwest Wastewater Consolidation program and a design criteria package (DCP) for the NWRWRF expansion. Services were comprised of three tasks: site planning, design criteria package/procurement, and design/construction and implementation support. Site plan work consisted of coordinating the expansion of the facility along with the development of a new connector road.		
D.	<b>North Water Reclamation Facility - Phase I Improvements</b> <b>Manatee County, FL</b>	<b>2015</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <input checked="" type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM QA/QC review and engineering assistance for the design of components needed to expand the facility to a permitting capacity of 11.25 mgd. The facility treats wastewater from the County's north wastewater service area and utilizes a Type I oxidation ditch activated sludge biological treatment process including a nitrogen reduction (anoxic) stage, followed by filtration and high-level disinfection to produce Part III effluent suitable for slow-rate public access reuse.		



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

	12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
	<b>Phil Locke, PE</b>	<b>Water Treatment</b>	A. TOTAL 27	B. CURRENT FIRM 16
	15. FIRM NAME AND LOCATION <b>McKim &amp; Creed, Inc.   Clearwater, FL</b>			
16. EDUCATION B.S., Civil Engineering, University of Akron, Ohio		17. CURRENT PROFESSIONAL REGISTRATION Professional Engineer, FL #56335		


### 18. OTHER PROFESSIONAL QUALIFICATIONS

Mr. Locke offers decades of experience in the planning, design, permitting and construction management of water treatment, water supply, and water storage projects. His water treatment experience includes conventional, reverse osmosis, lime softening and ion exchange facilities; Phil also performs process optimization evaluations, pilot studies, and bench scale tests to improve operational performance and reduce energy and chemical costs. He has also prepared water master plans for clients with hydraulic modeling and forecasting of future flows. In addition to his depth of design engineering experience, Phil has over 20 years of construction management experience.

### 19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
A.	<b>Water Supply &amp; Treatment Master Plan Update</b> <i>Clearwater, FL</i>	<b>2022</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM</span> Project Manager for master planning services to the City of Clearwater to assist the City in plotting the course of its water supply, treatment and distribution systems for the next 30 years. The project scope included evaluations of hydrogeologic conditions within the City's service area, raw and finished water systems, water treatment facilities, wellfields and groundwater replenishment. Based on these evaluations, the team developed a 30-year master plan that offered recommendations on meeting long-term water supply needs, water quality goals and implementing system reliability. The plan included prioritized recommendations for capital improvement projects and planning level costs, and accounted for potential sea-level rise impacts on the City's water supply and treatment facilities.		
B.	<b>Manatee County Water Treatment Plant Biological Treatment Unit</b> <i>Manatee County, FL</i>	<b>2019</b>	<b>2019</b>
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM</span> Project Manager for design, permitting, bidding and construction for project that included construction of 6 new biological treatment units, new filter backwash pumping system and new scour system, backwash clearwell structure, new filter building for housing new treatment units (including electrical room), installation of new raw water flow meters and modulating valves, instrumentation and control systems, electrical systems, new process and yard piping, connections to existing rapid mix basins, new BTU backwash pond, new onsite lift station, approximately 13,000 LF of 6-inch force main, integration of BTU control system into existing SCADA, and integration of existing emergency power into BTU process.		
C.	<b>WTP#2 ZLD Design and Construction Phase Services</b> <i>City of Palm Coast, FL</i>	<b>2017</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM</span> The City of Palm Coast owns and operates Water Treatment Plant No. 2 which has a permitted capacity of 6.384 mgd. The plant is classified as a membrane softening facility where nanofiltration membranes are used primarily to reduce hardness. The dissolved solids that are removed by the nanofiltration membranes are consolidated into a process stream called concentrate. The City had selected Zero Liquid Discharge (ZLD as a concentrate management alternative) for WTP No. 2 which provides for recovery of concentrate along with beneficial reuse of solids removed from the concentrate stream. McKim & Creed provided full design services for the WTP #2 ZLD treatment process, including; geotechnical investigations, SUE locates, surveying, permitting, programming, and construction phase services.		
D.	<b>Lake Manatee Water Treatment Plant Ultrafiltration System Pilot Study &amp; Basis of Design Report</b> <i>Manatee County, FL</i>	<b>2010</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM</span> Project Manager. Concerns over the increasing difficulty to comply with limits on finished water turbidity, the age/condition of the existing infrastructure, the potential for more stringent regulatory requirements in the future, and current operation and maintenance costs to treat these occurrences led Manatee County to consider alternative treatment technologies to address these issues. A pilot study was conducted for approximately 7 months to test the feasibility of potential treatment improvements that were included in the Lake Manatee Water Treatment Pilot Study Report. Subsequent to the pilot study, this project included the preparation of a BODR for the implementation of a UF system, to include a detailed project scope and process component definition, identification of equipment and process component options, project schedule including design, permitting and construction timelines, permitting requirements and updated estimates of project costs. The BODR was utilized to initiate detailed design and enable permitting for the UF system.		

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

	12. NAME <b>Tracey Webb, PE</b>	13. ROLE IN THIS CONTRACT <b>Site, Civil, &amp; Stormwater</b>	14. YEARS EXPERIENCE	
			A. TOTAL <b>23</b>	B. CURRENT FIRM <b>3</b>
	15. FIRM NAME AND LOCATION <b>McKim &amp; Creed, Inc.   Tampa, FL</b>			
16. EDUCATION B.S., Civil Engineering, Purdue University		17. CURRENT PROFESSIONAL REGISTRATION Professional Engineer, FL #88356		

### 18. OTHER PROFESSIONAL QUALIFICATIONS



Ms. Webb is a licensed civil engineer with 23 years of experience in civil and transportation engineering design. She has designed or managed over 65 civil engineering projects and has been engaged in the planning, design and construction of municipal projects ranging from maintenance evaluation and replacement designs of roadways to ADA compliance of sidewalks/crossings. Ms. Webb has integrated utility improvement projects with roadway improvement, drainage, and complete street projects to bring added value to clients.

### 19. RELEVANT PROJECTS

#	(1) TITLE AND LOCATION	(2) YEAR COMPLETED		(3) BRIEF DESCRIPTION AND SPECIFIC ROLE
		PROFESSIONAL SERVICES	CONSTRUCTION	
A.	<b>Lake Maria Sanchez Flood Mitigation and Drainage Project</b> <i>City of St. Augustine, FL</i>	2022	2022	<input checked="" type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM Project Engineer. McKim & Creed is providing design, permitting and construction services for a stormwater pump station, stormwater conveyance and treatment systems, bulkheads and recreational facilities for the Lake Maria Sanchez Flood Mitigation and Drainage project that followed severe damage the City of St. Augustine suffered in 2016 from Hurricane Matthew. As part of this resiliency project to improve drainage and mitigate storm surge and nuisance tidal flooding, the City chose to leverage current technologies for back flow prevention in conjunction with the installation of conveyance improvements and a stormwater pump station to pump stormwater out of the project area during periods of high water in the Matanzas River. The design also incorporates a walking/multi-use trail around Lake Maria Sanchez.
B.	<b>1st Avenue and 8th Street Drainage Improvements</b> <i>City of Silvis, IL</i>	2018	2018	<input type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM Ms. Webb served as Project Engineer for this storm sewer improvement project to increase storm sewer intake and piping capacity and reduce stormwater flooding with installation of 740 feet of 48-inch diameter storm sewer piping with 72 LF of slotted vane drains to quickly remove surface water from the pavement during significant rain events.
C.	<b>Lincoln Road, Alcoa Avenue &amp; Robeson Avenue Improvements</b> <i>City of Bettendorf, IA</i>	2016	2016	<input type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM Ms. Webb served as Project Engineer for this project. Involvement included hydraulic design, pavement design and preparation of plans and specifications for roadway improvement projects. Pavement failures on Alcoa Avenue caused the City of Bettendorf to look at the reconstruction of Alcoa Avenue and several other local urban streets. The work included complete pavement reconstruction, evaluation of existing sanitary facilities and needed repairs, and the hydraulic analysis and complete redesign of the existing storm sewer system for the entire drainage basin. The project was located within a 43.7 acre drainage basin that had a primary outlet to a tributary of Duck Creek at Lincoln Road. The project improvements redirected Alcoa Avenue and Robeson Avenue storm drainage from an existing easement across developed private property to the roadway drainage system planned as part of the improvement upgrades, including installation of 73 new storm drainage structures. Plans and specifications were prepared for three separate projects to better accommodate access needs to a local elementary school located within the project limits. Specific design elements included 4150 ft of new urban pavement construction and 4180 ft of storm sewer construction, ranging from 15" to 72" diameter, 16 sanitary manhole replacements and 662 ft of 8" sanitary sewer main repairs.
D.	<b>Tanglefoot Lane (Phase 3) Improvements</b> <i>City of Bettendorf, IA</i>	2016	2016	<input type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM Ms. Webb served as Project Engineer for this project. The project included roadway reconstruction and drainage improvements on Tanglefoot Lane from Utica Ridge Road to Greenbrier Drive (approximately 0.5 mile). Involvement included complete roadway reconstruction from a 24-foot section with shoulders and ditches to a new 49-foot urban roadway section with curb and gutter and an enclosed drainage system. Design challenges included the addition of a 10-foot wide multi-use path on the north side of the roadway and redesign of nine side street intersections to current ADA standards. Temporary construction easements were prepared and negotiated with many of the adjacent land owners, including presentation of project development at public information meeting.



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

	12. NAME <b>Patrick Jehle, Jr., PE</b>	13. ROLE IN THIS CONTRACT <b>Parks / Recreation</b>	14. YEARS EXPERIENCE	
			A. TOTAL <b>17</b>	B. CURRENT FIRM <b>15</b>
	15. FIRM NAME AND LOCATION <b>McKim &amp; Creed, Inc.   Pensacola, FL</b>			 <b>McKIM&amp;CREED</b>
16. EDUCATION B.S., Civil Engineering, Georgia Institute of Technology		17. CURRENT PROFESSIONAL REGISTRATION Professional Engineer, FL #71528		

### 18. OTHER PROFESSIONAL QUALIFICATIONS

Mr. Jehle has over 15 years of experience of diverse civil engineering experience in the areas of improving recreational and park facilities, developing wetland trails, integrating intermodal trails with roadway projects, and protecting green spaces. Mr. Jehle also has experience with the design and permitting of a wide range of storm water management system types, including conventional dry ponds, dry ponds with both gravity fed and pump assisted filtration, below-grade exfiltration, wet retention and vegetated natural buffer configurations.

## 19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION
A.	<b>Fairpoint to Shoreline Multi-Use Pathway</b> <i>Gulf Breeze, FL</i>	2022	2022
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <input checked="" type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM McKim & Creed provided engineering services to design a new 10-foot-wide multi-use pathway along the Fairpoint Drive/Shoreline Drive loop, a distance of approximately four miles, that will support multi-modal transportation for bikes, carts, scooters and other wheeled modes of transport in this active area of Gulf Breeze. The project included design and construction of a pile-supported wood boardwalk through the low lying wetlands in Shoreline Park and rehabilitation of 1.3 miles of pavement along Shoreline Drive. It also included rehabilitation and upgrade of an existing 5-foot-wide sidewalk within the loop to provide an ADA-compliant path for pedestrian foot traffic, and safety improvements for side street crossings and critical mid-block crossing locations. Our team conducted significant public outreach efforts that included a Map Workshop and in-field Awareness Walk to educate and garner input from communities impacted by the new developments.		
B.	<b>Daniel Drive and Joachim Drive Improvements</b> <i>Gulf Breeze, FL</i>	2022	2022
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <input checked="" type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM This project includes construction of new access and safety improvements along Daniel Drive and Joachim Drive in Gulf Breeze, Florida. Vehicle access improvements include driveway connection upgrades to several properties within the project area, intersection improvements at Daniel Drive and Andrew Jackson Trail, and upgraded public parking. Pedestrian access improvements include new sidewalks, pedestrian crosswalks and upgraded ADA accessibility features throughout the project area. Safety improvements included addition of new raised pedestrian crosswalks, new speed tables, and upgraded signing and pavement markings.		
C.	<b>North Old Corry Field Road Sidewalks and Drainage (FDOT District 3 LAP)</b> <i>Escambia County, FL</i>	2020	2020
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <input checked="" type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM Project Manager. This LAP project included sidewalk and drainage improvements along North Old Corry Field Road in Escambia County, Florida. New sidewalk is being constructed along the east side of the roadway, and an new inlet and pipe system is included to replace an existing open ditch system.		
D.	<b>Wetlands Trail Boardwalk</b> <i>Gulf Breeze, FL</i>	2022	2022
	(3) BRIEF DESCRIPTION AND SPECIFIC ROLE <input checked="" type="checkbox"/> PROJECT PERFORMED WITH CURRENT FIRM McKim & Creed provided surveying, engineering, and landscape architecture services to design a new pile-supported wood boardwalk to traverse across low lying wetlands in nearby Shoreline Park, providing interconnectivity between residential neighborhoods and the public park as well as a new public beach access along Santa Rosa Sound.		

## F. EXAMPLE PROJECT

20. EXAMPLE PROJECT NUMBER

1

### 21. TITLE AND LOCATION

**LS 87 Phases 1-3**  
Sarasota, FL

### 22. YEAR COMPLETED

PROFESSIONAL SERVICES

2020

CONSTRUCTION

2022

### 23. PROJECT OWNER'S INFORMATION

#### A. PROJECT OWNER

City of Sarasota

#### B. POINT OF CONTACT NAME

Mr. Anthony Centurione, PE

#### C. POINT OF CONTACT PHONE NUMBER, & EMAIL

941.316.8490 | anthony.centurione@sarasotafl.gov

### 24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

The City of Sarasota embarked on a critical program to replace aged Lift Station 7 (LS 7) with a new, state-of-the-art Lift Station 87 (LS 87) facility. LS 7 handled approximately one-third of Sarasota's wastewater flow and had a history of overflows from equipment failures. The project was designed and constructed in 3 phases to manage project risks.



Phase 1 included the installation of 1,239 feet of new 36-inch gravity mains at an average depth of about 30 feet. Approximately 670 feet of gravity main included a subaqueous crossing under the Hudson Bayou, an environmentally sensitive waterway, and under the Osprey Avenue Bridge, an historic structure, using micro-tunneling construction techniques. Micro-tunneling was also used for another 560 feet underneath the city-owned Luke Wood Park, the site for new LS 87, in order to minimize construction impacts and preserve the park's numerous species of protected Grand Trees.

Phase 2 included the demolition of the existing structures and construction of the new 6.5 mgd facility. The new lift station was designed to withstand the impacts of Category 3 winds and storm surge, which required the electrical equipment and back-up generator to be installed at or above an elevation of 26 feet.

Phase 3 included the installation of 24-inch gravity-fed wastewater pipeline to replace aged sewer mains. Crews also replaced aging ductile iron and asbestos cement water mains and installed new reclaimed water mains. New roadways, sidewalks, and drainage improvements were included in the project to bring added value to the residents.

#### PROJECT HIGHLIGHTS:

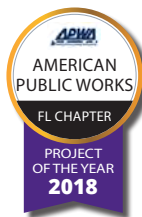
- ✓ Lift Station Relocation
- ✓ Microtunneling, HDD, and Open Cut Construction
- ✓ Asbestos Pipe Removal
- ✓ Proactive public outreach
- ✓ Replacement of aged water mains
- ✓ Extension of reclaimed water mains
- ✓ Streetscape Enhancements



**Construction Bid Costs: \$39,155,414**

**Final Construction Costs: \$38,569,765**

**Engineering Fees: \$7.9M**



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

A.

#### (1) FIRM NAME

**McKim & Creed, Inc.**

#### (2) FIRM LOCATION

Sarasota, FL

#### (3) ROLE

Prime

STANDARD FORM 330 (REV. 7/2021)



## F. EXAMPLE PROJECT

20. EXAMPLE PROJECT NUMBER

2

## 21. TITLE AND LOCATION

**FY 19 Water Main Replacement Design-Build**  
*Tampa, FL*

## 22. YEAR COMPLETED

PROFESSIONAL SERVICES

2020

CONSTRUCTION

2021

## 23. PROJECT OWNER'S INFORMATION

## A. PROJECT OWNER

City of Tampa

## B. POINT OF CONTACT NAME

Rory Jones, PE

## C. POINT OF CONTACT PHONE NUMBER, &amp; EMAIL

813.274.8121 | rory.jones@tampagov.net

## 24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

The FY19 CIP Water Main Improvement Program included the replacement of approximately 102,500 LF of water mains up to 16-inch in diameter throughout 20 project areas within the City's water service area. The project targeted under-sized and older pipelines, including asbestos cement water mains, as well as the removal of parallel and redundant water mains to improve service and water quality. Initial services included an evaluation and prioritization of the 20 projects, to facilitate permitting, design, and stakeholder engagement.



As the first of two construction phases for the program, Phase 1 was an "early out" package to expedite design and construction of eight project areas with a history of breaks that included over 7,100 LF of water mains. The Team successfully provided turnkey services including, surveying, SUE, design, permitting, public outreach, geotechnical, CEI and construction services.

The water main replacement work was designed and installed using both open-cut and horizontal directional drill (HDD) technology. Our team coordinated permitting with multiple agencies, including rights-of-way for City of Tampa, Hillsborough County, and Florida Department of Transportation; and general permitting through Florida Department of Environmental Protection, Hillsborough County Health Department and Hillsborough County Environmental Protection Commission.

**The City selected the progressive design-build delivery method to manage risks on this city-wide water main replacement project.**

**Engineering Fees: \$1,838,816**

**Construction Costs: \$28.1M**

## PROJECT HIGHLIGHTS:

- ✓ Water main replacement project
- ✓ Asbestos cement pipe removal
- ✓ Shallow horizontal directional drills
- ✓ Proactive stakeholder engagement
- ✓ Zero Change Orders



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

A.

## (1) FIRM NAME

**McKim & Creed, Inc.**

## (2) FIRM LOCATION

Clearwater, FL

## (3) ROLE

Prime

STANDARD FORM 330 (REV. 7/2021)

F. EXAMPLE PROJECT		20. EXAMPLE PROJECT NUMBER	3
21. TITLE AND LOCATION		22. YEAR COMPLETED	
<b>Northwest Regional WRF Expansion</b> Hillsborough County, FL		PROFESSIONAL SERVICES	CONSTRUCTION
		2020	2020
23. PROJECT OWNER'S INFORMATION			
A. PROJECT OWNER Hillsborough County	B. POINT OF CONTACT NAME Kelly Kiner, Project Manager	C. POINT OF CONTACT PHONE NUMBER, & EMAIL 813.209.3067   KinerK@hillsboroughcounty.org	

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

The Northwest Hillsborough Wastewater Consolidation Program consisted of retiring two outdated wastewater treatment plants (Dale Mabry and River Oaks), expanding the Northwest Regional Water Reclamation Facility, and building new transmission pipelines and two new pump stations to transfer wastewater from the old plants to the expanded Northwest plant. New reclaimed water mains returned reclaimed water back to the service areas.



Our team partnered with Hillsborough County to develop a site master plan for the expansion and provided design support throughout all phases of the project. We also provided construction engineering and inspection support. Specific professional services provided by our team included wastewater and biosolids process engineering; structural, geotechnical, electrical, transportation, and environmental (wetlands) engineering; SCADA; site planning; land development; trail design; public information and value engineering.

**This project included new headworks (mechanical screening and degritting), inline flow equalization, and influent flow distribution box; retrofit of existing biological nutrient removal basins; additional odor control systems; additional clarifier flow splitter box and additional secondary clarifiers; new bulk sodium hypochlorite storage tanks and associated chemical feed pumps; additional RAS pump station, additional new filtration system; additional chlorine contact basins; additional effluent transfer pumps and new reclaimed water pumps; additional prestressed concrete reject water storage tank and RCW storage tanks; electrical and instrumentation improvements; yard piping and site work.**

As Owner’s Representative, we assisted in evaluations of technical proposals and selection of a design-build team, provided technical reviews of plant designs, and provided support to the County Project Management group in overseeing construction work for compliance with the design criteria package for the plant expansion. We also worked closely with Hillsborough County’s Communications Department to develop and implement the overall consolidation program.

**Engineering Fees: \$3,551,611**  
**Construction Costs: \$193M**

PROJECT HIGHLIGHTS:

- ✓ Served as Owner’s Advisor for County’s largest design-build project
- ✓ Provided extensive wetland delineation, mitigation, and permitting services
- ✓ Developed trails and educational features in dedicated wetland areas to buffer facility from residential areas
- ✓ Provided condition assessment of existing facility and unit processes
- ✓ Provided preliminary engineering for facility expansion, including process evaluations and selection



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
A.	(1) FIRM NAME <b>McKim &amp; Creed, Inc.</b>	(2) FIRM LOCATION Clearwater, FL
		(3) ROLE Prime

F. EXAMPLE PROJECT		20. EXAMPLE PROJECT NUMBER	4
21. TITLE AND LOCATION		22. YEAR COMPLETED	
<b>Fairpoint to Shoreline Multi-Use Pathway</b> <i>Gulf Breeze, FL</i>		PROFESSIONAL SERVICES	CONSTRUCTION
		2020	2022
23. PROJECT OWNER'S INFORMATION			
A. PROJECT OWNER City of Gulf Breeze	B. POINT OF CONTACT NAME Mr. Craig Chamberlin	C. POINT OF CONTACT PHONE NUMBER, & EMAIL 850.934.5109   cchamberlin@gulfbreezefl.gov	

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

McKim & Creed provided surveying, civil engineering, and landscape architecture services to design a new 10-foot-wide multi-use pathway along the Fairpoint Drive/Shoreline Drive loop, a distance of approximately four miles, that will support multi-modal transportation for bikes, carts, scooters and other wheeled modes of transport in this active area of Gulf Breeze. This design also includes intersection safety improvements at side streets and critical mid-block crossing locations, along with rehabilitation and upgrade of an existing 5-foot wide sidewalk to provide an ADA-compliant path for pedestrian foot traffic.

Additionally, our team completed community multiple outreach efforts to educate citizens about the project and gather public input early in the project’s development, such that the input could truly influence the final design.

McKim & Creed provided its services on this project throughout its entire lifecycle, including bidding assistance, construction phase services, and project closeout services.

**Engineering Fees: \$90,187**  
**Construction Costs: \$3,155,411**



PROJECT HIGHLIGHTS:

- ✓ Multi-use / multimodal pathway
- ✓ Urban design environment
- ✓ Designed an ADA-compliant pathway within the existing constrained right-of-way
- ✓ Developed plans for a pile-supported wooden boardwalk that crosses wetlands
- ✓ Operation and maintenance friendly designs
- ✓ Proactive public outreach program



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
A.	(1) FIRM NAME <b>McKim &amp; Creed, Inc.</b>	(2) FIRM LOCATION Pensacola, FL
		(3) ROLE Prime



F. EXAMPLE PROJECT			20. EXAMPLE PROJECT NUMBER	5
21. TITLE AND LOCATION <b>Backup Power to 30 Pump Stations</b> <i>Palm Coast, FL</i>			22. YEAR COMPLETED	
			PROFESSIONAL SERVICES 2021	CONSTRUCTION 2021
23. PROJECT OWNER'S INFORMATION				
A. PROJECT OWNER City of Palm Coast	B. POINT OF CONTACT NAME Steve Flanagan	C. POINT OF CONTACT PHONE NUMBER, & EMAIL 386.986.2354   sflanagan@palmcoastgov.com		

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

McKim & Creed provided condition assessment, design, permitting, and construction administration services to the City of Palm Coast for the upgrade of 30 lift stations. The goal of the project was to improve the resiliency and reliability of critical lift stations throughout the wastewater collection system.



Hurricane Irma (2017) caused city-wide power outages. Critical lift stations lost power and overflowed as a result. Although the lift stations had receptacles for portable generators, the City was not able to monitor the operation of the lift stations remotely and/or respond to mitigate all overflows.

The City acquired FEMA Hazard Mitigation Grants to upgrade 30 lift stations and to improve the resiliency of the wastewater collection system.

McKim & Creed provided the following services:

- Condition Assessments
- Flood Zone Evaluations
- Basis of Design Memorandum
- Preliminary and Final Design
- Construction Administration
- FEMA Grant Assistance

Improvements included:

- Back-Up Generators with Automatic Transfer Switches
- SCADA/I&C/Electrical Upgrades
- Site Work

The single contract document included 6 bid packages. Each bid package included 5 lift stations. Contractors were allowed to bid on 1 or more of the 5 packages, with the intent of increasing local participation by small businesses.

**Engineering Fees: \$289,950**  
**Construction Costs: \$2.2M**

PROJECT HIGHLIGHTS:

✔ Lift Station Improvement Project

✔ Provided FEMA funding assistance

✔ Performed condition assessments of 30 lift stations

✔ Provided site, safety, and security improvements

✔ Bid packages structured to encourage local participation by small and disadvantaged construction firms



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
A.	(1) FIRM NAME <b>McKim &amp; Creed, Inc.</b>	(2) FIRM LOCATION Clearwater, FL Daytona, FL	(3) ROLE Prime

## F. EXAMPLE PROJECT

20. EXAMPLE PROJECT NUMBER

6

## 21. TITLE AND LOCATION

**Hurricane Hermine Sanitary Sewer Collection System Engineering Evaluations**  
**Largo, FL**

## 22. YEAR COMPLETED

PROFESSIONAL SERVICES

2020

CONSTRUCTION

N/A

## 23. PROJECT OWNER'S INFORMATION

## A. PROJECT OWNER

City of Largo

## B. POINT OF CONTACT NAME

Jerry Woloszynski, PE, Director

## C. POINT OF CONTACT PHONE NUMBER, &amp; EMAIL

727.587.6713 | ljwoloszy@largo.com

Our team evaluated the impact on the system due to Hurricane Hermine and established a plan to prevent sanitary system overflows (SSOs) from occurring during future wet seasons. Initial tasks included hydraulic modeling, capacity assessments, flow and rainfall monitoring, smoke/dye testing, 780 manhole inspections, night flow isolations, 128,000 LF of CCTV inspections, I&I quantification and recommended abatement. The design effort included both trenchless and traditional open cut and replacement.



## PROJECT HIGHLIGHTS:

- ✓ Assisted with FEMA funding
- ✓ Condition assessment of gravity sewers
- ✓ Condition assessment of manholes
- ✓ Developed GIS based asset management plan
- ✓ Critical rehabilitation & repair work was performed by City

McKim & Creed performed assessment of the wastewater collection/conveyance system in five (5) lift station service areas. The assessments were driven by recurring SSOs within the five (5) lift station service areas. The project included open channel flow monitoring at eighteen locations, comprehensive smoke testing of each service area, comprehensive manhole inspections in each service area, comprehensive night flow isolation measurements of each service area and internal pipeline CCTV inspection of every gravity sewer that had high levels of groundwater infiltration and the gravity sewers that connected to manholes that required some form of rehabilitation. Hydraulic models of the collection/conveyance systems in each lift station service area were developed based on the recorded flow data and water usage records and various return wet weather rainfall flow simulations were conducted. With the information obtained through our field investigations and modeling results, McKim & Creed developed both capacity enhancement and infrastructure rehabilitation designs and specifications. Rehabilitation designs included mainline/lateral cured-in-place lining and polyurethane and epoxy manhole coatings. Capacity enhancements and replacement designs (due to alignment irregularities) required permitting, traffic control and landscaping improvements.



**Engineering Fees: \$1,2M**

**Construction Costs: N/A (rehabilitation performed by City crews)**

*"We believe this project has saved the City of Largo more than \$2.6 million in fines that would have occurred had we not resolved our SSO issues expediently. With the execution of the abatement plan developed by McKim & Creed, we will eliminate backup and lower costs at our treatment plant, which is a win-win for our citizens and our environment."*

**-Jerald L. Woloszynski, PE, Director of Engineering Services  
 City of Largo, Florida**



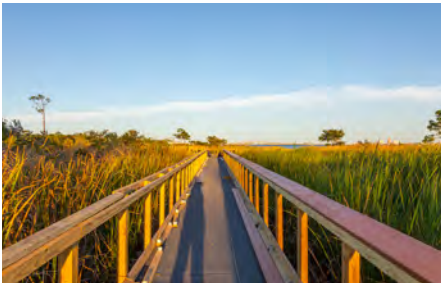
## 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

A.	(1) FIRM NAME <b>McKim &amp; Creed, Inc.</b>	(2) FIRM LOCATION Clearwater, FL	(3) ROLE Prime
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F. EXAMPLE PROJECT		20. EXAMPLE PROJECT NUMBER	7
21. TITLE AND LOCATION <b>Wetlands Trail Boardwalk</b> <i>Gulf Breeze, FL</i>		22. YEAR COMPLETED	
		PROFESSIONAL SERVICES 2020	CONSTRUCTION 2022
23. PROJECT OWNER'S INFORMATION			
A. PROJECT OWNER City of Gulf Breeze	B. POINT OF CONTACT NAME Mr. Craig Chamberlin	C. POINT OF CONTACT PHONE NUMBER, & EMAIL 850.934.5109   cchamberlin@gulfbreezefl.gov	

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

McKim & Creed provided surveying, civil engineering, and structural engineering services to design a new pile-supported wood boardwalk across low lying wetlands in the City's Shoreline Park, providing interconnectivity between residential neighborhoods and the public park as well as a new public beach access along Santa Rosa Sound.



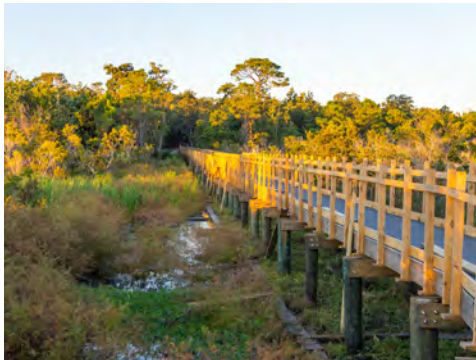
PROJECT HIGHLIGHTS:

- ✓ Multi-use / multimodel pathway
- ✓ Urban design environment
- ✓ Operation and maintenance friendly designs
- ✓ Proactive public outreach program

Additionally, our team's ecological consultant identified locations of noteworthy environmental features in the wetlands and the alignment of the boardwalk was established to both protect these features and provide the public viewing and educational opportunities.

McKim & Creed provided its services on this project throughout its entire lifecycle, including bidding assistance, construction phase services, and project closeout services.

**Engineering Fees: \$90,187**  
**Construction Costs: \$954,043**



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
A.	(1) FIRM NAME <b>McKim &amp; Creed, Inc.</b>	(2) FIRM LOCATION Pensacola, FL	(3) ROLE Prime



## F. EXAMPLE PROJECT

20. EXAMPLE PROJECT NUMBER

8

## 21. TITLE AND LOCATION

# Lake Manatee Water Treatment Plant Biological Treatment Unit

Manatee County, FL

## 22. YEAR COMPLETED

PROFESSIONAL SERVICES

2019

CONSTRUCTION

2019

## 23. PROJECT OWNER'S INFORMATION

## A. PROJECT OWNER

Manatee County

## B. POINT OF CONTACT NAME

Jeffrey Streitmatter, PE

## C. POINT OF CONTACT PHONE NUMBER, &amp; EMAIL

941.708.7450 | jeff.streitmatter@mymanatee.org

## 24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

Manatee County selected McKim & Creed to provide engineering design, bidding, permitting, surveying and subsurface utility engineering, and construction phase services for this \$20 million project that added a new biological filtration system for the County's water treatment plant. The biological filter was designed to remove taste and odor constituents in the surface water supply, while eliminating the previous use of powder activate carbon (PAC). The project included construction of six new biological filters, new filter backwash pumping system, new filter backwash air scour system, backwash clearwell structure, new filter building for housing new treatment units (including electrical room), installation of new raw water flow meters and modulating valves, instrumentation and control systems, electrical systems, new process and yard piping (totaling 4,175 LF of 24- to 42-inch ductile iron pipe), connections to existing rapid mix basins, new BTU backwash pond, new on-site lift station, approximately 13,000 LF of 6-inch force main, integration of the BTU control system into the LMWTP's existing SCADA system and integration of the existing emergency power system into the BTU process.



## PROJECT HIGHLIGHTS:

- ✓ Water treatment plant upgrade
- ✓ Provided enhanced water quality for customers
- ✓ Included design of new pump station
- ✓ Structural, mechanical, electrical and I&C
- ✓ Cutting edge technology

**The new drinking water filtration system is the first of its kind to employ the treatment process directly upstream of the rapid-mix basin. It is anticipated to save the County upwards of \$750,000 yearly while providing area residents with consistently better tasting and smelling drinking water.**

McKim & Creed included full-time onsite CEI services during the entire course of construction. Our local lead discipline engineers met with the Contractor and our RPR on-site when issues arose to provide timely, innovative, and cost-effective resolutions.



**Engineering Fees: \$2M**

**Construction Costs: \$18.2M**



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

A.	(1) FIRM NAME	(2) FIRM LOCATION	(3) ROLE
	McKim & Creed, Inc.	Clearwater, FL	Prime

STANDARD FORM 330 (REV. 7/2021)

F. EXAMPLE PROJECT		20. EXAMPLE PROJECT NUMBER	9
21. TITLE AND LOCATION <b>Winkler Canal Water Main Replacement</b> <i>Fort Myers, FL</i>		22. YEAR COMPLETED	
		PROFESSIONAL SERVICES 2023	CONSTRUCTION 2023
23. PROJECT OWNER'S INFORMATION			
A. PROJECT OWNER City of Fort Myers	B. POINT OF CONTACT NAME Jason Sciandra	C. POINT OF CONTACT PHONE NUMBER, & EMAIL 239.321.7467   jsciandra@cityftmyers.com	

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

McKim and Creed was selected to provide engineering design, bidding, permitting, surveying and subsurface utility engineering, and construction phase services for this \$2 million project that improves water quality by replacing 3,000 LF of 12-inch water main and 1,400 LF of 16-inch water main. The project traverses a section of the Winkler Canal and included three horizontal directional drills (HDDs), totaling 1,200 LF, to avoid impacting the canal, a large concrete water control structure and a large culvert crossing. A construction phasing plan was provided to address connections to an existing water storage tank facility, multiple intersecting mains, and numerous service laterals along the alignment. McKim & Creed provided engineering services during construction, including periodic inspection and meetings with the Construction Manager, Contractor and City engineering staff when issues arose to provide timely, innovative, and cost-effective resolutions, including an additional directional drill to provide additional looping and reliability.



PROJECT HIGHLIGHTS:

✓

 Replaced aged water mains

✓

 Multiple Horizontal Directional Drills

✓

 Improved system reliability

✓

 Performed under a general engineering services contract



**Engineering Fees: \$247,690**  
**Construction Costs: \$1,967,559**

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
A.	(1) FIRM NAME <b>McKim &amp; Creed, Inc.</b>	(2) FIRM LOCATION Clearwater, FL
		(3) ROLE Prime

F. EXAMPLE PROJECT		20. EXAMPLE PROJECT NUMBER	10
21. TITLE AND LOCATION <b>Water Loss Management</b> <i>City of Miramar, FL</i>		22. YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION N/A
23. PROJECT OWNER'S INFORMATION			
A. PROJECT OWNER City of Miramar	B. POINT OF CONTACT NAME Junior Francis	C. POINT OF CONTACT PHONE NUMBER, & EMAIL 954.883.6802   jafrancis@ci.miramar.fl.us	

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

The City of Miramar was rapidly approaching its permitted source water limits, and eliminating water loss became a primary objective. City staff had noticed a trend of increasing water production that was not consistent with the rate of population growth or new service connections. After performing flow and pressure analyses of the system, our team conducted a leak detection survey on approximately 80 miles of pipelines and associated service connections to determine the exact location of the water loss.

At the completion of the survey, 289 distribution leaks and 30 customer leaks were identified. Nearly all of the leaks had no significant visible water at the surface. During the repair efforts, our team was able to pinpoint the exact location of 90% of the leaks for the City. With such a high success rate, the City's crews were able to save time, money, and minimize disruptions to services. Ultimately, at similar distribution pressures, the City's water demands were reduced by approximately 1 million gallons per day (mgd). Savings were estimates at 1.204,352 gallons per day (or 476,088,480 gallons per year) which returned \$2 million a year in revenue to the City.

**Engineering Fees: \$68,000**  
**Construction Costs: N/A (repairs performed by City crews)**

PROJECT HIGHLIGHTS:

- ✓ Repair of aged water distribution mains
- ✓ Savings were estimated at 1,304,352 gallons per year (or 476,088,480 gallons per year) which returned \$2 million a year in revenue to the City
- ✓ At the completion of survey, 289 distribution leaks and 30 customer leaks were identified
- ✓ Leak Detection Survey on approximately 80 miles of pipelines

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
A.	(1) FIRM NAME <b>McKim &amp; Creed, Inc.</b>	(2) FIRM LOCATION Boca Raton, FL
		(3) ROLE Prime



## G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

[illegible]

## 29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT	NO.	TITLE OF EXAMPLE PROJECT
1	City of Sarasota   LS 87 Phases 1-3	6	City of Largo   Hurricane Hermine SSES
2	City of Tampa   FY 19 Water Main Replacement Design-Build	7	City of Gulf Breeze   Wetlands Trail Boardwalk
3	Hillsborough County   Northwest Regional WRF Expansion	8	Manatee County   Water Treatment Plant Biological Treatment Unit
4	City of Gulf Breeze   Fairpoint to Shoreline Multi-Use Pathway	9	City of Fort Myers   Winkler Water Main Replacement
5	City of Palm Coast   Backup Power to 30 Pump Stations	10	City of Miramar   Water Loss Management

# ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)  
RFQ 2023-010

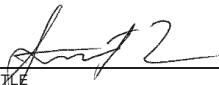
## PART II- GENERAL QUALIFICATIONS

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

2a. FIRM (OR BRANCH OFFICE) NAME <b>McKim &amp; Creed, Inc.</b>			3. YEAR ESTABLISHED <b>1994</b>		4. Unique Entity Identifier <b>E5KPBJ3MQMU7</b>	
2b. STREET <b>6501 Congress Avenue, #160</b>			5. OWNERSHIP			
2c. CITY <b>Boca Raton</b>			12d. STATE <b>FL</b>		12e. ZIP CODE <b>33487</b>	
6a. POINT OF CONTACT NAME AND TITLE <b>A. Street Lee, PE, ENV SP   CEO</b>			a. TYPE <b>Professional Corporation</b>			
6b. TELEPHONE NUMBER <b>(727) 442-7196</b>			b. SMALL BUSINESS STATUS <b>No</b>			
16c. E-MAIL ADDRESS <b>slee@mckimcreed.com</b>			7. NAME OF FIRM (If block 2a is a branch office) <b>McKim &amp; Creed, Inc.</b>			
8a. FORMER FIRM NAME(S) (If any) <b>McKim &amp; Creed, P.A.   McKim &amp; Creed Engineers, P.A.</b>			8b. YR. ESTABLISHED <b>1978</b>		8c. UNIQUE ENTITY IDENTIFIER <b>E5KPBJ3MQMU7</b>	

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 (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	101	1	E03	Electrical Studies and Design	7
08	CADD Technicians	48	0	F03	Fire Protection	1
12	Civil Engineers	65	3	H04	Heating; Ventilating; Air Conditioning	6
15	Construction Inspectors	5	2	A12	Automation; Controls; Instrumentation	6
16	Construction Manager	6	0	P06	Planning (Site, Installation, Project)	7
21	Electrical Engineers	18	0	P07	Plumbing & Piping Design	5
29	Geographic Information System Specialist	4	0	S09	Structural Design; Special Structures	4
38	Land Surveyors	33	0	P12	Power Generation; Transmission; Distribution	1
39	Landscape Architects	5	0	G04	Geographic Information System Services: Development, Analysis, and Data Collection	3
42	Mechanical Engineers	20	0	H13	Hydrographic Surveying	5
46	Photogrammetrists	1	0	S13	Storm Water Handling and Facilities	1
57	Structural Engineers	5	0	U03	Utilities	8
33	Hydrographic Surveyors	11	0	S10	Surveying; Platting; Mapping; Flood Plain Studies	8
23	Environmental Engineers	0	0	R07	Remote Sensing	4
49	Remote Sensing Specialists	9	0	L02	Land Surveying	8
	Fire Protection Designers	2	0	I03	Industrial Waste Treatment	8
	Electrical Designers	21	0	W03	Water Supply; Treatment; Distribution	8
	Mechanical Designers	22	0			
	Survey Crew Members	242	0			
	Instrumentation & Controls Designers	13	0			
	Engineer Intern	51	0			
	Other Employees	48	0			
Total		731	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	4	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 <b>02/21/22</b>
c. NAME AND TITLE <b>A. Street Lee, PE, ENV SP   C</b>	

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

# ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)  
RFQ 2023-010

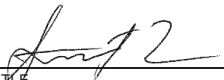
## PART II- GENERAL QUALIFICATIONS

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

2a. FIRM (OR BRANCH OFFICE) NAME <b>McKim &amp; Creed, Inc.</b>			3. YEAR ESTABLISHED <b>1994</b>		4. Unique Entity Identifier <b>E5KPB3MQMU7</b>	
2b. STREET <b>1365 Hamlet Avenue</b>			5. OWNERSHIP			
2c. CITY <b>Clearwater</b>			12d. STATE <b>FL</b>		12e. ZIP CODE <b>33756</b>	
6a. POINT OF CONTACT NAME AND TITLE <b>A. Street Lee, PE, ENV SP   CEO</b>			a. TYPE <b>Professional Corporation</b>			
6b. TELEPHONE NUMBER <b>(727) 442-7196</b>			b. SMALL BUSINESS STATUS <b>No</b>			
16c. E-MAIL ADDRESS <b>slee@mckimcreed.com</b>			7. NAME OF FIRM (If block 2a is a branch office) <b>McKim &amp; Creed, Inc.</b>			
8a. FORMER FIRM NAME(S) (If any) <b>McKim &amp; Creed, P.A.   McKim &amp; Creed Engineers, P.A.</b>			8b. YR. ESTABLISHED <b>1978</b>		8c. UNIQUE ENTITY IDENTIFIER <b>E5KPB3MQMU7</b>	

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 (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	101	6	E03	Electrical Studies and Design	7
08	CADD Technicians	48	1	F03	Fire Protection	1
12	Civil Engineers	65	5	H04	Heating; Ventilating; Air Conditioning	6
15	Construction Inspectors	5	0	A12	Automation; Controls; Instrumentation	6
16	Construction Manager	6	1	P06	Planning (Site, Installation, Project)	7
21	Electrical Engineers	18	4	P07	Plumbing & Piping Design	5
29	Geographic Information System Specialist	4	0	S09	Structural Design; Special Structures	4
38	Land Surveyors	33	0	P12	Power Generation; Transmission; Distribution	1
39	Landscape Architects	5	0	G04	Geographic Information System Services: Development, Analysis, and Data Collection	3
42	Mechanical Engineers	20	1	H13	Hydrographic Surveying	5
46	Photogrammetrists	1	0	S13	Storm Water Handling and Facilities	1
57	Structural Engineers	5	0	U03	Utilities	8
33	Hydrographic Surveyors	11	0	S10	Surveying; Platting; Mapping; Flood Plain Studies	8
23	Environmental Engineers	0	0	R07	Remote Sensing	4
49	Remote Sensing Specialists	9	0	L02	Land Surveying	8
	Fire Protection Designers	2	0	I03	Industrial Waste Treatment	8
	Electrical Designers	21	3	W03	Water Supply; Treatment; Distribution	8
	Mechanical Designers	22	0			
	Survey Crew Members	242	2			
	Instrumentation & Controls Designers	13	9			
	Engineer Intern	51	8			
	Other Employees	48	4			
<b>Total</b>		<b>731</b>	<b>44</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	4	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 <i>The foregoing is a statement of facts.</i>	
a. SIGNATURE 	b. DATE <b>02/21/22</b>
c. NAME AND TITLE <b>A. Street Lee, PE, ENV SP   C</b>	

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



# ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)  
RFQ 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>McKim &amp; Creed, Inc.</b>			3. YEAR ESTABLISHED <b>1994</b>	4. Unique Entity Identifier <b>E5KPB3MQMU7</b>
2b. STREET <b>551 North Cattlemen Road, Suite 106</b>			5. OWNERSHIP	
2c. CITY <b>Sarasota</b>			12d. STATE <b>FL</b>	12e. ZIP CODE <b>34232</b>
6a. POINT OF CONTACT NAME AND TITLE <b>Robert Garland, PE   Vice President/Regional Manager</b>			a. TYPE <b>Professional Corporation</b>	
6b. TELEPHONE NUMBER <b>(941) 379-3404</b>			b. SMALL BUSINESS STATUS <b>No</b>	
16c. E-MAIL ADDRESS <b>rgarland@mckimcreed.com</b>			7. NAME OF FIRM (If block 2a is a branch office) <b>McKim &amp; Creed, Inc.</b>	
8a. FORMER FIRM NAME(S) (If any) <b>McKim &amp; Creed, P.A.   McKim &amp; Creed Engineers, P.A.</b>			8b. YR. ESTABLISHED <b>1978</b>	8c. UNIQUE ENTITY IDENTIFIER <b>E5KPB3MQMU7</b>

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 (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	101	3	E03	Electrical Studies and Design	7
08	CADD Technicians	48	1	F03	Fire Protection	1
12	Civil Engineers	65	2	H04	Heating; Ventilating; Air Conditioning	6
15	Construction Inspectors	5	1	A12	Automation; Controls; Instrumentation	6
16	Construction Manager	6	0	P06	Planning (Site, Installation, Project)	7
21	Electrical Engineers	18	0	P07	Plumbing & Piping Design	5
29	Geographic Information System Specialist	4	0	S09	Structural Design; Special Structures	4
38	Land Surveyors	33	3	P12	Power Generation; Transmission; Distribution	1
39	Landscape Architects	5	0	G04	Geographic Information System Services: Development, Analysis, and Data Collection	3
42	Mechanical Engineers	20	0	H13	Hydrographic Surveying	5
46	Photogrammetrists	1	0	S13	Storm Water Handling and Facilities	1
57	Structural Engineers	5	0	U03	Utilities	8
33	Hydrographic Surveyors	11	0	S10	Surveying; Platting; Mapping; Flood Plain Studies	8
23	Environmental Engineers	0	0	R07	Remote Sensing	4
49	Remote Sensing Specialists	9	1	L02	Land Surveying	8
	Fire Protection Designers	2	0	I03	Industrial Waste Treatment	8
	Electrical Designers	21	0	W03	Water Supply; Treatment; Distribution	8
	Mechanical Designers	22	0			
	Survey Crew Members	242	52			
	Instrumentation & Controls Designers	13	0			
	Engineer Intern	51	1			
	Other Employees	48	2			
Total		731	66			

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	4	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 <b>02/22/2022</b>
c. NAME AND TITLE <b>Robert Garland, PE   Vice President/Regional Manager</b>	

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# ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)  
RFQ 2023-010

## PART II- GENERAL QUALIFICATIONS

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

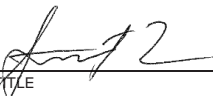
2a. FIRM (OR BRANCH OFFICE) NAME <b>McKim &amp; Creed, Inc.</b>			3. YEAR ESTABLISHED <b>1994</b>	4. Unique Entity Identifier <b>E5KPBJ3MQMU7</b>
2b. STREET <b>1206 N. Palafox Street</b>			5. OWNERSHIP	
2c. CITY <b>Pensacola</b>			12d. STATE <b>FL</b>	12e. ZIP CODE <b>32501</b>
6a. POINT OF CONTACT NAME AND TITLE <b>A. Street Lee, PE, ENV SP   CEO</b>			a. TYPE <b>Professional Corporation</b>	
6b. TELEPHONE NUMBER <b>(850) 994-9503</b>			b. SMALL BUSINESS STATUS <b>No</b>	
16c. E-MAIL ADDRESS			7. NAME OF FIRM (If block 2a is a branch office) <b>McKim &amp; Creed, Inc.</b>	
8a. FORMER FIRM NAME(S) (If any) <b>McKim &amp; Creed, P.A.   McKim &amp; Creed Engineers, P.A.</b>			8b. YR. ESTABLISHED <b>1978</b>	8c. UNIQUE ENTITY IDENTIFIER <b>E5KPBJ3MQMU7</b>

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 (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	101	1	E03	Electrical Studies and Design	7
08	CADD Technicians	48	4	F03	Fire Protection	1
12	Civil Engineers	65	5	H04	Heating; Ventilating; Air Conditioning	6
15	Construction Inspectors	5	0	A12	Automation; Controls; Instrumentation	6
16	Construction Manager	6	0	P06	Planning (Site, Installation, Project)	7
21	Electrical Engineers	18	0	P07	Plumbing & Piping Design	5
29	Geographic Information System Specialist	4	0	S09	Structural Design; Special Structures	4
38	Land Surveyors	33	1	P12	Power Generation; Transmission; Distribution	1
39	Landscape Architects	5	0	G04	Geographic Information System Services: Development, Analysis, and Data Collection	3
42	Mechanical Engineers	20	0	H13	Hydrographic Surveying	5
46	Photogrammetrists	1	0	S13	Storm Water Handling and Facilities	1
57	Structural Engineers	5	0	U03	Utilities	8
33	Hydrographic Surveyors	11	0	S10	Surveying; Platting; Mapping; Flood Plain Studies	8
23	Environmental Engineers	0	0	R07	Remote Sensing	4
49	Remote Sensing Specialists	9	0	L02	Land Surveying	8
	Fire Protection Designers	2	0	I03	Industrial Waste Treatment	8
	Electrical Designers	21	0	W03	Water Supply; Treatment; Distribution	8
	Mechanical Designers	22	0			
	Survey Crew Members	242	4			
	Instrumentation & Controls Designers	13	0			
	Engineer Intern	51	2			
	Other Employees	48	2			
Total		731	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	4	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 <b>02/22/2022</b>
c. NAME AND TITLE <b>A. Street Lee, PE, ENV SP   CEO</b>	

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

# ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)  
RFQ 2023-010

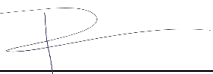
## PART II- GENERAL QUALIFICATIONS

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

2a. FIRM (OR BRANCH OFFICE) NAME <b>McKim &amp; Creed, Inc.</b>			3. YEAR ESTABLISHED <b>1994</b>	4. Unique Entity Identifier <b>E5KPB3MQMU7</b>
2b. STREET <b>3903 Northdale Blvd, Suite 115E</b>			5. OWNERSHIP	
2c. CITY <b>Tampa</b>	12d. STATE <b>FL</b>	12e. ZIP CODE <b>33624</b>	a. TYPE <b>Professional Corporation</b>	
6a. POINT OF CONTACT NAME AND TITLE <b>Robert Garland, PE   Vice President/Regional Manager</b>			b. SMALL BUSINESS STATUS <b>No</b>	
6b. TELEPHONE NUMBER <b>(813) 549-3740</b>			7. NAME OF FIRM (If block 2a is a branch office) <b>McKim &amp; Creed, Inc.</b>	
16c. E-MAIL ADDRESS <b>rgarland@mckimcreed.com</b>				
8a. FORMER FIRM NAME(S) (If any) <b>McKim &amp; Creed, P.A.   McKim &amp; Creed Engineers, P.A.</b>			8b. YR. ESTABLISHED <b>1978</b>	8c. UNIQUE ENTITY IDENTIFIER <b>E5KPB3MQMU7</b>

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 (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	101	3	E03	Electrical Studies and Design	7
08	CADD Technicians	48	2	F03	Fire Protection	1
12	Civil Engineers	65	5	H04	Heating; Ventilating; Air Conditioning	6
15	Construction Inspectors	5	0	A12	Automation; Controls; Instrumentation	6
16	Construction Manager	6	2	P06	Planning (Site, Installation, Project)	7
21	Electrical Engineers	18	0	P07	Plumbing & Piping Design	5
29	Geographic Information System Specialist	4	0	S09	Structural Design; Special Structures	4
38	Land Surveyors	33	4	P12	Power Generation; Transmission; Distribution	1
39	Landscape Architects	5	0	G04	Geographic Information System Services: Development, Analysis, and Data Collection	3
42	Mechanical Engineers	20	0	H13	Hydrographic Surveying	5
46	Photogrammetrists	1	0	S13	Storm Water Handling and Facilities	1
57	Structural Engineers	5	0	U03	Utilities	8
33	Hydrographic Surveyors	11	0	S10	Surveying; Platting; Mapping; Flood Plain Studies	8
23	Environmental Engineers	0	0	R07	Remote Sensing	4
49	Remote Sensing Specialists	9	2	L02	Land Surveying	8
	Fire Protection Designers	2	0	I03	Industrial Waste Treatment	8
	Electrical Designers	21	0	W03	Water Supply; Treatment; Distribution	8
	Mechanical Designers	22	0			
	Survey Crew Members	242	13			
	Instrumentation & Controls Designers	13	0			
	Engineer Intern	51	1			
	Other Employees	48	0			
Total		731	32			

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	4	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 <b>04/14/2023</b>
c. NAME AND TITLE <b>Robert Garland, PE   Vice President/Regional Manager</b>	

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



## RFQ 2023-010

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

STANDARD FORM 330 (REV. 8/2016) PAGE 6

<b>ARCHITECT – ENGINEER QUALIFICATIONS</b>				1. SOLICITATION NUMBER <i>(If any)</i> <b>2023-010</b>		
<b>PART II – GENERAL QUALIFICATIONS</b>						
<i>(If a firm has branch offices, complete for each specific branch office seeking work.)</i>						
2a. FIRM (OR BRANCH OFFICE) NAME <b>Miller Legg</b>				3. YEAR ESTABLISHED <b>1965</b>	4. DUNS NUMBER <b>038700035</b>	
2b. STREET <b>5747 N Andrews Way</b>				5. OWNERSHIP		
2c. CITY <b>Ft. Lauderdale</b>		2d. STATE <b>FL</b>	2e. ZIP CODE <b>33309-2364</b>	a. TYPE <b>Corporate</b>		
6a. POINT OF CONTACT NAME AND TITLE <b>Michael Kroll, RLA, FASLA, Landscape Principal</b>				b. SMALL BUSINESS STATUS <b>Yes</b>		
6b. TELEPHONE NUMBER <b>954-436-7000</b>		6c. E-MAIL ADDRESS <b>mkroll@millerlegg.com</b>		7. NAME OF FIRM <i>(If block 2a is a branch office)</i>		
8a. FORMER FIRM NAME(S) <i>(If any)</i>				8b. YR. ESTABLISHED	8c. DUNS NUMBER	
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 <i>(see below)</i>
02	Administrative	7	6	C02	Cemeteries (Planning & Relocation)	5
07	Biologist	3	3	C06	Churches; Chapels	2
08	CADD Technician	4	4	C10	Commercial Building; (low rise);	2
12	Civil Engineers	8	7	C14	Conservation and Resource	4
14	Computer Programmer	0	0	E01	Ecological & Archeological	4
16	Construction Manager	0	0	E02	Educational Facilities; Classrooms	4
19	Ecologists	1	1	H07	Highways; Streets; Airfield Paving;	2
21	Electrical Engineers	0	0	H09	Hospitals & Medical Facilities	3
23	Environmental Engineer	0	0	H11	Housing (Residential, Multifamily,	6
50	Environmental Risk Assessor	0	0	I06	Irrigation; Drainage	2
24	Environmental Scientist	2	2	L01	Laboratories; Medical Research	2
29	GIS Specialist	0	0	L03	Landscape Architecture	5
39b	Irrigation Designer	0	0	P04	Pipelines (Cross-country--Liquid &	2
38	Land Surveyor	1	1	P05	Planning (Community; Regional;	3
38a	Survey Crew Members	4	1	P06	Planning (Site, Installation and	3
39	Landscape Architects	3	2	R04	Recreational Facilities (Parks;	4
39a	Landscape Designers	7	7	S04	Sewage Collection, Treatment &	5
47	Planners: Urban/Regional	0	0	S13	Stormwater Handling & Facilities	5
51	Safety/Occupational Health	0	0	S10	Surveying; Platting; Mapping; Flood	2
60	Transportation Engineers	0	0	T03	Traffic & Transportation Engineering	2
	Other Employees	1	1	U02	Urban Renewals; Community	4
<b>Total</b>		<b>41</b>	<b>35</b>	W03	Water Supply; Treatment and	4
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	<b>4</b>	1. Less than \$100,000				
b. Non-Federal Work	<b>6</b>	2. \$100,000 to less than \$250,000				
c. Total Work	<b>6</b>	3. \$250,000 to less than \$500,000				
		4. \$500,000 to less than \$1 million				
		5. \$1 million to less than \$2 million				
		6. \$2 million to less than \$5 million				
		7. \$5 million to less than \$10 million				
		8. \$10 million to less than \$25 million				
		9. \$25 million to less than \$50 million				
		10. \$50 million or greater				
<b>12. AUTHORIZED REPRESENTATIVE</b>						
The foregoing is a statement of facts.						
a. SIGNATURE 				b. DATE <b>4/3/2023</b>		
c. NAME AND TITLE <b>Michael Kroll, RLA, FASLA, President</b>						

<b>ARCHITECT-ENGINEER QUALIFICATIONS</b>				1. SOLICITATION NUMBER <i>(If any)</i> RFQ 2023-010	
--	--	--	--	--	--

<b>PART II - GENERAL QUALIFICATIONS</b> <i>(If a firm has branch offices, complete for each specific branch office seeking work.)</i>					
2a. FIRM (or Branch Office) NAME <b>CTS Engineering, Inc.</b>				3. YEAR ESTABLISHED <b>2009</b>	4. UNIQUE ENTITY IDENTIFIER
2b. STREET <b>3230 W Commercial Blvd, Suite 220</b>				5. OWNERSHIP	
2c. CITY <b>Fort Lauderdale</b>		2d. STATE <b>FL</b>	2e. ZIP CODE <b>33309</b>	a. TYPE <b>S-Corp</b>	
6a. POINT OF CONTACT NAME AND TITLE  <b>Sheng Yang- President</b>				b. SMALL BUSINESS STATUS	
6b. TELEPHONE NUMBER <b>954-637-1608</b>		6c. EMAIL ADDRESS <b>syang@ctseinc.com</b>		7. NAME OF FIRM <i>(If Block 2a is a Branch Office)</i>	
8a. FORMER FIRM NAME(S) <i>(If any)</i>				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 <i>(see below)</i>
		(1) FIRM	(2) BRANCH			
02	Administrative	4		S10	Surveying; Platting; Flood Plain Studies	8
12	Civil Engineer	22		T03	Traffic & Transportation Engineering	8
38	Land Surveyor	2		G04	Geographic Information System Services;	8
47	Planner: Urban/Regional	2			Development, Analysis, and Data Collection	
58	Technician/Analyst	22				
Other Employees		24				
<b>Total</b>		<b>76</b>				

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. Less than \$100,000	6. \$2 million to less than \$5 million		
b. Non-Federal Work	<b>8</b>	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million		
c. Total Work	<b>8</b>	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 <i>The foregoing is a statement of facts.</i>	
a. SIGNATURE 	b. DATE <b>04/14/2023</b>
c. NAME AND TITLE <b>Sheng Yang, President</b>	




# 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  Environmental Science Associates			3. YEAR ESTABLISHED 1969	4. UNIQUE ENTITY IDENTIFIER DYAGS8QCFQJ3
2b. STREET 1500 Gateway Boulevard, Suite 220-309			5. OWNERSHIP a. TYPE Corporation	
2c. CITY Boynton Beach	2d. STATE FL	2e. ZIP CODE 33426	b. SMALL BUSINESS STATUS NAICS 562910 Small Business	
6a. POINT OF CONTACT NAME AND TITLE Julie Sullivan, Senior Vice President			7. NAME OF FIRM (If Block 2a is a branch office)	
6b. TELEPHONE NUMBER 407-748-2729		6c. E-MAIL ADDRESS jsullivan@esassoc.com		
8a. FORMER FIRM NAME(S) (if any)			8b. YR. 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. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	97		A01	Acoustics; Noise Abatement	5
05	Archeologist	71		A06	Airports; Terminals & Hangars; Freight Handling	7
07	Biologist	93	3	C14	Conservation and Resource Management	8
09	Cartographer	4		D02	Dams (Earth; Rock); Dikes; Levees	4
12	Civil Engineers	12		E01	Ecological & Archaeological Investigations	7
14	Computer Programmer	41		E02	Educational Facilities; Classrooms	5
19	Ecologists	23		E09	Environmental Impact Studies	9
21	Environmental Engineer	2		E11	Environmental Planning	6
24	Environmental Scientist	36	4	E11A	Permitting	6
29	GIS Specialist	16		F04	Fisheries	3
30	Geologist	4		H01	Harbors; jetties; Piers; Ship Terminal Facilities	3
34	Hydrologists	31		H07	Highways; Streets; Airfield Paving; Parking Lots	3
39	Landscape Architects	12		H11	Housing (Residential, Multi Family, Apt.)	5
44	Oceanographers	1		L03	Landscape Architecture	4
47	Planners: Urban/Regional	86		P05	Planning (Regional)	4
48	Project Manager	18	1	P12	Power Generation, Transmission	5
58	Technician/Analyst	12		R03	Railroad and Rapid Transit	2
62	Water Resources Engineer	10		R04	Recreation Facilities	5
				R11	Rivers; Canals; Waterways; Flood	7
				S06	Solar Energy Utilization	1
				W02	Water Resources; Hydrology; Ground Water	6
				W03	Water Supply; Treatment and Distribution	6
Total		569	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 13, 2023
c. NAME AND TITLE Leslie Moulton-Post, President	


STANDARD FORM 330 (REV. 7/2021)

<b>ARCHITECT-ENGINEER QUALIFICATIONS</b>					1. SOLICITATION NUMBER (If any) RFQ 2023-010	
<b>PART II - GENERAL QUALIFICATIONS</b> (If a firm has branch offices, complete for each specific branch office seeking work.)						
2a. FIRM (or Branch Office) NAME Universal Engineering Sciences - South Florida				3. YEAR ESTABLISHED 1966		4. UNIQUE ENTITY IDENTIFIER 65-0874962
2b. STREET 8050 NW 77th Court				5. OWNERSHIP		
2c. CITY Medley		2d. STATE FL	2e. ZIP CODE 33166	a. TYPE Limited Liability Company		
6a. POINT OF CONTACT NAME AND TITLE Reinaldo Villa, MS, PE - Branch Manager				b. SMALL BUSINESS STATUS N/A		
6b. TELEPHONE NUMBER (305) 249-8434		6c. E-MAIL ADDRESS rvilla@universalengineering.com		7. NAME OF FIRM (If Block 2a is a Branch Office) Universal Engineering Sciences, LLC		
8a. FORMER FIRM NAME(S) (If any)				8b. YEAR ESTABLISHED		8c. UNIQUE ENTITY IDENTIFIER
Universal Engineering & Testing Company				1964		65-0874962
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	354	8	A10	Asbestos Abatement	5
48	Project Manager	100	5	E09	Environmental Impact Studies	6
07	Biologist	0	0	E12	Environmental Remediation	5
08	CADD Technician	10	0	E09	Environmental Testing/Analysis	5
12	Civil Engineer	0	1	F05	Forensic Engineering	4
15	Construction Inspector	302	25	H03	Haz/Toxic Waste Remediation	5
18	Estimator	4	0	S05	Soil & Geologic Studies/Fdn	8
23	Environmental Engineer	0	0	T02	Testing & Inspection Services	9
24	Environmental Scientist	45	2	W02	Water Resources & Groundwater	4
26	Forensic/Geo Engineer	0	0	C02	Code Compliance & Thr Insp.	6
26	Foundation/Geo Engineer	95	2			
30	Geologist	17	1			
34	Hydrologist	0	0			
36	Industrial Hygienist	3	0			
40	Material Engineer	0	0			
55	Soils Engineer	44	4			
57	Structural Engineer	5	1			
	Engineering Tech I & II	330	16			
	Lab Technicians/Supervisors	173	3			
	Driller	503	4			
	Other Employees	2,095	73			
	<b>Total</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	5	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		
<b>12. AUTHORIZED REPRESENTATIVE</b> The foregoing is a statement of facts.						
a. SIGNATURE 					b. DATE 04/14/2023	
c. NAME AND TITLE Reinaldo Villa, MS, PE - Branch Manager						

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY.

Refer to the content of the proposal for supporting information requested by the request for qualifications.

I. AUTHORIZED REPRESENTATIVE THE FOREGOING IS A STATEMENT OF FACTS.	
31. SIGNATURE 	32. DATE 04/18/2023
33. NAME AND TITLE Chase Dickinson, Project Manager	





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: McKim & Creed, Inc

SIGNATURE: 

PRINTED NAME: Robert Garland, P.E., DBIA, ENV SP

TITLE: Vice President DATE: April 12, 2023

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





14

**NON-COLLUSIVE AFFIDAVIT**



**NON-COLLUSIVE AFFIDAVIT FORM**

State of Florida )

County of Lee )

Robert Garland, P.E., DBIA, ENV SP being first duly sworn, deposes and says that:

He/she is the Vice President, (Owner, Partner, Officer, Representative or Agent) of McKim & Creed, 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   
Robert Garland, P.E., DBIA, ENV SP  
Printed Name  
Vice President  
Title







15

DRUG-FREE WORKPLACE



## 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: April 12, 2023



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, McKim & Creed, 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

Robert Garland, P.E., DBIA, ENV SP - Vice President  
Name and Title of Contractor's Authorized Official

Date April 12, 2023





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 April 12, 2023 McKim & Creed, Inc.  
Contractor

By   
(Signature)

By Robert H. Garland, Vice President

STATE OF Florida )  
 ) SS.  
COUNTY OF Lee )

The foregoing instrument was acknowledged before me by means of X physical presence or \_\_\_\_\_ online notarization this 12<sup>th</sup> day of April, 2023 by Robert Garland 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 12<sup>th</sup> day of April, 2023.

(NOTARY SEAL)  
  
(Signature of person taking acknowledgment)

Derek S Crowell  
(Print Name of Officer taking acknowledgment)

Notary  
(Title or rank)



My Commission expires: 03/02/2025  
(Serial number, if any)





**CITY OF MARGATE  
E-VERIFY FORM**

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

- a) All persons employed by Vendor/Consultant/Contractor to perform employment duties within Florida during the term of the contract; and
- b) 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
- c) 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: McKim & Creed, Inc.
	Authorized Signature: 
	Print Name: Robert Garland, P.E., DBIA, ENV SP
	Title Vice President
	Date: April 12, 2023
	Phone: 239.220.2606
	Email: RGarland@mckimcreed.com
	Website: mckimcreed.com



19

ADDITIONAL RFQ INFORMATION

# 19 TEAM RESUMES

The following resumes of the proposed personnel, combined with the project abstracts provided in our SF330, clearly document that our firm has the expertise to conduct engineering studies, investigations, and forensic engineering for the City of Margate. We will provide practical and resilient recommendations for future maintenance and/or capital work. We will partner with you to offer short-term solutions that will provide the flexibility to achieve your long-term planning goals and regulatory needs.

	Key Services Provided				Project Type										
	Planning	Design	Permitting	Construction	Water Distribution	Water/Wastewater Treatment	Wastewater Collection	Reclaimed Water Distribution	Pump/Lift Stations	Transportation/Traffic	Streetscapes	Stormwater/Drainage	Building Renovations/Hardening	Parks & Recreation	Environmental
Chase Dickinson, PE <i>Project Manager</i>	●	●	●	●	●	●	●	●	●			●			
Robert Garland, PE, ENV SP <i>Principal-in-Charge</i>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
David Wehner, PE <i>Water Distribution</i>	●	●	●	●	●	●	●	●	●		●	●			●
Omar Khan, PE <i>Wastewater Collection</i>	●	●	●	●	●	●	●	●	●			●			
Dan Keck, PE <i>Pump/Lift Stations</i>	●	●	●	●	●	●	●	●	●			●			●
Mitch Chiavaroli, PE <i>Wastewater Treatment</i>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Phil Locke, PE <i>Water Treatment</i>	●	●	●	●	●	●	●	●	●			●	●		●
Tracey Webb, PE <i>Site, Civil, Stormwater</i>	●	●	●	●	●		●	●	●	●	●	●			●
Patrick Jehle, PE <i>Parks/Recreation</i>	●	●	●	●	●		●	●	●	●	●	●		●	●
Aubrey Haudricourt, PE <i>Electrical Engineer</i>	●	●	●	●	●	●	●	●	●				●		
Blake Peters, PE <i>Trenchless Pipe Design</i>	●	●	●	●	●	●	●	●	●			●		●	●
Luis Aguiar, PE <i>Resident Inspection</i>	●	●	●	●	●	●	●	●	●			●			
Barry Dunham, PE, LEED AP <i>MEP</i>	●	●	●	●		●							●		
Emmett Anderson, PE <i>Structural Engineering</i>	●	●	●	●		●			●	●			●	●	
Barry Hales <i>Water Loss Management</i>	●	●	●	●	●							●			
David Ardman, ENV SP <i>Resiliency/Hardening</i>	●	●	●	●	●	●	●	●	●	●			●	●	
Mike Stoup, PE <i>I&amp;C / SCADA</i>	●	●	●	●	●	●	●	●	●			●	●		
Diane Achinelli <i>Construction Administration</i>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Colin Miller, PE <i>Drainage/Stormwater</i>	●	●	●	●								●		●	●
Jack Christie (Christie and Christie) <i>Architecture</i>	●	●	●	●		●			●				●	●	●
Brian Shore, RLA (Miller Legg) <i>Landscape Architecture</i>	●	●	●	●						●	●			●	●
William Mohler, CA (Miller Legg) <i>Arborist</i>										●	●			●	●
Sheng Yang, PE (CTS Engineering) <i>Traffic Engineering</i>	●	●	●	●						●	●	●			
Nicholas Gadbois, M.S. (ESA) <i>Environmental</i>	●	●	●	●	●	●	●	●	●	●	●			●	●
Ray Villa (UES) <i>Geotechnical</i>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●





## Chase Dickinson, PE

### PROJECT MANAGER

#### QUALIFICATIONS

- ✓ Expert in gravity, vacuum and low pressure design
- ✓ Leader in water transmission and distribution modeling
- ✓ Recognized for water and wastewater treatment facility evaluations
- ✓ Hydraulic modeling
- ✓ Feasibility studies
- ✓ Master planning

#### EDUCATION

M.S., Civil Engineering, Florida Atlantic University

B.S., Civil Engineering, Florida Atlantic University

#### LICENSURE

Professional Engineer, FL #83325

#### AFFILIATIONS

American Water Works Association (AWWA Member)

American Public Works Association (APWA Member)

Chase Dickinson has over 11 years of experience as an engineer in the water/wastewater industry. Chase has designed and managed infrastructure projects including raw water supply, water treatment, water transmission and distribution systems, water and force main replacement, gravity sewer, vacuum, low pressure, pump stations and booster stations. While working on these projects he provided design reports/plans, specifications, cost estimates, permitting, bidding assistance and engineering services during construction. He also has experience developing hydraulic models, master plans and feasibility studies.

#### ► Project Experience

**Water Distribution Model Update and Master Plan, City of Margate, FL:** The master plan was prepared in response to the City's desire to update their system wide hydraulic model. The project modeled the water transmission and distribution network and evaluated the hydraulic capacity with respect to current and future demands. The project also identified cast iron piping and recommended the required pipe sizes to replace the obsolete components. The final report included a phased Master Plan for recommended improvements to the existing water transmission and distribution system.

**Force Main System Model and Master Plan, City of Margate, FL:** Eckler Engineering prepared this report in response to force main piping system breaks, increase in horsepower requirements at lift stations and the results of localized force main integrity evaluations. The project modeled the wastewater transmission system using and evaluated the hydraulic capacity with respect to current and future service requirements. The project also included investigating the air release valves and isolation valves. The final report included a phased Master Plan for recommended improvements to the existing wastewater transmission system.

**NW 110th Avenue Water Main Replacement, City of Coral Springs, FL:** The project was to resolve operational issues associated with cast iron pipe in the distribution system, Chase designed a new water main along NW 110th Avenue from Wiles Road to Sample Road. The project consisted of installing approximately 5,280 feet of 8-inch ductile iron pipe alongside the old cast iron main which was abandoned and grouted. There were five existing fire hydrants that were removed and replaced along with three new fire hydrants installed. The project also consisted of replacing forty-two water services that serve the surrounding neighborhood. Services also included site visit evaluations and field testing inspections during construction. The construction cost for this project was \$866,000..

**Rehabilitation of Lift Stations 14E, 17A, 17C, 18C, City of Coral Springs FL:** Engineering services for planning, designing, permitting, and construction services. Chase provided design services for approximately 5,800 feet of new 4-inch and 8-inch force main to provide the necessary utility improvements for the aging infrastructure within the City. The cost for the force main infrastructure improvements and the rehabilitation of the lift stations was \$2,279,000.



## Robert Garland, PE, DBIA, ENV SP

### PRINCIPAL-IN-CHARGE

### QUALIFICATIONS

- ✓ 35+ years managing and executing projects of similar under continuing service contracts
- ✓ Former Licensed WWTP Operator able to provide operator-friendly, safe and practical solutions
- ✓ Performed Value Engineering on local utility construction projects
- ✓ Collaborative Delivery Specialist with extensive experience performing value engineering & constructability reviews
- ✓ Envision® credentialed to provide sustainable, resilient and energy efficient recommendations
- ✓ Conducted vulnerability and resiliency studies and lead the inclusion of resiliency and sustainability in designs for treatment plant projects
- ✓ Licensed contractor in four states (inactive) and passed Florida's General Contractor and Underground Utility Licensure Exams

### EDUCATION

B.S., Civil Engineering, Vanderbilt University

### LICENSURE

Professional Engineer: FL #64329

Professional Geologist: KY

Credentialed Envision Sustainability Professional

### AFFILIATIONS

Design Build Institute of America (DBIA)

American Public Works Association (APWA)

Mr. Garland brings over 35 years of experience in the planning, design, construction and troubleshooting of complex utility projects to this continuing services contract. In addition to being a licensed engineer and geologist, he is also a licensed contractor and has passed Florida's General Contractor and Underground Utility Licensure Exams. This diverse background will bring unique insight to the constructability and value engineering aspects for projects assigned under this contract. Mr. Garland has specific experience in managing the design and construction of water main replacement projects in congested, urban environments. He also specializes in regulatory agency negotiations, stakeholder consensus building, community outreach, and dispute/claims resolution during construction.

### ► Project Experience

**Lift Station 87 Design and Construction Services, City of Sarasota, FL:** Mr. Garland served as Project Manager for this award-winning project that included design, permitting, bid and construction phase services to replace the City's existing lift station. The new Lift Station 87 was designed to withstand storm surge associated with a Category 3 hurricane. Design elements included two-stage odor control, sound attenuation on mechanical equipment and landscaping representative of the local community. The lowest, responsive bid was awarded at \$21,267,000. Change orders were limited to only \$62,572, or 0.29% of the bid amount, through the use of pro-active value engineering. This project received the APWA 2018 FL Chapter project of the year award and the FWEA Manasota Chapter 2018 Recognition of Excellence in Engineering award.

**WWRF Biological Treatment Improvements Design Criteria Professional, City of Largo, FL:** As Principal for this project, Mr. Garland led planning and value engineering efforts and provided professional engineering consulting services to develop and implement a Design Criteria Package (DCP) that allowed the City of Largo to select a design-build team to further develop and implement biological treatment improvements at the WWRF. The City's goals for the project included reducing effluent nitrogen levels in discharges to Tampa Bay, replacing aging infrastructure in the "Middle of the Plant" and reducing operational costs. The DCP included goals and requirements of the design-build team for Envision™ rating system sustainability. The scope of work included project management and administration, research and data collection, design-build procurement alternative evaluations, valve engineering negotiations and contract assistance, engineering design support and structural condition evaluations.

**Design Criteria Professional for NWRWRF Expansion, Hillsborough County, FL:** Mr. Garland served as Project Manager, working with multiple Hillsborough County Departments to develop initial procurement and risk management strategies. He served as the firm's lead for development of the Design Criteria Package (DCP) and provided technical guidance for the evaluation of the RFQ (Step 1) and RFP (Step 2) design-build team submittals. A site master plan was developed for the proposed Northwest Wastewater Consolidation program to blend the facility into the neighborhood and provide future recreational and educational opportunities for the community. Value engineering and partnering workshops resulted in cost savings and benefits exceeding \$17 million for the \$193 million project.

**Halifax River Sanitary Sewer Force Main Crossing Professional Utility Engineering & Design Services, City of Daytona Beach, FL:** Mr. Garland served as Project Manager for design, permitting and construction services. McKim & Creed provided the City of Daytona Beach with a capacity analysis, design, permitting and construction services for a new 30-inch subaqueous force main that crosses under the Halifax River (Intracoastal Waterway) from the beachside service area to the Bethune Point Wastewater Treatment Plant (BPWWTP) in order to replace the outlived existing 24-inch force main. The new force main enables the City of Daytona Beach to manage increasing demands on the system and accommodate planning for two new hotel resorts. The project was designed to employ Horizontal Directional Drilling (HDD), and the design included pipe vertical and horizontal curve data, utility relocations, maintenance of traffic (MOT) requirements, road restoration and locations of temporary/permanent construction easements.

**ROBERT GARLAND, PE, DBIA, ENV SP, PRINCIPAL-IN-CHARGE****Dale Mabry Diversion FM and Reclaimed Water, Hillsborough County, FL:**

Mr. Garland served as Design Manager for this design-build project which included the design and construction of over 72,600 LF of 20-inch through 36-inch transmission mains through environmentally sensitive areas, the highly traveled Citrus Park Dr. and Gunn Hwy. corridor, and residential neighborhoods. The project utilized 16 horizontal directional drills totaling over 11,000 LF to minimize environmental and traffic impacts. The project was completed on time, under budget and with no additional change orders due to the embedded value engineering process. Gateway Wastewater Treatment Plant Expansion, Lee County, FL: Mr. Garland served as Project Manager for expansion of an existing extended aeration facility that included new headworks, oxidation ditches, secondary clarifiers, sludge holding tanks, chlorine contact basins, and reclaimed water storage and reject tanks. The \$27,400,000 project was completed on time and final change order amounts were less than a 1 percent, which demonstrated effective QA/QC during design and proven construction engineering and inspection techniques.

included submersible pump and valve actuators where elevation was not possible; and provided a medium voltage standby power expansion and medium voltage transformer loop design.

**WWRF Biological Treatment Improvements Design Criteria Professional, City of Largo, FL:**

As Principal for this project, Mr. Garland led planning and value engineering efforts and provided professional engineering consulting services to develop and implement a Design Criteria Package (DCP) that allowed the City of Largo to select a design-build team to further develop and implement biological treatment improvements at the WWRF. The City's goals for the project included reducing effluent nitrogen levels in discharges to Tampa Bay, replacing aging infrastructure in the "Middle of the Plant" and reducing operational costs. The DCP included goals and requirements of the design-build team for Envision™ rating system sustainability. The scope of work included project management and administration, research and data collection, design-build procurement alternative evaluations, valve engineering negotiations and contract assistance, engineering design support and structural condition evaluations.

**WWRF Operations Building and Hardening of Biosolids Building, City of Largo, FL:**

Mr. Garland served as Principal for this wastewater reclamation facility (WWRF) improvement project. After completing a Preliminary Engineering Report for this work, McKim & Creed was selected to design and construct a new Operations Center at the City's 18 mgd WWRF. The scope of work includes preliminary and final design, and construction phase services for the Operations Building, which is designed with an elevation to allow it to remain operational during a Category 4 hurricane and associated storm surge. Our team is also providing preliminary engineering services for strengthening an existing Biosolids Building to meet a minimum of Category 3 wind loads. The plant remained fully operational throughout construction.

**Southwest Water Reclamation Facility Capacity Expansion, St. Petersburg, FL:**

Mr. Garland served as QA/QC Manager for fast-tracked wastewater projects to mitigate storm surge and increase wastewater facility capacity from 40 to 78 MGD. The project duration was two yearly storm cycles, both fast and late track phases were implemented. The McKim & Creed team supported the elevation of critical systems that included mechanical, electrical and controls above Category 3 storm surge. The team applied prefabricated electrical buildings to shorten construction time;





## David Wehner, PE

### WATER DISTRIBUTION

#### QUALIFICATIONS

- ✔ Significant experience (23+ years) managing projects of similar scope
- ✔ Mechanical Engineer for New Headworks at the County's Southwest Water Reclamation Facility
- ✔ Ability to work with end users to ensure reliable systems
- ✔ Designs consider constructability and operations, acting as liaison between contractor and client.
- ✔ Led design-build utility infrastructure projects exceeding \$70M in construction value over the past three years
- ✔ Reclaimed Water System Design
- ✔ Wastewater Treatment Facilities Design
- ✔ Project Management
- ✔ Pipeline Design
- ✔ Maintenance of Traffic

#### EDUCATION

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

#### LICENSURE

Professional Engineer, FL #59541

FDOT Advanced Maintenance of Traffic

#### AFFILIATIONS

Florida Water Environment Federation

American Water Works Association

Design-Build Institute of America

Mr. Wehner has over 23 years of experience providing design and permitting services for municipal utility systems including water supply, transmission and distribution; master planning, collection, pumping, treatment, disposal and sludge handling; pumping and utility relocation engineering. Mr. Wehner is recognized as a regional leader in the evaluation and design of transmission and collection systems. He has designed and overseen construction for pipelines up to 42 inches in diameter, which involved both open-cut and trenchless construction technologies.

#### ► Project Experience

**Dale Mabry Diversion Force Main and Reclaimed Water Transmission Main, Hillsborough County, FL:** Mr. Wehner served as Senior Project Manager and Engineer-of-Record, overseeing construction of over 72,600 LF of 20-inch to 36-inch force main and reclaimed water transmission main through environmentally sensitive areas. The project utilized 16 horizontal directional drills totaling more than 11,000 LF to minimize environmental and traffic impacts. The project required close coordination with two other projects integral to the NWRWRF Consolidation Program. This award winning project was recognized in 2017 both by the Florida American Public Works Association and Design-Build Institute of America, Florida Region.

**MARS Transmission Main, Manatee County, FL:** Project Engineer for the design of 83,000 LF of 30-inch ductile iron reclaimed water main as part of the Manatee Agricultural Reuse System (MARS). The majority of the pipe was installed using open-cut trench installation, approximately 15,000 LF of which was along SR 64, a major east-west corridor into the City of Bradenton as well as connecting to an existing utility at US 75.

**Southwest Water Reclamation Facility Headworks Replacement, Manatee County, FL:** Mr. Wehner served as Mechanical Engineer for the design, permitting, bidding and construction phase services to replace the existing headworks facility at Manatee County's Southwest Water Reclamation Facility (SWWRF). The project included performance of a basis of design report and a grit characterization study; and replacement/improvement of headworks structure and by-pass piping, odor control system, mechanical screens, grit removal system, grit classifiers and pumping, screening conveyors, scum screening/pumping, and instrumentation and control systems.

**FY19 CIP Water Main Improvements, City of Tampa, FL:** Project Manager. This project involved the design, permitting and construction of approximately 102,000 LF of 4 thru 24-inch diameter water mains located within 20 project areas throughout the City of Tampa to replace old and redundant water mains and improve water service and quality. The project included extensive public outreach services tailored to fit the City's needs and site-specific tree surveys to identify grand and protected trees within the project area to safeguard the City's assets.

**Siesta Key to Casey Key Water Main Design, Sarasota County, Sarasota, FL:** Project Manager for approximately 4,100 LF of 6", 8" and 10" diameter potable water main. The proposed method of construction was comprised of open trench installation on the main land and installation of 2,700 LF of 10" diameter SDR 9 HDPE potable water main by a subaqueous horizontal directional drill (HDD) under the Intracoastal Waterway and sensitive environmental preserves. This project received the American Public Works Association (APWA) 2013 Florida Chapter project of the year award in energy repair category for projects within \$5 million and was presented at the 2013 NASTT No-Dig Show.



## Omar Khan, PE

### WASTEWATER COLLECTION

#### QUALIFICATIONS

- ✓ Significant experience in replacing asbestos cement pipes
- ✓ Engineered and managed multi-million-dollar septic-to-sewer conversion projects
- ✓ Cross-trained to provide design of water main, roadway, and drainage improvements

#### EDUCATION

BS, Environmental Engineering,  
Florida Atlantic University

#### LICENSURE

Professional Engineer, FL #75524

Mr. Khan has over 15 years of experience working as an engineer in the water/wastewater industry. Omar has managed, designed and supported infrastructure related projects, including gravity sewer, vacuum sewer, pump station and force main designs for expansion, relocation, and rehabilitation assignments. While working on these projects, he provided feasibility studies, design reports/plans, specifications, cost estimates, permitting/bidding assistance, and engineering services during construction.

#### Project Experience

**Oak Lake Estates Vacuum Sewer, Okeechobee, FL:** Project manager responsible for preparing design drawings, permit applications, vacuum calculations and specifications on this project. Mr. Khan designed and permitted approximately 3,120 linear feet of vacuum sewer and 19 vacuum pits.

**Southwest Area Vacuum Phase 2, Okeechobee, FL:** Project manager currently responsible for preparing design drawings, permit applications, vacuum calculations and specifications on this project. Mr. Khan designed and permitted approximately 47,000 linear feet of vacuum sewer and 184 vacuum pits.

**Rehabilitation of Lift Stations 22A and 21D and New Force Main, City of Coral Springs, FL:** Project manager currently responsible for preparing design drawings, permit applications, vacuum calculations and specifications on this project. Mr. Khan designed and permitted approximately 47,000 linear feet of vacuum sewer and 184 vacuum pits.

**Rehabilitation of Lift Stations 22A and 21D and New Force Main, City of Coral Springs, FL:** Project manager for the planning, design, permitting and construction engineering to rehabilitate two sanitary lift stations which included new pump(s), riser piping, railing systems, fittings, valves, mechanical equipment, protective coatings, concrete slab, fence, gates, control panels and diesel generator. In addition, a new force main connecting two of the lift stations was constructed.

**Lift Station 21C Reconstruction and New Force Main, City of Coral Springs, FL:** Project manager for the planning, design, permitting and construction engineering of 1,400 LF of 10-inch force main to replace the aging 6-inch force main which would ultimately reduce the horsepower required for the new lift station.

**City of Tamarac Control Building, City of Tamarac, FL:** Eckler Engineering provided mechanical/process design, instrumentation and SCADA design, electrical design, architectural and structural coordination, and civil coordination for various on-site improvements and processes affected by the new control building. The project includes relocation of raw and process mains and the installation of new gravity sewer infrastructure, grinder station and force main. Two on-site lift stations will be abandoned. In addition, the project includes a new fluoride building with fluoride chemical feed pumps, day tank and bulk tank. Modifications to existing sodium hypochlorite system will be made inclusive of the elimination of current onsite sodium hypochlorite generation system and replacement with 12% bulk commercial sodium hypochlorite system. Power services, controls and WTP SCADA system will be upgraded.

**Water Treatment Filtration System Upgraded, City of Tamarac, FL:** Project 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.



## Dan Keck, PE

### PUMP / LIFT STATIONS

#### QUALIFICATIONS

- ✓ Extensive experience with managing wastewater lift station projects, coupled with his nationally recognized pumping expertise provides an optimum combination of skills that will directly benefit the City of Daytona Beach.
- ✓ Any condition encountered during the project will be familiar to Mr. Keck from previous experience in his career.

#### EDUCATION

M.S., Environmental Engineering,  
Georgia Tech

B.C.E., Civil Engineering, Georgia  
Tech

#### LICENSURE

Professional Engineer  
FL #50489, 1996  
GA #22562, 1996  
AL #33140, 2012  
MD, #45310, 2014  
LA, 39169, 2014  
NCEES # 50857

#### AFFILIATIONS

WEF/WEA  
AWWA  
ASCE

Mr. Keck is a Principal Project Manager and leader for strategic projects in the United States with diverse experience leading complex multi-discipline design, construction, and commissioning teams. He offers more than 19 years of experience in the planning, design, permitting, and construction of complex pump station and lift station rehabilitation, hardening, and replacement projects. He has an in-depth knowledge of numerous modeling platforms and also provides operational support to enhance pumping efficiencies and reduce operating costs.

#### ► Project Experience

**SW WRF Effluent, Reuse and DIW Pump Station, Manatee County, FL:** LMr. Keck is the PM and EOR to design improvements to increase the disposal capacity of the WRF effluent pumping station to 18 mgd, with multiple discharges to Deep Injection Well, effluent storage ponds and tanks, and public access reuse system.

**Southwest Water Reclamation Facility Headworks Replacement , Manatee County, FL:** Lead Mechanical Engineer of Record for design of both reclaimed water pump stations. North PS has two 3-MG GSTs with four 250HP pumps and South PS has two 1.5-MG GSTs with four 200HP pumps. Both stations included automated pressure reducing flow control assembly for tank filling, VFD controls of pumps for highly variable flow and discharge pressure conditions, and sodium hypochlorite disinfection. North PS included automatic bypass controls to transfer RW to South PS when pressure and demand conditions allow.

**Nocatee North 24 MGD and Nocatee South 18 MGD Reclaimed Water Repump Station and Ground Storage Tanks, JEA, Jacksonville, FL:** Lead Mechanical Engineer of Record for design of both reclaimed water pump stations. North PS has two 3-MG GSTs with four 250HP pumps and South PS has two 1.5-MG GSTs with four 200HP pumps. Both stations included automated pressure reducing flow control assembly for tank filling, VFD controls of pumps for highly variable flow and discharge pressure conditions, and sodium hypochlorite disinfection. North PS included automatic bypass controls to transfer RW to South PS when pressure and demand conditions allow.

**Twin Creeks 20-MGD Reclaimed Water Repump Station and Ground Storage Tank, JEA, Jacksonville, FL:** Lead Mechanical Engineer of Record for design of new reclaimed water pump station and two 1.5 MG GSTs. Facility included automated pressure reducing flow control assembly for tank filling, VFD controls of four 200HP pumps for highly variable flow and discharge pressure conditions, and sodium hypochlorite disinfection. Facility is a critical component to transfer reclaimed water from Greenland toward the Blacksford WRF RW service area.

**Southeast Regional Reclaimed Water Management Strategy. JEA, Jacksonville, FL:** Lead Engineer and Senior Staff Consultant for the master planning efforts to evaluate and model the reclaimed water system infrastructure needs in the southeast portion of JEA's system. The innovative strategy identified and developed the methodology to transfer reclaimed water from the north grid to the south. It also developed the methodology to transfer excess reclaimed water during wet weather events from no-discharge WRF at Greenland to existing NPDES outfalls at Mandarin and Arlington East WRFs. The study evaluated a 20-year period and involved water balance modeling, development of diurnal and seasonal peaking factors, hydraulic modeling, and report outlining the phasing and estimated costs of any recommended improvements.





## QUALIFICATIONS

- ✓ Wastewater Treatment
- ✓ Distribution System Design
- ✓ Project Management
- ✓ Construction Administration
- ✓ Construction Management

## EDUCATION

B.S., Civil Engineering, University of Akron, Ohio

## LICENSURE

Professional Engineer, FL #56335

## AFFILIATIONS

American Civil Society of Engineers

# Mitch Chiavaroli, PE

## WASTEWATER TREATMENT

Mr. Chiavaroli's experience as a project engineer and project manager with environmental engineering consultants spans 32 years. Throughout his career, Mr. Chiavaroli has been involved in design and construction of more than 30 wastewater treatment plant projects, ranging from process improvements to new plant construction. He has also provided condition assessments and developed prioritized CIP plans for WWTP's approaching 100 mgd. With his experience in the design and construction contract administration for treatment plant projects, as well as utility infrastructure system improvements, he is a primary resource for technical review and cross discipline checking of construction project documents.

## Project Experience

**North Water Reclamation Facility - Phase I Improvements, Manatee County, FL:** QA/QC review and engineering assistance for the design of components needed to expand the facility to a permitting capacity of 11.25 mgd. The facility treats wastewater from the County's north wastewater service area and utilizes a Type I oxidation ditch activated sludge biological treatment process including a nitrogen reduction (anoxic) stage, followed by filtration and high-level disinfection to produce Part III effluent suitable for slow-rate public access reuse.

**Southeast Water Reclamation Facility (SEWRF) 10 MG Storage Tank and High Service Pumps, Manatee County, FL:** QA/QC review of design and construction phase project manager for improvements to the existing high-service RCW system at the SEWRF. These improvements included 10 MG ground storage tank, a new high-service (high-pressure) pump station, conversion of the existing high-service pump station to low-service (low-pressure) transfer pump station, a new MARS high-pressure transmission main, conversion of existing high-pressure main to low-pressure service and other miscellaneous improvements to produce an operational high-service/low-service system.

**Southwest Water Reclamation Facility (SWWRF) Lake Filtration System, Manatee County, FL:** Project Manager during the construction of improvements that included a new lake filtration system, modifications to the existing north storage pond to construct an 18 mgd lined reject storage pond and convert the remaining North Pond to a 64 mg lined Part III RCW storage pond, construction of a waste backwash pump stations and new RCW return pump stations, and modifications to the existing RCW return pump station. The project included yard piping, site work, and electrical and instrumentation upgrades to incorporate the new processes and associated equipment into the existing SCADA system.

**North Regional Wastewater Treatment Plant Master Plan, Manatee County, FL:** Conducted an evaluation of the facility to determine the needs for capacity upgrades, identified proposed regulations that could require facility upgrades or modifications, and determined major replacement/repair requirements based on age and/or condition of existing equipment and/or systems. The findings of the evaluations resulted in compilation improvements planned for a 10-year period. Estimates of capital expenditures for each of the items were prepared for budgetary purposes.

**Manatee Agricultural Reuse System (MARS) Pump Stations, Manatee County, FL:** Project Manager. Mr. Chiavaroli provided design and construction administration for this project which included three booster pump stations (BPS). The first BPS is located at 63rd Avenue and has a capacity of 12.4 mgd. The second BPS is located at Rye Road and has a capacity of 11.3 mgd. The third station is a re-pump station at Spencer-Parrish and has a capacity of 4.0 mgd. In addition to detailed design services, McKim & Creed updated the hydraulic model for the overall MARS systems, developed updated demand for costs, and prepared operation protocols for the facilities to be placed in service.



## Phil Locke, PE

### WATER TREATMENT

#### QUALIFICATIONS

- ✓ Water, Wastewater and Reclaimed Water Utility System Master Planning
- ✓ Advanced Water Treatment Plant Design
- ✓ Wastewater, Reclaimed Water and Storm Water Pumping Station Design
- ✓ Hydraulic Modeling
- ✓ Utility Relocation Projects
- ✓ Construction Management

#### EDUCATION

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

#### LICENSURE

Professional Engineer, FL #57527

#### AFFILIATIONS

American Water Works Association,  
Chair - Treatment Systems and Reuse Committee

Water Environment Federation

American Membrane Technology Association

Southeast Desalting Association

#### ► Project Experience

**Manatee County Water Treatment Plant Biological Treatment Unit, Manatee County, Bradenton, FL:** Project Manager for design, permitting, bidding and construction for project that included construction of 6 new biological treatment units, new filter backwash pumping system and new scour system, backwash clearwell structure, new filter building for housing new treatment units (including electrical room), installation of new raw water flow meters and modulating valves, instrumentation and control systems, electrical systems, new process and yard piping, connections to existing rapid mix basins, new BTU backwash pond, new onsite lift station, approximately 13,000 LF of 6-inch force main, integration of BTU control system into existing SCADA, and integration of existing emergency power into BTU process.

**Lake Manatee Water Treatment Plant Ultrafiltration System Pilot Study & Basis of Design Report, Manatee County, FL:** Project Manager. Concerns over the increasing difficulty to comply with limits on finished water turbidity, the age/condition of the existing infrastructure, the potential for more stringent regulatory requirements in the future, and current operation and maintenance costs to treat these occurrences led Manatee County to consider alternative treatment technologies to address these issues. A pilot study was conducted for approximately seven months to test the feasibility of potential treatment improvements that were included in the Lake Manatee Water Treatment Pilot Study Report. Subsequent to the pilot study, this project included the preparation of a BODR for the implementation of a UF system, to include a detailed project scope and process component definition, identification of equipment and process component options, project schedule including design, permitting and construction timelines, permitting requirements and updated estimates of project costs. The BODR was utilized to initiate detailed design and enable permitting for the UF system.

**Water Supply & Treatment Master Plan Update, Clearwater, FL:** Project Manager for master planning services to the City of Clearwater to assist the City in plotting the course of its water supply, treatment and distribution systems for the next 30 years. The project scope included evaluations of hydrogeologic conditions within the City's service area, raw and finished water systems, water treatment facilities, wellfields and groundwater replenishment. Based on these evaluations, the team developed a 30-year master plan that offered recommendations on meeting long-term water supply needs, water quality goals and implementing system reliability. The plan included prioritized recommendations for capital improvement projects and planning level costs, and accounted for potential sea-level rise impacts on the City's water supply and treatment facilities.

**East County Wellfield Expansion, Manatee County, FL:** Project Manager. McKim & Creed provided engineering services for the design, permitting, bidding and construction of two new production wells, pump houses, generators, and associated electrical and instrumentation systems to expand the East County wellfield capacity by 2 mgd average annually and 4 mgd peak monthly to address challenges in meeting potable water demands. The increase was facilitated by a reduction in pumping inside the MIA by transfer of permitting quantity from an agricultural WUP to the East County wellfield WUP.



## Tracey Webb, PE

**SITE, CIVIL, & STORMWATER**

### QUALIFICATIONS

- ✓ Significant experience (23+ years) managing projects of similar scope
- ✓ History of delivering projects on time and within budget
- ✓ Extensive experience in civil and stormwater engineering design
- ✓ Excels at utility coordination and determining environmental impacts of utility projects
- ✓ Stormwater Management
- ✓ Erosion & Sediment Control
- ✓ Drainage
- ✓ Transportation

### EDUCATION

B.S., Civil Engineering, Purdue University

### LICENSURE

Professional Engineer, FL #88356, IN, IL, IA, WI, MN

Ms. Webb is a licensed civil engineer with 23 years of experience in civil and transportation engineering design. She has designed or managed over 65 civil engineering projects and has been engaged in the planning, design and construction of municipal projects ranging from maintenance evaluation and replacement designs of roadways to ADA compliance of sidewalks/crossings. Ms. Webb has integrated utility improvement projects with roadway improvement, drainage, and complete street projects to bring added value to clients.

### ► Project Experience

#### **Lake Maria Sanchez Flood Mitigation and Drainage Project, City of St. Augustine, FL:**

Project Engineer. McKim & Creed is providing design, permitting and construction services for a stormwater pump station, stormwater conveyance and treatment systems, bulkheads and recreational facilities for the Lake Maria Sanchez Flood Mitigation and Drainage project that followed severe damage the City of St. Augustine suffered in 2016 from Hurricane Matthew. As part of this resiliency project to improve drainage and mitigate storm surge and nuisance tidal flooding, the City chose to leverage current technologies for back flow prevention in conjunction with the installation of conveyance improvements and a stormwater pump station to pump stormwater out of the project area during periods of high water in the Matanzas River. The design also incorporates a walking/multi-use trail around Lake Maria Sanchez.

#### **1st Avenue and 8th Street Drainage Improvements, City of Silvis, IL:**

Ms. Webb served as Project Engineer for this storm sewer improvement project to increase storm sewer intake and piping capacity and reduce stormwater flooding with installation of 740 feet of 48-inch diameter storm sewer piping with 72 LF of slotted vane drains to quickly remove surface water from the pavement during significant rain events.

#### **Lincoln Road, Alcoa Avenue & Robeson Avenue Improvements, City of Bettendorf, IA:**

Ms. Webb served as Project Engineer for this project. Involvement included hydraulic design, pavement design and preparation of plans and specifications for roadway improvement projects. Pavement failures on Alcoa Avenue caused the City of Bettendorf to look at the reconstruction of Alcoa Avenue and several other local urban streets. The work included complete pavement reconstruction, evaluation of existing sanitary facilities and needed repairs, and the hydraulic analysis and complete redesign of the existing storm sewer system for the entire drainage basin. The project was located within a 43.7 acre drainage basin that had a primary outlet to a tributary of Duck Creek at Lincoln Road. The project improvements redirected Alcoa Avenue and Robeson Avenue storm drainage from an existing easement across developed private property to the roadway drainage system planned as part of the improvement upgrades, including installation of 73 new storm drainage structures. Plans and specifications were prepared for three separate projects to better accommodate access needs to a local elementary school located within the project limits. Specific design elements included 4150 ft of new urban pavement construction and 4180 ft of storm sewer construction, ranging from 15" to 72" diameter, 16 sanitary manhole replacements and 662 ft of 8" sanitary sewer main repairs.

#### **Tanglefoot Lane (Phase 3) Improvements, Bettendorf, IA:**

Ms. Webb served as Project Engineer for this project. The project included roadway reconstruction and drainage improvements on Tanglefoot Lane from Utica Ridge Road to Greenbrier Drive (approximately 0.5 mile). Involvement included complete roadway reconstruction from a 24-foot section with shoulders and ditches to a new 49-foot urban roadway section with curb and gutter and an enclosed drainage system. Design challenges included the addition of a 10-foot wide multi-use path on the north side of the roadway and redesign of nine side street intersections to current ADA standards. Temporary construction easements were prepared and negotiated with many of the adjacent land owners, including presentation of project development at public information meeting.



**Cypress Creek Post Node Analyzer Building, Tampa Bay Water, Land O'Lakes, FL:** Ms. Webb was the Project Manager for the Cypress Creek Pump Station project which included a new 360 square foot (18'x20') pre-fabricated concrete building; air conditioning; concrete slab and demolition and disposal of the existing fiberglass building.

**SWWRF New Headworks, Manatee County, Bradenton, FL:** McKim & Creed provided design, permitting, bidding and construction phase services to replace the existing headworks facility at Manatee County's Southwest Water Reclamation Facility (SWWRF). Ms. Webb served as Technical Advisor on this project which included performance of a basis of design report and a grit characterization study; and replacement/improvement of these components: headworks structure and by-pass piping, odor control system, mechanical screens, grit removal system, grit classifiers and pumping, screening conveyors, scum screening/pumping, and instrumentation and control systems.

**Force Main Relocation, MCES, City of White Bear Lake, MN:** Ms. Webb served as Project Manager/Civil Designer responsible for development of construction plans, special provisions and technical specifications for the reconstruction of 1,500 feet of 10-inch sanitary sewer force main along Old White Bear Avenue from South Shore Boulevard to Cottage Park Road in the City of White Bear Lake. The force main construction documents were prepared for MCES for inclusion in the City of White Bear Lake's 2018 Street Reconstruction Project in which the City reconstructed the roadway corridor over the force main. The force main, identified as Interceptor 1-WL-417, is pumped from Lift Station 5 (L05) located at the southern end of the project. The new force main was constructed beneath the new pavement and the existing force main was abandoned in place. The project also included access improvements to L05 with removal and reconstruction of the entire driveway to provide an improved configuration. Engineering work also involved development of a schedule of quantities and engineer's estimate to assist with bid document preparation and planning for the \$200,000 force main portion of the construction project.

**Clear Wells and High Service Pump Station at Water Treatment Facility, Milwaukee, WI:** Ms. Webb served as Civil Site Designer for the design of a 6.3 million dollar modification project to the City of South Milwaukee's existing Water Treatment Facility located at 100 Marshall Avenue. Two projects were bid and constructed concurrently at the site. The first project was the Clearwells Addition. This portion consists of construction of two 850,000 gallon water treatment facility precast, prestressed concrete clearwell tanks above grade. This clearwell portion of the project included demolition of existing below grade tank facilities, associated site grading and yard piping. The second project was the High Service Pump Station. The pump station portion of the work consists of construction of a new high service pump station and included demolition of the existing decommissioned precipitator and associated sitework, including a parking lot addition, site grading and yard piping.



## Patrick Jehle, Jr., PE

### PARKS / RECREATION

#### QUALIFICATIONS

- ✓ Project Management, Design and Permitting for Sidewalks and Pedestrian Facilities
- ✓ Local Agency Program (LAP) Experience
- ✓ ERP Permitting (General, Individual, Exemptions)
- ✓ Proven Leader and Facilitator of Public Involvement Activities
- ✓ Specific experience with the multi-use trails, recreational facilities and pedestrian facilities

#### EDUCATION

B.S., Civil Engineering, Georgia Institute of Technology

#### LICENSURE

Professional Engineer, FL #71528

Professional Engineer, AL #32657

FDEP Qualified Stormwater Management Inspector

Mr. Jehle has over 15 years of experience of diverse civil engineering experience in the areas of improving recreational and park facilities, developing wetland trails, integrating intermodal trails with roadway projects, and protecting green spaces. Mr. Jehle also has experience with the design and permitting of a wide range of storm water management system types, including conventional dry ponds, dry ponds with both gravity fed and pump assisted filtration, below-grade exfiltration, wet retention and vegetated natural buffer configurations.

#### ► Project Experience

**Avery Street Sidewalks and Drainage, Escambia County, FL:** This project includes sidewalk and drainage improvements along West Avery Street in Escambia County, Florida. New sidewalks are proposed along both sides of Avery Street, and new drainage infrastructure will be included to close an existing open ditch system.

**North Old Corry Field Road Sidewalks and Drainage (FDOT District 3 LAP), Escambia County, FL:** Project Manager. This LAP project included sidewalk and drainage improvements along North Old Corry Field Road in Escambia County, Florida. New sidewalk is being constructed along the east side of the roadway, and an new inlet and pipe system is included to replace an existing open ditch system.

**South Old Corry Field Road Sidewalks and Drainage | Escambia County, FL:** Project Manager. This project included sidewalk and drainage improvements along South Old Corry Field Road in Escambia County, Florida. New sidewalk is being constructed along the east side of the roadway along with a new inlet and pipe system to replace an existing open ditch system.

**Bobe Street and Scott Street Sidewalks and Drainage, Escambia County, FL:** This project included sidewalk and drainage improvements along Bobe Street and Scott Street in Escambia County, Florida. New sidewalk was constructed along the south side of Bobe Street along with a new inlet and pipe system that replaced an existing open ditch system. New sidewalk was constructed along both the north and south side of Scott Street.

**Daniel Drive and Joachim Drive Improvements, Gulf Breeze, FL:** This project includes construction of new access and safety improvements along Daniel Drive and Joachim Drive in Gulf Breeze, Florida. Vehicle access improvements include driveway connection upgrades to several properties within the project area, intersection improvements at Daniel Drive and Andrew Jackson Trail, and upgraded public parking. Pedestrian access improvements include new sidewalks, pedestrian crosswalks and upgraded ADA accessibility features throughout the project area. Safety improvements included addition of new raised pedestrian crosswalks, new speed tables, and upgraded signing and pavement markings.

**Brickyard Road Paving and Drainage Improvements, Escambia County, FL:** Civil Engineer of Record for design of paving and stormwater improvements for +/- 1.4 miles of existing dirt road. Improvements included installation of formal roadside swales, protection of wetland swales excavated in uplands, and replacement of two failing brick arch culverts over separate crossings of two stream tributaries of the Escambia River. Culvert replacement included removal of failing structures, removal of accumulated sediment and debris within the stream banks and re-establishment of native wetland plantings. The project required NFWMD and ACOE permitting.



# Aubrey Haudricourt, PE

## ELECTRICAL ENGINEER

### QUALIFICATIONS

- ✓ Career focused on electrical and controls systems specific to water and wastewater facilities
- ✓ Versatile knowledge of water and wastewater facilities designs
- ✓ Knowledge of proper safety procedures for working on and around high-voltage electrical and water and wastewater utility treatment plants
- ✓ QA/QC
- ✓ 4160v & 480v Electrical Engineering
- ✓ Equipment Assessment
- ✓ Generator Sizing

### EDUCATION

B.S.E.E., Electrical Engineering, Old Dominion University

### LICENSURE

Professional Engineer,  
FL #66861

Professional Engineer, GA, VA, TX, AL

### AFFILIATIONS

Institute of Electrical and Electronics Engineers (Institute of Electrical and Electronics Engineers (IEEE)

IEEE Power & Energy Society (PES)

Mr. Haudricourt has over 20 years experience in both electrical and instrumentation engineering. He has designed and overseen the installation of power generation, power distribution, lighting and process controls systems for large water and wastewater facilities as well as waste to energy and industrial facilities. Aubrey's expertise includes evaluating existing electrical assets for equipment life expectancy and risk failure assessment. He has also been involved in vulnerability studies for security, including hurricane and flood resiliency. He performs coordination and arcflash studies with recommendation for personnel protection. Aubrey also has over 20 years experience in other construction related fields, including inspection and management.

### Project Experience

#### **SWWRF Headworks Replacement and Contact Chamber Upgrades, Manatee County, FL:**

Lead design engineer for the design of a complete headworks replacement and upgrades to the chlorine contact chambers including pumping and chemical systems. Project also included the installation of a 4160V loop distribution with switching between two medium voltage (MV) feeders to provide redundant power to low voltage substation and MV aeration blowers. NFPA-820 compliance and forced ventilation system were part of the design to reduce classification areas and to lessen the effects of corrosion.

#### **SWWRF Medium Voltage Electric Distribution Replacement, Manatee County, FL:**

Lead Electrical Design Engineer for the design of the replacement and expansion of the plant's existing medium voltage (MV) distribution system. This new system will comply NFPA70E and NFPA-820, using the latest in arcflash reduction and HVAC ventilation systems for equipment protection against corrosion. The new MV feeder system will have client owned service transformers with customer revenue metering to monitor incoming power quality so as to compare to the Utility metering. This information along with individual feeder monitoring will be analyzed by energy monitoring software produced by Sweitzer Electric. All feeder, transformer and bus differential protection and monitoring are performed using Sweitzer Electric relays. A separate wireless thermal monitoring system will track bus and cable connections temperatures and alarm or trip when out of range.

#### **SEWRF 10 MG Storage Tank and High Service Pumps, Manatee County, FL:**

Mr. Haudricourt served as the electrical engineer, providing professional engineering services for this project which set up an independent low service (low pressure) system at the SEWRF to distribute effluent from the CCCs to the storage ponds. This effort was implemented to improve MCMRS reliability during facility upset conditions and reduce power consumption of the facility to bring down operating costs. The project included the installation of a new 10 MG GST, high service RCW pumping system, electrical and SCADA system components.

#### **WWRF Biological Treatment Improvements. Largo, FL:**

Lead Electrical Design Engineer for upgrade to "middle of the plant" processes to increase capacity and mitigate storm surge. Electrical design included elevated standby generation systems and elevated electrical distribution buildings in several locations throughout the plant for flood mitigation. Process changes provided for elevated pumping, filter and valve systems. Design build construction was used to expedite project schedule because of annual storm season.

#### **Howard F. Curren Advanced WWTP Master Plan, City of Tampa, FL:**

Electrical Engineer for this master planning effort launched by the City of Tampa which included the evaluation of process alternatives and recommendations for improvements to its Howard F. Curren Advanced Wastewater Treatment Plant. The facility is permitted to treat 96 mgd with a Type I two-stage, high rate (pure oxygen and fine bubble aeration) activated sludge biological nitrification/denitrification process. Our team provided review of historical and ongoing projects, reports and studies; initial observation of the plant; and a conceptual level assessment of major equipment within the facility and its current operations.



## AUBREY HAUDRICOURT, PE ELECTRICAL ENGINEER

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**Lift Station 87 Design and Construction Services, City of Sarasota, FL:** Lead electrical design engineer for this new, above-ground 9.5-million gpd lift station to replace an existing lift station that is coming to the end of its useful life. Mr. Haudricourt provided an arc flash analysis and design modifications of site electrical power and control wiring of electrical systems in the submersible pump structure, standby pump room structure, odor control structure, and electrical room structure. All modifications met Class I reliability standards. This project received the American Public Works Association (APWA) 2018 Florida Chapter project of the year award and the Florida Water Environment Association (FWEA) 2018 Recognition of Excellence in Engineering award.



## Blake Peters, PE, PACP

### TRENCHLESS PIPE DESIGN

#### QUALIFICATIONS

- ✓ 34 years of experience with water and reuse water utility engineering
- ✓ Integrated Water Resources Master Planning Experience
- ✓ Alternate water supply and storage
- ✓ Water and Wastewater Utility Infrastructure
- ✓ HDD and Jack and Bore Design
- ✓ BoreAid-Trained
- ✓ Micro-tunneling Design

#### EDUCATION

B.S., Civil Engineering, California State Polytechnic University, Pomona

#### LICENSURE

Professional Engineer,  
FL #64429

Professional Engineer,  
CA #65555

Pipeline Assessment Certification  
Program (PACP)

Manhole Assessment Certification  
Program (MACP)

Lateral Assessment Certification  
Program (LACP)

#### AFFILIATIONS

North American Society For  
Trenchless Technology (NASTT)

National Association of Sewer  
Service Companies (NASSCO)

Blake offers more than 22 years of experience in the planning, design, permitting, cost estimating and construction management of diverse water and wastewater infrastructure projects including lift station rehabilitation and pump station design. Mr. Peters has performed multiple roles associated with lift station rehabilitation including planning, hydraulic modeling, design engineer, project manager and construction administrator for over eight lift station rehabilitation projects during the last 12 years. He has an in-depth knowledge of construction and civil engineering technologies and methodologies, with the ability to apply them to the strategic benefit projects.

#### ► Project Experience

**Wendell Kent Regional Pump Station, Sarasota County, FL:** Mr. Peters served as the Project Manager for the design and permitting services for the rehabilitation of the Wendell Kent RPS which transmits approximately 32% of the total flow to the Bee Ridge WRF. The improvement consisted of rehabilitation to the existing wet well, new splitter box, manholes, new odor control, new diesel pump, electrical, instrumentation, and control improvements. An engineering evaluation was performed that provided that County a comprehensive analysis including, conceptual site plan layouts, bypass pumping configurations, condition assessment of the existing wet well, odor control evaluation, and CFD modeling to resolve long-term operational and maintenance challenges associated with FOG mat development. Currently, 90% bid documents are being developed.

**Bent Tree Master Lift Station Rehabilitation, Sarasota County, FL:** Mr. Peters served as the Project Manager for the rehabilitation of the Bent Tree Master Lift Station. Improvements consisted of repairs and replacement of pumps, wet well lining, interior and exterior piping, odor control, generator, control panels, and SCADA. Detailed maintenance of flow and bypass plans were developed to support the extensive downtime during construction.

**Venice Gardens WRF Main and Transfer Pump Stations Rehabilitation, Sarasota County, FL:** Mr. Peters served as the Project Manager for the design, permitting, bid, and construction administration services to Sarasota County to rehabilitate two pump stations at its Venice Gardens Water Reclamation Facility. Improvements to the County's Main Pump Station include replacement pumps, discharge pipe within the wet well, guide rails and hangers, wet well and upstream manhole coating, partial replacement of discharge pipe header, and relocation of the electrical panel. The team is adding an ultrasonic level control system, and connecting the wet well to the headworks odor control system. At the County's Transfer Pump Station, improvements include replacement pumps, guide rails and hangers, control panels, discharge pipe header, wet well coating, discharge pipe within the wet well, and a new 30-inch bypass pipe that runs from the Main Pump Station upstream manhole to the Transfer Pump Station wet well. Power conduits and an ultrasonic level control system are also being added to this pump station.

**Southeast WRF 10 MG Storage Tank and High Service Pumps, Manatee County, FL:** Mr. Peters served as the Project Engineer for this project which set up an independent low service system at the Southeast WRF to distribute effluent from the CCCs to the storage ponds. This effort will improve MCMRS reliability during facility upset conditions and reduce power consumption of the facility to bring down operating costs.

**Water Treatment Plant Biological Treatment Unit, Manatee County, FL:** Mr. Peters served as the Project Engineer, providing engineering services for the design, permitting, bidding and construction phase services needed for the WTP Biological Treatment Unit (BTU). Specific components of the project included the electrical distribution and control system for six new BTUs, filter backwash pumping system, filter backwash air scour system, filter building for housing the treatment units. Electrical design called for upgrades and addition to existing medium voltage (MV) plant distribution system with the addition of MV breakers and 2000kVA transformers, new MV feeders to raw water pumping stations, and 1500kVA plant process transformers, motor control centers and switchgear. Arcflash and coordination studies were also performed for this project.



## QUALIFICATIONS

## EDUCATION

B.S., Civil Engineering, Florida Gulf Coast University

## LICENSURE

Professional Engineer, FL #95727

# Luis Aguiar, PE

## RESIDENT INSPECTION

Experienced Project Engineer with a demonstrated history of working in the civil engineering industry. Skilled in Computer-Aided Design (CAD), WaterGEMS, ICPR, and BMP design.

## ► Project Experience

**Winkler Canal Water Main Replacement, Fort Myers, FL:** McKim and Creed was selected to provide engineering design, bidding, permitting, surveying and subsurface utility engineering, and construction phase services for this \$2 million project that improves water quality by replacing 3,000 LF of 12-inch water main and 1,400 LF of 16-inch water main. The project traverses a section of the Winkler Canal and includes three horizontal directional drills (HDDs), totaling 1,200 LF, to avoid impacting the canal, a large concrete water control structure and a large culvert crossing. A construction phasing plan was provided to address connections to an existing water storage tank facility, multiple intersecting mains, and numerous service laterals along the alignment. McKim & Creed provided engineering services during construction, including periodic inspection and meetings with the Construction Manager, Contractor and City engineering staff when issues arose to provide timely, innovative, and cost-effective resolutions, including an additional directional drill to provide additional looping and reliability.





## QUALIFICATIONS

- ✓ 17 years' experience
- ✓ 2 years with McKim & Creed
- ✓ Hydronics
- ✓ Controls
- ✓ Energy
- ✓ HVAC Design
- ✓ Project Management
- ✓ Energy Systems

## EDUCATION

B.S., Mechanical Engineering,  
University of South Florida

## LICENSURE

Professional Engineer: FL #69142

LEED Accredited Professional

## AFFILIATIONS

American Society of Heating,  
Refrigeration and Air Conditioning  
Engineers (ASHRAE)

# Barry Dunham, PE, LEED AP, BD+C

MEP

As a senior mechanical engineer with McKim & Creed, Mr. Dunham designs and manages HVAC projects for healthcare environments, educational buildings and commercial facilities. He has more than 15 years' experience and specializes in the fields of hydronics, controls and energy efficiency.

## ► Project Experience

**University of Central Florida MDGF/IDF Room Electrical and HVAC Upgrades, Orlando, FL:** Project Manager. As part of a continuing service contract with UCF, McKim & Creed is providing MEP engineering services to upgrade the electrical and mechanical systems in the IT rooms.

**Pinellas County School Board, Pinellas County, FL:** Mechanical Systems Engineer. Mr. Dunham worked directly with the Pinellas County school board on numerous projects ranging from renovations to new buildings on multiple campuses. Mr. Dunham was involved in the evaluation of the facility by performing life cycle cost analysis to determine what types of HVAC systems would best satisfy the school board's requirements. Project renovation work included chiller replacements, hydronic system upgrades from primary secondary to variable primary where applicable and new VAV air handler system designs.\*

**University of Tampa Cass Building Infrastructure Upgrades, Tampa, FL:** Mechanical Engineer. McKim & Creed was selected to provide infrastructure upgrades to the chilled water system, including evaluating current and future HVAC loads, assisting in new chiller selection, providing pumping/piping system modifications, and controls system optimization. The project also includes an emergency power system which consists of evaluating emergency power loads, building standby power needs, future building emergency, standby, and legally required power needs, in addition to a hot water system; inclusive of a new boiler, piping, pumping, and controls system upgrades. Cost: \$400,000

**University of Tampa North Campus Central Energy Plant, Tampa, FL:** Project Manager. McKim & Creed is providing design and construction administration services for the University of Tampa New North Campus Chiller Plant. The scope of this project includes providing 4 new 1,200 Ton chillers and associated cooling towers, variable primary pumps, condenser pumps, and chemical treatment system. Also included is new underground piping to connect 3 additional campus buildings and to connect to the existing south chiller plant to complete a total campus chiller plant loop. Hydraulic modeling for pressure and flow relationships in the underground piping system for the north and south chiller plants is also being provided. The project also includes providing a new DDC controls system and interfacing with the south chiller plant so the two plants operate in concert while still having the ability to operate standalone as well. Cost: \$15,000,000

**University of South Florida, Recreation and Wellness Facility, Tampa Florida:** Mr. Dunham worked with the University of South Florida on the expansion of their wellness facility on the Tampa campus. The project involved blending an existing facility and brand-new addition that was a blend of new and existing HVAC systems. Mr. Dunham provided the mechanical system and HVAC controls design for this multi-story, state-of-the-art fitness center. Mr. Dunham was involved from the very beginning of this project, working with the University, architects and construction manager all the way through construction, ensuring that the building performed as it was designed.\*

**Oldsmar WWTP Admin Building, Oldsmar, FL:** Mr. Dunham served as mechanical engineer. The Oldsmar WWTP Admin Building is a new, two-story 10,000 SF building that is replacing an existing building at the Oldsmar Water Treatment campus. The building incorporates the electrical equipment for plant operation as well as office and conference rooms, locker rooms and a new control room that overlooks the facility. McKim & Creed provided the mechanical, electrical, plumbing and fire protection design for the new building.

*\*experience prior to joining McKim & Creed*



## QUALIFICATIONS

- ✓ Engineering
- ✓ Project Management
- ✓ Operations
- ✓ Business Development

## EDUCATION

M.A., Civil/Structural Engineering,  
University of Florida

B.S., Civil Engineering, University of  
Florida

B.S., Building Construction,  
University of Florida

## LICENSURE

Professional Engineer,  
FL #34779

Professional Engineer,  
NC, LA, GA, CA

Certified General Contractor

Special Inspector

## AFFILIATIONS

American Society of Civil Engineers  
(ASCE)

American Concrete Institute (ACI)

# A. Emmett Anderson III, PE

## STRUCTURAL ENGINEERING

Mr. Anderson has more than 36 years of experience as a civil/structural engineer providing design, project management and construction administration services for water, wastewater, stormwater and industrial systems. He has experience in the design of new utility systems, as well as condition assessments of existing facilities and infrastructure; a strong background in computer applications such as finite element and classical numerical methods; and experience with structural analysis of most types of structures.

## Project Experience

### WWRF Operations Building and Hardening of Biosolids Building, City of Largo, FL:

Mr. Anderson served as Structural Engineer for the final design phase of the project. After completing a Preliminary Engineering Report for this work, McKim & Creed was selected by the City of Largo to design and construct a new Operations Center at the City's 18 mgd Wastewater Reclamation Facility (WWRF). The scope of work includes preliminary and final design, SUE and survey, geotechnical, permitting and construction phase services for the Operations Building, which is designed with an elevation to allow it to remain operational during a Category 4 hurricane and associated storm surge. Our team is also providing preliminary engineering services for strengthening an existing Biosolids Building to meet a minimum of Category 3 wind loads. The plant will remain fully operational throughout the construction of the Operations Center and the hardening work at the Biosolids Building.

**SWWRF New Headworks, Manatee County, FL:** Mr. Anderson served as Structural Engineer. The project included performance of a basis of design report and a grit characterization study, and replacement/improvement of the following components: headworks structure and by-pass piping, odor control system, mechanical screens, grit removal system, grit classifiers and pumping, screening conveyors, scum screening/pumping, and I&C systems.

**Manatee Agricultural Reuse Supply System, Manatee County, FL:** Mr. Anderson Provided structural engineering services for addition of three new booster pump stations of similar size and capacity constructed of concrete masonry and wood truss roof on shallow foundations. The stations were designed to house three new booster pumps with space for an additional pump. The project also includes an electrical control room, fuel storage tank and an external back-up generator.

**Southwest Water Reclamation Facility, RCW Pump Station Expansion, City of St. Petersburg, FL:** Mr. Anderson served as Structural Engineer for this project that included adding two reclaimed water pumps in the Southwest Water Reclamation Facility effluent pump station in order to meet the increased demand for reclaimed water. Our team monitored and controlled the new reclaimed water pump variable frequency drives and check-valves associated with the plant SCADA system, and modified the existing pump control scheme to incorporate the two new pumps.

**Lift Station 87 Design and Construction Services, City of Sarasota, FL:** Mr. Anderson served as Structural Engineer for this project that included planning, design, and permitting of a new, above ground master lift station that will handle one-third of the City's wastewater. The elevated facility, located in a city park, was designed to withstand the wind and water impacts of a Category 3 hurricane and required extensive architectural and landscaping work to blend the facility into the residential neighborhood.

**Northwest Regional Water Reclamation Facility Expansion, Hillsborough County, FL:** Mr. Anderson served as Structural Engineer. McKim & Creed worked with Hillsborough County to develop a site master plan for its Northwest Hillsborough Wastewater Consolidation Program, and a design criteria package (DCP) for the expansion of its Northwest Regional Water Reclamation Facility (NWRWRF). The 10 mgd facility was expanded to 30 mgd, and unit operations included headworks, BNR basins, clarifiers, filters, disinfection system, reclaimed water and reject water. Site plan work consisted of coordinating the expansion of the facility along with the development of a new connector road that required integration of the stormwater system with area wetlands. Our team performed this work while mitigating the wetlands and identifying land within the corridor for development. Our team continues to support the County through various site planning, engineering design and construction administration



## Barry Hales

### WATER LOSS MANAGEMENT

#### QUALIFICATIONS

- ✓ Over 20 years of experience deploying and integrating technology for potable water systems
- ✓ History of delivering projects on time and within budget
- ✓ Helped utilities save money on non-revenue water
- ✓ Provides full system analysis, survey, repair and monitoring services
- ✓ Established industry practices for deploying, maintaining, and analyzing data from these systems in a subscription-based model

#### EDUCATION

B.S., Business Management, NCSU

#### AFFILIATIONS

Member CA-NV Water Loss Control Committee

Working with other industry experts in the formation of national standards for Water Audits and the establishment NAWL (North American Water Loss Conference)

Mr. Hales joined the McKim & Creed Team as the key contact for the Water Asset Management business unit after the firm acquired Matchpoint Water Asset Management in the later part of 2020. Mr. Hales brings over 20 years of experience in the deployment and integration of technology for potable water systems and has worked extensively with utilities in the analysis and actionable intelligence gained from “smart” systems. His team's ability to identify leaks reduces the amount of water that is lost, provides an additional level of quality control during construction, saves money on non-revenue water, and offers monetary benefits by ensuring treated water reaches its intended destination and isn't lost in leaky pipes.

#### ► Project Experience

**Water Loss / Leak Detection, City of Miramar, FL:** Mr. Hales served as Principal and the team performed flow and pressure analyses of the City's system and conducted a leak detection survey on approximately 60 miles of pipelines and associated service connections. At the completion of the survey, 441 distribution leaks and 125 suspected customer side leaks were identified. The leakage rate of the leaks discovered is estimated at 905.8 gallons per minute. Therefore, once repairs are completed, the utility will save approximately 1,304,352 gallons per day, or 39,674,040 gallons per month, or 476,088,480 gallons per year. The monetary value of the water is \$1,630.44 per day or \$595,110.60 per year based on a cost of \$1.25 per 1000 gal that was provided in previous years' investigations.

**Aqua America, Chapel Ridge Community, Cary, NC:** Mr. Hale served as Principal for for GIS mapping and leak detection services across 17.1 miles of mains within the water distribution system. Initial findings on the acoustic leak detection investigation yielded measurable results, as the data from the survey produced several distribution side leaks, as well as reported other significant items that contribute to the overall system loss. These items included customer leaks that did not register, illegal or unaccounted for connections, potential theft from hydrants and also helped to establish a baseline for potential “background leakage”. A total of 5 distribution leaks were confirmed and 24 suspected customer side leaks were identified. These leaks totaled a conservative 2.35 gallons per minute or \$16,884.64 annually.

**City of San Marcos Leak Detection Services, V&A Consulting Engineers, San Marcos, Vallecitos, TX:** Mr. Hales served as water asset management lead for leak detection services on 150 miles of the city's water distribution system. In phase II, 75 miles of surveying, we were able to confirm a total of 45 leaks. These leaks are conservatively estimated to account for approximately 100.20 gallons per minute. Ninety-eight (98) % of the 45 leaks were non visible leaks.

**Knoxville Utilities Board, Knoxville Utilities Board, Knoxville, TN:** Mr. Hales served as water asset management lead for leak detection services for 211 miles of pipe in the oldest part of the city area. A total of 50 distribution leaks were confirmed. These leaks totaled a conservative 441.5 gallons per minute or \$71,936.00 annually. Since this initial contract, we have been awarded 3 additional contract extensions for leak detection services, including the integration of our DDS program where we currently monitor and maintain a comprehensive DMA system for the entire KUB service area. Over the past three years' worth of KUB contracts, We surveyed approximately 795.81 miles of distribution system and located 873.35 GPM worth of leaks.

**Hallsdale-Powell Utility District DMA, Hallsdale-Powell Utility, Knoxville, TN:** Mr. Hales served as water asset management lead for this project. HallsdalePowell Utility District DMA is utilizing our equipment and analytics to efficiently and effectively manage their water system infrastructure and lower water loss. We were able to confirm 29 distribution leaks as well 23 suspected customer leaks. Of these leaks, eighty-six (86) % of the 54 leaks were non-visible leaks. These leaks totaled a conservative 72.1 gallons per minute or 37,895,760 gallons annually.





## David Ardman, ENV SP

### RESILIENCY / HARDENING

#### QUALIFICATIONS

- ✓ Negotiation and coordination with regulatory agencies
- ✓ Crisis communications
- ✓ Interpretation of legislative products
- ✓ Client representation

#### EDUCATION

B.A., Communications/Mass Media,  
State University of New York at  
Plattsburgh

#### LICENSURE

Envision Sustainability Professional

#### AFFILIATIONS

Design-Build Institute of America,  
Florida Chapter

Florida Engineering Society (FES)

Florida Stormwater Association  
(FSA)

Pinellas Suncoast Fire & Rescue  
District, Former Vice Chair/  
Commissioner - Seat 2

Central Pinellas Chamber  
of Commerce, Economic  
Development Committee

St. Petersburg Skyway Marina  
District, Arts & Design Committee

David Ardman has more than 32 years of experience in project coordination, public information and presentation, and client relationship management in both the public and private sectors. David's knowledge and expertise include more than 15 years working in the public sector for transportation agencies and state government, and the following years of experience with consulting firms primarily involved with roadway improvements, utility undergrounding conversions and subsurface utility engineering (SUE). As Deputy Director of Public Information for the NYS Thruway Authority, Mr. Ardman was responsible for the dissemination of information for accidents and incidents along the 559-mile superhighway and the 325-mile state canal system. Then, as Manager for Traveler Information Services, Mr. Ardman worked on the roll-out of the nation's first electronic toll collection, known as E-ZPass, implemented marketing and safety initiatives for the program. In the NYS Legislature, Mr. Ardman served as Press Secretary to the chair of the Senate Transportation Committee and participated in advocacy that led to the passage of the \$3.8 billion NYS Transportation Bond Act in 2000.

#### ► Project Experience

**Lift Station 87 Design and Construction Services Sarasota, FL:** The City of Sarasota selected McKim & Creed to engineer this new, above-ground 9.5-million gpd lift station to replace an existing lift station that is coming to the end of its useful life. Wastewater flow will be redirected from the old station to the new Lift Station 87 by a new gravity wastewater transmission main, a section of which will be constructed under the Hudson Bayou. Once completed, the project will improve wastewater service and reliability for City of Sarasota customers and protect the environment.

Lift Station 87 includes a number of enhancements to ensure reliable water and wastewater service to area customers. The new above-ground station is designed to withstand a Category 3 storm surge. Other enhancements include installing reclaimed water mains to provide the area with an environmentally friendly source of irrigation water, replacing aging water mains to improve water pressure, installing new sewer mains, fully resurfacing roadways curb-to-curb, and landscaping the site of the old lift station once it has been decommissioned.

McKim & Creed also was responsible for planning, design, and permitting for the replacement of wastewater gravity mains ranging in size from 8 inches to 36 inches in diameter. This included obtaining permits from FDOT, City of Sarasota, FDEP and ACOE. Preliminary engineering included a routing study that evaluated financial, environmental, social and construction impacts of the project; and developing detailed MOT plans to minimize impacts to local residences and businesses during project development (geotechnical and surveying) and, ultimately, construction activities.



## Mike Stoup, PE

I&C / SCADA

### QUALIFICATIONS

- ✓ Extensive knowledge of SCADA systems
- ✓ Experienced with the implementation of Cybersecurity Protection Systems and Protocols
- ✓ Automation & Controls
- ✓ Electrical Engineering
- ✓ Experience with testing and quality review of I&C implementations
- ✓ Extensive SCADA master planning and upgrades expertise with numerous platforms

### EDUCATION

B.S., Electrical Engineering, University of South Florida

### LICENSURE

Professional Engineer, FL #65702

Professional Engineer, NC, LA

### AFFILIATIONS

FS-AWWA Information Systems Division Chair

FS-AWWA Automation Committee Past Chair

ISA Tampa Chapter Vice President & Past Program Chair

### MILITARY SERVICE

US Army Air Defense Crewman  
1985-1989

Mr. Stoup's career spans over 28 years of design, implementation and management of SCADA system and process instrumentation and controls projects in the industrial and municipal marketplace. He offers extensive experience in the areas of project management, QA/QC, control system planning and design, PLC and HMI software implementation, communications and network planning and control systems implementation. His system hardware and software knowledge extends to platforms provided by Allen Bradley/Rockwell, Schneider Electric, Trihedral, Inductive Automation and Wonderware software.

### ► Project Experience

**Renewal & Replacement of System Monitoring and Telemetry Equipment Hillsborough County, FL:** McKim & Creed provided design services up through preliminary design for the renewal and/or replacement of system monitoring and telemetry equipment due to aging infrastructure or facility demolition. The preliminary design included 30% level plans, specifications and opinion of probable construction cost with SCADA integration and final engineering design fee.

**SCADA Master Plan, Pinellas County, FL:** The County selected McKim & Creed to provide an updated SCADA Master Plan to Pinellas County. Field research was performed to survey the existing SCADA system as well as security, networking, standardization and installation practices. A final report was developed summarizing the project execution, itemizing the research findings and workshop results, detailing the recommendations, and listing the justifications.

A series of projects was developed to be used as a roadmap for Pinellas County over the next ten years to achieve their goals as defined in the study. The project write-ups included a summary of the work, budget, and estimated schedule for implementation. We prepared a plan that gave the County a clear roadmap for the SCADA system improvements. The project execution included 4 workshops with the client to understand their goals and assist them in working through options to improve their SCADA system.

**Lift Station SCADA System Upgrades - Phase 1, Largo, FL:** The Pinellas County Lift Station SCADA system was utilizing a microwave-based analog radio trunking system (Motorola) to communicate with their 351 remote lift stations, and needed to transition to a better network. McKim & Creed worked with the County to establish the design specifications and documents to replace the existing Motorola radio network with a cellular based network while keeping the ACE3600 RTU.

The project was implemented over a year and McKim & Creed acted as the County's representative and engineer to ensure all upgrades were performed with proper notification and with minimal downtime. McKim & Creed also worked with the integration firm to minimize the number of different RTU programs, thus reducing the version tracking and record keeping for the County's maintenance staff.

**Van Dyke Effluent Pump PLC Addition, Tampa, FL:** McKim & Creed was responsible for engineering the electrical, controls and programming changes needed to upgrade the controls of the three effluent pumps and connect them to SCADA at the County's Van Dyke Effluent Pump Station. In addition, the County added a continuous level transmitter to the clearwell to drive the effluent pump motors with VFDs to minimize starts and stops and reduce power consumption. McKim & Creed added an automatic, hard-wired fail-over system should the PLC or the level transmitter fail to ensure operational reliability. McKim & Creed also updated the plant P&IDs for this addition, provided the design of the control panel, procured, fabricated and installed the panel and instruments, programmed the PLCs and Citect, and performed check-out, startup and commissioning services. This upgrade was accomplished without a shutdown of the facility.



## Diane Achinelli

### CONSTRUCTION ADMINISTRATION

#### QUALIFICATIONS

- ✓ Construction Management
- ✓ Cost Accounting
- ✓ Administration
- ✓ Construction Administration
- ✓ LEED Building Principles Certificate
- ✓ Regulatory Permitting
- ✓ Onsite Inspection
- ✓ Understands ERP, FDEP, SWFWMD and utility permitting requirements and certifications
- ✓ Has opened and closed over 30 regulatory permits in the past five years
- ✓ Strong knowledge of the permitting process

#### EDUCATION

A.S., Architectural Design & Construction Technology, St. Petersburg College

#### CERTIFICATIONS

FDOT Specification Package Preparation Training

Ms. Achinelli's experience in the areas of construction administration, project accounting and onsite project administration and inspection adds depth to our team. Her current responsibilities include all aspects of project administration (project coordination, conflict resolution, submittal reviews, processing requests for information, writing and reviewing daily field reports, reviewing and processing contractor's pay estimates, attending meetings and producing the minutes, maintaining construction logs and permit closeout). She also assists during design compiling specifications, utility locate letters, assembles final bid documents, assists in issuance of addenda and performs reference checks on project bidders. Ms. Achinelli performs site construction observation working closely with the owners, contractors and subcontractors. Previously, she was an engineering technician for Pinellas County for which she supervised administrative staff and worked closely with the finance and contracts departments on bid documents for various utility projects. Prior to her working for the County, Ms. Achinelli performed inspection/construction management duties for a private engineering consultant on various water, wastewater, stormwater and environmental engineering projects.

#### ►Project Experience

##### Lake Maria Sanchez Flood Mitigation and Drainage Report

**WWRF Operations Biosolids Building, City of Largo, FL:** After completing a Preliminary Engineering Report for this work, McKim & Creed was selected by the City of Largo to design and construct a new Operations Center at the City's 18 mgd Wastewater Reclamation Facility (WWRF). The scope of work includes preliminary and final design, SUE and survey, geotechnical, permitting and construction phase services for the Operations Building, which is designed with an elevation to allow it to remain operational during a Category 4 hurricane and associated storm surge. Our team is also providing preliminary engineering services for strengthening an existing Biosolids Building to meet a minimum of Category 3 wind loads. The plant will remain fully operational throughout the construction of the Operations Center and the hardening work at the Biosolids Building.

**Water Treatment Plant Biological Treatment Unit, Manatee County, Bradenton, FL:** Ms. Achinelli served as the project administrator, providing construction phase services needed for the WTP Biological Treatment Unit (BTU). Specific components of the project included the electrical distribution and control system for six new BTUs, filter backwash pumping system, filter backwash air scour system, filter building for housing the treatment units. Electrical design called for upgrades and addition to existing medium voltage (MV) plant distribution system with the addition of MV breakers and 2000kVA transformers, new MV feeders to raw water pumping stations, and 1500kVa plant process transformers, motor control centers and switchgear. Arcfl ash and coordination studies were also performed for this project.

**Bent Tree Master Lift Station Rehabilitation, Sarasota County, FL:** Ms. Achinelli served as the project administrator for this project to rehabilitate Sarasota County's Bent Tree Master Lift Station. Project improvements included repairs and replacement of pumps, wet well lining, interior and exterior piping, odor control, generator, and upgrade of the PLC platform for monitoring and control that required implementation of current technology and equipment. Our team also provided detailed maintenance of flow and bypass plans to support the extensive down time during construction.

**South Central Hillsborough Wellfield Generator and Motor Replacement, Tampa Bay Water, Tampa, FL:** Ms. Achinelli served as project administrator for this wellfield generator and motor replacement project.





## Colin Miller, PE, PMP

### DRAINAGE / STORMWATER

#### QUALIFICATIONS

- ✓ 20+ years of drainage improvement projects
- ✓ Extensive experience in civil and stormwater engineering design
- ✓ Localized and regional flooding solutions
- ✓ Specialized groundwater and surface water modeling expertise
- ✓ Practical coastal solutions, including tide gates on outfalls

#### EDUCATION

Master of Civil Engineering (Water Resources), University of South Florida, Tampa, FL

Bachelor of Science in Civil Engineering, University of Missouri at Rolla, MO (now known as Missouri University of Science and Technology)

#### LICENSURE

Professional Engineer, FL #61775

#### AFFILIATIONS

Member, American Society of Civil Engineers (ASCE)

ASCE West Coast Branch President (2018-2019); Vice President (2017-2018); Treasurer (2016-2017); Secretary (2015-2016)

"2006 New Faces of Civil Engineering," American Society of Civil Engineers (one of five selected nationally by ASCE)

Colin Miller is a Florida Registered Professional Engineer with more than 20 years of progressive experience in Civil Engineering focused on Water Resources Engineering (Drainage). Mr. Miller is a skilled programmer who has used Visual Basic, Python, and C++ to solve complex engineering problems with efficiency. He has personal experience with ICPR (2.2, 3.0, and 4.0), SWMM (EPA, HC, and XP), HEC-RAS (2.2 to 5.0), HEC-HMS (2.1 to 4.3). He also has experience with GIS data processing and map production. He has experience with ESRI ArcGIS Desktop (8 to 10.8.1, Pro). In addition to programming, he has used ESRI ModelBuilder to automate GIS processing tasks. He has extensive knowledge of permitting regulations and procedures in Florida with special focus on West-Central Florida. He has prepared Environmental Resource Permits (ERP), Site Plan Permits, Construction Permits, No-Rise Certifications, and Letters of Map Revision (LOMR).

#### ► Project Experience

**Zephyr Creek Drainage Improvement Units 1 & 2, Pasco County, FL:** Zephyr Creek Drainage Improvement Units 1 and 2 are the lower (downstream) improvements to conveyance along Zephyr Creek south of Lake Zephyr Park in/near Zephyrhills, FL. These improvements will replace several aging culverts and open previously constricted culverts under US 301. Mr. Miller acted as project manager and Engineer-of-Record for the plans preparation and permitting associated with these improvements.

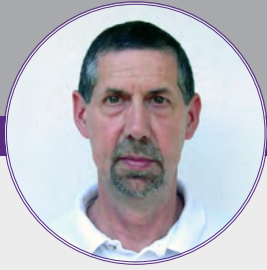
**Southeast Seminole Heights Flooding Relief Feasibility Study, Tampa, FL:** The Southeast Seminole Heights is an older neighborhood in the City of Tampa. This study area was approximately five (5) miles of urban roads with aging and undersized drainage systems. Mr. Miller managed the project and prepared conceptual plans for proposed drainage improvements. He also prepared Benefit/Cost Analysis and XP-SWMM hydrologic/hydraulic models of the existing and proposed conditions.

**Fox Ridge Conceptual Flood Abatement Plan, Pasco County, FL:** The Fox Ridge Flood Conceptual Flood Abatement Plan was for the approximately 760 acre Fox Ridge Subdivision in Pasco County. Mr. Miller prepared watershed model using ICPRv4, updated for existing conditions. He analyzed several configurations to determine Benefit-Cost Ratios and prepared reports and exhibits details the results. Mr. Miller was the Project Manager and Engineer-of-Record for this project.

**Mango Street Outfall, Clearwater, FL:** The Mango Street Outfall Area is roughly 2.3 acres (right-of-way) for 0.3 miles of local roads. The proposed storm sewer improvements total to approximately 2,100 linear feet of pipe with 19 inlets, 10 junctions, and 18 Grate Inlet Skimmer Boxes. Mr. Miller, as Engineer-of-Record, prepared permits, drainage calculations (ICPR model), and water quality improvement (resource benefit) calculations using SWFWMD approved methodology.

**Feasibility Study for Dale Mabry Trunkline, Tampa, FL:** The City of Tampa Transportation and Stormwater Services Department contracted with Interflow to conduct a feasibility study and provide conceptual plans for the construction of approximately 8,000 linear feet of box culvert in the Upper Peninsula region of south Tampa. The purpose of the box culvert is to relieve chronic and severe flooding on Dale Mabry Highway in the vicinity of Henderson Boulevard, Watrous Avenue, and Neptune Street. Mr. Miller, as the Engineer-of-Record, prepared Feasibility Report, 3-D renderings, and conceptual plans for major flood drainage improvement project.

**Infinite Drive (fka South Loop Drive), Pasco County, FL:** Infinite Drive is a transportation project to construct approximately 1,300 linear feet of two lane roadway to access three parcels in a commercial development. Mr. Miller prepared calculations for modifications to an existing permitted stormwater management system, storm sewers, roadway drainage, pavement design, and watershed modeling. He also prepared permitting packages for both Pasco County and the Southwest Florida Water Management District (SWFWMD).



Jack Christie, ALA  
Architect

## KEY QUALIFICATIONS

- ✓ Architecture
- ✓ Landscape Architecture

## EDUCATION

B.Arch and B.F.A., Architecture  
Rhode Island School of Design

B.L.A., Landscape Architecture  
University Georgia

## LICENSURE

Registered Architect, FL  
#AR0016722

Registered Architect, NC #6147

Registered Architect, VA #0401-  
010838

## AFFILIATIONS

American Institute of Architects

National Council of Architectural

Registration Boards

Southern Building Code  
Congress International

Mr. Christie's experience encompasses a comprehensive range of governmental, industrial and commercial work; and focuses on control, administration and support facilities for water and wastewater treatment plants. His experience includes building/facility programming, code studies, design of egress systems system analysis, arrangement and detailing for exterior envelopes, general arrangements and layout plans, detailing for interior finishes, and master planning. With experience as both an architect and a landscape architect, Mr. Christie brings a unique perspective to his customers. He understands projects from both the building and site development viewpoints, and consistently develops creative yet functional solutions. He has designed more than ten operations buildings for wastewater reclamation facilities.



# William Mohler, CA, CLI, PWS, TRAQ

Certified Arborist

**Years of Experience:** 12

## Registrations & Certifications:

*Certified Arborist, 2014*

*Certified Landscape Inspector, FL, 2014*

*Tree Risk Assessment Qualification, 2021*

*FDEP Qualified Stormwater Management Inspector, FL, 2011*

*FDOT Intermediate Maintenance of Traffic, FL, 2016*

*Advanced Airport Wildlife Hazard Management, 2014*

*Broward County Basic Tree Pruning, FL, 2012*

*SFWMD Certified Airboat Pilot*

## Education:

*Bachelor of Science, Ecology & Biology, Minor in Geography*

*Florida Atlantic University, 2008*

*Certificate, Environmental Studies*

*Florida Atlantic University, 2005*

## Continuing Education:

*FDOT LAP Certification Webinar, 2015*

*NRA First Steps Shotgun Orientation*

## Publications & Presentations:

*FAU, Carnivorous Plants, 2010, Co-Presenter*

*FAU, Suwannee River Basin, 2007*

*SFWMD, Everglades Tree Island Health, 2011, Co-Presenter*

## Professional & Civic Activities:

*Member, City of Plantation Landscape Planning & Review Board*

*Member, Florida Association of Environmental Professionals (FAEP)*

*Member, Native Plant Society, Broward County Chapter*

## Professional Experience:

Mr. Mohler is a Certified Arborist and Certified Landscape Inspector providing a variety of services to both public and private sector clients, including: tree species identification and inventories, tree surveys and canopy mapping, destroyed/damaged tree assessments, tree value estimates, tree grading, tree species selection for planting, mangrove trimming oversight and tree permitting.

Mr. Mohler is experienced in Geographic Information Systems (GIS) concepts, principles and practices, regularly analyzes GIS data. His GIS experience includes: digital map creation, geodatabase creation and utilization, geoprocessing, georeferencing and editing, digitizing, remote sensing, photo interpretation ground truthing and utilizing Arc Toolbox functions. He has experience with geographic/cartographic sciences, and has significant knowledge of coordinate system, projections and geo-referencing techniques.

In addition to GIS knowledge and experience, William has a comprehensive knowledge of Florida floral and faunal communities and their interactions. In addition, his training and practical experience includes lab and field experimentation, biological, water and soil sample collection and monitoring, taxonomy, plant physiology, wildlife catch and release, avifaunal surveys, experimental design and implementation, data management, and statistical and numerical analysis.

## Relevant Project Experience:

### City of Plantation Plantation Preserve Vegetation and Tree Assessment

- The City of Plantation retained Miller Legg to provide a maintenance assessment of the Plantation Preserve mitigation area and linear trail. The assignment included a tree and vegetation assessment of existing conditions on the trail and preserve, maintenance program recommendations, quantification of dead or dying plant material and recommendations for preventing future survivorship issues; all of which were presented in a report to the City. Miller Legg played a significant role in the project management and design of the Plantation Preserve and Golf Club development, beginning in 2003, and continues to conduct ongoing environmental monitoring.

### City of Miami NE 10<sup>th</sup> Avenue Tree Permitting

- For this roadway improvement project along NE 10<sup>th</sup> Avenue in the City of Miami, Miller Legg's Certified Arborist performed tree inventories, and prepared and submitted a Tree Assessment Report per the City of Miami's tree permitting requirements. Miller Legg was a subconsultant to ASA Consultants.

**City of Miami Beach Pocket Park Arborist Services** - Under our Continuing Services Contract with the City of Miami Beach, Miller Legg was awarded an assignment to provide survey, civil and geotechnical engineering, and Certified Arborist, landscape architecture and irrigation services for the design, permitting and construction of a new pocket



park at 20th Street and Sunset Drive. The firm is assisting with the planning of key program elements and will move to perform schematic design, design development, construction document, bidding and construction tasks. The design will incorporate CPTED principles.

**Memorial Hospital Pembroke Parking Improvements/Tree Inventory** - Miller Legg provided engineering drainage studies and design services for the campus and the associated parking areas, as well as surveying, Subsurface Utility Engineering (SUE), maintenance of traffic for public and emergency vehicles, Certified Arborist tree inventory and permitting and construction observation. Regarding the tree inventory and permitting, our Certified Arborists conducted a comprehensive tree inventory of all trees located with the footprint of the proposed multi-story parking garage. Data on over 400 trees were collected and associated attributes were identified. This project was completed under our master engineer agreement with Memorial Healthcare System.

**City of Miami Beach South Beach Tree and Dune Inventory** - Miller Legg and its Certified Arborists conducted a comprehensive tree and dune vegetation inventory on a section of South Beach east of the pedestrian walk from 3rd to 5th Streets. All 300 tree species found within the area were inventoried as point locations with associated attributes and all dominant shrub and ground cover species were collected as polygon data with associated percent coverage and species data. The information was then displayed on a digital map and the data was provided to the client in .shp file format.

**Town of Davie Shenandoah HOA Tree Survey** - Miller Legg performed various tree and palm inventories (approximately 2,500 total) located throughout the Shenandoah neighborhood in the Town of Davie. For each of the 27 locations identified within the neighborhood, a tree inventory and evaluation was conducted to reflect data such as species, diameter at breast height, overall height, canopy spread and general health and condition as evaluated by the firm's Certified Arborists. In addition, each area was mapped utilizing aerial imagery.

**Florida Department of Transportation (FDOT) District 4 D/W Mobility Project 56th Avenue in Hollywood** - For a 3-mile segment along 56th Avenue in Hollywood from Pembroke Road to Stirling Road, Miller Legg was a subconsultant to Protean Design Group for this off-system project providing Certified Arborist review of an inventory of 400 trees including species, common name, diameter, breadth and height (DBH), canopy, spread and condition. Data tables and .kmz files will be provided. To minimize impacts to tree resources, we coordinated on the health and location of trees in proximity to the proposed sidewalk alignment to determine sidewalk placement.

**City of Port St. Lucie Landscape Architect-Arborist for GPS Landscaping & Signs Inventory** - Miller Legg is updating the City's Tree and Landscape Inventory using the City's on-line Tree inventory portal. The firm is responsible for inventorying new trees and landscape beds on City property to collect bed lines, genus/species, size, square footage, condition in the case of plants; genus/species, height, size,

DBH, measurement, condition, replacement value in the case of trees; and location in the case of signs. Miller Legg reports on each City Entry Sign site with current entry sign, plant and tree information updates to the existing GPS database. Designated locations include City Hall, road rights-of-way, cul-de-sacs, pond areas and entry signs.

**Lake County ISA Arborist Services** - Miller Legg is retained by Lake County as its International Arborist Association (ISA) Certified Arborist consultant to provide services including inspections of areas to identify potential hazards within the County's right-of-way, evaluation of condition of specific trees, training to Lake County staff on topics such as ISA pruning standards, diseased trees, industry standards updates, and expert testimony on behalf of the County during litigation or claims processes. Tree inventory includes DBH data collection, canopy spread and GPS location. The firm is required to be available for consultation 24/7 and may be required to perform relevant emergency arborist services.

**Deerfield Island Boardwalk Mangrove Assessment** - Broward County planned to replace the old boardwalk on Deerfield Island at the Intracoastal Waterway and the Hillsboro Canal in Deerfield Beach. Miller Legg provided an assessment of removal of mangrove trees and type of mangrove structure (branches, twigs, limbs, foliage, roots) removal required to provide clearance for work access to remove the old boardwalk and replace with the new structure, and to provide pedestrian access. Services provided included mangrove trimming recommendations, Certified Arborist review, and compliance with SFWMD permitting.



**Years of Experience:** 22

**Registrations & Certifications:**

*Registered Landscape Architect, FL, 2005*  
*FDOT Intermediate Maintenance of Traffic, FL, 2013*

**Education:**

*Bachelor of Science, Landscape Architecture*  
*North Carolina A&T State University, 2000*

**Continuing Education:**

*Eminent Domain for Landscape Architects, 2013*  
*FDOT Landscape Highway Seminar, 2005, 2006, 2008 and 2013*  
*FDOT Outdoor Advertising Workshop, November 2008 and February 2010*  
*FDOT Plan Reviewer's Workshop, November 2006 and November 2007*  
*FDOT Specifications Package Preparation Training Certificate, 2016*  
*Irrigation: The End to Water Waste in Landscapes 2013*  
*Landscape Palm Diseases, 2013*  
*LAP Project Inception to Notice to Proceed, October 2007*  
*LAP Training for Right-of-Way and Real Estate Acquisition, May 2008*  
*PSMJ Project Management Boot Camp, 2007*

**Professional & Civic Activities:**

*Member, American Society of Landscape Architects*

## Brian Shore, RLA

*Senior Landscape Architect*

**Professional Experience:**

As a Senior Landscape Architect, Mr. Shore has significant experience in landscape architectural design and landscape construction services for a variety of public and private projects. Specialties include landscape, hardscape, and irrigation design services for streetscape and roadway projects including the Florida Department of Transportation (FDOT), all aspects of active and passive park design, health-care campuses, and environmental wetland habitat creation. Other experience includes various residential and commercial projects.

**Relevant Project Experience:**

**Florida Department of Transportation (FDOT) District 4 D/W Mobility Project 56th Avenue in Hollywood** - For a 3-mile segment along 56th Avenue in Hollywood from Pembroke Road to Stirling Road, Miller Legg is a subconsultant to Protean Design Group for this off-system project providing certified arborist review of an inventory of approximately 400 trees including species, common name, diameter, breadth and height (DBH), canopy, spread and condition. Data tables and .kmz files will be provided. To minimize impacts to tree resources, we coordinated on the health and location of trees in proximity to the proposed sidewalk alignment to determine sidewalk placement.

**Town of Davie Shenandoah HOA Tree Survey** - Miller Legg performed various tree and palm inventories (approximately 2,500

total) located throughout the Shenandoah neighborhood in the Town of Davie. For each of the 27 locations identified within the neighborhood, a tree inventory and evaluation was conducted to reflect data such as species, diameter at breast height, overall height, canopy spread and general health and condition as evaluated by the firm's Certified Arborists. In addition, each area was mapped utilizing aerial imagery.

**City of Tamarac Commercial Blvd Landscaping Improvements**

- Miller Legg provided Certified Arborist, landscape architectural and survey services for the existing medians along 1.70 miles of West Commercial Blvd between N. Pine Island Road and the Sawgrass Expressway. In addition to landscape architecture, a Certified Arborist report and survey (including vacuum excavations) services, the Miller Legg team provided lighting and electrical services, irrigation design, permitting, and construction administrative services. Coordination efforts with multiple agencies was included in the scope. Specific services for these roadway improvements entailed providing a specific purpose survey showing only above-ground improvements, compiling a 30% conceptual landscape and lighting plan, and providing 100% construction documents for irrigation, landscape, hardscape, lighting and electrical, and a Certified Arborist tree assessment.

**City of Tamarac University Drive Landscaping**

**Improvements** - Miller Legg is currently providing landscape architecture, hardscape, and

irrigation design, permitting, specific purpose survey of the existing medians, utility coordination, utility designation, and construction administrative for improvements to the existing system of medians on University Drive between NW 78th Street and Southgate Blvd. Certified Arborist services will also be included for tree analysis, removal and relocation needs. Coordination with numerous agencies will also be performed. The project has received funding from an FDOT Grant and included creation of MMOA (Maintenance agreements) between the City and FDOT. Miller Legg worked consistently with both the City of Tamarac and FDOT to meet the strict deadlines to receive this additional funding.

**Broward County Aviation Department (BCAD) Fort Lauderdale-Hollywood International Airport South Runway Hilton Hotel Demolition Tree Survey & Relocation Hilton Demolition -** Miller Legg and its Certified Arborists conducted a comprehensive tree survey/inventory on all 700 trees located at the prior Hilton hotel property in Dania Beach. Using this data Miller Legg acquired the necessary City and County permits to remove trees that were within a 30-foot buffer of the Hilton Hotel, which was scheduled for demolition as it was a man-made obstruction based on FAA guidelines and the opening of the new Fort Lauderdale-Hollywood Airport runway 10L. The firm coordinated with the client, demolition experts and contractor on construction methodologies for tree preservation, protection and adherence to permit conditions and county and local tree preservation codes. Miller Legg also conducted a multi-week observation of the Hilton Hotel demolition in order to ensure the trees permitted

to remain on site were constantly protected from large scale demolition equipment. In addition, Miller Legg provided observation during construction for permit compliance in addition to the tree relocation process on site with accompanying field reports of activity. Prepared demolition specs and anticipated permitting time frames for contractor and coordinated removal of equipment for all cellular providers occupying the cellular towers.

**Florida Department of Transportation (FDOT) District 4 D/W Mobility Projects in Hollywood/ Hallandale - 14th Avenue from Atlantic Shores Boulevard to Sheridan Street -** For this 3-mile segment along 14th Avenue in the Cities of Hallandale Beach and Hollywood, we provided miscellaneous landscape architecture services including Certified Arborist tree inventories for improvements along this off-system federally-funded roadway including bicycle lanes and sharrows. Miller Legg was a subconsultant to Propel Engineering.

**City of Miramar - Miramar Parkway LAP Streetscape Improvements from 62nd to 64th Avenue -** Miramar Parkway Streetscape Improvement project was a Local Agency Program (LAP)-funded revitalization project in the City of Miramar. The project entailed Miramar Parkway's eastern gateway segment from 62nd to 64th Avenue, approximately 1/2 mile in length. The project included intersection improvements, traffic signal modifications/upgrades and sidewalk and Florida Friendly landscape beautification throughout the project limits. Services provided included: surveying including topographic surveying, maintenance of traffic, underground utility designation, landscape architecture,

hardscape design, drainage and stormwater permitting, design and management, lighting and electrical design, geotechnical design, traffic engineering, tree permitting and Certified Arborist services, as well as LAP coordination, permitting and submittal documentation. Miller Legg developed a master plan for this corridor, incorporating access management and shared commercial parking facilities to enhance the commercial viability of the corridor. Utilizing the master plan, extensive public outreach was conducted with the corridor stakeholder to establish consensus on the redevelopment and roadway plan.

**School Board of Broward County (SBBC) Attucks Middle School Innovation Zone Landscape Design -** This project required analysis, landscape and irrigation concept design, and construction documents to update the landscape and irrigation systems to accommodate new construction and update and rehabilitate the campus-wide landscapes for the existing School and each of its feeder schools. The firm identified opportunities and development plans for implementing sustainable landscapes as part of the School Board's Environmental Resource Management Plan. A key component of these updates is the use of native vegetation, efficient irrigation systems, and the restoration of natural habitats for use in the learning environments. Following LEED standards was a requirement of the School Board. Services being provided by Miller Legg include site analysis, Certified Arborist tree surveys, landscape and irrigation concept design, construction documents, and construction observation for development of landscape, hardscape and irrigation.





**Years of Experience**  
21

**Areas of Expertise**  
Transportation and Transit Planning, Traffic Simulation, Traffic Operation, Traffic Data Collection, Travel Demand Modeling, GIS Application, Urban Planning, Land Use Modeling, Computer Aided in Traffic Engineering

**Education**  
M. Sc. in Civil Engineering, Florida International University, Miami, FL, 2002

B. Sc. in Civil Engineering  
Southeast University, Nanjing, China, 2000

**Professional Registrations**  
Florida P.E. # 64802, 2006;  
P.T.O.E.

## Sheng Yang, P.E., PTOE

### Senior Engineer I

Mr. Yang 21 years of engineering experience with emphasis in traffic engineering, transportation planning, Geographic Information System (GIS) application, and data analysis. Prior to joining the industry, Mr. Yang was a Research Assistant in the Lehman Center of Transportation Research (LCTR) at Florida International University (FIU). He has been involved in several research projects for Florida Department of Transportation (FDOT), which focus on travel demand model improvements and GIS application in transportation planning. After he started his professional career, Mr. Yang has served FDOT and many other local governments, such as Miami-Dade County and TPO, Broward County and MPO, City of Fort Lauderdale, City of Boca Raton, and Palm Beach TPA. He has provided professional services in multimodal planning and engineering, traffic analyses, managed lane feasibility studies, transit corridor studies, traffic simulation, travel demand modeling, transit and multimodal minor design, PD&E studies, park & ride, corridor action plan/master plan development, ITS planning and technology implementation, traffic impact study and reviews, traffic data collection, long range travel demand forecasts, school zone studies, and local government transportation system master plan development. He is familiar with various simulation platforms, programming languages, and demand modeling programs.

### Project Experience

Transit and Multimodal Development Continuing Services; FDOT District 4. Project Manager. Performed transit, rail, freight, and multimodal system program administration and engineering support. Perform Districtwide grants (FTA, FRA, FHWA, and state) administration and application process for multimodal system. Performed safety and security review and vehicle inventory review for transit and rail system. Led the planning and engineering support for FEC/CSX Rail Crossing Delay Study, Hialeah Rail Yard Master Plan Scoping, Park & Ride Facility Planning, Engineering, and Design, High Crash Rail Crossing Safety Study and Design, Crossing Trespassing Design, Conceptual Design for Multimodal Development, Sample Road Multimodal Improvement Study, University Drive Alternative Analysis, and SR-7 South Transit Improvement Study. (Client: FDOT District 4; Location: Broward County, Florida; Contact: Gregor Senger; Telephone: 954-677-4141; Start/End Date: 09/2016-Present).

Districtwide Transit Program Support, FDOT District 4. Project Manager. Performed transit program administration and planning support. Managed Districtwide Transit Grants and application process. Performed safety and security review and vehicle inventory review for local transit agencies. Led the corridor planning support for Broward Boulevard Alternative Analysis, and Hollywood/Pines Boulevard Corridor Transportation Improvement Study. Support the Department in corridor study NEPA process. (Client: FDOT District 4; Location: Broward County, Florida; Contact: Jayne Pietrowski; Telephone: 954-677-7898; Start/End Date: 09/2014-Present).

Districtwide Traffic Operation/Safety Studies, FDOT District 6. Project Manager. Perform traffic engineering operational and safety studies and reviews for Traffic Operations Office. Tasks include traffic simulation, intersection assessment, traffic data collection, signal warrant analysis, sight distance evaluation, LOS analysis, safety and crash analysis, signal timing optimization, and fatal crash reviews. Perform comprehensive reviews representing FDOT for Miami-Dade SMART Corridor. (Client: FDOT District 6; Location: Miami-Dade County, Florida; Contact: Ramon Sierra; Telephone: 305-470-5336; Start/End Date: 2013-Present).

PortMiami Tunnel Freight Mobility Evaluation Study, FDOT District 6. Principal in Charge. Oversee the tasks evaluating existing and future multimodal transportation system conditions with PortMiami Tunnel in operation. Tasks include future multimodal improvements identification; coordination with PortMiami, CSX, FEC, cruise companies, and other partners; demand model development; Port Evacuation VISSIM Model development and validation; project management and documentation. (Client: FDOT District 6; Location: Miami-Dade County, Florida; Contact: Carlos Castro; Telephone: 305-470-5238; Start/End Date: 2017-Present).

Districtwide SIS Program Support, FDOT District 4. Project Manager. Provided comprehensive planning and engineering services for FDOT District 4 Strategic Intermodal System (SIS). Lead the tasks of performing SIS facility LOS evaluation, developing SIS corridor action plan/master plan, Interchange access documents development and reviews (IJR/IMR/IOAR), SIS Cost Feasible Plan Development, LRTP development, DRI and Sub-DRI reviews, Comp Plan Review and growth management documentation reviews, ITS and other technology review for SIS operation improvements, SIS management database and program development, and concurrency and development plan reviews. Assist the Department in preparing and participating at public meetings, coordination with local governments. As part of the contract, Mr. Yang recently assisted the Department with Interchange Operations Analysis Reports (IOAR) for I-95 at Woolbright Road, I-95 at Gateway Blvd, I-95 at 6 Avenue S., I-95 at 10 Avenue N. and I-95 at Lantana Road. (Client: FDOT District 4; Location: Broward County, Florida; Contact: Tammy Campbell; Telephone: 954-777-4668; Start/End Date: 09/2010-Present).

Oakland Park Boulevard Alternative Analysis, FDOT District 4. Project Manager for traffic analysis. Provide planning and traffic analysis services for an Alternatives Analysis (AA) to investigate and evaluate premium transit improvements in the Oakland Park Boulevard corridor. Mr. Yang led the Team traffic data collection and analysis effort to identify a Locally Preferred Alternative (LPA) for the study corridor. He performed data collection for both traffic and transit along the corridor, studied traffic patterns and market using advanced Dynamic Traffic Assignment (DTA) tool, and conducted micro-simulation analysis for all 45 signalized intersections along the corridor using VISSIM tool. (Client: FDOT District 4; Location: Broward County, Florida; Contact: Khalilah Ffrench; Telephone: 954-677-7898; Start/End Date: 02/2012-Present).

Multi-Modal Modeling Support, FDOT District 4. Project Manager for Sub-Consultant. Provided full transit data collection (OD and BA surveys) support for BCT and Palm Tran using smart phones and tablet equipment. Lead the tasks in planning and analysis of the BCT and Palm Tran on-board surveys, developing the draft survey plan, which focused on minimizing sample and expansion bias. Performed QA/QC of the survey results and identified new technologies to improve data accuracy and save the data collection cost. (Client: FDOT District 4; Location: Broward County, Florida; Contact: Scott Seeburger; Telephone: 954-777-4632; Start/End Date: 09/2011-Present).

Districtwide General Planning Consultant, FDOT District 4. Project Manager. Provided planning and engineering services to supplement the Department's System Planning, Statistics and PD&E Staff. Assisted the Department in producing Design Traffic Report for PD&E studies, 18-Kip Reports, comprehensive GIS support, FSUTMS Model (SERPM and GTCRPM) Development and Application Support, Interchange access proposals and reviews (IJR/IMR/IOAR), Q/LOS Support, Traffic Analyses Review, Socioeconomic Data Development, Interchange Operation/Modification/Justification study and reviews, LRTP development, DRI and Sub-DRI reviews, growth management documentation reviews, and on-site Support. (Client: FDOT District 4; Location: Broward County, Florida; Contact: Chon Wong; Telephone: 954-777-4659; Start/End Date: 09/2010-Present).



# Nicholas Gadbois

## Senior Environmental Scientist

### EDUCATION

M.S., Marine Biology  
Nova Southeastern  
University

M.S., Marine Science  
Coastal Carolina  
University

B.S., Business  
Administration Illinois  
State University

### 15 YEARS EXPERIENCE

### CERTIFICATIONS/ REGISTRATION

PADI Open Water diving

Florida Stormwater,  
Erosion & Sediment  
Control Inspector

Florida Fish and Wildlife  
Conservation  
Commission Python  
Action Team Removing  
Invasive Constrictors

### Areas of Specialization

Endangered/Threatened  
Species Survey

Environmental  
Permitting

Wetland Assessment &  
Delineation

Seagrass Mapping

Coral Relocation

Construction  
Compliance

Biological Sampling &  
Analysis

NEPA Documentation

Water & Soil Quality  
Assessments

Mr. Gadbois has fifteen years of professional experience in the environmental field. He has served as Environmental Scientist on various environmental projects for the FDOT, FDEP, and USACE. Mr. Gadbois has assisted with wildlife surveys for City, County, FDOT and USACE projects and has obtained several environmental permits from regulatory agencies. He has also conducted permit compliance inspections for the FDOT and managed contamination studies. He has reviewed project plans to identify potential impacts to wetland and wildlife species and provided comments to designers. His experience includes environmental monitoring, wetland delineations, wildlife surveys, biological evaluations, wetland plant species identification, permit compliance including NPDES, and providing advice, guidance, and information as a member of interdisciplinary teams.

### Relevant Experience

**Broward Blvd from University Drive to East of 54th Avenue Broward County, FL. (FDOT, 2021).** This roadway improvement project included widening the roadway, signage and lighting improvements, sidewalk and bike lane enhancements. Mr. Gadbois was responsible for conducting a Florida bonneted bat survey along the project corridor.

**Tire Kingdom, Tire Kingdom, Broward County, FL.** Tire Kingdom was constructing a new facility in Broward County, FL. Nicholas was responsible for conducting a burrowing owls survey of the project area. He also obtained permits to relocate the owls and led the relocation work.

**Martin County, Martin County Fire Station 36 Cell Tower, Martin County, FL.** The project entailed constructing a cell tower on a vacant parcel. Nicholas was responsible for conducting a gopher tortoise survey and a tree survey on the project area. He also led mechanical excavation efforts to relocate the tortoises.

**Eden Ridge Gopher Tortoise Services, Palm Beach County, FL.** The project entailed the construction of several residential homes adjacent to a public park. Nicholas was responsible for the conducting a gopher tortoise survey. He also permitted the project for excavation and relocation. Nicholas also led the excavation and bucket trapping efforts.

**Finn Hill Drive Gopher Tortoise Services, Palm Beach County, FL.** A homeowner was undertaking construction at their new home. Several gopher tortoise burrows were located within the construction footprint. Nicholas was responsible for conducting a gopher tortoise survey of the area. He was also responsible for permitting the excavation and relocation of the tortoises. Nicholas conducted the excavation, bucket trapping, and relocation effort.





## Education

MS, Geotechnical Engineering, Missouri University of Science and Technology

BS, Civil Engineering, Florida International University

## Years of Experience

19

## License

- Professional Engineer - FL #72242

## Affiliations

- American Society of Civil Engineers

## Contact Information

Phone: 305-.249.8434

Email: rvilla@teamues.com

## Reinaldo Villa, MS, PE

South Florida Division Branch Manager/Senior Geotechnical Engineer

Reinaldo (Rey) Villa has 19 years of project management, engineering analysis/design, and field experience in the geotechnical industry. He is responsible for client development, project proposals, and geotechnical engineering activities. Rey currently manages UES' Miami branch, overseeing all aspects of geotechnical, environmental, and materials engineering. He has extensive experience in transportation-related projects, specifically design-build contracts with government agencies. He has designed shallow and deep foundations for bridges, retaining walls, buildings, noise walls, signs, and lighting poles. Rey's further experience includes inspecting and overseeing foundation system installations consisting of spread footings, driven piles, drilled shafts, auger-cast piles, steel piles, and other structural components. Additionally, he has expertise in providing practical, cost-effective solutions to address problematic soils encountered during roadway construction.

## PROJECT EXPERIENCE

### Military Trail Office Building

Boca Raton, FL

Rey served as Branch/Department Manager during UES' efforts for this project. As consultant to Butters Acquisitions, LLC UES performed ageotechnical evaluation. The three-story space encompasses 30,000 SF and includes both covered and surface parking spaces.

### Building Addition - Jewish Assoc. for Residential Care (JARC)

Coconut Creek, FL

Rey served as Branch/Department Manager during UES' efforts for this project. As consultant to the Jewish Association for Residential Care (JARC), UES performed a geotechnical evaluation to support a building addition for an existing facility in Coconut Creek. JARC is a nonprofit organization which operates numerous group home facilities to assist developmentally disabled or mentally ill adults. JARC also offers adult day training, supported employment and supported living across its Florida facilities.

### Education Foundation of Palm Beach

Boynton Beach, FL

Rey served as Branch/Department Manager during UES' efforts for this project. UES was contracted by the Education Foundation of Palm Beach County to perform a geotechnical evaluation to support construction of a new warehouse and office space.

### Miami Beach Convention Center Renovations

Miami Beach, FL

Rey served as the Geotechnical Engineer. Renovation and expansion of the existing Miami Beach Convention Center with the addition of a two-story ballroom and meeting space with parking located on the roof of the north and west addition. Additionally, the project includes the construction of a park pavilion just west of Convention Center Drive. The pavilion consists of a concrete structure that incorporates an "umbrella" that makes up the roof and exterior shading spaces. Professional Fees: \$500,000.

## **Sanibel Causeway Emergency Repairs Progressive Design-Build Project**

Fort Myers, FL

Geotechnical design, testing and inspections. The project includes providing permanent repairs due to the embankment washouts of the Sanibel Causeway due to Hurricane Ian. The project includes the design and installation of permanent steel sheet pile walls and king pile wall systems to replace the temporary repairs performed in 2022. Also, the project includes improvements to the roadway between bridges and permanent sheet pile walls. Mr. Villa served as Senior Geotechnical Engineer overseeing all aspects of the field exploration program, laboratory testing program, and engineering deliverables. This project is ongoing.

## **MDX Central Boulevard Design-Build Project**

Miami, FL

This project (performed from 2010-2012) consists of reconstruction, realignment and service loop improvements to the main highway entering and exiting Miami International Airport. Mr. Villa planned and supervised field exploration and laboratory testing programs for the analysis and design of shallow and deep foundation systems as well as for roadway expansion. The project required developing innovative solutions for foundation and pavement systems to accommodate existing facilities, structures, vehicular and air traffic, and pedestrians. His duties included proposal preparation, attending weekly meetings, planning and supervising all geotechnical field and laboratory related activities, foundation analysis and design, site preparation for roadways, geotechnical report preparation, oversee foundation installation, review foundation testing data and provide foundation certifications for all foundation systems. Mr. Villa also assisted with CSL testing for drilled shafts supporting miscellaneous structures.

## **NW 25th St. Viaduct – West Section**

Miami-Dade County, FL

The project was completed in 2012. It required extending the existing viaduct over SR 826 (Palmetto Expressway) to west of west of NW 82nd Avenue in Miami, Florida. The geotechnical services consisted of changing drilled shaft foundations to a driven pile system to expedite construction and reduce costs for the contractor. Mr. Villa's role included reviewing existing geotechnical test data and performing value engineering for design of the driven pile systems. He also supervised all aspects of pile driving inspections, reviewed Pile Driving Analyzer (PDA) data, prepared production pile length letters and driving criteria,

reviewed all pile driving records and prepared foundation certification packages per FDOT standards.

## **Replacement of 54-Inch Diameter Sanitary Sewer Force Main Tunnel from Virginia Key to Fisher Island (2014-2016)**

Virginia Key to Fisher Island, Miami, FL

Mr. Villa served as Lead Instrumentation Engineer and Project Manager for the tunnel construction. His responsibilities included planning, coordinating, and supervising instrumentation installation for the tunnel project, which include installing and monitoring of vibrating wire strain gauges, thermistors, inclinometers, extensometers, surface monitoring points, utility monitoring points, vibration monitoring, and tilt sensors.

## **Palm and Hibiscus Neighborhood Improvements**

Miami Beach, FL

Improvements include pipe installation, drainage, curbs, pump stations, and roadway reconstruction. Mr. Villa is serving as the materials testing engineer for construction of this project and overseeing all aspects of the materials testing program for the City of Miami Beach Capital Improvements department.

## **Neighborhood No. 8 Central Bayshore South**

Miami Beach, FL

Improvements include pipe installation, drainage, curbs, pump stations, and roadway reconstruction. Mr. Villa is serving as the materials testing engineer for construction of this project and overseeing all aspects of the materials testing program for the City of Miami Beach Capital Improvements department.

## **Muss Park Pavilion and Park Improvements**

Miami Beach, FL

Improvements include the construction of a new pavilion, park, and seawall restoration. Mr. Villa served as the materials testing engineer for construction of this project and oversaw all aspects of the materials testing program for the City of Miami Beach Capital Improvements department.

### **Property Management Facility**

Miami Beach, FL

The project consisted of constructing a three-story building to serve as a property management facility for the City of Miami Beach. Mr. Villa served as the materials testing engineer for construction of this project and oversaw all aspects of the materials testing program for the City of Miami Beach Capital Improvements department. Mr. Villa was also responsible for overseeing the pile load testing program, including providing recommendations for production pile lengths.

### **Sunset Harbour Improvements**

Miami Beach, FL

Improvements include pipe installation, drainage, curbs, pump stations, and roadway reconstruction. Mr. Villa is serving as the Geotechnical Engineer of Record.





All major engineering disciplines anticipated under this contract will be provided in-house. The ability of Chase to control resources will protect project schedules and budgets, while enhancing the quality of the deliverables.

In addition to typical engineering services, our firm also provides the following unique operational support and field investigation services in-house that will bring even further value to the City:

### **Instrumentation and Controls (SCADA)**

McKim & Creed's team includes experienced programmers/engineers for SCADA, PLC, and telemetry systems; as well as system troubleshooting specialists to enhance system communications and optimize network operations. A snapshot of our services includes:

- ▶ Master Planning
- ▶ Testing/Startup/Training
- ▶ Disaster Recovery
- ▶ Standards Development
- ▶ Troubleshooting
- ▶ PLC/SCADA Programming

### **Water Loss Management**

McKim & Creed can provide real-time monitoring to detect and analyze water distribution systems to reduce nonrevenue water and improve operational performance. Our in-house field crews evaluate the integrity of water distribution systems by locating and pinpointing leaks. We also use predictive analysis tools to predict future leaks, which can serve as the basis of a condition assessment and asset management program for city-wide water main replacement programs.

### **Renewal and Replacement**

Our renewal and replacement (R&R) specialists can assess your wastewater collection system's aging assets and develop a program to methodically prioritize system improvements. Typical in-house services include:

- ▶ Inflow/Infiltration (I&I) Analysis
- ▶ CCTV Pipeline Inspections
- ▶ Flow Monitoring
- ▶ Smoke & Dye Testing
- ▶ Repair & Rehabilitation Design
- ▶ Sewer System Evaluation Surveys

### **Trenchless Technologies**

Our firm is a leader in using horizontal directional drilling (HDD) and other trenchless technologies to install pipes under surface water bodies and environmentally sensitive features. Shallow HDD is also being used on city-wide water main replacement projects to reduce project costs and minimize community impacts during construction.

We look forward to partnering with the City on this contract and serving as financial and environmental stewards for your customers. By signing below, we acknowledge that we both have signatory authority to bind McKim & Creed on this contract.

Sincerely,

McKim & Creed, Inc.



**Robert Garland, PE, DBIA, ENV SP**

Vice President

5701 Division Drive, Suite A

Fort Myers, FL 33905

RGarland@mckimcreed.com

239.220.2606

**Chase Dickinson, PE**

Project Manager

6501 Congress Avenue, #160

Boca Raton, FL 33487

CDickinson@mckimcreed.com

561.910.8630

## 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: McKim & Creed, Inc.

Address: 6501 Congress Avenue, #160, Boca Raton, FL 33487

Name of Signer Robert Garland, P.E., DBIA, ENV SP  
(please print)

Signature:  Date: April 12, 2023

Telephone: 561.910.8630 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.



**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 12 day of April, 2023

McKim & Creed, Inc.  
Printed Name of Corporation

North Carolina  
Printed State of Incorporation

(CORPORATE SEAL)

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

ATTEST:

Robert Garland, Vice President  
Printed Name of President or other authorized officer

By \_\_\_\_\_  
Secretary

6501 Congress Avenue, #160  
Address of Corporation

Boca Raton, FL 33487  
City/State/Zip

561.910.8630  
Business Phone Number

State of Florida

County of Lee

The foregoing instrument was acknowledged before me by means of X physical presence or \_\_\_\_\_ online notarization this day 12<sup>th</sup> of APRIL, 2023, by (Name), Robert Garland (Title) McKim & Creed (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

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



**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: McKim & Creed, Inc.  
NAME: Robert Garland, Vice President  
ADDRESS: 5701 Division Drive, Suite A  
PRINCIPAL OFFICE: Fort Myers, FL 33905

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: McKim & Creed, Inc.  
The address of the principal place of business is: 1730 Varsity Drive, Venture IV Building, Suite 500, Raleigh, NC 27606-2689

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

- a. Date of Incorporation: January 2, 1981
- b. State of Incorporation: North Carolina
- c. President's name: Street Lee, P.E., ENV SP
- d. Vice President's name: Robert Garland
- e. Secretary's name: Edward Pollard
- f. Treasurer's name: Chris Nelson
- g. Name and address of Resident Agent:  
Robert Garland, P.E., DBIA, ENV SP  
5701 Division Drive, Suite A  
Fort Myers, FL 33905

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

- a. Date of organization: N/A

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

N/A

c. State whether general or limited partnership:

N/A

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?

42 Years

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

McKim & Creed Engineers, P.A., McKim & Creed, PA

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.

We have provided all necessary licenses in section 7 of the RFQ.



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

No, we have never failed to complete work awarded to McKim & Creed, Inc.

THE OFFEROR ACKNOWLEDGES AND UNDERSTANDS THAT THE INFORMATION CONTAINED IN RESPONSE TO THIS QUALIFICATIONS STATEMENT SHALL BE RELIED UPON BY OWNER IN AWARING 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 Florida  
County of Lee

The foregoing instrument was acknowledged before me by means of X physical presence or \_\_\_\_\_ online notarization this 12<sup>th</sup> day of April, 2023, by Robert Garland, 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)



### 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: McKim & Creed, Inc

SIGNATURE: 

PRINTED NAME: Robert Garland, P.E., DBIA, ENV SP

TITLE: Vice President DATE: April 12, 2023

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

## 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: April 12, 2023



**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, McKim & Creed, 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

Robert Garland, P.E., DBIA, ENV SP - Vice President  
Name and Title of Contractor's Authorized Official

Date April 12, 2023

**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 April 12, 2023 McKim & Creed, Inc.  
Contractor

By   
(Signature)

By Robert H. Garland, Vice President

STATE OF Florida )  
 ) SS.  
COUNTY OF Lee )

The foregoing instrument was acknowledged before me by means of X physical presence or \_\_\_\_\_ online notarization this 12<sup>th</sup> day of April, 2023 by Robert Garland 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 12<sup>th</sup> day of April, 2023.

(NOTARY SEAL)  
  
(Signature of person taking acknowledgment)

Derek S Crowell  
(Print Name of Officer taking acknowledgment)

Notary  
(Title or rank)



My Commission expires: 03/02/2025  
(Serial number, if any)

**NON-COLLUSIVE AFFIDAVIT FORM**

State of Florida )

County of Lee )

Robert Garland, P.E., DBIA, ENV SP being first duly sworn, deposes and says that:

He/she is the Vice President, (Owner, Partner, Officer, Representative or Agent) of McKim & Creed, 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   
Robert Garland, P.E., DBIA, ENV SP  
Printed Name  
Vice President  
Title



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

State of Florida  
County of Lee

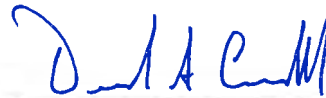
On this the 12 day of April, 2023, before me by means of X physical presence or    online notarization, the undersigned Notary Public of the State of Florida, personally appeared

Robert H. Garland, Vice President

(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, STATE OF FLORIDA

NOTARY PUBLIC  
SEAL OF OFFICE:



Derek S Crowell

(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

**CITY OF MARGATE  
E-VERIFY FORM**

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

- a) All persons employed by Vendor/Consultant/Contractor to perform employment duties within Florida during the term of the contract; and
- b) 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
- c) 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: McKim & Creed, Inc.
	Authorized Signature: 
	Print Name: Robert Garland, P.E., DBIA, ENV SP
	Title Vice President
	Date: April 12, 2023
	Phone: 239.220.2606
	Email: RGarland@mckimcreed.com
	Website: mckimcreed.com