

Request for Qualifications

City of Fort Lauderdale, FL

CEI Serv. - Rehab. of 48"/54" FM: Replacement on SE 9th and 10th Avenue to GTL

RFQ EVENT# 253

March 29, 2024



City of Fort Lauderdale, Procurement Services Division
Paulette Hemmings Turner, *Senior Procurement Specialist*
521 NE 4th Avenue, 6th Floor
Fort Lauderdale, FL 33301

Arcadis U.S., Inc.
150 S. Pine Island Road
Suite 315
Plantation, FL 33324
www.arcadis.com

March 29, 2024

Request for Qualifications, RFQ Event #253 CEI Services – Rehab of 48”/54” FM: Replacement on SE 9th and 10th Avenue to GTL

Dear Ms. Turner and Members of the Evaluation Committee:

Arcadis U.S., Inc (Arcadis) is pleased to submit this statement of qualifications to provide **Construction Engineering and Inspection (CEI) services** to the City of Fort Lauderdale (City) for this important Design-Build pipeline project. We stand ready to support the City in the completion of this project and assure construction occurs according to the plans and specifications, schedules and budgets are adhered to and regulatory requirements from FDEP Consent Order are met. **Our Plantation, FL, office serves as home base for our proposed Construction Management and Inspection team.** This highly experienced local team will be backed by an extensive network of construction specialists and subject matter experts. **Our team also includes highly qualified subconsultants who also have local experience and resources — WIRX and Stoner & Associates.** Both Stoner and WIRX worked with Arcadis on the Design Criteria Package for the 48” Finished Water Line from the new Prospect Clean Water Center. This SOQ will demonstrate our Team’s extensive qualifications and experience in providing CEI services for similar projects and for the City.

Our designated Construction Manager, David Morgan, is NASSCO certified and brings nearly 40 years of experience in the utilities industry, including leading the inspection of the installation of HDPE piping and the CIPP lining installation of large diameter sanitary sewer lines. A leader and problem solver known for his collaborative work style, David will be the primary Point of Contact for the City, working on-site to ensure the City receives full value from the contractor.

David will be supported by a strong inspection team who has experience with City projects. **That team includes Lia Dombroski and Garth White, who most recently provided inspection services for the City’s Pump Station A-16 Relocation Project which included a large diameter water main on SE 3rd Avenue, which falls within the alignment of this Force Main project.** They will be able to apply their knowledge and lessons learned from that project, including the experience gained from working in congested areas within the City and ensuring the contractor is meeting all associated regulatory requirements.

Leah Richter, PE, will serve as the Contract Manager and Principal-in-Charge. In this role she will provide oversight of the project and coordinate with David to ensure adequate resources are available for successful project delivery. A Fort Lauderdale native, Leah will bring value with her 25+ years of experience overseeing the successful delivery of services and projects to numerous public utility clients in the South Florida area, including the City of Fort Lauderdale.

We look forward to being a part of this journey with the City as you continue to provide high-quality, sustainable and cost-effective projects to your customers. A review of our qualifications and approach will make it evident we can support the City in the administration and execution of your project, resolve any construction issues or disputes which may arise, and ensure the project delivered to you operates properly and provides lasting value to the City and your customers.

We appreciate the opportunity to submit our qualifications and look forward to continuing our partnership with the City. Please do not hesitate to contact me at **954.525.2499** or **Leah.Richter@arcadis.com** should you have any questions in regard to the information provided herein.

Sincerely,
Arcadis U.S., Inc.



Leah Richter, PE
Contract Manager/PIC
✉ leah.richter@arcadis.com | ☎ 954.525.2499



David Morgan, NASSCO, CIPP
Construction Manager
✉ david.v.morgan@arcadis.com | ☎ 410.294.4292



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This proposal and its contents shall not be duplicated, used or disclosed in whole or in part for any purpose other than to evaluate the proposal. This proposal is not intended to be binding or form the terms of a contract. The scope and price of this proposal will be superseded by the contract. If this proposal is accepted and a contract is awarded to Arcadis as a result of or in connection with the submission of this proposal, Arcadis and/or the client shall have the right to make appropriate revisions of its terms, including scope and price, for purposes of the contract. Further, client shall have the right to duplicate, use or disclose the data contained in this proposal only to the extent provided in the resulting contract.



Section 4.2.2.

Executive Summary



4.2.2. Executive Summary



Arcadis has been an active member of the **local community** since **opening our first office in Fort Lauderdale more than 30 years ago**. During this time, we have been privileged to collaborate on many local projects to help enable the vision of City and County leaders. Moreover, we have done so by supporting and working alongside local agencies in helping to **build and improve our community**. We are excited for the opportunity to apply our comprehensive and specialized expertise related to **Construction Engineering & Inspection** in support of the construction via a Design Build approach of approximately 23,370 linear feet of large diameter force main, which includes both the installation of new pipeline and the rehabilitation of existing pipeline.



Firm Qualifications and Experience:

Business Entity: Arcadis U.S. Inc. is wholly owned by Arcadis North America, Inc., a Colorado Corporation, whose sole shareholder is Arcadis USA, B.V., a Dutch company.

Background: Arcadis is a leading global natural and built asset design and consultancy firm working in partnership with our clients to deliver exceptional and sustainable outcomes through the application of design, consultancy, engineering, construction management, and project management services. We are active in the fields of infrastructure, water, environment, and buildings.

Arcadis has been in business under the present name for 55 years. Founded in 1888, the firm's roots began, when the organization was founded in the Netherlands as an association for wasteland redevelopment. Arcadis has evolved throughout the 20th century, expanding its global reach and range of service offerings through strategic initiatives and targeted acquisitions.

Main Offices: Our Florida practice is supported by 350+ professionals among 10 Florida offices, including Plantation, Miami, Boynton Beach, Tampa, Orlando, Jacksonville, Pensacola, Boca Raton, Coral Gables and Tallahassee, FL.

Office Location that will serve this Contract: Plantation, FL

Our Value to the City:

- ✓ *Arcadis brings a highly experienced local team, backed by an **extensive network of construction specialists and subject matter experts**. Our team is familiar with City requirements and will assure you receive full value from the Design-Build contractor.*
- ✓ *A **Construction Manager with nearly 40 years of experience in the utilities industry, who is NASSCO certified** and experienced with the installation of HDPE piping and the CIPP lining installation of large diameter sanitary sewer lines.*
- ✓ *The **right qualifications and approach to support the City on this project**. Our team is familiar with City requirements and also with working in congested, well traveled areas like SE 3rd Avenue and Galleria Mall. We will be working with the City and the Design-Build Contractor to make sure the project is constructed safely and meets all regulatory requirements.*

150+ YEARS EXPERIENCE



Specialty Subconsultants



Project Team Experience and Qualifications:

Officers/Principals/Key Individuals and Office Locations:

- John M. McCarthy:** Executive VP, Business Area Director - President, Fair Lawn, NJ
- Aren L. Fairchild:** Secretary, Chicago, IL
- Anita Lutén-Bellin:** Treasurer, Los Angeles, CA
- Leah Richter, PE:** VP, Contract Manager/PIC, Plantation, FL
- Melissa Pomales, PE, PMP, ENV SP:** Sr. VP and Area Leader, Plantation, FL
- Vicki Lehr, PE:** QA/QC, Plantation, FL
- David Morgan, NASSCO:** Construction Manager, Plantation, FL
- Scott Stangle, PE:** Pipeline Technical Advisor, Hanover, MD
- Jose Custodio, PE:** Pipeline Technical Advisor, Plantation, FL
- Lia Dombroski:** Lead Inspector, Plantation, FL
- Garth White:** Inspector, Plantation, FL

Key Elements of the Proposal:



Qualifications:

Arcadis is a leader in providing construction management (CM) and Construction Engineering and Inspection (CEI) services. Our construction personnel and professionals include construction managers, inspectors, engineers, CPM schedulers, cost estimators, certified value engineering specialists, commissioning agents, claims specialists and LEED Accredited Professionals.



Responsiveness:

We understand a project of this magnitude which is also under a regulatory deadline requires a flexible and agile team so qualified personnel will be available when needed. With some of the construction taking place in congested, highly traveled areas, night work will likely be required and weekend work might also be required. **If needed, we have additional resources available in the South Florida area that can be deployed to make sure there is always full coverage of the construction activities. While our CM and Inspection team has a home base in our Plantation office, they will primarily be located on-site in the field observing the construction.**



Project Understanding

Arcadis is currently providing Construction Engineering and Inspection (CEI) services to the City as part of our Continuing Services contract and is very familiar with the City’s expectations on how to deal with issues that arise during the construction phase of your projects. Our Team possesses the experience, and clearly understands the FDEP Consent Order requirements. **This will result in a successful delivery of the project and ensuring that it is finally completed by August 31, 2026.**

Forbes 2023
America’s **Best** Management Consulting Firms



“ Arcadis provides the highest level of expertise needed for OUC’s complex projects.”

- Chuck DiGerlando, Manager, Water Distribution Engineering, Orlando Utilities Commission

“ We have worked with Arcadis for years and they have always worked with us to find a way to get it done.”

- Phil Clark, Director of Utilities, City of Tavares



Section 4.2.3.

Firm Qualifications and Experience



4.2.3. Firm Qualifications and Experience

Arcadis has been performing CM and CEI services for public works entities for more than 30 years, including for utilities in Florida and for the City of Fort Lauderdale. Our firm and team serve as trusted advisors for our clients, ensuring the projects delivered operate properly and have lasting value.

Introduction

Arcadis U.S., Inc. is a leading global consultancy firm who works in partnership with our clients to deliver exceptional and sustainable outcomes through the application of design, consultancy, engineering, and **construction engineering and inspection services (CEI)**.

We offer the City of Fort Lauderdale the capabilities of a large, diversified firm, with a profound understanding of regional and local circumstances. Our CEI staff are adept at solving the difficult issues that face public utilities and public works departments today, including difficult rehabilitation projects, regulatory compliances, constrained budgets, future capacity needs, customer expectations, and tight schedules. We work with our clients to overcome these challenges. This experience, coupled with our local staff, national experts, and pool of specialty subconsultants, will lead to success on this important project.

With approximately 6,000 U.S. professionals and support personnel, and more than 350 staff members in the State of Florida, Arcadis has the capacity to provide the resources necessary to meet the City's objectives for this project and comply with the Consent Order. **This contract will be managed from our office in Plantation, FL**

MINIMUM QUALIFICATIONS

- Firm's # of Years of Experience: Firm was incorporated in Delaware in 1967 and has provided services for more than 150 years.
- Business Structure: Corporation.
- Licensed in the State of FL to provide professional engineering services: Yes, Florida license documents are shown on following page.
- Business Areas: To enhance and strengthen our global reach with our expertise, we invest in capabilities and concentrate on the following 3 business areas: **Resilience - Water/Environment, Places, and Mobility.**
- Arcadis has been performing CM and CEI services for public works entities for more than 30 years, including utilities throughout the nation and in the Southeast Florida area.
- DBE/MBE Certification: No, but we have engaged local subconsultants for our team, including a certified DBE who will actively participate if awarded this contract.
- Litigation/COI: Firm/Principal have no record of judgements, pending lawsuits against the City nor any conflicts of interest.
- Default/Debts: Neither the firm nor the principals, officers, or stockholders are in arrears or in default of any debt or contract involving the City.

Arcadis At-a-Glance

Over
6,000
U.S. employees

More than
\$4.2
billion in revenues

Working in
120+
offices across the U.S.

Over
350
staff members
in Florida

Firm Ownership

Arcadis U.S., Inc., is owned 100% by Arcadis North America, Inc., a Colorado corporation

Corporate Headquarters

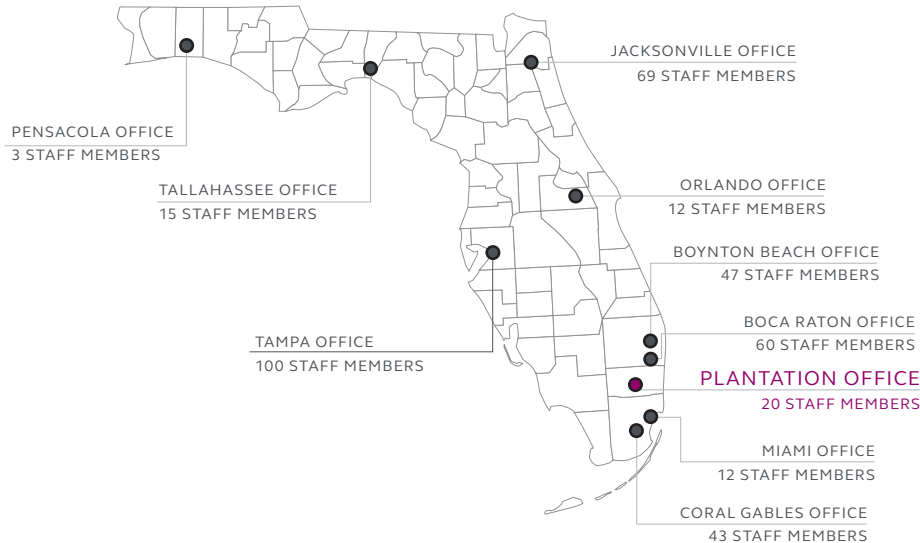
630 Plaza Drive, Highlands Ranch, CO 80129

Organizational Structure

Arcadis U.S., Inc. is a corporation registered in the State of Delaware, and a subsidiary of Arcadis N.V., a Dutch company (founded in 1888).

Local Office

150 S. Pine Island Road, Suite 315, Plantation, FL 33324

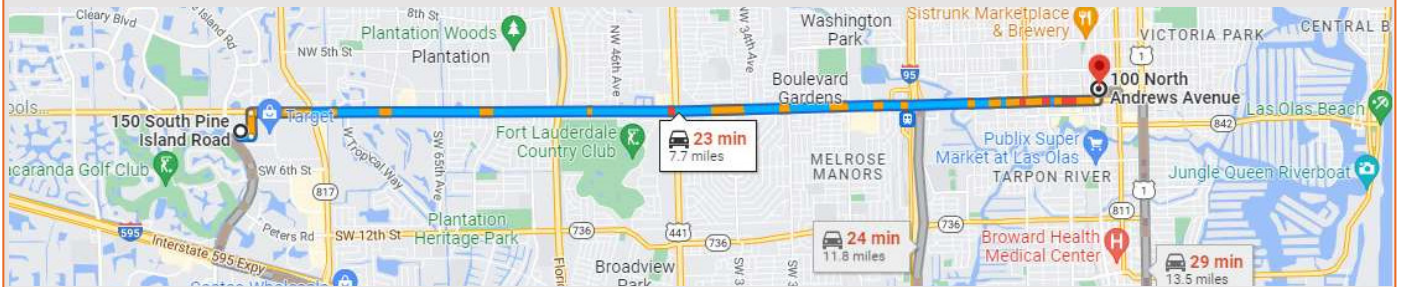


Our Florida practice is supported by over 350 professionals among 10 Florida offices. Arcadis has performed a thorough review of resources in the State so that local knowledge and established local relationships can be leveraged to bring the City exemplary services.



A Local, Responsive Office

Less than 8 miles from the City's offices and facilities, the Arcadis team located in our Plantation office includes 20 professionals backed by 350 in the State of Florida. **Arcadis is an agile firm that can respond quickly and deliver projects efficiently.** While our CEI Team will primarily be located on-site monitoring the construction activities, the Plantation office will serve as a home base for them.



Qualifications

Arcadis is pleased to submit our qualifications for the Management and Construction Engineering and Inspection (CEI) for the Rehabilitation of the 48"/54" Force Main Design-Build project and excited about the opportunity to provide these services to the City. A leader in providing construction management (CM) and inspection services, Arcadis successfully delivers critical infrastructure projects for utilities and municipalities around Florida and the nation. Our construction personnel and professionals include construction managers, inspectors, engineers, CPM schedulers, cost estimators, certified value engineering specialists, commissioning agents, claims specialists and LEED Accredited Professionals. Our CM practice specializes in the delivery of public works infrastructure projects, including distribution and collection systems, water and wastewater treatment facilities, stormwater

management systems, buildings, and general civil projects. Arcadis will bring best practices gleaned from our extensive project and CM experience, delivering innovative solutions in close collaboration with City staff. We know the importance of planning, coordinating and communicating with operations and maintenance staff so the system continues to operate safely and reliably during and after construction.

Arcadis has the capacity to provide the resources necessary to meet the City's objective with this Project. We have the ability to work with accelerated schedules, respond quickly, maintain quality work, and meet budget and time constraints. Should an increase in resources be necessary, our team can draw from a resource pool of employees within Florida and nationally. In short, we have the Knowledge and resources to successfully meet the needs of the City for this Consent Order Project.

CM/CEI Capabilities

Arcadis has unmatched experience and expertise in construction management and inspection services for collection and conveyance systems. **Arcadis has completed CM work for some of the largest water and wastewater utilities and facilities in the world** including New York City (Wards Island, Coney Island, Newtown Creek), Detroit (DWSD WWTP), Cleveland (NEORSO Southerly), Phoenix (91st Avenue), Washington DC (Blue Plains), and Boston (Deer Island). Arcadis has also delivered CM services under many large Programs throughout the United States and Florida, including JEA's Large Diameter Pipe Replacement Program, Chicago Department of Water Management CIP, DC Water Sewer Program, Port Miami Bond Engineering, ALCOSAN Wet Weather Plant Expansion Program, NYC's \$4 billion Newtown Creek WWTP Upgrades Program, Nassau County's \$800M Post-Sandy Rehabilitation Program and PRASA's 2005 - 2016 CIP.

Arcadis will bring best practices gleaned from our extensive project and CM experience, delivering innovative solutions in close collaboration with City staff. We know the importance of planning, coordinating and communicating with operations and maintenance staff so plant and collection and distribution systems continue to operate safely and reliably during construction.

As Construction Managers, we optimize cost, improve operability, improve the plans and specifications to obtain competitive bids and assure quality construction. Arcadis has extensive experience in the construction management of municipal utility projects and are well suited to meet your CM needs throughout this contract.

This includes owners who desire to implement projects through alternative approaches such as design-build, design-build-operate, CM@Risk and Public Private Partnerships. Once selected, we can help you manage the implementation of the selected approach.

Pre-Construction Activities

Arcadis performs design reviews or constructability and value engineering reviews utilizing our team of construction managers, resident engineers and design engineers. We review everything from the pipeline rehabilitation method, clearance from other utilities, pit locations, materials, MOT, and overall completeness of the drawings and specifications in relation to the project objectives set forth by City of Fort Lauderdale.

Successful projects are defined not only by effective sequencing and staging of construction, but also by the protection of personnel and the surrounding community and businesses from safety issues. Our CM staff will coordinate with the City's Project Manager and support Strategic Communications staff to keep the local community updated on the progress of the construction and provide support to address community concerns.

Fort Lauderdale – A16 PS



Arcadis served as the CEI firm for the City's A-16 Pump Station relocation Design-Build Project that included the installation of a 30-inch water main and a 12-inch force main along SE 3rd Avenue. Having provided CEI services for this project gives us first-hand knowledge of what to expect on SE 3rd Avenue which is a critical area where work will be performed as part of this Force Main project. Arcadis is very familiar with the existing utilities on this corridor, the requirements from Broward County Engineering and Traffic Division, dewatering considerations close to the Tarpon River, among others. We established lines of communications with the Federal Courthouse Contractor performing work at this location.

Sarasota County, FL - SR 45 Utility Relocation and Construction Services

The proposed FDOT work required relocation of existing County utilities including about 2,100 linear feet (LF) of 30-inch water main, 25 LF of 12-inch water main, 855 LF of 10-inch water main, 695 LF of 18-inch force main. Arcadis provided design and permitting services and also CEI services during construction. Arcadis was able to assist the County in meeting the stringent FDOT schedule during design. The design included trenchless construction through horizontal directional drilling (HDD) of portions of the existing mains.



Construction Site Health and Safety Management

Arcadis shares our clients' concern regarding the safety of their construction projects. We are committed to promoting and enforcing both construction site safety and environmental health and safety on all of our projects. While the construction contractors have the legal responsibility to provide for the safety of their employees, we

routinely assist contractors and clients in maintaining a safe work environment. We follow a safety communications protocol that involves tracking of safety-related issues and providing the client with timely information on spills, incidents and accidents.

Permitting and Regulatory Compliance

During design and throughout construction work, we monitor the contractor's compliance with all permit and regulatory compliance requirements and stipulations. We maintain logs of permits noting all expiration dates to assure timely renewals. Additionally, we assure the contractor's required reporting is performed in both timely and a correct manner.

Sustainable Business Practices

Sustainability is one of our core values, and we are reducing our impact on the world and improving quality of life every day. We actively take steps to reduce our environmental footprint and have reduced our total carbon footprint by 25% per full time employee over the last five years. Our goal is to achieve carbon neutral operations globally. We measure and report our progress towards our sustainability goals on a yearly basis in our Integrated Annual Report and Carbon Disclosure Project disclosure.

As a design and consultancy firm, Arcadis recognizes that the biggest impact we can have on the world is through the projects we complete for our clients. Therefore, we seek to understand each client's sustainability objectives and integrate them into each of our projects. Our goal is to deliver innovative sustainable solutions to our clients, solving their most complex challenges. **Arcadis is a Charter member of the Institute for Sustainable Infrastructure (ISI), as well as a Platinum member of ISI's Envision Leadership Circle, and a Platinum member of the US Green Building Council. We currently employ over 60 Envision Sustainability Professionals (ENV SPs) and over 150 LEED Certified professionals who apply their knowledge of sustainable building and infrastructure practices to our projects. Melissa Hew leads our sustainability practice in South Florida and currently serves as the Arcadis program manager for the development of a vulnerability assessment and adaptation plan for the City of Fort Lauderdale.**

Summary of the Experience and Qualifications of the Construction Manager



Construction Manager: David Morgan, NASSCO

Office: Plantation, FL

Mr. Morgan is a Construction Project Manager / Inspector with nearly 40 years of experience in the utilities field. His areas of expertise include construction/project management, inspections, planning, scheduling, claims analysis and project controls. Mr. Morgan has a proven ability to manage simultaneous demands efficiently. His responsibilities have included Construction Management and Inspection on behalf of the Client for pipeline installations, treatment plant expansions, civil works, electrical and mechanical installations.

NASSCO Certified, Mr. Morgan will bring his expertise in large diameter pipeline installations to this project. A leader and problem solver known for his collaborative work style, he will be the primary Point of Contact for the City, working on-site managing the construction contract to ensure the City receives the full value from the constructor.

Relevant projects Mr. Morgan has worked on include:

- ✓ **SR 527 Water Main & Electrical Improvements** | [Orlando Utilities Commission, Orlando, Florida](#)

Civil/Utility construction inspector for Orlando Utilities Commission on the State Road 527 Water Main and Electrical upgrades project. The project includes the installation of approximately 4,400 ft of 16in WM and electrical duct bank and vaults along Orange Ave within Downtown Orlando. HDD trenchless technology and HDPE pipe were used. Also responsible for project documentation and quality control. Orange Avenue is a busy FDOT owned corridor with high traffic volume, hospitals and businesses, which adds a level of complexity to the MOT and the construction sequence.
- ✓ **Baltimore City SC932 Sewer Improvements to Lower Gwynns Run Interceptor** | [City of Baltimore, Maryland](#)

The project included extending a section of the Lower Gwynns Run Interceptor (LGRI) sanitary sewer in the west Baltimore Region of the High Level Sewershed. This was a Civil/Utility construction inspection of the tunneling and CIPP lining installation of approximately 2,550 LF of 30- inch interceptor sanitary sewer, 48 to 60-inch steel casing, access manholes, bellmouth structure and bypass pumping as necessary and all associated work. Civil/Utility construction inspection of the tunnelling and CIPP lining installation of approximately 2,550 LF of 30- inch interceptor sanitary sewer, 48 to 60-inch steel casing, access manholes, bellmouth structure, bypass pumping.
- ✓ **Baltimore City SC875 Sewer** | [City of Baltimore, Maryland](#)

Inspections of the Rehabilitation of Southwest Diversion Pressure/Gravity Sewer – Phase III. This project included CIPP lining or alternative structural repair of 78-in. diameter RCP gravity sewer; 2,140 linear feet (LF) of carbon fiber reinforced polymer (CFRP) structural repair of a 78-in. diameter prestressed concrete cylinder pipe (PCCP) pressure sewer; and the installation of permanent access structures, in locations where the existing 78-in. diameter gravity or pressure sewer was removed to accommodate the rehabilitation of the 78-in. diameter sewer. The project also included associated bypass pumping and control of flows along with continuous monitoring of bypass operations. Civil/Utility construction inspector for the Baltimore City SC 875 rehabilitation/replacement of the Southwest Diversion Pressure/Gravity Sewer Phase 3.
- ✓ **Broward County Water/Wastewater Project** | [Broward County OE, Pompano Beach, Florida](#)

Chief plant operator of an 80 MGD activated sludge wastewater treatment plant. Directly responsibility for all liquids processes control and Biosolids removal. Oversee 13 master pumping stations throughout Broward County. Write local, state, and federal reports. Responsible for troubleshooting and process control. Supervision, training, safety and direction of 15 personnel. Additional responsibilities included: coordinating total plant shutdowns for plant expansion/construction, complaint investigations, coordinating equipment and manpower for Biosolids removal and disposal. Responsible for construction, operation and monitoring of the septage facility and biofilters. Chief liaison between operations and maintenance departments.

State of Florida Department of State

I certify from the records of this office that ARCADIS U.S., INC. is a Delaware corporation authorized to transact business in the State of Florida, qualified on February 26, 1998.

The document number of this corporation is F98000001104.

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 April 4, 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 Fourth day of April, 2023*




Secretary of State

Tracking Number: 4035731477CC
To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.
<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

Arcadis U.S., Inc. Engineering Firm License Registry No. 7917

PLEASE NOTE: Florida engineering laws changed on October 1, 2019 regarding firm licensure. Firms are no longer required to obtain a license; however, must qualify through a PE/Officer. Information on the company will appear under that individual's license through the FL DBPR's site. **Gustavo Suarez is the PE qualifier for the firm.**

Financial Stability / Organization and Equipment

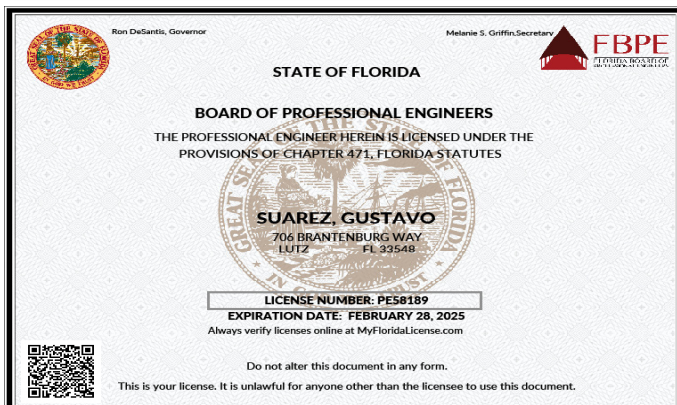
Financial Stability / Organization

Arcadis is a sound and financially stable publicly owned company. We are the leading global design and consulting firm for natural and built assets, and we are the largest environmental services provider to the private sector globally. With 29,000 employees worldwide and more than \$4.2 billion in annual revenues, the company has an extensive international network supporting strong local practices that allow us to deliver our expertise when and where our clients need it. Arcadis provides consultancy, design, engineering, and management services in infrastructure, water, environment, and buildings.

We are in a stronger position than many of our competitors due to the fact that Arcadis maintains a healthy balance sheet (demonstrated by strong balance sheet ratios) with a robust working capital position. Our operations are funded from operating cash flow, and no borrowing is needed for our day-to-day operating purposes.

Our financial strength allows Arcadis to apply our deep market-sector insights and collective design, consulting, engineering, project and management expertise to take on diverse projects around the world. We work in partnership with our clients to deliver exceptional and sustainable outcomes throughout the life cycle of their natural and built assets. Arcadis completed 2023 with a strong financial picture. Our revenue growth continues on a steady upward trend, an unbroken line of positive progression throughout our history. Our client-focused staff and management will continue to serve the needs of the marketplace and position us for continued financial success.

We understand that continuing service work requires the ability to make personnel available without the need for additional procurement. Arcadis project teams are agile and flexible. We are specialists in promptly identifying and anticipating project needs and quickly committing the appropriate staff.



Demonstrated Ability to Solve Complex Project Issues



FIRM EXPERIENCE AND AWARDS

Nationally, our Construction Management team has managed **billions of dollars of construction** for new and renovated water and wastewater facilities; has worked with all forms of project delivery systems, including traditional design-bid-build projects and alternative project delivery systems like design build; and performed value engineering for more than 650 water and wastewater projects, resulting in a combined total savings of over **\$2 Billion for our clients.**

Our projects have received **awards from the Construction Management Association of America (CMAA) for excellence in construction management**, as described below. Several members of our team have worked on these award winning projects:

- City of Brentwood WTP, Contra Costa, CA – Project Achievement Award for Projects over \$20 Million.
- New York City Department of Environmental Protection, Catskill/Delaware Ultraviolet Water Disinfection Plant, Corona, NY - Honorable Mention greater than \$100 Million.
- Crystal Spring Water Treatment Facility, Roanoke, VA – CMAA Outstanding Project.
- Lower Northwest Interceptor Pump Stations, Sacramento, CA – Project Achievement Award for Projects over \$100 Million.
- Henrico County, VA Wastewater Treatment Plant – CMAA Honorable Mention for Outstanding Project for Public Projects over \$10 Million. This is one of two awards given nationally in this category.
- Sod Run WWTP BNR and Renovation Program, Harford County, MD – this \$65 Million program upgraded and expanded the plant from 10 to 20 mgd and provided BNR. Arcadis, under the CDG brand, won the Top Construction Management Project Achievement Award for Public Projects Under \$100 Million from the CMAA. This project also won a second time with ENR.
- Humbercare Wastewater Treatment and CSO Program, Hull, UK (Yorkshire Water) (\$300 Million) – this is the largest wastewater capital program in the UK. Arcadis, under the CDG brand, received the Top Construction Management Project Achievement Award for International Projects from the CMAA for Project Excellence.
- Patuxent WRF, Anne Arundel County, MD – Expansion of existing ENR Water Reclamation Facility to 10 mgd CMAA award.
- Phase I Improvements to the Terminal Area at Long Beach Airport, Long Beach, CA - Project Achievement Award; Design Quality Award; Sustainable Construction Award.
- SCE Data Center, Los Angeles, CA – Project Achievement Award; Building New Construction \$51-100 Million.

ADDITIONAL CONTRACTS WHERE WE HAVE PERFORMED CM AND/OR INSPECTION SERVICES (SEVERAL MEMBERS OF OUR TEAM HAVE WORKED ON THESE PROJECTS):

- **City of Fort Lauderdale: Relocation of the A-16 Pump Station, CEI On-Call Services Contract (\$4.6 Million).**
- City of Hollywood: Water Treatment Plant Service Pump Station Upgrade / Hollywood, FL (\$8 Million).
- Hillsborough County: Pump Station Electrical/Supervisory Control and Data Acquisition Upgrade Phase II / Hillsborough County, FL (\$13.4 Million).
- Tampa Bay Water: Cypress Creek WTP Chemical Feed System Rehabilitation / Land O' Lakes, FL (\$660k).
- Solid Waste Authority Palm Beach County: Palm Beach Renewable Energy Facility No. 1 and No. 2 Bond Engineer Services / West Palm Beach, FL (\$670 Million).
- City of Atlanta: Atlanta Annual Contract for AE Services / Atlanta, GA (\$1 Billion+).
- DC Water Tunnel Dewatering Pump Station / Washington DC (\$215 Million).
- Harford County, MD: Construction Management Services for Water and Wastewater Projects / Harford County, MD (\$215 Million).
- DC Water: Construction Management 4E / Washington, DC (\$160 Million).
- Anne Arundel County, MD: Sewer and Water Main Construction Management and Inspection Services / Anne Arundel County, MD (\$3 Million/Year fee).



What Our Clients are Saying...

Harford County is pleased with Arcadis' performance including project management, technical competence and their ability to meet our overall project goals and objectives. For these reasons, we have continued to select Arcadis to perform both CM and engineering services work for our water and sewer projects.

David E. Pergrin, PE | Harford County Division of Water & Sewer

During construction, Arcadis maintained cost control by providing independent cost estimates, clarifying the necessary changes, negotiating a fair value for the changes, and recommending a course of action for approval. They ensured the schedule and project goals were met by working with all project team members to address the actionable items in a timely manner.

Christopher P. Murphy, PE, Engineer Administrator |
Anne Arundel County, Bureau of Engineering

Overall, Arcadis has been a fantastic partner and very easy to deal with and we will be selecting them for future work when presented.

John Barta, Operations Manager | Schneider Electric

Arcadis has been extremely helpful in providing additional services and being responsive to the unique situations of this project during construction.

Natalie Urick, Senior Engineer | Orlando Utilities Commission

Arcadis' work ethic exemplifies professionalism, and ownership of their contractual duties. Arcadis provides consistent and efficient services during Construction Management and Contract Administrative Services. The City is very pleased with the services provided.

Susan Hamilton, Program & Operations Manager |
City of Richmond, VA

Arcadis provides the highest level of expertise needed for OUC's complex projects.

Chuck DiGerlando, Manager, Water Distribution
Engineering | Orlando Utilities Commission

Arcadis is a very professional outfit. They have taken care of the City of Richmond, VA with impeccable diligence, attention to detail, and care. I highly recommend their services; their contributions to my project have been, in a word - invaluable.

Todd Loney, PE, Engineer 3 | City of Richmond, VA

Benefits of Arcadis' Approach

- Proactive schedule monitoring.
- Continuous partnering with all stakeholders throughout the construction project.
- An effective communication plan with immediate communication response with the City of Fort Lauderdale project managers, contractors and the public. We are available 24/7 for emergency resolution and have a proven record on some recent emergencies where our dedicated staff responded during off-hours and weekends.
- Proven program control systems for time, cost, quality, and documentation.
- Extensive design, construction, and technical support experience to prevent issues from becoming obstacles to project success.
- Quality assurance to promote high quality and efficient projects.
- Effective decision making and project management to monitor construction and start-up.
- A defined method of project turnover and closeout which captures as-built conditions, warranty data and operations information.

Recent Projects with Similar Work Experience

		Services Requested by this RFP				Types of Work			
	Project Name	General (Act as Owner's Agent or Representative, Provide Sufficient Personnel)	Pre-Construction Services (Review Baseline Schedule, Consult with City on Materials and Labor Required for the Work)	Construction Administration (Onsite Inspections, Schedule and Budget Reviews, Document Control, Track Submittals, RFIs, Pay Applications, Permitting/Utility Applications, Daily Reports)	Post-Construction Phase (Confirm Record Drawings Have Been Received, Conduct Warranty Inspections, Punch List)	Pipeline	CIPP	Trenchless	HDPE
1	Relocation of the A-16 Pump Station; City of Fort Lauderdale	●		●	●	●		●	●
2	Orange Avenue Water Main Replacement; Orlando Utilities Commission	●	●	●	●	●		●	●
3	Sarasota County CEI On-Call; Sarasota County	●	●	●	●	●		●	
4	City of Sunrise On-Call Contract; City of Sunrise	●		●	●	●			●
5	Water Main CM and Inspections Ph 4; Anne Arundel County, MD	●	●	●	●	●	●	●	●
6	Sewer Main CM and Inspections Ph 3; Anne Arundel County, MD	●	●	●	●	●	●	●	●
7	Bush Creek Pumping Station & Force Main Upgrades; Harford County, MD	●	●	●	●	●	●	●	●
8	On Call Construction Management Assistance; City of Baltimore	●	●	●	●	●	●	●	
9	CM4E Construction Management Program; DC Water	●	●	●	●	●	●	●	●
10	Tunnel Dewatering Pump Station and Enhanced Clarification Facility; DC Water	●	●	●	●	●			

1 Relocation of the A-16 Pump Station, CEI On-Call Services Contract



Arcadis provided Construction Engineering and Inspection Services (CEI) to the City of Fort Lauderdale Public Works Department on the A-16 Pump Station Relocation project through our CEI On-Call Services contract. The project was located on SE 11th Street, close to the intersection of SE 3rd Avenue in the City of Fort Lauderdale. The relocation was needed to accommodate the new Federal Courthouse Building at this location.

Arcadis served as the City's representative, including providing on-site inspection for all construction activities. Responsibilities also included conducting Bi-weekly Progress Meetings with City staff and the Contractor to discuss project status, issues during construction, scheduling to make sure the work was completed on-time without significant delays. Arcadis also reviewed the Contractor's Pay Applications to ensure all City requirements are completed prior to issuance of payments.

The Project involved the installation of a 30-inch potable water main and a 10-inch sanitary sewer force main along SE 3rd Avenue (County Road)

and the side streets (SE 11th Street and SE 9th Street). The crossing under the Tarpon River was done using horizontal directional drilling.

The full-time onsite inspector served as the City's eyes during the construction of the Project. This person was responsible to ensure that the pipeline and pump station were installed according to the Plans and City's and County's requirements for work under their Right of Way, especially for MOT Plans. Coordination with third party utilities, Federal Courthouse Contractor and City residents were also part of the services provided.

Given the proximity to the Tarpon River, Stormwater Pollution Prevention Controls were a key aspect of this Project to avoid contamination to the River. All stormwater outfalls around the project site were inspected by the CEI team daily (start and end of the day) to ensure the stormwater BMPs were in place.

Dewatering activities was another important aspect of the project. Our CEI Team was responsible to evaluate the dewatering method used by the Contractor daily and had stop work authority from the

Client

City of Fort Lauderdale

Client Contact

Jose Colmenares
Project Manager
954.828.6998
jcolmenares@fortlauderdale.gov

Completion Date

2023 – March 2024

Total Constructed Value

\$4.6M

Key Personnel

Jose Custodio
Lia Dombroski
Garth White
Darryl Dunn
Chris Matthews
Vicki Lehr

Relevancy

- Construction Engineering, Onsite-Inspections
- Design-Build Delivery
- Schedule and Budget Control
- Change Management
- Contract Administration
- Trenchless Installation
- MOT Review
- Construction in Environmentally Sensitive Areas
- Construction in High Traffic Areas
- Dewatering Plan Review
- Close Coordination with Residents and Businesses
- Review of Stormwater Pollution Prevention Plans
- Inspections of Stormwater Outfalls and Catch Basins

City if the dewatering operations were not performed according to City's and other regulatory requirements.

2 Orange Avenue Water Main Replacement



Arcadis provided construction engineering services for the replacement of approximately 4,350 LF of a 16-inch water main, maintenance of traffic (MOT) plans for the Utility Work by Highway Contractor Agreement (UWHCA) project, permitting, bidding, public outreach, and construction administration and construction inspection services. Orange Avenue is a busy corridor owned by FDOT with high traffic volume, hospitals, businesses, etc. which adds a level of complexity to the MOT and the construction sequence.

OUC is in the process of replacing aging water distribution pipes in downtown Orlando to ensure the long-term reliability of water infrastructure and accommodate for future growth in the city. OUC entered into a UWHCA with the Florida Department of Transportation (FDOT) for relocation of an existing 16-inch water main, as part of a roadway improvement project in downtown Orlando. The existing cast iron water main along State Road (SR) 527 (Orange Avenue) was originally constructed in 1948. Arcadis provided professional engineering services, including design of replacement water main, MOT plans

for the UWHCA project, permitting, bidding, public outreach, construction administration and construction inspection services for this water main relocation project.

The stretch of Orange Avenue between Grant Street to Annie Street is one of the busiest traffic corridors in downtown Orlando, as it cuts through the heart of a newly revamped south downtown (SODO) area. The SODO area is a vibrant, mixed-use, multi-modal neighborhood, with shops, multi-story housing, a sprawling Orlando Health Medical Campus and a commuter train station. As a result, the corridor owned by FDOT, experiences high traffic volume from hospitals, businesses, and residents etc. This high traffic volume added a level of complexity to the MOT and the construction sequence for the project. Additionally, OUC wanted to minimize the impact of construction activities on the area businesses, which added another complexity to the project as it required that public notifications are timely disbursed to the affected parties informing them about the ongoing and upcoming activities.

Client

Orlando Utilities Commission (OUC)

Client Contact

Natalie Urick, PE
Senior Engineer
321.230.6694
nurick@ouc.com

Completion Date

2020 – Ongoing

Total Constructed Value

\$11.3M

Key Personnel

Steve Woodhurst
David Morgan
Chris Matthews
Vicki Lehr

Relevancy

- Construction Management
- Construction Inspection Services
- Design Services for Replacement Water Main
- MOT Plans for the UWHCA Project
- Permitting, Bidding, Public Outreach
- Construction Administration

Arcadis is the design engineer for OUC's program for replacing aging and deteriorating water mains within its service area. Under this program, OUC requested Arcadis to provide professional engineering services for the relocation of the existing water main along Orange Avenue. Arcadis completed the design of approximately 155 LF of 20-inch water main, approximately 4,400 LF of 16-inch ductile iron (DI) water main; 1,860 LF of 12-inch DI water main and several smaller sized pipes.

The design services also included coordination with electrical improvements along the Orange Avenue corridor between Kaley Street and Annie Street. Also installing a medium voltage distribution electrical duct bank (12.5 KV) to include 5,000 LF of conduit (design by a third party).

Maintenance of Traffic (MOT)

Arcadis provided MOT services for the entire project with portions of night work and lane closures; bidding assistance; and permitting support.



Construction Management

Arcadis is currently providing full construction management and inspection services during construction, covering both day and night shifts.

Congested Right-of-Way/Utility Corridors

Orange Avenue has been one of the long-established major roadways running through a crowded downtown. As a result, the utility corridor has a number of existing utilities from such as electrical, wastewater force mains, gas line, cable and telecommunication fiber lines.

Permitting

FOOT Project required obtaining the Right-of-Way Utility Permit from the FOOT for water and electric replacement. FDEP Multiple permits were obtained from the Florida Department of Environmental Protection (FDEP), including:

- General Potable Water Permit needed for the installation of the new water main
- Certification of Construction Completion and Request for Clearance to Place Permitted PWS Components into Operation



City of Orlando

City of Orlando’s Engineering permit was obtained to modify our conformed drawings to show the limits of restoration within the City’s ROW as per their Engineering Standards manual. We also submitted a modified cost sheet along with the drawings.

Public Outreach

Arcadis also assisted OUC with public engagement, by providing materials needed for the public meeting, addressing public questions. During the ongoing construction phase of the project, it is very important to provide advance notice of the construction schedule with details on road closures to the area residents and businesses.

Arcadis worked with OUC for a proactive approach by preparing a newsletter known as “Neighborly News,” which provides details on the work schedule of the construction crews, nighttime construction activities, lane closures etc. Arcadis also developed maps to be included in the newsletter that identify the limits of the construction work area and provided visual representation of the upcoming lane closures. Arcadis worked with the contractor to distribute the newsletter. The newsletter was positively received by the area residents and businesses.

Project Success Factors

Throughout the design and now in construction, our team actively engaged the client through regular meetings (in person and virtual). Due to frequent communication, we were able to alert OUC to situations before issues arose - for this reason, our team has developed a high level of trust among OUC staff.

Maintaining Budget, Schedule and Quality

The design of the project was completed within budget, on schedule and to OUC’s satisfaction. As a result, OUC hired Arcadis to provide full time construction services on the project.

3 Sarasota County CEI Projects



State Road 45 CEI

Sarasota County entered into a Utility Work by Highway Contractor Agreement (UWHCA) with the Florida Department of Transportation (FDOT) for the FDOT SR45 (US41) Improvements Project.

The proposed FDOT work required review of 5 miles of US41 roadway improvements to locate potential utility conflicts, coordinate with 6 other utilities in the corridor, and meet a tight schedule to join the FDOT project while they were in Phase 4 preparations. **The relocation of existing County utilities included 1,400 LF of 30-inch water main, 60 LF of 12-inch water main, 850 LF of 10-inch water main, 700 LF of 18-inch force main, 1,100 LF of 8-inch force main.** Arcadis provided design, permitting and administration with field support during construction. Arcadis was able to assist the County in meeting the stringent FDOT schedule during design and working closely during construction when unforeseen conditions were encountered. **The design included trenchless construction through horizontal directional drilling (HDD) of portions of the existing mains.** Overall, the project realized savings to the County through close coordination with FDOT, the County, and Arcadis' design revisions that took advantage of field conditions. Arcadis found ways to spread costs on preliminary engineering

activities realizing \$100K in savings on this project.

Clark Road CEI

Sarasota County entered into a Utility Work by Highway Contractor Agreement (UWHCA) for the Florida Department of Transportation (FDOT) Financial Project ID 201277- 3-52-01 Sarasota County 17075. The UWHCA included the relocation of a 16-inch water main under active and future ramps as well as Interstate 75 (SR 93), modifications to a 16-inch reclaimed water, and traffic fiber optic cables relocations along Clark Road (State Road 72) from Gantt Road to Hummingbird Avenue. The project limits are approximately 5,000 LF along Clark Road and professional engineering services included design, permitting, bidding, and construction phase services. The decision to enter the UWHCA required that Arcadis draft 60% alignment plans within one month of NTP for the County to meet the FDOT schedule. The bid came in at \$1.2M.

Arcadis met with Robert Hess and Lori Carroll to understand the requirements and expectations of the County for construction inspections associated with FDOT projects.

Client

Sarasota County

Client Contact

Rob Hesse, P.E.
Utility Operations Manager
941-275-2703
rhesse@scgov.net

Completion Date

2018 – Ongoing

Total Constructed Value

\$3M

Key Personnel

Bryce Kaufman
Jeff Luetjen
Chris Matthews
Tina Laird
Vicki Lehr

Relevancy

- Construction Engineering
- Construction Inspection Services
- Trenchless Construction
- Schedule Reviews
- Estimating/Change Management/Claims
- Reviews (Design Reviews, Submittals, RFIs, Payment Applications, Permit Applications)
- Confirm Record Drawings
- Meeting Support
- Document Control (i.e., e-Builder)
- Survey Control
- Testing Services

4 Various CMS Projects City of Sunrise

Arcadis has maintained an engineering and professional consulting services contract with the City of Sunrise (City) since 2012, under which it has successfully completed approximately 60 task orders under this contract. These services have included water, wastewater and reclaimed water system planning and design, water supply and injection well permitting and design, and construction management. A few recent Construction Management Services tasks are included here.

Springtree Wellhead Construction, Wells 13, 14, 15 & 16 (5009WF Project Agreement 14-003-MP, P.O. No. 081414

This project included Construction Management Services (CMS) services for the completion of the site piping and appurtenance for the conveyance of reverse osmosis concentrate and wastewater treated effluent to recently installed deep injection wells. The construction activities include: the installation of a standby treated effluent pump (400 HP) to assist with plant water pumps pressures; VFDs for the existing treated effluent pumps; piping/valving/metering system to deliver the treated effluent to the injection wells; piping/valving/ metering to deliver RO reject to the injection wells, and a new diesel standby generator with fuel system.

Springtree WWTP Deep Injection Wells Flow Delivery CMS

This project agreement provides for the CMS for the equipping of four (4) wellheads and modifications to eight (8) other existing wells. The CMS includes Construction Administration and Non-Fulltime Project Representative Services (Inspection). The wellheads include slab on grade wellhead assemblies,

well pumps, motors, water level transducers, concrete well pads, pressure gauges, flow meters, bypasses, valves, discharge piping, piping connections, instrumentation and controls (I&C), electrical, control panels, meter calibration manholes, fencing, landscaping and other appurtenances along with general site restoration.

Nova Drive Watermain and Forcemain Improvements Project Agreement 16- 008-MP P.O. No. 088269

CMS services related to the replacement of a potable cement asbestos water main located within the Park City residential neighborhood area within the City's service area. The water main to be replaced is within SW 86th Ave, from SW 21st Street south to Nova Drive, then east along Nova Drive to University Drive. A new aerial crossing of an existing canal is planned. The City is also planning on replacing an aged force main (consisting of cement asbestos and cast iron) from LS No. 203, south along SW 86th Ave to Nova Drive, then east along Nova Drive to University Drive.

N.W. 44th St./Pine Island Road Water Transmission Main Improvements (5082PI) Project Agreement 16-017- MP, P.O. No. 90786

Provide CMS services for the replacement of a 36-inch main within NW 44th St from the Springtree WTP to Pine Island Road, and a 30- inch main in Oakland Park Blvd., from NW 35th Ct., to the C-13 canal.

Escape and Valencia Water Main Improvements (5031PI) Project Agreement 16-011-MP, P.O. No. 088267

Client

City of Sunrise

Completion Date

2022

Total Constructed Value

\$18M

Key Personnel

Garth White
Chris Matthews
Leah Richter
Lia Dombroski

Relevancy

- On-site Inspection
- Change Management
- Contract Administration
- Independent Consulting Engineer
- Consulting Engineer's Technical Feasibility Report
- Facility Condition Assessment Operations Monitoring
- Management Financial Consulting Services
- Debt Issuance



CMS services related to the replacement of aging potable PVC water mains located in The Escape and Valencia residential neighborhood areas within the City's service area. These neighborhoods are located within the Town of Davie.

5 Water Main CM and Inspections Phase 4



Anne Arundel County, MD, Department of Public Works, maintains a \$10 million budget for improvements to the water distribution system throughout the County. Arcadis was retained to provide construction management and inspection services for as many as 6 projects annually.

These projects staff approximately 5 inspectors on a full-time basis, one construction manager, project administrator and project manager. Recent projects include \$2.5M Ft. Smallwood Road Water Transmission Main Valve Replacements, \$1.5M Water Service Replacements, \$1.3M Bonnet Bolt Replacements, \$1M Small

Diameter Replacement within the County Communities, \$2.1M Fire Hydrant Replacements, \$8.5M Brock Bridge Water Transmission Main Emergency, and \$4M Crain Highway Water Main Clean and Line. One key to project success for this highly public project is Arcadis' public outreach services to notify residents of work, handling questions and complaints, tracking call logs and being the face of these projects for the County.

Client

Anne Arundel County, MD
Department of Public Works

Client Contact

Pamela Mann, PE
Project Manager
443.336.8275
pwmann00@aacounty.org

Completion Date

2021 – Ongoing

Total Constructed Value

\$10M per year

Key Personnel

Chris Matthews
Vicki Lehr
Chris Remme
Bhadrash Patel

Relevancy

- Construction Management and Field Inspection
- Estimating/Change Management/Claims
- Reviews (Design Reviews, Submittals, RFIs, Payment Applications, Permit Applications)
- Meeting Support
- Document Control (i.e., e-Builder)
- Schedule Reviews
- Confirm Record Drawings
- Survey Control
- Materials Testing
- Quality control inspections
- Project Close-out and Turnover of Documents

6 Sewer Main CMI Services - Phase 3, Open-End Agreement



HDPE Fusion Process

Arcadis was selected to provide construction management and inspection (CMI) services for various sewer main capital improvement projects under an on-call task order basis. The projects include the rehabilitation and improvements to the County's wastewater collection system. Projects included, but were not limited to:

- Cured-in-Place Pipe (CIPP)
- Air Release Valve (ARV)
- Rehabilitation and Replacement
- Force Mains
- Sewer Lateral Replacements
- Mini-system Rehab
- Open Trench
- Trenchless
- Clearing
- Special and Emergency Cases

The project scope also covered all areas of the County's water distribution system, including water main replacement, water main bypassing, water valve and hydrant replacement, and water main re-lining.

EXAMPLE PROJECT

Bay Breeze Pump Station New Force Main Replacement

This project consisted of replacing 1,600 feet of 12" HDPE sewer force main from the Bay Breeze Sewage Pump Station to the gravity system on Columbia Beach Road. The project also consisted of installing a new manhole on Columbia Beach Road.

Challenge/Solution: What made this project unique, and challenging was coordinating with plant operations for shutdowns, tie-ins, and flushing, so as not to disrupt business operations in the shopping center. Another distinguishing factor in this project was working on shopping center road entrances and the ability to work safely and keep traffic congestion down.



Rigging HDPE in place at pump station

Client

Anne Arundel County, MD

Client Contact

Lee Greenwald
Senior Project Manager
410.224.1275
pwgree40@aaacounty.org

Completion Date

2016 – 2021

Total Constructed Value

\$10M (annually in fee Water Mains)
\$10M (annually in fee Sewer Mains)

Key Personnel

Chris Remme
Vicki Lehr
Chris Matthews
Tina Laird
Bhadrash Patel

Relevancy

- Construction Management and Field Inspection
- Estimating/Change Management/Claims
- Reviews (Design Reviews, Submittals, RFIs, Payment Applications, Permit Applications)
- Meeting Support
- Document Control (i.e., e-Builder)
- Schedule Reviews
- Confirm Record Drawings
- Survey Control
- Materials Testing

7 Bush Creek Pumping Station & Force Main Upgrades



Arcadis provided construction management services for several projects under the Open-End Engineering Services for Water and Wastewater Projects Contract (No. 16-194) including the Force Main described below:

Bush Creek Force Main Rehabilitation

Harford County retained the services of Arcadis Inc. to provide construction management and inspection services for slip lining of existing Bush Creek force main beneath the Bush River with 4,200 feet of 24-inch HDPE pipe material. Arcadis provided daily and weekly reports, pictures/videos, inspection of work and material, coordination of testing, and project closeout related services. Arcadis provided construction management and inspection (CMI) services on the following projects under the Contract No. 16-194.

Force Main and Interceptor Projects

Phase 1. Replaced the existing 30-inch RCCP Bush Creek force main beneath the Bush Creek to provide a safe operating capacity of 29.0 mgd. The new force main is approximately 11,500 LF of 36-inch DIP and 30" HDPE with 3,500 LF of 30" HDPE that was directional drilled under Bush River at two new locations.

Phase 2. Installation of 4,250 LF of new 42-inch diameter gravity sewer in a new alignment along Canning House Road, connecting the new force mains to the Sod Run Interceptor Sewer. Installation of 4,100 LF of 48-inch Parallel Interceptor Sewer to accommodate the additional flows downstream from the new Bush Creek force mains.

Phase 3. Rehabilitation of 4,200 LF of the existing 30-inch diameter, Bush Creek force main by slip-lining and modifying the connections to allow the existing system to operate without interruption or restrictions.

Force Main and Interceptor Challenges

The force main crosses two riparian areas with directional drilling. At the Bush Creek station, there was very little area available for the concurrent tasks of the PS rehabilitation and the force main installation. The first segment exits along Pulaski Hwy and though the county has suggested a staging area, there wasn't room to set up as a push.

After the transition to the open cut DIP segment, the contract proceeded off the shoulder of Pulaski Hwy which presented tight working site with traffic conditions. In addition, there were residential and businesses that the contractor

Client

Harford County, MD

Client Contact

Steven D. Schulz, PE
Civil Engineer III
(O) 410.638.3300 ext 1474
(C) 443.838.2352
sdschulz@harfordcountymd.gov

Completion Date

Ongoing

Total Constructed Value

\$30M

Key Personnel

David Morgan
Vicki Lehr
Chris Matthews
Tina Laird
Patel Bhadrash
Chris Remme

Relevancy

- Construction Management and Field Inspection
- Estimating/Change Management/Claims
- Reviews (Design Reviews, Submittals, RFIs, Payment Applications, Permit Applications)
- Schedule Reviews
- Confirm Record Drawings
- Providing or Supervising Field Inspection Staff
- Meeting Support
- Document Control (i.e., e-Builder)
- Survey Control
- Material Testing Coordination

needed to accommodate and maintain access.

8 On-Call Construction Management Assistance



Arcadis was selected to provide construction management and inspection (CMI) services to the City's Construction Management Division under a 3-year, \$9 million contract (#1303). The services provided included providing embedded staff, helping the City's Construction Management Department (CMD) analyze cost proposals and claims, analyze and report on contractor CPM schedules, performing cost analysis on the various construction projects being executed in the City for compliance with financial and MBE/WBE requirements, and performing constructability reviews. This contract also included providing construction inspectors and CM supervisory staff for monitoring water and sewer replacement and repair.

Example projects include the following:

- **SC 875 – Inspections of the Rehabilitation of Southwest Diversion Pressure/Gravity Sewer – Phase III.** This project included CIPP lining or alternative structural repair of 78-in. diameter RCP gravity sewer; 2,140 linear feet (LF) of carbon fiber reinforced polymer (CFRP) structural repair of a 78-in. diameter prestressed concrete cylinder pipe (PCCP) pressure sewer; and the installation of permanent access structures, in locations where the existing 78-in. diameter gravity or pressure sewer was removed to

accommodate the rehabilitation of the 78-in. diameter sewer. The project also included associated bypass pumping and control of flows along with continuous monitoring of bypass operations.

- **SC 932 – Inspections of the Improvements to Lower Gwynns Run Interceptor Phase II (From Franklin street).** The project included extending a section of the Lower Gwynns Run Interceptor (LGRI) sanitary sewer in the west Baltimore Region of the High Level Sewershed, which included installation of approximately 2,550 LF of 30-inch interceptor sanitary sewer, 48 to 60-inch steel casing, access manholes, Bellmouth structure, bypass pumping as necessary, and all associated work.

Client

City of Baltimore

Client Contact

Romona Harry
DPW, Construction Management
Department
410.396.3428

Completion Date

2018

Total Constructed Value

>\$100M

Key Personnel

David Morgan
Chris Remme
Vicki Lehr
Chris Matthews

Relevancy

- Construction Management
- Inspection
- Cost Estimating
- Scheduling
- Constructability Reviews
- QA/QC
- Submittal Reviews
- Contractor Invoice Reviews
- Change Order Management
- Data Management
- Community Outreach
- BOA/Task Order Contract

9 Water and Sewer Pipe Replacement Program (CM4E)



Arcadis is providing construction management and related engineering services for the management of multiple construction contracts construction cost of in excess of approximately \$75M over a period of seven (7) years. This Contract was task ordered based and Arcadis developed and managed twelve (12) task orders and three (3) supplemental agreements. This Contract provided Construction Management services for several key DC Water facilities such the rehabilitation of the Fort Stanton Reservoir, Brentwood Reservoir and the Bryant Street Pump Station. Arcadis also managed the construction of the 2-million-gallon St. Elizabeth's Water and installation of 4,000 LF of new water mains.

Services required will be provided throughout DC Water's water distribution and sewer collection service areas and includes the following, but are not limited thereto:

- Design reviews including biddability, constructability, cost estimates and schedules
- Assistance during the bidding phase
- Office engineering including review of all shop drawings, schedules, and other construction contractor submittals
- Preparation and negotiation of change orders, task orders, agreements

- Resident engineering and inspection services
- Quality assurance and quality control plan/program
- Material testing
- Claims avoidance, analysis, and resolution
- Inter-agency, intra-agency, utility coordination and public relations program support
- EPA grant closeout
- Coordinate & conduct meetings for program projects, operational interface
- Other services reasonably necessary to complete the work.

The following projects were managed during this DC Water contract:

- Rehabilitation of Fort Stanton No. 1 Reservoir
- Rehabilitation of Brentwood and Fort Stanton No. 2 Reservoir
- G-100 Local Sewer Rehabilitation 1
- Pope Branch Stream Restoration Project
- St. Elizabeth Water Tower
- Claims Support for MD Potomac Interceptor (PI) Odor Control
- Local Area Trunk Sewer Rehabilitation
- Sewers Under Buildings Sewer Rehabilitation-Phase 2
- SDWM #12A
- SDWM Replacement Bloomingdale

Client

District of Columbia Water and Sewer Authority (DC Water)

Client Contact

Deidre Saunders
 Manager, Construction Branch
 202.787.7614
 Deidre.Saunders@dcwater.com

Completion Date

2014 - 2023

Total Constructed Value

\$75M

Key Personnel

Vicki Lehr
 Chris Remme
 Chris Matthews
 Bhadrash Patel
 Scott Stangle

Relevancy

- Construction Management
- Inspection
- Design Reviews
- Constructability Reviews
- Cost Estimating
- Project Controls
- Scheduling
- Shop Drawing Review
- QA/QC
- Submittal Reviews
- Contractor Invoice Reviews
- Change Orders
- Data Management
- Community Outreach
- BOA/Task Order Contract with DC Water

- Anacostia 2nd High Residential PRV Installation
- 4th High West Residential PRV Installation
- B Street/NJ Avenue Trunk Sewer Rehabilitation
- LSR Program Support
- Rehabilitation of the Upper Potomac Interceptor (UPI)

10 Tunnel Dewatering Pump Station and Enhanced Clarification Facility

Arcadis provided construction management services for the Tunnel Dewatering and Enhanced Clarification Facility at the Blue Plains Advanced Wastewater Treatment Plant (AWTP) in the District of Columbia. As part of the \$2 billion Clean Rivers project to reduce combined sewer overflows into the district's waterways, DC Water constructed a pump station with capacity to dewater its 23-foot-diameter combined sewer storage tunnel. The project also involved construction of a treatment system for the

flows from the tunnel to attain near secondary standards before discharging to the Potomac River or combining with primary effluent for full treatment at the Blue Plains AWTP. Of this \$215 million design build contract, the pump station consisted of a tunnel dewatering pump station and the enhanced clarification facility. The pump station was constructed within the tunnel main shaft, which is 132-feet in diameter and 160-feet deep. The initial pumping capacity is 250 mgd, expandable to 500 mgd with the addition of more pumps. The enhanced clarification process included fine screens, vortex grit removal, an Actiflo ballasted flocculation process, and chlorination/dechlorination.

Arcadis' scope of services included contract administration, design management and review, field office engineering, change management, resident engineering and inspections, site logistics coordination, quality assurance, material testing, claims management, start-up commissioning coordination, and United States Environmental Protection Agency grant closeouts. The design-build contract was signed in August 2013.



This design/build project consisted of:

- Deep well pump station of 160 feet below grade
- Installation of 5, 3,000 hp pumps, capable of delivering 80 million gallons per day each, with expansion up to one million gallons per day
- Enhanced clarification system with 5 trains of fines screens
- 3 grit removal systems
- 3 high-rate clarifiers using sand ballast to assist in waist removal
- Two trains of chlorine contact tanks
- Upgrades to existing plant chemical delivery were also included, consisting of ferric chloride, disinfection, dechlorination and polymer
- New plant substation
- Instrumentation and controls were integrated into the campus distributed control system
- Approximately 4,000 new control points were added to the Plant DCS system.

Client

District of Columbia Water and Sewer Authority (DC Water)

Client Contact

Deidre Saunders
Manager, Construction Branch
202.787.7614
Deidre.Saunders@dcwater.com

Completion Date

2014 - 2023

Total Constructed Value

\$206M

Key Personnel

Bhadrash Patel
Chris Matthews
Chris Remme
Vicki Lehr

Relevancy

- Construction Management
- Inspection
- Cost Estimating
- Scheduling
- Constructability Reviews
- Project Controls
- QA/QC
- Submittal Reviews
- Contractor Invoice Reviews
- Change Orders
- Data Management
- Community Outreach
- Alternative Project Delivery Support



Section 4.2.4.

Qualifications of the Project Team



You will benefit from...

...our unmatched ability to provide a **highly-qualified team** that *knows your system, standards, & processes, & has the depth & flexibility to respond* when needed, be it planned activities or an emergency situation.



David Morgan, NASSCO Construction Manager

David Morgan is a Construction Project Manager / Inspector with nearly 40 years of experience in the utilities field. His areas of expertise include construction/project management, inspections, planning, scheduling, claims analysis and project controls. He has a proven ability to manage simultaneous demands efficiently. His responsibilities have included Construction management and Inspection on behalf of the Client for pipeline installations, treatment plant expansions, civil works, electrical and mechanical installations.

NASSCO Certified, David will bring his expertise in large diameter pipeline installations to this project. A leader and problem solver known for his collaborative work style, David will be the primary Point of Contact for the City, working on-site managing the construction contract to ensure the City receives the full value from the constructor.

Lia Dombroski, EIT Inspector



Lia has 7 years of civil and environmental engineering experience serving municipal and governmental clients in the water and wastewater industry. She has a background in engineering design and construction of transmission, distribution, collection, and pumping systems involving project planning, permitting, construction management, community engagement, and quality assurance. Her strengths in construction management include communication, organization, documentation, maintaining site safety, and implementing project controls.

Lia most recently served as the lead inspector for the City of Fort Lauderdale A-16 Pump Station Relocation project. She is very familiar with the City's requirements including environmental protection controls, using the appropriate MOT, the authorization procedures for night and weekend work, and maintaining communications with the City's Operations and Maintenance staff.

For this project, Lia will be an inspector on-site in the field, applying lessons learned from the A-16 project.



Garth White Inspector

Garth has more than 22 years of experience specializing in civil and mechanical engineering disciplines, with a focus on construction management and oversight. His experience includes construction management and inspection, operations monitoring, cost estimating, and trend analysis for large industrial facilities and infrastructure improvement projects throughout Florida and has served in many roles on a variety of water and wastewater projects. Recent experience includes the replacement of large diameter water transmission mains, watermain and force main aerial crossings including site restoration, trenchless pipeline restoration/replacement, water/wastewater treatment plant rehabilitation, installation of production wells and deep injection wells, installation of above grade and underground high voltage and medium voltage cables, and paving/drainage projects.

Garth also recently served as an inspector on the City's A-16 Pump Station Relocation project, which was constructed through a Design-Build contract vehicle. For this project, Garth will be serving as an on-site inspector.

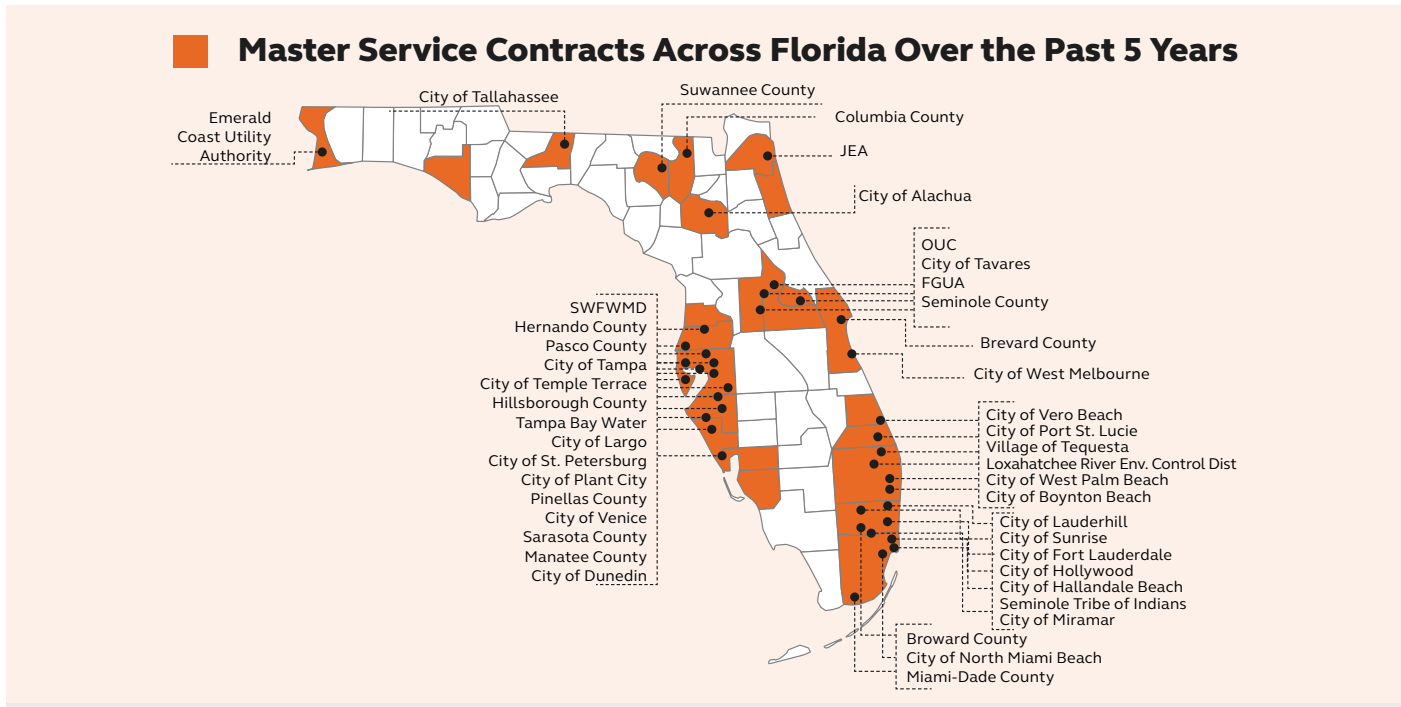
Jose Custodio, PE Pipeline Technical Advisor



Jose has more than 15 years of experience in utilities engineering, including design, management and construction administration. He has served as design engineer for various trenchless design projects in the City of Fort Lauderdale, including the Central River 20" WM crossing and the Coral Shores watermains improvements. In addition, Jose was the City's project manager for the first 2 Consent Order projects, the 30-inch Force Main A-Repump Station to GTL (Compression Fit Rehabilitation and HDD) and Las Olas Blvd. 12" FM replacement (pipe bursting) and is very familiar with trenchless rehabilitation methods and the requirements of the existing FDEP Consent Order.

4.2.4. Qualifications of the Project Team

Arcadis understands the importance of selecting the right individuals to work on the team that will deliver this project to you and our core philosophy as a firm is centered around “client focus”. Our goal is to present a team to you that combines the strongest of our local staff who are supported by the best and brightest technical experts from throughout the country. The result: A team led by staff based in Plantation, FL, who are only minutes from you, who will be on-site daily, and who will serve as the City’s representative, acting as your eyes and ears in the delivery of this important project. That local team is backed by additional resources within Florida and nationally who are available to provide support in the event it is needed.



Organizational Chart of Proposed Key Personnel

Arcadis’ singular emphasis on client focus places your needs, visions, and objectives as the driver in everything we do. The people selected and the way we have structured our team for this proposal is based solidly upon our direct knowledge and experience of your preferences for how projects are delivered, your expectations of the quality of work you receive, and the degree of responsiveness and sophistication in the level of service we provide as your consultant. We include a highly experienced Construction Manager, David Morgan, who will be supported by local inspection staff, each with the requisite experience needed for this project. Our Construction Manager is already NASSCO certified and our inspection staff will hold NASSCO certifications prior to NTP. Lia Dombroski and Garth White are identified as key inspectors for this project, reporting directly to David.

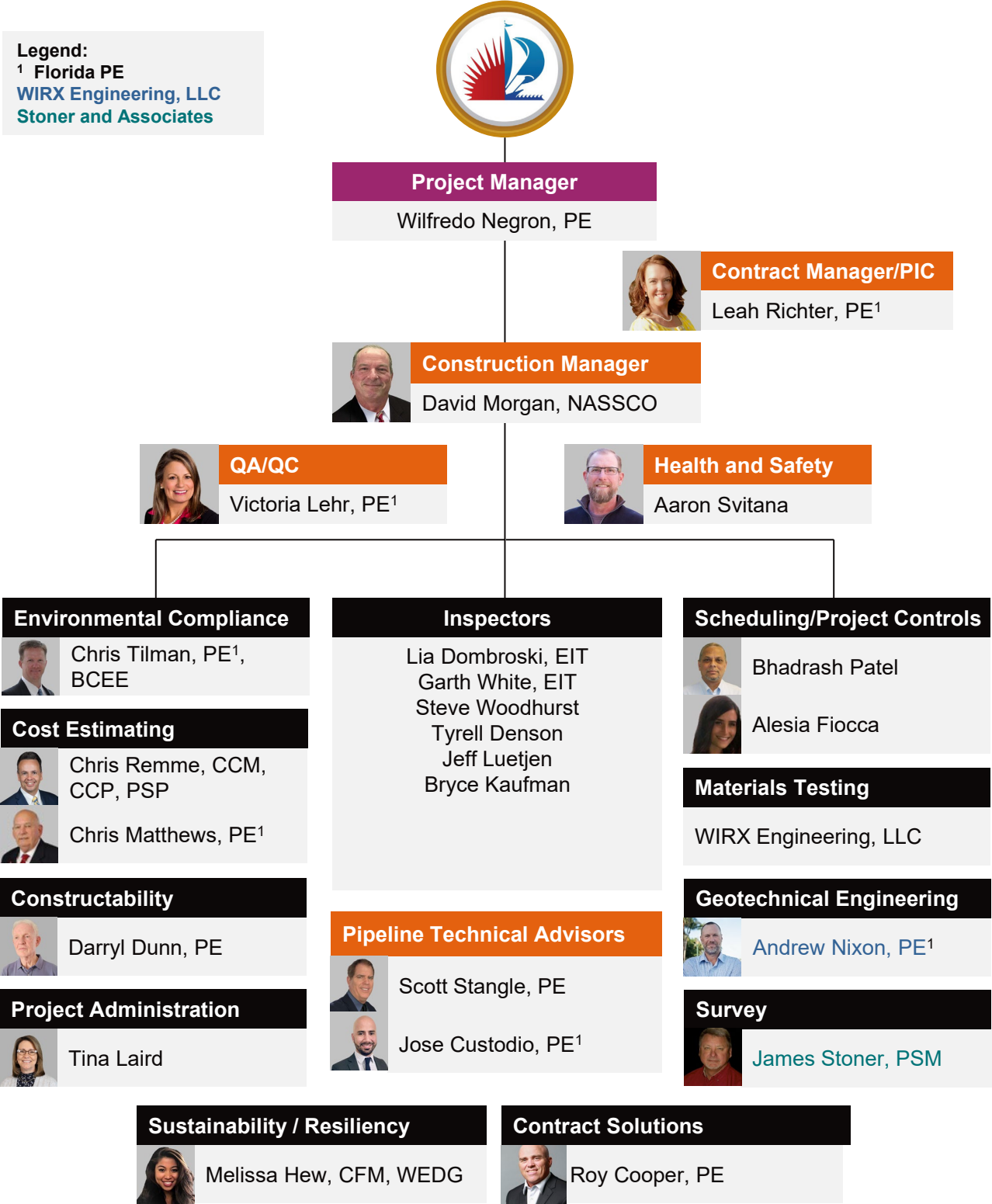


Just like any professional consultants, your project will be provided with personnel that will give the maximum benefits.

Additional inspection staff is identified on the Organizational Chart and these are resources who can be brought on board if there is an increase in construction activity that would require additional oversight or to fill in for Lia or Garth if needed. The CM/CEI team will be supported by our subconsultants and subject matter experts (SMEs) within Arcadis. The subconsultants are available to provide QA/QC in the areas of geotechnical engineering and surveying. The SMEs are experts in the areas of pipeline construction including CIPP, HDPE and trenchless technologies, project controls, cost estimating, claims avoidance, environmental compliance, estimating, constructability and sustainability.

Organizational Chart

Legend:
¹ Florida PE
 WIRX Engineering, LLC
 Stoner and Associates



The core team consisting of our contract manager and construction manager will be supported by a very accessible leadership team and technical experts. Brief bios of those individuals are included below.

Arcadis Key Personnel



David Morgan, NASSCO | Construction Manager

Mr. Morgan is a Construction Project Manager / Inspector with 40 years of experience in the utilities field. His areas of expertise include construction/project management, inspections, planning, scheduling, claims analysis and project controls. Mr. Morgan has a proven ability to manage simultaneous demands efficiently. His responsibilities have included Construction management and Inspection on behalf of the Client for pipeline installations, treatment plant expansions, civil works, electrical and mechanical installations.

NASSCO Certified, Mr. Morgan will bring his expertise in large diameter pipeline installations to this project. A leader and problem solver known for his collaborative work style, he will serve as the Construction Manager and be the primary Point of Contact for the City, working on-site managing the construction contract to ensure the City receives the full value from the constructor.



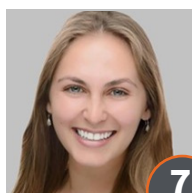
Leah Richter, PE | Contract Manager / Principal-in-Charge

Ms. Richter has a diverse 25 year background in program management, business advisory and financial consulting services and civil engineering. She specializes in assisting municipal clients in South Florida with managing their planning, operational and capital program needs. Her experience includes project management and delivery, vendor procurement, contract compliance, regulatory permitting, public outreach, annual reporting to bondholders/trustees, litigation support services, environmental compliance and operation and maintenance evaluation. She currently serves as the Principal-in-Charge for the City of Hollywood. She is also the Southeast Florida Operations Leader and is located in our Plantation office, just minutes from the City and available to provide a rapid response to any request. Ms. Richter will serve as the Contract Manager and Principal-in-Charge for this contract, making sure the required resources are available when needed and the City is happy with how the team is performing.



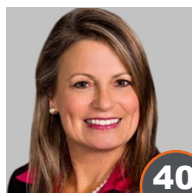
Garth White | Inspector

Mr. White has more than 22 years of experience specializing in civil and mechanical engineering disciplines, with a focus on construction management and oversight. His experience includes construction management and inspection, operations monitoring, cost estimating, and trend analysis for large industrial facilities and infrastructure improvement projects throughout Florida and has served in many roles on a variety of water and wastewater projects. Recent experience includes water/wastewater treatment plant rehabilitation, replacement of large diameter water transmission mains, watermain and force main aerial crossings including site restoration, trenchless pipeline restoration/replacement, and paving/drainage projects. Mr. White recently served as an inspector on the City's A-16 Pump Station Relocation project, which was constructed through a Design-Build contract vehicle. For this project, he will be serving as an on-site inspector.



Lia Dombroski | Inspector

Ms. Dombroski has 7 years of civil and environmental engineering experience serving municipal and government clients in the water and wastewater industry. She has assisted in planning, condition assessments of large-scale infrastructure including water and wastewater treatment and distribution systems, renewable energy facilities, and port facilities. She has also been heavily involved in planning efforts as well as report writing focusing on local legislation, capital improvement programs, financial obligations, as well as construction oversight, including water and wastewater conveyance systems, paving, drainage, and roadway design. Ms. Dombroski most recently served as the lead inspector for the City of Fort Lauderdale A-16 Pump Station Relocation project. She is very familiar with the City's requirements including environmental protection controls, using the appropriate MOT, the authorization procedures for night and weekend work, and maintaining communications with the City's Operations and Maintenance staff. For this project, Ms. Dombroski will be an inspector on-site in the field, applying lessons learned from the A-16 project.



Victoria Lehr, PE | QA/QC

Ms. Lehr has 40 years of experience managing federal, state, and local water resource and environmental restoration programs and projects. She has proven success at the executive level managing large, complex programs as both a client and consultant, including programs with extensive regulatory requirements. Ms. Lehr serves as the Area Leader for the Construction Management group for the South Region, which includes the Florida Area. In this position, Ms. Lehr is responsible for the oversight of our Construction Management services and providing the appropriate resources for our CM projects. She is involved with each CM project team, overseeing, and advising CM personnel and working hand-in-hand with clients, ensuring successful project delivery.

Arcadis Key Personnel



Aaron Svitana | Health and Safety

Mr. Svitana has over 25 years of client-focused professional experience throughout the U.S. managing large-scale remedial investigations and large-scale multi-million-dollar remedial construction projects as well as passionately stewarding a positive, proactive and effective health and safety culture for those projects and project teams. Currently, he serves as Arcadis Water Business Area H&S Director.

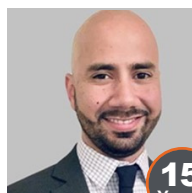
29
Years



Scott Stangle, PE | Pipeline Technical Advisor

Mr. Stangle is a Project Manager with 35 years of construction and engineering experience and over 14 years of water and wastewater design and construction experience. He has managed wastewater projects in major municipalities in Maryland, Virginia, Pennsylvania, and the District of Columbia that involved the replacement and rehabilitation of pump stations/force mains and collection system equipment including over 100,000 feet of sewer main, 5,000 manholes, and 10,000 lateral sewers/house connections. His experience with treatment plants, pump stations, and other collection and conveyance system equipment spans from design through construction to commissioning. As a contractor, he was the general manager to the Mid-Atlantic offices for both Insituform and Layne Inliner for six years. Most recently he has been the senior resident engineer on two DC Water sewer rehabilitation projects.

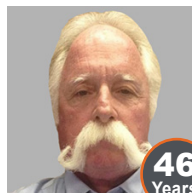
35
Years



Jose Custodio, PE | Pipeline Technical Advisor

Mr. Custodio is a professional engineer registered in the states of Florida and Puerto Rico, with background in utilities engineering and construction management. Work experience includes planning, design, procurement, construction management of several Capital Improvements Program (CIP) projects for different municipalities in the State of Florida and for the Puerto Rico Aqueduct and Sewer Authority (PRASA).

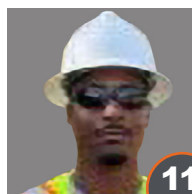
15
Years



Stephen Woodhurst | Inspector

Mr. Woodhurst has more than 45 years of technical and management experience in the quality assurance, inspection and engineering field, including surveillance of in-process and final manufacturing activities, site inspections, maintenance of construction schedules, construction inspection and construction management with specialization in water, wastewater and infrastructure projects. He has experience with project and construction management for a variety of infrastructure projects, all phases of site work, and the supervision of field personnel.

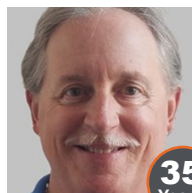
46
Years



Tyrell Denson | Inspector

Mr. Denson is an experienced utility inspector skilled in AS9100, ISO9001 and CMM programming and inspection. He is proficient in measuring components using manual measuring equipment and interpreting engineering drawings. Mr. Denson has strong problem-solving skills and ability to maintain high-quality standards in a subcontract environment.

11
Years



Jeff Luetjen | Inspector

Mr. Luetjen has 34 years of experience performing all types of utility project inspections, including water, wastewater, reclaimed water, stormwater, and roadway improvement type projects. Prior to joining Arcadis, Mr. Luetjen worked directly for the Sarasota County Utilities Department.

35
Years



Bryce Kaufman | Inspector

Mr. Kaufman has 35 years of experience performing all types of utility project inspections, including water, wastewater, reclaimed water, stormwater, and roadway improvement type projects. Prior to joining Arcadis, Mr. Kaufman worked directly for the City of Sarasota Utilities Department.

35
Years

Arcadis Key Personnel



26
Years

Chris Tilman, PE, BCEE | Environmental Compliance

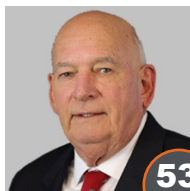
Mr. Tilman provides professional engineering and consulting services in several civil engineering disciplines. He specializes in assisting municipal and industrial clients in South and Central Florida with various site/civil infrastructure and permitting projects. His 26 years of experience includes project management and delivery, site/civil design, mathematical modeling, regulatory permitting and compliance, and operation and maintenance evaluations. Mr. Tilman currently serves as the Water and Wastewater Utility Technical Lead on the Miami Dade County Water and Sewer Department and works on several other civil engineering projects.



36
Years

Chris Remme, CCM, CCP, PSP | Cost Estimating

Mr. Remme has been a program and construction management professional for 36 years with experience in multi-project and capital improvement programs consisting of heavy/civil, water and wastewater facilities, transit and building projects throughout the United States. He is also a Certified Construction Manager (CCM) with the Construction Management Association of America (CMAA), and a Certified Cost Professional (CCP) and Planning and Scheduling Professional (PSP) with the Advancement of Cost Engineering International (ACEI). Experienced in various contract deliveries, such as design-bid-build, design build and Private Public Partnerships. Experienced in providing Critical Path Method (CPM) scheduling, budgets and cost estimating, and claims resolution services. Proven technical capabilities in value engineering, constructability reviews and quality control.



53
Years

Chris Matthews, PE | Cost Estimating

A licensed professional engineer and general contractor, Mr. Matthews has performed as a project manager, construction manager, and engineer of record for multiple public and private water infrastructure projects during his 50-year career. Mr. Matthews has worked for more than 20 years on the Engineers Joint Contract Documents Ye53 Committee and has served three times as the chairman. He is currently an ACEC Delegate to the EJCDC, a Life Aars Director of the Associated General Contractors of America and has held general contractor licenses in twelve states. Mr. Matthews is the Arcadis construction area manager for Florida and is therefore involved in all of our Florida projects including Sarasota County's SR45 UWHCA, Clark Road UWHCA, and the Center Road DIW MIT.



49
Years

Darryl Dunn, PE | Constructability

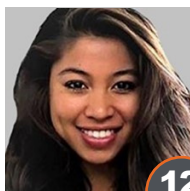
Mr. Dunn has a wide range of knowledge in the management and execution of construction projects for owners. He served as a Program & Project Construction Manager (PCM) for 24 years managing owner's pre-construction and construction phase projects primarily focused on water and wastewater projects including treatment plants, pump stations and pipelines. Prior to his Construction Management career, he spent 18 years in general engineering- planning, directing, and performing civil engineering and design work pertaining to new, improvement or renovation infrastructure projects including roadways, site plans, storm drainage and erosion control, buildings and structures, water and sewer utilities, pump stations and force mains, water and wastewater treatment plants.



29
Years

Tina Laird | Project Administration

Ms. Laird has 29 years of experience working in the construction industry as a professional Project Administrator, Assistant Project Manager and Certified Project Manager. She has worked for Nineteen years at Arcadis. This time included field assignments primarily on water and wastewater treatment facilities. For the past 16 years, she has assisted on multiple projects rotating between the different projects during each week. Her goal for each project is to provide the Client with superior program/construction management services. Ms. Laird is proficient in using Contract Manager software such as Orion, Oracle and Primavera. She supports the Project Managers, Construction Managers and Inspectors with several project control related tasks including invoicing, projects costs, project set up, contracts, subcontracts, construction documents of all types.



12
Years

Melissa Hew, CFM, WEDG | Resiliency/Sustainability

Ms. Hew is a senior consultant with Arcadis' urban and coastal resiliency practice, combining her technical background and leadership experience in the public sector for the City of Miami to provide robust project management and strategic advisory support to diverse clients. She has extensive experience in leading resilience planning and climate adaptation and mitigation projects and initiatives, partnership and capacity building, and equitable stakeholder engagement for projects and programs of all scales. She has been successful at managing and building relationships with internal and external stakeholders, community partners, elected officials, and residents to achieve strategic resilience goals. Her project experience includes the areas of watershed planning, vulnerability assessments, nature-based infrastructure, climate adaptation, sustainability, and environmental protection.

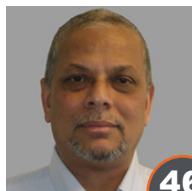
Arcadis Key Personnel



34
Years

Roy Cooper, PE | Contract Solutions

Mr. Cooper leads Arcadis's construction claims services in North America. He has more than 34 years of construction experience, including the analysis and review of complex construction claims from the beginning stages through trial support and expert testimony. He has led large-scale claims evaluation assignments of almost every type, including the evaluation of schedule impacts, cost impact analysis, mediation, and claims negotiation. He has also been qualified as an expert on both horizontal and vertical project types. Prior to joining Arcadis, he was a project superintendent and engineer on high-profile projects, several of which he was responsible for all aspects of construction.



46
Years

Bhadrash Patel | Scheduling/Project Controls

Mr. Patel has 46 years of experience in the field water and wastewater, airport engineering, chemical industry and highway engineering, urban roadway construction & planning and structural design. He serves in the role of project controls and planning lead and technical supports responsible for various work products, master schedules, capital improvement schedules, project schedule, time impact analysis, claims, cost estimator, contract administrator, network administration, document control (CM14) administration, contract administration and primavera project controls (P6) administration. He has a strong background in project controls and claims analysis in water, wastewater, environmental, chemical and transportation construction sectors.



5
Years

Alesia Fiocca | Scheduling/Project Controls

Ms. Fiocca is a Civil Engineer with expertise in underground utility design, marine and port engineering, cost estimating and project management using a variety of tools including AutoCAD Civil 3D, Autodesk Design Review, and ArcGIS.

WIRX Engineering and Construction LLC (WIRX)



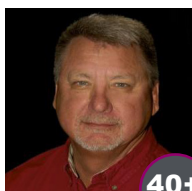
18
Year

Andrew Nixon, PE | Geotechnical Engineering

Mr. Nixon has 18 years of experience including providing Environmental, Geotechnical and Construction Materials Testing Services for low and high-rise structures, infrastructure, utilities, water and wastewater treatment plants, pump stations, bridges, piers, stormwater treatment areas, canal improvements, reservoirs and dams, roadways, etc. He prepares and reviews geotechnical and materials engineering inspection reports, coordinates and supervises engineering staff and drilling personnel, and conducts foundation observations, foundation design reviews and geotechnical instrumentation monitoring.

Mr. Nixon's skills include also completing and supervising pile inspections, helical pier inspections, fireproofing inspections, load tests, and monitoring specialty ground improvement techniques such as vibrocompaction, vibro-replacement and dynamic compaction. He has conducted and supervised several Preconstruction Video Surveys and Vibration Monitoring Programs.

Stoner & Associates, Inc. (Stoner)



40+
Years

James Stoner, PSM | Survey

Mr. Stoner is a second generation Land Surveyor, with more than 40 years of surveying experience in South Florida. He began his surveying career at Williams, Hatfield, & Stoner, Inc. working from the bottom as a Rodman, all the way up to Vice President of the Surveying Department. Mr. Stoner founded Stoner & Associates, Inc. in 1988, based on the philosophy that attention to detail and quality work would create a successful firm. He manages all aspects of the firm's growth and development.

Mr. Stoner has supervised both small and large scale surveying projects. His firm has successfully completed numerous roadway and other various projects, while working directly with the clients and consultants.



Resumes





David Morgan, NASSCO

Construction Manager

Mr. Morgan is a Construction Project Manager / Inspector with nearly 40 years of experience in the utilities field. His areas of expertise include construction/ project management, inspections, planning, scheduling, claims analysis and project controls. Mr. Morgan has a proven ability to manage simultaneous demands efficiently. His responsibilities have included Construction management and Inspection on behalf of the Client for pipeline installations, treatment plant expansions, civil works, electrical and mechanical installations.

NASSCO Certified, Mr. Morgan will bring his expertise in large diameter pipeline installations to this project. A leader and problem solver known for his collaborative work style, he will be the primary Point of Contact for the City, working on-site managing the construction contract to ensure the City receives the full value from the constructor.

Education/Qualifications

- Various treatment courses from University of Florida, Michigan State University, Broward CC, California State University
- Propulsion plant management, Boiler Technology & Theory
- Hazardous materials handling Pre-treatment Facility Inspection

Years of Experience

Total – 37

With Arcadis – 10

Professional Registration/ Certifications

Current Certifications

- ACI Concrete Testing Grade I Certified
- NASSCO (CIPP) Certified

Prior Certifications

- Maryland Grade 5AS WW Treatment Certificate
- Maryland Grade 2 Water Treatment Certificate
- North Carolina Grade 4 WW Treatment Certificate
- North Carolina Land Application Certificate
- North Carolina Collections Certificate I
- Florida Grade A WW Certificate
- ABC Grade 4 WW Certificate
- SCBA, CPR/First Aid Certified

Office Location

Plantation, FL

Relevant Experience

SR 527 Water Main & Electrical Improvements

Orlando Utilities Commission, Orlando, FL

Civil/Utility construction inspector for Orlando Utilities Commission on the State Road 527 Water Main and Electrical upgrades project. The project includes the installation of approximately 4400 ft of 16in WM and electrical duct bank and vaults along Orange Ave within Downtown Orlando, FL. HDD trenchless technology and HDPE pipe were used. Also responsible for project documentation and quality control. Orange Avenue is a busy FDOT owned corridor with high traffic volume, hospitals and businesses, which adds a level of complexity to the MOT and the construction sequence.

Baltimore City SC932 Sewer Improvements to Lower Gwynns Run Interceptor

City of Baltimore, Baltimore, MD

The project included extending a section of the Lower Gwynns Run Interceptor (LGRI) sanitary sewer in the west Baltimore Region of the High Level Sewershed, which included installation of approximately 2,550 LF of 30-inch interceptor sanitary sewer, 48 to 60-inch steel casing, access manholes, Bellmouth structure, bypass pumping as necessary, and all associated work.

Baltimore City SC875 - Inspections of the Rehabilitation of Southwest Diversion Pressure/Gravity Sewer

City of Baltimore, Baltimore, MD

This project included CIPP lining or alternative structural repair of 78-in. diameter RCP gravity sewer; 2,140 linear feet (LF) of carbon fiber reinforced polymer (CFRP) structural repair of a 78-in. diameter prestressed concrete cylinder pipe (PCCP) pressure sewer; and the installation of permanent access structures, in locations where the existing 78-in. diameter gravity or pressure sewer was removed to accommodate the rehabilitation of the 78-in. diameter sewer. The project also included associated bypass pumping and control of flows along with continuous monitoring of bypass operations.

Broward County Water/Wastewater Project

Broward County OE, Pompano Beach, FL

Chief plant operator of an 80 MGD activated sludge wastewater treatment plant. Directly responsible for all liquids processes control and Biosolids removal. Oversee 13 master pumping stations throughout Broward County. Write local, state, and federal reports. Responsible for troubleshooting and process control. Supervision, training, safety and direction of 15 personnel. Additional responsibilities included coordinating total plant shutdowns for plant expansion/construction, complaint investigations, coordinating equipment and manpower for Biosolids removal and disposal. Responsible for construction, operation and monitoring of the septage facility and biofilters. Chief liaison between operations and maintenance departments.

Fort Meade Water Reclaimed Water Project

Howard County, Bureau of Utilities, Fort Meade, MD

Mechanical/Utility Construction Inspector for a new 5 MGD reclaimed water pump station and a 1 MG elevated water storage tank including a Diversion Structure with SCADA integration, a new 24" Raw Water line and a 20" Transmission main.

Broadwater WRF Phase 2 Upgrade

Anne Arundel County, Department of Public Works, Churchton, MD

Construction Management for a \$5.5 million wastewater facility expansion/ upgrade project. Coordinate daily construction activities with Owner, Contractor, Engineers, and special inspectors. Maintenance of daily reports, measurements, calculations and computation of quantities. Ensuring conformance with contract documents and make recommendations to Project Manager concerning acceptance. Performance of daily inspection and documentation of construction activities, including those of subcontractor activities. Reviewing project schedules, schedules of shop drawing submittals and schedules of values prepared by Contractor including Applications of Payment, change orders and request for information; SCADA integration.

Pump Station Electrical Panel/SCADA Upgrades

Hillsborough County Public Utilities Department, Hillsborough County, FL

Field inspection, site layouts, design, TECO coordination, construction site inspection, startup, testing and troubleshooting, as-built sketches, asset management and closeout for a \$2.3 million SCADA upgrade to approximately 270 Countywide wastewater pumping stations. The work included the replacement of

existing control panels with single combination RTU/MCC control and the integration of the pump stations into the existing 220 MHz radio network and Supervisory Control and Data Acquisition (SCADA) system. In addition, some pump stations require additional civil, mechanical, and safety upgrades to bring them up to current industry standards.

Baltimore City WC1255 WC 1240 Water

City of Baltimore, Baltimore, MD

Civil/utility construction inspector for the Baltimore City WC 1255 and WC 1240 project water meter setting installations and water main replacement throughout various locations within Baltimore City.

Maryland City Water Reclamation Facility Expansion

Anne Arundel County, DPW, Maryland City, MD

Chief resident inspector on a \$30 million wastewater treatment expansion project. Utilize testing procedures, inspection protocols, construction techniques and perform QA on behalf of the owner. Observe, inspect and document construction work performed by others. Verify that all work is installed per contract requirements. Assist Resident Engineer or Construction Manager with contract administration activities. Read and analyze blueprints. SCADA integration of new equipment and processes.

Sod Run WWTP Biosolids Dewatering System Upgrade 2019

Hartford County, DPW, Aberdeen, MD

Chief resident inspector for a \$4.3 million Biosolids Dewatering Upgrade project. Provide inspection and documentation services on behalf of the owner. Coordinate daily construction activities with Owner, Contractor, Engineers, and special inspectors.

Gastonia Water/Wastewater Project

City of Gastonia, Gastonia, NC

Operator of responsible charge (ORC) of a 16 MGD BNR and back up ORC for a 6 and 4 MGD BNR wastewater treatment plants. Back up ORC for the biosolids disposal program. Directly responsible for all process control and plant compliance. Supervision, training and direction of 12 personnel. State/Federal Permitting. Write state and federal reports. Write standard operating procedures. Additional responsibilities include preparing a \$5 million operating budget, purchasing, maintenance oversight, facility safety coordinator. Emergency Operations Facility Coordinator and Executive Safety Committee panel member. Directly coordinate SCADA upgrades for the City's three wastewater treatment plants with the systems integrator.



The University of Texas at Arlington
Center for Underground Infrastructure Research
and Education (CUIRE)

This is to Certify That

David Morgan

Has Earned


13.5 Professional Development Hours (1.35 CEU's)

At

The National Association of Sewer Service Companies (NASSCO)
Inspector Training & Certification Program (ITCP)
For the Inspection of Cured-in-Place-Pipe (CIPP) Installations

Baltimore, MD

June 13, 2014



CUIRE Director

2014 NASSCO ED - 634



Leah Richter, PE

Contract Manager / Principal-in-Charge

Ms. Richter has a diverse background in civil engineering, program management, business advisory and financial consulting services. She specializes in assisting municipal clients in South Florida with managing their planning, operational and capital program needs. Her experience includes project management and delivery, vendor procurement, contract compliance, regulatory permitting, public outreach, annual reporting to bondholders/ trustees, litigation support services, environmental compliance and operation and maintenance evaluation. She serves as the Contract Manager or Principal in Charge for several contracts and projects with the City including General Water and Wastewater Professional Engineering Services and Lead and Copper Rule Revisions Compliance Program, as well as Project Manager for the Miami Dade County Water and Sewer Department Bond Engineering contract. Ms. Richter currently serves as Arcadis's Southeast Florida Operations Leader and is located in our Plantation office, just minutes from the City to provide rapid response to any request.

Education/Qualifications

- MS Civil Engineering Florida Atlantic University 2002
- BS Environmental Engineering University of Florida 1997
- Program Management, Academy - Leading Complexity University of Oxford - Said Business School

Years of Experience

Total – 25
With Arcadis – 25

Professional Registration/Certifications

- Professional Engineer – FL

Office Location

Plantation, FL

Relevant Experience

City of Fort Lauderdale: General Water and Wastewater Professional Engineering Services Continuing Contract

Fort Lauderdale, FL

Serves as Contract Manager for the full breadth of services Arcadis provides as the City's professional engineer for water and wastewater services throughout the City. Activities and projects to date have included High Service Pump Station BODR, 48/54" Finished Water Pipeline from Prospect to Fiveash Design/CM Services, and Lime Softening Residuals Evaluation.

City of Fort Lauderdale: Lead and Copper Rule Revision (LCRR) Compliance Program

Fort Lauderdale, FL

Serves as Project Officer supporting the City through the development of a Compliance Program that ensures all requirements are met in accordance with the LCRR. Activities include the development of the initial lead service line inventory and also the development of the necessary work plans for the LCRR Compliance Program that will capture the CITY's strategy for improved data management, public education and outreach, customer tap sampling, school/childcare facility sampling, corrosion control evaluation, and lead service line replacement.

City of Fort Lauderdale: Construction Engineering Inspection Services Contract

Fort Lauderdale, FL

Serves as Principal in Charge for the full breadth of services Arcadis provides under our CEI Services Contract for the City, including the near complete A-16 Pump Station replacement project. Arcadis has provided full time CEI services throughout the project which consists of replacement of the A-16 PS, as well as construction of new gravity sanitary sewer, forcemain, and watermain, implemented through a Design-Build delivery method.



Garth White, EIT

Inspector

Mr. White has more than 22 years of experience specializing in civil and mechanical engineering disciplines, with a focus on construction management and oversight. His experience includes construction management and inspection, operations monitoring, cost estimating, and trend analysis for large industrial facilities and infrastructure improvement projects throughout Florida and has served in many roles on a variety of water and wastewater projects. Recent experience includes water/wastewater treatment plant rehabilitation, installation of production wells and deep injection wells, installation of above grade and underground high voltage and medium voltage cables, replacement of large diameter water transmission mains, watermain and force main aerial crossings including site restoration, trenchless pipeline restoration/replacement, and paving/drainage projects.

Education/Qualifications

- BS, Mechanical Engineer, California State University

Years of Experience

Total – 22
With Arcadis – 19

Professional Registration/Certifications

- Engineer-in-Training (EIT)

Office Location

Plantation, FL

Relevant Experience

Pump Station A-16 Upgrades

City of Fort Lauderdale, Fort Lauderdale, FL

Lead inspector providing construction management services for the installation of approximately 2,000 LF of 30-inch HDPE watermain and 3,000 LF of 10-inch HDPE force main along SE 3rd Avenue. This project is part of the relocation of the A-16 Pump Station on SE 11th Street. The project includes two horizontal directional drilling (HDD) segments under the Tarpon River.

Escape and Valencia Force Main Pipe Bursting Improvements

City of Sunrise, FL

Construction management services related to the replacement of over 25,000 LF of aging potable polyvinyl chloride, asbestos-cement, and ductile iron water mains located in the Escape and Valencia residential neighborhood areas within the City's service area. The project also included installation of over 700 service saddles and connections to the existing residential water meters. The site restoration included installation of D curbs, roadway milling and resurfacing activities, new wheel stops and parking lot striping.

NW 44th Street/Pine Island Road Water Transmission Main Improvements

City of Sunrise Utilities Department, Sunrise, FL

Served as lead inspector and provided construction management services for the replacement of approximately 5,000 linear feet of 36-inch DIP water transmission main from NW 44th St to the Springtree Water Treatment Plant. This included several onsite design changes due to unforeseen conditions as a result of abandoned in-place utilities. The project activities also included close coordination with the State and County Regulatory agencies, City Utility Department and local residents. The final stage of construction activities included installation of WM/FM aerial crossing of C-13 canal, exfiltration trench on Springtree Drive, start-up of system, and roadway improvements. The roadway restoration consisted of backfilling and compacting the excavated trench with the appropriate lifts per the FDOT requirements. In addition, 13,000 square yards of asphalt milling and asphalt overlay was installed on two (2) lanes of high traffic roadway including 2,000 linear feet of F and D curbs.



Lia Dombroski, EIT

Inspector

Ms. Dombroski has 7 years of civil and environmental engineering experience serving municipal and government clients in the water and wastewater industry. She has a background in engineering design and construction of transmission, distribution, collection, and pumping systems involving project planning, permitting, construction management, community engagement, and quality assurance. She has led and conducted the condition assessments of large-scale infrastructure including water/wastewater treatment and distribution/collection systems, renewable energy facilities, and port facilities. She is experienced in report writing focusing on local legislation, regulatory requirements, technical evaluations, capital improvement programs, and financial obligations. Her strengths in construction management include communication, organization, documentation, maintaining site safety, and implementing project controls.

Education/Qualifications

- BS SUNY College of Environmental Science & Forestry Environmental Engineering

Years of Experience

Total – 7
With Arcadis – 7

Professional Registration/Certifications

- Engineering Intern – FL

Professional Associations

- Water Environment Federation (WEF)
- Florida Water Environment Association (FWEA)
- American Water Works Association (AWWA)

Office Location

Plantation, FL

Relevant Experience

Pump Station A-16 Upgrades

City of Fort Lauderdale, Fort Lauderdale, FL

Lead inspector of Construction Engineering and Inspection (CEI) services for the relocation of wastewater Pump Station A-16. Served as the City's representative for the design-build project involving the installation of approximately 1,200 LF of 30-inch HDPE water main and 2,200 LF of 10-inch HDPE force main along SE 3rd Avenue, the construction of a new submersible duplex wastewater pump station and gravity sewer system, as well as the abandonment of the existing pump station, gravity sewer, force main, and water mains. Oversaw all construction activities including installation of the two horizontal directional drilling (HDD) segments under the Tarpon River. Acted as an extension of the City's project management staff by monitoring construction activities, performing on-site inspections, and maintaining detailed accurate records of the contractor's daily operations. Implemented project controls in accordance with the plans, specifications, permits, and special provisions of the contract documents.

Nova Drive Water Main & Force Main Improvements

City of Sunrise, Sunrise, FL

Provided construction management services for the replacement of approximately 7,000 LF of water mains and approximately 5,000 LF of force mains ranging in size and material. Oversaw daily construction activities including the installation of new 12-inch DIP water mains and force mains, valves, hydrants, and service connections; the abandonment of the existing water and sanitary sewer systems and appurtenances; removal and replacement of aerial pipe crossings; roadway milling and resurfacing; and overall project site restoration. Coordinated closely with the City and contractor to provide conflict resolution and solutions to unforeseen field conditions. Reviewed and processed daily reports, shop drawings, requests for information, change orders, pay applications, record drawings, project closeout documentation, and other administrative and technical submittals throughout construction.

East Sunrise Water Main Improvements

City of Sunrise, Sunrise, FL

Provided construction oversight and engineering services for the installation of approximately 32,000 LF of 8-inch to 12-inch DIP water mains and appurtenances, including the abandonment of the existing water system, construction of drainage and roadway improvements, and project site restoration.



Victoria Lehr, PE

QA/QC

Ms. Lehr has 40 years of experience managing federal, state, and local water resource and environmental restoration programs and projects. She has proven success at the executive level managing large, complex programs as both a client and consultant, including programs with extensive regulatory requirements. Her responsibilities include the technical oversight, strategic planning, staffing, budget and schedule development and control, contract negotiation, and coordination with state and federal regulatory agencies. Ms. Lehr is highly experienced at building relationships, resolving conflicts, and obtaining stakeholder buy in. Ms. Lehr serves as the Area Leader for the Construction Management group for the South Region, which includes the Mid-Atlantic Area. In this position, Ms. Lehr is responsible for the oversight of our Construction Management services and providing the appropriate resources for our CM projects. She is involved with each CM project team, overseeing, and advising CM personnel and working hand-in-hand with clients, ensuring successful project delivery. Ms. Lehr's background includes the management of many environmental projects, including water and wastewater treatment facilities, major pipeline and pump station projects and environmental restoration programs.

Education/Qualifications

- BS, Mechanical Engineering, University of Florida, 1983

Years of Experience

Total – 40
With Arcadis – 5

Professional Registration/Certifications

- Professional Engineer – FL

Office Location

Plantation, FL

Relevant Experience

Pump Station A-16 Upgrades

City of Fort Lauderdale, Fort Lauderdale, FL

Arcadis is providing the construction inspection services for the installation of approximately 2,000 LF of 30-inch HDPE watermain and 3,000 LF of 10-inch HDPE force main along SE 3rd Avenue. This project is part of the relocation of the A-16 Pump Station on SE 11th Street. The project includes two horizontal directional drilling (HDD) segments under the Tarpon River. Ms. Lehr served as the Arcadis project principal.

SR45 (US41) Improvements

Sarasota County, FL

Sarasota County entered into a Utility Work by Highway Contractor Agreement (UWHCA) with the Florida Department of Transportation (FDOT) for improvements to SR45. Arcadis provided design, permitting, administration and inspection services during construction. Arcadis was able to assist the County in meeting the stringent FDOT schedule during design and construction, working closely with the County and FDOT when unforeseen conditions were encountered. The design included trenchless construction through horizontal directional drilling (HDD) of portions of the existing mains. Overall, the close coordination allowed the project to realize \$100k in savings to the County.

On-Call Project and Construction Management Assistance

Anne Arundel County, MD

Principal for Anne Arundel County's Construction Management/Inspection (CMI) Phase 3 Open-End Water/Wastewater Services Contracts and Phase 4 Open-End Water Services Contract. These service contracts are valued at ~\$1.5M/year and include scheduled and emergency work. The capital improvement tasks occur throughout the County service area and include horizontal directional drilled piping, cured-in-place-pipe (CIPP) lining, cement and other lining of pipe, replacement of water mains, air release valves, and other appurtenances and the evaluation and replacement of bonnet bolts. As Principal, Ms. Lehr works with the Arcadis Project Managers to assure the correct staff and resources are available to execute the work. She is available to the County Project Managers and Management to address and resolve issues which may arise on the projects that are not able to be handled at a lower level.



Aaron Svitana

Health and Safety

Mr. Svitana has over 25 years of client-focused professional experience throughout the U.S. managing large-scale remedial investigations and large-scale multi-million-dollar remedial construction projects as well as passionately stewarding a positive, proactive and effective health and safety culture for those projects and project teams.

Currently, he serves as Arcadis Water Business Area H&S Director. He has also served as the Arcadis Health & Safety Coordinator for two multi-national Oil & Gas (O&G) and one multi-national chemical market sector client teams helping ensure uniform implementation of OE and HES processes across the accounts and stewarding and delivering incident free operations (IFO).

Education/Qualifications

- BS, Geoscience, Franklin and Marshall College, 1992

Years of Experience

Total – 29

With Arcadis – 20

Office Location

Reno, NV

Relevant Experience

H&S, Client and Operations Management Experience

Arcadis Client Account Team H&S Coordinator

Primary account team H&S leader responsible for overall account team H&S performance. Performs semi-autonomously under the lead of the Global or National Account Leader to achieve Arcadis and client-required goals and metrics. Typical responsibilities include:

- Visible and active stewardship of Arcadis and client H&S culture
- Identification, development and mentoring of account-specific H&S support team fluent in client and ANA H&S requirements; teams range in size from 2-10
- Perform gap analysis of client-specific requirements and ANA standards, develop client-team specific standards to address gaps and develop/deploy training and competency programs
- Identify opportunities for digital innovation and collaborate with internal account team and digital enablement resources to develop and deploy tools
- Collaborate with Corporate H&S resources to incorporate lessons learned and best practices from account team and apply to ANA standards or processes and vice versa
- Primary point of contact with client leadership for H&S matters
- Regularly participate and present at client-hosted conferences and forums
- Participate in client-sponsored workshops and/or committees for the development of client-specific programs/processes
- Conducts and/or facilitates internal audits and assessments and provides lead support of external client audits
- Develops annual and periodic performance metrics and focus areas and drives the communication campaign and implementation of those metrics/programs
- Supports business development and other client-facing initiatives
- Leads safety meetings and stand ups/stand downs
- Participates in or facilitates loss/near loss investigations
- Reviews H&S data and metrics and develops action plans and initiatives based on data trends and analysis
- Develops and manages programmatic H&S budgeting



Scott Stangle, PE

Pipeline Technical Advisor

Scott Stangle, PE, CCM, has over 35 years of experience in the construction industry, where he has focused his talents on horizontal assets, predominately on pipeline and sewer installations and rehabilitations. Earning his degree at the U.S. Military Academy in Westpoint, NY, Scott has served as the responsible-in-charge engineer, contractor and/or project manager for over 270,000 feet of sewer main, 5,700 manholes, and 11,000 lateral sewer/house connections. He has extensive experience with HDPE piping, CIPP lining and Geo Polymer systems. His experience with treatment plants, pump stations and other collection and conveyance system equipment spans from design through construction to commissioning. For this project he will be available to the team in an advisory capacity in pipeline installations.

Education/Qualifications

- MBA, Management, Golden Gate University
- BS, U.S. Military Academy

Years of Experience

Total – 35
With Arcadis – 9

Professional Registrations/ Certifications

- Professional Engineer - DC, MD, VA
- Certified Construction Manager (CCM)
- OSHA Confined Space Trained
- OSHA 30-hour Construction Industry Outreach Training
- NASSCO - PACP, MACP, LACP

Office Location

Hanover, MD

Relevant Experience

DC Water Low Area Trunk Sewer Rehabilitation

Washington, DC

Mr. Stangle was the senior construction manager for the LATS project which included bypass setup and operation and rehabilitation of approximately 12,000 lf of 30-42 inch sewer mains and 33 manholes using CIPP and Geopolymer lining. Numerous HDPE bypass setups were required in the AOC secure area and in critical stakeholder areas such as the FBI, DOJ and City Hall. These setups were required to bypass main line flow as well as large lateral sidelines in order to facilitate CIPP lining as well as Geopolymer lining.

DC Water B St/New Jersey Ave Trunk Sewer Rehab and Cleaning Ph 1

Washington, DC

Mr. Stangle was the senior construction manager for the The B Street/New Jersey Avenue Trunk Sewer Rehab project that included rehabilitation of 4,350 lf of 10 to 18-foot-wide, arched, brick and concrete tunnels and associated manholes using geopolymer lining. The trunk sewer is located beneath the National Mall and Capitol building in Washington DC which required extensive communication and coordination with the Capitol Police, National Park Service and the Architect of the Capitol. The project work was located in several areas of Washington DC and required extensive coordination between all property owners, contractors and other agencies. Mr. Stangle provided submittal review, RFI and change order management, QA/QC, field inspection oversight, schedule management, contractor invoice management, risk management and project close-out services. He also conducted the bi-weekly project status meetings, documented the results in meeting minutes and tracked all project action items. The project was completed on schedule with less than 1 percent change orders.

Local Sewer Rehabilitation G100, DC Water

Washington, DC

Mr. Stangle served as the senior RE responsible for construction management and inspection services for rehabilitation of sanitary sewer, combined sewer and stormwater pipes and manholes at various locations in the district. Repairs include rehabilitation of approximately 15,000 LF of CIPP in various sizes; rehabilitation of lateral connections; rehabilitation of approximately 140 manholes using various rehabilitation methods; and installation of approximately six new manholes. As senior RE, responsible for technical and management services including submittal and RFI review, field inspection and inspection oversight participation in project review meetings, change order management, contractor invoice management, and project closeout support. The project is complete.



Jose Custodio, PE

Pipeline Technical Lead

Mr. Custodio is a professional engineer registered in the states of Florida and Puerto Rico, with background in utilities engineering and construction management. Work experience includes planning, design, procurement, construction management of several Capital Improvements Program (CIP) projects for different municipalities in the State of Florida and for the Puerto Rico Aqueduct and Sewer Authority (PRASA).

Education/Qualifications

- ME, Construction Engineering, Polytechnic University of PR, 2013
- BS, Civil Engineering, Polytechnic University of PR, 2010

Years of Experience

Total – 15
With Arcadis – 4

Professional Registration/ Certifications

- Professional Engineer – FL, PR
- OSHA – 30 Hrs. Construction Industry
- Florida Department of Environmental Protection Agency (FDEP) – Qualified Stormwater Management Inspector
- American Water Works Association

Office Location

Plantation, FL

Relevant Experience

Consent Order Project - 30-inch Force Main A-Repump Station to GTL Wastewater Treatment Plant

City of Fort Lauderdale, FL

Design-Build Project – Responsible of managing the design and performed construction management of the project through final completion and close-out to comply with the FDEP Consent Order deadline and avoiding penalty fees to the City. Project consisted of the trenchless repair/rehabilitation of approximately 20,000 LF of 30-inch diameter force main located along the Fort Lauderdale Downtown area. In addition to the typical open-cut installation, various trenchless methods were used like horizontal directional drilling and compression fit. The construction cost of the project was \$15,500,000.

Consent Order Project - East Las Olas Blvd 12-inch Force Main Replacement – Pipe Bursting

City of Fort Lauderdale, FL

Design-Build Project - Responsible of managing the construction of the project through final completion and close out to comply with the FDEP Consent Order deadline and avoiding penalties fees for the City. Project consisted of the replacement of approximately 2,300 LF of 12-inch diameter force main with a 16-inch diameter HDPE force main along Las Olas Blvd corridor. Along with the open-cut method, the trenchless method of pipe bursting was used for this project. The construction cost of the project was \$1,350,000.

PRWC Southeast Wellfield and Water Production Transmission Main (Segment 3)

Polk County, FL

CMAR Project - Responsible for the 60% design of approximately 6 miles of a DIP/HDPE water transmission line near Lake Hamilton. The diameter of the new main is 30-inch and is part of the program to identify new water sources for the Water Cooperative.

Central New River Water Main Crossing

City of Fort Lauderdale, FL

Design-Build Project – Responsible for the design of approximately 600 LF of a 20-inch subaqueous water main crossing under the New River Canal in Downtown Fort Lauderdale using Horizontal Directional Drilling. The project required permits from USACE, FDEP and Broward County.



Stephen Woodhurst

Inspector

Mr. Woodhurst has more than 45 years of technical and management experience in the quality assurance, inspection and engineering field, including surveillance of in-process and final manufacturing activities, site inspections, maintenance of construction schedules, construction inspection and construction management with specialization in water, wastewater and infrastructure projects. He has experience with project and construction management for a variety of infrastructure projects, all phases of site work, and the supervision of field personnel.

Mr. Woodhurst's wide range of project activity experience includes direct interaction with the contractor representing the owner to assure compliance with contract documents, supervision of the site inspection team, documentation of daily activities through daily reports, review of contractor quality control documents, management and review of submittals, communication and coordination with owner, observation of contractor performed quality control testing, ordering and observation of any quality assurance testing, providing owner or contractor notice of non-conformance, environmental compliance monitoring, and the monitoring of health and safety practices by both the contractor and on site CMS staff. He is experienced in the application of a wide range of testing and quality standards (ASTM, ASME, AWWA, etc). He has experience with CM tools such as Primavera Contract Manager, ConstructionWise, and Orion.

Relevant Experience

SR 527 - S. Orange Avenue Improvements

Orlando Utilities Commission, Orlando, FL

Duties include Construction Management, supervision of a Construction Inspection staff, interaction with a General Contractor, and the Client for infrastructure improvements along SR 527 in downtown Orlando. The scope of this work includes the installation, disinfection and commissioning of 20", 16", 12" and smaller water main piping, to include service connections. Electrical Improvements include various medium voltage distribution electrical duct banks with conduits of varying quantities, sizes and lengths, splicing manholes, and branch out electrical duct banks. Monitoring of MOT and developing "Public Outreach" notifications for lane shifts, detours, etc. The Project provided streetscaping along a specified portion of SR 527.

Education/Qualifications

- Basic Electricity, Prince George's Community College
- Drafting Courses, Northern Virginia Community College

Years of Experience

Total – 46

With Arcadis – 14

Professional Registrations/ Certifications

- Certified Construction Inspector (American Construction Inspector's Assoc. (ACIA), Div. I – Engineering and Div. IV – Public Works)
- Erosion & Sediment Control Certification – MD
- Certification for Confined Space (OSHA)

Office Location

Orlando, FL

Patuxent Water Reclamation Facility Enhanced Nutrient Reduction Expansion

City of Crofton, Crofton, MD

Duties include Construction Management, supervision of full-time Construction Inspectors, and interaction with the General Contractor and Client on this \$44 million capital project. Project includes construction of a new headworks facility, Influent pump station, oxidation ditch, secondary clarifier, denitrification filters, ultraviolet disinfection, along with miscellaneous upgrades to the existing process, electrical and control systems. Roadways included new base and pavement, milling and re-pavement as well as new permeable pavement. Responsibilities of the team included materials inspection, and material testing of soils compaction, asphalt placement and compaction, and piping under pavements.



Tyrell Denson

Inspector

Experienced utility inspector skilled in AS9100, ISO9001 and CMM programming and inspection. Proficient in measuring components using manual measuring equipment and interpreting engineering drawings. Strong problem-solving skills and ability to maintain high-quality standards in a subcontract environment.

Education/Qualifications

- BS, Warner University, Lake Wales, FL, 2013

Years of Experience

Total – 11
With Arcadis – <1

Office Location

Orlando, FL

Relevant Experience

Senior Utility Inspector

City of Cocoa, FL

Mr. Denson performs field inspection independently and multiple project coordination of new and existing water, wastewater, and reclaim projects. He effectively communicates the City of Cocoa Utilities' technical standards. Mr. Denson performs duties such as holding progress meetings, verifying contractor has necessary paperwork, permits, and paid required fees to begin work. He coordinates activities directly with other utilities and contractors; Keeps accurate daily inspection report logs. Mr. Denson acts as a liaison between the City of Cocoa Utilities and contractors. He performs other related job duties as assigned and is aware and open to change and responsive to adjusting goals, priorities and needs per Phase of each Project. Mr. Denson is assertive with contractors on following Standard with New Construction Utility Installations.

Utility Mechanic

City of Cocoa Beach, FL

Mr. Denson performed skilled work in the maintenance and repair of machinery and equipment at the City's wastewater treatment plant and lift stations. This included but not limited to WWTP, lift stations, collection and reuse distribution system. He obtained and maintained the TWIC credential. Mr. Denson worked on preventative maintenance and maintained records of work performed and supplies consumed. He also assisted various utility crews in repair projects. Mr. Denson prioritized observance of safety regulations pertaining to tools, machinery, vehicles and work areas. He operated utility/construction equipment utilized in the department including bobcat, boom truck, tandem dump truck, Vac-Con etc. He also performed ground maintenance, janitorial work, carpentry, cement work and painting as needed.



Jeff Luetjen

Inspector

Mr. Luetjen has over 36 years of experience performing all types of utility project inspections, including water, wastewater, reclaimed water, stormwater, and roadway improvement type projects. Prior to joining Arcadis, Mr. Luetjen worked directly for the Sarasota County Utilities Department.

Education/Qualifications

- High School Diploma

Years of Experience

Total – 35
With Arcadis – 2

Professional Registration/ Certifications

- Advanced Maintenance of Traffic
- Earthworks Level 1 and 2
- Concentrated Course in Construction Contracts
- Practical Construction Law
- Asphalt Inspection / Maintenance
- Bloodborne Pathogens
- Pipeline Installation
- Kennedy Valve Product Seminar
- Trenching and Excavation Safety
- Introduction to Blueprint Reading

Office Location

Sarasota, FL

Relevant Experience

Construction Phase

Support Services for Water Main Replacement

City of Tampa / Tampa, FL

City of Tampa Construction Phase Support Services for Water Main Replacement project for the Water Department. Full-time Senior Inspector to support the City of Tampa CAD CMD Team for approximately six months. Inspection services included: daily site inspections confirming work was in compliance with City standards; daily reports; and measurement for payment of work-in-place during installation of new valves and fire hydrants throughout the City of Tampa area by Dallas 1.

Cocoanut Avenue Force Main Replacement Project

City of Sarasota / Sarasota, FL

Cocoanut Avenue Force Main Replacement Project for the City of Sarasota, FL. Project involved installation of over 10,000 feet of 24-inch force main, including 5,000 feet by HDD, as well as construction sequencing through downtown Sarasota to accommodate activity schedules, railroad crossing design, and trenchless installation on the wastewater treatment facility to connect the new force main to the headworks. Phase I which has been completed consists of 405 feet of 36-foot steel casing with 1040-foot of 24-inch C-905 PVC FM installed through the casing and direct bury and 1310 feet of 30-inch DR-11 HDPE installed by HDD.

Kings Point Potable Water Valve Replacement and Installation Project

County of Hillsborough / Hillsborough, FL

Kings Point Potable Water Valve Replacement and Installation Project for the County of Hillsborough, FL. Inspection services included: performing daily site inspections; confirmation of work completed in compliance with County standards; daily reports; and measurement for payment of work-in-place during the installation of 116 new/replacement valves and 15 fire hydrant replacements.

South Pasco Caustic

Tampa Bay Water / Tampa, FL

Mr. Luetjen will be performing pre-construction reviews.



Bryce Kaufman

Inspector

Mr. Kaufman has 35 years of experience performing all types of utility project inspections, including water, wastewater, reclaimed water, stormwater, and roadway improvement type projects. Prior to joining Arcadis, Mr. Kaufman worked directly for the City of Sarasota Utilities Department.

Education/Qualifications

- Associate in Arts Manatee Junior College 1983
- High School Degree Sarasota High School 1981

Years of Experience

Total – 35
With Arcadis – 2

Professional Registration/Certifications

- Stormwater Management Inspector
- Intermediate MOT Certification
- FDEP Level 1(A) Distribution System Operator, License # 0015740
- FDEP Level A Wastewater Collection Technician

Office Location

Sarasota, FL

Relevant Experience

City of Sarasota Utilities Department: Senior Utilities Engineer

City of Sarasota, FL

Project manager for the utilities portion of the CIP Projects. Helped design, permit, approve pay application and manage construction for the projects. Some of the major projects are: **(1)** 10th and 14th Streets Roundabout Project. All Utilities are replaced; **(2)** US 41 and Fruitville Road Roundabout Project. All utilities were replaced; **(3)** West Area MURT at Coon Key Project. 2,500-feet of 16-inch water main; **(4)** Cocoanut Avenue 24-inch Force main Replacement Project, Phase I 2,300-feet of 24-inch force main; **(5)** Cocoanut Avenue 24-inch Force Main Replacement Project, Phase 2A, 500-feet of 24-inch force main under railroad; **(6)** Bayfront Force Main Replacement Project, 1,000-feet of 4-inch force main; **(7)** Gulfstream and Ringling 16-inch Water Main Replacement Project, 800-feet of 16-inch water main; **(8)** Main and Orange Roundabout Project. All utilities are replaced; **(9)** 1st Street Streetscape Project. All utilities were replaced.

City of Sarasota Utilities Department: Utilities Engineer

City of Sarasota, FL

Managed all the Development Projects including Utility Construction Permitting, FDOH/FDEP and FDOT Permitting, shop drawing review, easement approval, backflow approval and inspection services. Also served as the Supervisor of Inspection Services for all Utility and CIP Projects.

City of Sarasota Utilities Department: Engineering Technician

City of Sarasota, FL

Surveyed, designed, permitted, provided bidding requirements and inspection for contract and in-house projects. Some of the projects are: **(1)** Golden gate point Watermain Replacement, 12-inch watermain crossing Gulfstream Avenue; **(2)** 2001 Watermain Replacement Project, various watermains throughout the City; **(3)** Hansen Street Utility Project, water and sewer provided to annexed new properties; **(4)** Siesta Key Utility Project, water replacement and sewer replaced and new lift station design; **(5)** Lift Station 52 Force Main Replacement, 5,000-feet of 12-inch force main replacement; **(6)** Osprey Avenue Force Main, 2,800-feet of 8-inch force main replacement; **(7)** Wastewater Collection, design and modify 4 existing lift stations.

City of Sarasota Utilities Department: Construction Inspector

City of Sarasota, FL

Completed utility cost estimation, sewer cut sheets, Right of Way permitting approval, City forces stake out and design, inspection, and project management for major projects. Some of the major projects are: **(1)** Effluent Transmission Mai, 25 miles of 36-inch RCCP from the plant to Hi-Hat Ranch; **(2)** Wastewater Collection System, various sewer mains replaced and Lift Station 7 replacement; **(3)** Ringling Causeway Force Main replacement, 2 miles of 14-inch force main replacement; **(4)** City Wide Wastewater Replacement Project, various sewer mains and Lift Station 10 rehabilitation.



Chris Tilman, PE, BCEE

Environmental Compliance

Mr. Tilman provides professional engineering and consulting services in several civil engineering disciplines. He specializes in assisting municipal and industrial clients in South and Central Florida with various site/civil infrastructure and permitting projects. His 26 years of experience includes project management and delivery, site/civil design, mathematical modeling, regulatory permitting and compliance, and operation and maintenance evaluations. Mr. Tilman currently serves as the Water and Wastewater Utility Technical Lead on the Miami Dade County Water and Sewer Department and works on several other civil engineering projects.

Education/Qualifications

- MS, Engineering Management, Troy University, 1997
- BS, Civil Engineering, Auburn University, 2000
- BS, Environmental Science, Auburn University, 1994

Years of Experience

Total – 26
With Arcadis – 24

Professional Registration/Certifications

- Professional Engineer – AL, FL, GA
- Board Certified Environmental Engineer - US
- Construction Documents Technologist – US

Office Location

Miami, FL

Relevant Experience

FY 2022 Annual Report

Miami-Dade County Water and Sewer Department, Miami, FL

Water and Wastewater Operations Engineer, responsible for developing an Annual Report to document the physical inspection of one-third of the Department's water and sewer system assets, reviewing the Department's FY 2022 financial information, conducting staff interviews, review of customer and sales data, assessment of the Department's initiatives, operations, and strategic programs, as well as the Department's achievements and challenges, and preparing recommendations for required repairs, replacements, and improvements for consideration within the Department's Multi-Year Capital Improvement Plan (MYCP).

Hamlin WWTP Design

Orange County Utilities Department, Orlando, FL

Site/Civil Design Engineer, responsible for the site civil and stormwater system design and ERP permitting for a new \$113 million 5.0 MGD wastewater treatment plant on a 50-ac site. The stormwater design included three retention ponds designed to hold the runoff from a 100-year, 24-hour storm event, and had to account for the groundwater effects resulting from operations of adjacent Rapid Infiltration Basins (RIBs). Project work included analysis of historical site data, coordination with FDEP, SFWMD, and OCU, preparation of engineering calculations and drawings, groundwater studies using Green-Ampt groundwater infiltration calculations, 2-D and 3-D modeling for hydraulic/hydrologic flow routing and recovery analysis, permitting, and supporting documentation.

Dimick Road and Potter Road Improvements

City of Boynton Beach, Boynton Beach, FL

Engineer of Record, responsible for the preparation of the engineering drawings, specifications, and South Florida Water Management District Environmental Resource Permits permitting and Florida Department of Transportation Right of Way permitting for flood damage reduction improvements in an older 10-ac neighborhood on the Lake Worth Lagoon in the City of Boynton Beach. Project work includes analysis of historical rainfall and tidal elevation data, widening three existing residential streets (from 8-foot to 10-foot travel lanes), adding curbing, modifying driveways, relocating and modifying water, wastewater, gas, power, and CATV utility services, retrofitting and redesigning an inlet-and-pipe collection system to optimize flow through three existing outfalls, analysis and design of coastal structures, performing an alternatives analysis for various design options, and 2-D hydraulic and hydrologic modeling to simulate inline valve operations in all outfalls and tidal influences from the Lake Worth Lagoon.



Chris Remme, CCM, CCP, PSP

Cost Estimating

Mr. Remme has been a program and construction management professional for 36 years with experience in multi-project and capital improvement programs consisting of heavy/civil, water and wastewater facilities, transit and building projects throughout the United States. He is also a Certified Construction Manager (CCM) with the Construction Management Association of America (CMAA), and a Certified Cost Professional (CCP) and Planning and Scheduling Professional (PSP) with the Advancement of Cost Engineering International (ACEI). He has an experienced in client management, business planning, proposal development and project financial management as well as in deploying management plans and communications to all stakeholders on multi-project programs. He is a Leader in staff development, retention, training and support. Promoted health and safety for all employees and project team members. Managed programs with multiple sites, project types, designers and contractors. Program planning and scheduling of interconnecting systems/processes between projects. Experienced in various contract deliveries, such as design-bid-build, design build and Private Public Partnerships. Experienced in providing Critical Path Method (CPM) scheduling, budgets and cost estimating, and claims resolution services. Proven technical capabilities in value engineering, constructability reviews and quality control.

Education/Qualifications

- BS, Construction Management
North Dakota State University -
Main Campus, 1986

Years of Experience

Total – 36
With Arcadis – 36

Professional Registrations/ Certifications

- Certified Construction Manager
- Planning & Scheduling
Professional
- Certified Cost Professional

Office Location

Richmond, VA

Relevant Experience

Construction Management Services for Water and Wastewater Projects Harford County Department of Public Works, Harford County, MD

Principal-in-Charge for this multi-year construction management contract for the County. The projects consist of various water and wastewater capital improvement projects and transportation (road/bridge) projects on as as-required basis for Harford County, Maryland. Scope of services will include pre-construction services in the areas of master and pre-bid CPM scheduling, cost estimating, constructability reviews, contractor pre-qualification support, bid phase and contractor award support. Construction phase CM services include full time onsite management and inspection of various projects in the CIP program. Services included are schedule management, cost management, change management, document management, project communications and issue/claims resolution services.

Construction Management Contract 4E

District of Columbia Water and Sewer Authority, Washington, DC

Served as Program Manager providing full construction management services on this \$80 million program. This is a task order-based contract for a four-year term which extended by four years to manage added projects by the client. Managed each task order for scope development, staffing plans and the financial metrics. Was instrumental in developing a comprehensive quality assurance plan for these services, which is updated regularly during the program. The quality assurance plan provides best practices for all the services being provided under this agreement and is shared with all staff members as services a management guide of procedures, quality references and forms. Developed program and project dashboard reports to streamline, consolidate and simplify the data information being reported each month on such as large program for DC Water. The program consists of multiple construction contracts to rehabilitate and/or replace water and sewer pipelines, pumping stations, and storage facilities. The scope of services includes design reviews including biddability, constructability reviews, cost estimates and schedules, office engineering including review of shop drawings, schedules, and other construction contractor submittals, change management process, including preparation and negotiation of change orders, task orders and agreements, and claims avoidance/mitigation procedures, resident engineering, inspection services, and materials testing, inter-agency, intra-agency, utility coordination and public relations program support.



Chris Matthews, PE

Cost Estimating

Mr. Matthews has designed and built multi-story commercial buildings, heavy industrial projects, and wastewater treatment systems. He has more than 48 years of design-build projects which span from corporate headquarters for international organizations to the ultra-pure water insulation system for Sandia National Laboratory's Fast Breeder Reactor. He has worked for 20 years on the Engineers Joint Contract Documents Committee (EJCDC) and twice served as Chairman. He is currently an ACEC Delegate to the EJCDC, a Life Director of the Associated General Contractors of America and has held general contractor licenses in 12 states. He has owned and operated multiple private wastewater utility companies. He is an engineering expert witness, has worked on many cases of contract litigation and mediation and holds a U.S. patent for specialized concrete forming systems. He has authored articles and papers on public-private-partnerships (P3) used for the wastewater market in the U.S. He has assisted the EJCDC develop the first Program Management Standard Contract Document for P3s in the U.S. Included in his design build experience is the installation of low-pressure collection systems serving thousands of residential and commercial customers. These systems in central Alabama traversed hundreds of feet in elevation changes.

Education/Qualifications

- BS, Mechanical Engineering, University of Alabama, 1973

Years of Experience

Total – 53
With Arcadis – 12

Professional Registrations/ Certifications

- Professional Engineer – AL, FL, GA, MD, MS, LA
- Contractor's License - FL Certified General Contractor
- Contractor's License -FL Certified Mechanical Contractor
- Expert Witness (ACEC Certification)
- NCEES Council

Office Location

Sarasota, FL

Relevant Experience

City of Atlanta A/E Task Order Contract

City of Atlanta, Atlanta, GA

Area Manager for the construction management for multiple field Tasks issued under the City A/E Contract.

Sod Run Wastewater Treatment Plant

County, Harford County, MD

Construction manager for nutrient reduction (ENR) addition at the Sod Run WWTP, which is rated at 20-mgd dry-weather flow and 50-mgd wet-weather flow. The ENR program is implementing new facilities to meet the new and future waste load allocation for its discharge into Bush River. The scope of work for the program Harford includes total phosphorus and nitrogen control improvements, new methanol addition facility, effluent filtration addition, main plant switchgear improvements, final clarifier upgrades, aeration system upgrades, RAS pumping upgrades, bio-augmentation and new fermentation tanks and pumping facilities.

Construction Management and Inspection (CMI)

Anne Arundel County, Annapolis, MD

Project manager for open-ended construction management and inspection (CMI) of various water distribution system improvements including repairs, replacement, and lining.



Darryl Dunn, PE

Constructability

Mr. Dunn has served as a program & project construction manager (PCM) as Owner's Agent for 24 years managing owner's pre-construction and construction phase projects primarily focused on water and wastewater projects including treatment plants, pump stations and pipelines. Prior to his construction management career, he spent 18 years in general engineering- planning, directing, and performing civil engineering and design work pertaining to new, improvement or renovation infrastructure projects including roadways, site plans, storm drainage and erosion control, buildings and structures, water and sewer utilities, pump stations and force mains, water and wastewater treatment plants.

Experience highlights include:

- Sr Project Construction Manager for a \$165M construction program in Anne Arundel County, MD through a multi-phase contract and multiple contractors.
- Project Construction Manager for a \$68M program for water independence, Rockdale County, GA through management of four design contracts and seven construction contracts.
- Design/Project Engineer on the design of water and wastewater facilities for the US Naval Submarine Base, Kings Bay, GA.

Education/Qualifications

- Engineering coursework: West Georgia College and DeKalb Community College 1966-1977

Years of Experience

Total – 49
With Arcadis – 1

Professional Registration/ Certifications

- Professional Engineer – GA

Office Location

Plantation, FL

Relevant Experience

Mr. Dunn's construction management experience includes bid phase services, constructability reviews, establishing site CM offices, hiring staff, implementing document control platforms, communication and execution plans, administering construction contracts, conducting meetings, change and schedule management, QA/QC oversight, startup/commissioning plans, closeout and turnover for the following.

Pump Station A-16

City of Fort Lauderdale, Miami, FL

Lead inspector providing construction management services for the installation of approximately 2,000 LF of 30-inch HDPE watermain and 3,000 LF of 10-inch HDPE force main along SE 3rd Avenue. This project is part of the relocation of the A-16 Pump Station on SE 11th Street. The project includes two horizontal directional drilling (HDD) segments under the Tarpon River.

Everglades PS Monitoring Panel Replacement Project

South Florida Water Management District, Fort Lauderdale, FL

Sr. project construction manager for the replacement of engine monitoring panels and devices with modern electronic equipment for five Everglades canal pump stations with multiple engine-driven pumps originally installed in 1952.

Cox Creek WRF Upgrade Project

Department of Public Works, Anne Arundel County, MD

Sr. project construction manager (PCM) for the \$110M multi-phase, multi-year upgrade of the 30-mgd WRF to Biological Nutrient Removal (BNR) with up to 400% sludge return and including owner-purchased submerged Bio-Reactor membranes.



Tina Laird

Project Administration

Ms. Laird has 29 years of experience working in the construction industry as a professional Project Administrator, Assistant Project Manager and Certified Project Manager. She has worked for Nineteen years at Arcadis. This time included field assignments primarily on water and wastewater treatment facilities. For the past 16 years, she has assisted on multiple projects rotating between the different projects during each week. Her goal for each project is to provide the Client with superior program/construction management services. Ms. Laird is proficient in using Contract Manager software such as Orion, Oracle and Primavera. She supports the Project Managers, Construction Managers and Inspectors with several project control related tasks including invoicing, projects costs, project set up, contracts, subcontracts, construction documents of all types.

Education/Qualifications

- Fleet Business School

Years of Experience

Total – 29

With Arcadis – 16

Office Location

Atlanta, GA

Patuxent Water Reclamation Facility Expansion

Anne Arundel County, Crofton, MD

Project Administrator for a \$45M expansion and upgrade of the Patuxent Water Reclamation Facility. This facility is rated at 6 MGD dry-weather flow and is being expanded to 9 MGD. The project adds an influent pump station, aeration basin, clarification, digestion, effluent pump station and expands existing filters. The scope of work for the program also includes main plant switchgear and generator improvements, RAS pumping upgrades, and expansion of solids handling facilities.

Maryland City WWTP Expansion

Anne Arundel County, MD

Project Administrator for \$30M expansion and upgrade of the Maryland City Water Reclamation Facility. Ms. Laird set up the database, attended weekly and monthly progress meetings. All documentation was routed through Ms. Laird to all project team members.

Broadneck Water Reclamation Facility ENR Upgrade

Annapolis, MD

Ms. Laird was the Project Administrator for the \$17,300,000 nutrient reduction addition at the Broadneck Water Reclamation Facility. She handled the logging, tracking and distribution of submittals RFI's, RFP's, Change Orders as well as working with the Construction Manager in developing and distributing the Monthly Reports, weekly reports which are sent to the Client.

Broadwater Water Reclamation Facility ENR Expansion Phase 2 Upgrade

Annapolis, MD

Ms. Laird was the Project Administrator for the \$5.5M wastewater facility expansion/upgrade project. Responsible for all document control, Monthly Progress Reports, attending weekly and monthly progress meetings and distributing meeting minutes.



Melissa Hew, CFM, WEDG

Resiliency/Sustainability

Ms. Hew is a senior consultant with Arcadis' urban and coastal resiliency practice, combining her technical background and leadership experience in the public sector for the City of Miami to provide robust project management and strategic advisory support to diverse clients. She has extensive experience in leading resilience planning and climate adaptation and mitigation projects and initiatives, partnership and capacity building, and equitable stakeholder engagement for projects and programs of all scales. She has been successful at managing and building relationships with internal and external stakeholders, community partners, elected officials, and residents to achieve strategic resilience goals. Her project experience includes the areas of watershed planning, vulnerability assessments, nature-based infrastructure, climate adaptation, sustainability, and environmental protection.

Education/Qualifications

- MS Environmental Science Water Resource Management & Assessment Towson University 2014
- BA Environmental Studies Tulane University 2011

Years of Experience

Total – 12
With Arcadis – 2

Professional Registration/Certifications

- Certified Floodplain Manager (CFM)
- WEDG Associate (WEDG)

Office Location

Miami, FL

Relevant Experience

Vulnerability Assessment Project Management

City of Fort Lauderdale, FL

Currently program managing the development of a vulnerability assessment and adaptation plan for the City of Fort Lauderdale. Tasks include identifying City critical assets to prepare for current and future flood risks; assessing adaptive capacities of the City; prioritizing adaptation needs; and identifying strategies to address the vulnerabilities of the City's most at-risk assets.

Resilience Planning and Vulnerability Assessment Project Management

City of Portsmouth, VA

Leading the development of a data-driven and equity-driven flood resilience plan that will provide key actions for the City to improve its resilience posture. Client point of contact for resilience planning and vulnerability assessment engagement. Providing strategic task project management for development of an asset inventory, conducting a flood risk and vulnerability assessment,

identifying flood hazards (including sea level rise, precipitation and storm surge), development of a resilience toolkit and adaption strategies, social vulnerability analysis, and development of an adaption action plan. Developing inclusive community engagement and outreach strategy and leading stakeholder engagement for the City's flood resilience plan development. Providing ongoing services to address the City's increasing risk from coastal storms, tidal flooding and other hazards, including comprehensive FEMA BRIC grant management services.

Project Name

Client Name, City/County, ST (abbreviate state)

Served a lead role in developing Federal Emergency Management Agency (FEMA) Hazard Mitigation Grant Program (HMGP) Application No. 1 and Application No. 2 to provide WASD with adequate funding for infrastructure improvement projects protecting facilities from storm surge and extreme precipitation events. Weighed selection criteria including pump station flow capacities, service populations, hazard risks, and facility vulnerability to environmental impacts to strategically select pump stations in which to incorporate system hardening. Collaborated with WASD staff, facility operators, and interdisciplinary experts to establish the scope of work for each grant to the pumping stations serving the Department's extensive wastewater collection and transmission system. Created agendas, attended client meetings, communicated HMGP requirements and adaptation methodologies, drafted meeting summary notes, and delegated tasks to project team members.



Roy Cooper, PE

Contract Solutions

Mr. Cooper leads Arcadis’s construction claims services in North America. He has more than 34 years of construction experience, including the analysis and review of complex construction claims from the beginning stages through trial support and expert testimony. He has led large-scale claims evaluation assignments of almost every type, including the evaluation of schedule impacts, cost impact analysis, mediation, and claims negotiation. He has also been qualified as an expert on both horizontal and vertical project types. Prior to joining Arcadis, he was a project superintendent and engineer on high-profile projects, several of which he was responsible for all aspects of construction.

Education/Qualifications

- MBA, University of Connecticut
- BS, Civil Engineering, Michigan Technological University

Years of Experience

Total – 34
With Arcadis – 25

Professional Registration/ Certifications

- Professional Engineer – CT, FL, MD, NJ, NY, RI, TX, LA

Office Location

Middletown, CT

Relevant Experience

CPM Scheduling Training

TDOT, Construction Division

Arcadis worked closely with TDOT to provide a CPM scheduling training and workshop for TDOT Construction employees. The focus of the training was to help grow TDOT employee’s understanding of a CPM schedule baseline review, update review, and delay analysis conforming to TDOT specifications. This training helped the Department’s construction division have a better understanding of both how to use the schedule as a method of communication with the contractor, and how to determine some potential delays.

US 27, SR 29

Tennessee Office of the Attorney General; Chattanooga, TN

Project executive / Testifying expert: Provided expert services to the client regarding a dispute on a road widening project in Chattanooga. The project was the largest contract ever let by the Department. The contractor made a \$14.6-million differing site condition claim. The contractor claimed it encountered differing site conditions during the installation of several large retaining walls along each side of the roadway widening. The contractor alleged that because of the differing site conditions, it was forced to mobilize different, more expensive equipment and also incurred additional cost as part of performing the work. Roy made an assessment of the contractor’s alleged damages and presented in mediation on behalf of the client. The case settled during mediation.

US 51, SR 3

Tennessee Office of the Attorney General Memphis, TN

Provided expert services to the Tennessee Office of the Attorney General regarding a dispute on a \$15M road and bridge project in Memphis Tennessee. The contractor made a \$5M delay and direct cost claim. The contractor claimed it encountered utility delays, abnormal foolding and additional cost because of TDOT changes to the substructure piles. Evaluated and made an assessment of the technical issues, schedule delays and alleged damages. The matter settled in mediation.

I-65, Davidson County

Tennessee Office of the Attorney General, Nashville, TN

Project executive and testifying expert. Provided expert services regarding a dispute on a road and bridge project. The contractor made a \$2.5-million delay claim and a 1,379-day time extension request. Provided an assessment of the issues and delays on the project along with the contractor’s alleged damages, and also provided expert testimony at trial.



Bhadrash Patel

Scheduling/Project Controls

Mr. Patel has 46 years of experience in the field water and wastewater, airport engineering, chemical industry and highway engineering, urban roadway construction & planning and structural design. He has worked with technical and managerial responsibilities as a Senior Project Control Specialist, Project Engineer, Resident Engineer, Senior Construction Inspector, Construction Manager, and Consultant on assignments for a wide variety of civil engineering, pump stations, wastewater treatment plants, airports, cargo buildings, bridges, chemical and utility projects. He serves in the role of project controls and planning lead and technical supports responsible for various work products, master schedules, capital improvement schedules, project schedule, time impact analysis, claims, cost estimator, contract administrator, network administration, document control (CM14) administration, contract administration and primavera project controls (P6) administration. He has a strong background in project controls and claims analysis in water, wastewater, environmental, chemical and transportation construction sectors. He has been responsible for preparation of engineering analysis, reports and negotiations of delay claims and project schedules.

Education/Qualifications

- BS, Civil Engineering, Sardar Patel University, India 1977

Years of Experience

Total – 46
With Arcadis – 28

Professional Registration/ Certifications

- Project Scheduling Professional
- Primavera P6 103
- MS SQL
- Sybase Informaker
- Power BI Publisher

Office Location

Hanover, MD

Project Experience

Data Center Project Confidential Client, SC

Project Controls Specialist for a time-sensitive data centre project for a \$495 million data centre. Performed the project control and master scheduling on various data centre projects. Responsible for review and implementation of time impact on the schedule, risk management and earned values analysis of various projects. Responsible for monitoring progress on site and ensuring the progress in accordance with project schedule. Provided independent recovery schedule, cost, and time impact analysis of construction changes on multi-million-dollar projects.

Blue Plains Advanced Wastewater Treatment Plant

DC Water and Sewer Authority, Washington, DC

Project Controls Specialist and Critical Path Method (CPM) Scheduler/Cost Estimator/Management Information System (MIS) Manager/Change Management Administrator. Worked on several projects including lead service replacement, small and large diameter mains, elevated water towers, wastewater pump stations, heating, ventilation, and air conditioning rehabilitation, bio-solids, extracellular fluid enhancement, odor control, filtration facility rehabilitation, metal salts, 69kV electrical upgrade, roof replacements, grit and screen rehabilitations, Cl2 building upgrade, methanol system rehabilitation, secondary treatment facility upgrades, nitrification project, raw wastewater pump station, denitrification, large-diameter influent main sewer, electrical and mechanical upgrades, site runoff pump station, filtration and disinfection, switchgear replacements. Performed the control and implementation of a change management information system and document control process for the DC Water and Sewer Authority's \$1.6 Billion Capital Plan. Responsible for Project controls, master schedule, recovery schedule, review and approve schedule, monitor work in accordance with the plan, review and approve the payment requisition, review and implementation of change management process, quality control, and assurance, negotiating contract changes, preparing change documents for the client, and review of schedules including but not limited to payment requisition. Performed on DC Water's Capital Improvement Master Schedules and the Advisory Committee for the implementation of P6 and CM14. Provided independent cost and time impact analysis of construction changes on the multi-phased, multi-million-dollar projects at Blue Plains. The system is based on Primavera P6 and Contract Manager software systems (CM13).



Alesia Fiocca

Scheduling/Project Controls

Civil Engineer with expertise in underground utility design, marine and port engineering, cost estimating and project management using a variety of tools including AutoCAD Civil 3D, Autodesk Design Review, and ArcGIS.

Relevant Experience

Education/Qualifications

- MS, Civil/Environmental Engineering, University of Illinois Chicago, 2029
- BS, Biology, Loyola University of Chicago, 2017

Years of Experience

Total – 5
With Arcadis – 4

Office Location

Plantation, FL

Arcadis (Jan 2023-Current)

Port of Miami Capital Development, Miami, FL

Civil/Marine Engineer. Responsible for the project management of various projects including: seawall design and repair, environmental mitigation (artificial reef/ mangrove restoration), passenger boarding bridge runway structural design, cargo and cruise terminal design, fender and bollard installation, roadways, drainage and maintenance dredging. Handle coordination with design consultants, municipalities, procurement, and construction managers to help keep projects on schedule and under budget. Assist during planning phase, preconstruction phase, advertisement and bidding process, construction, and closeout procedures. Responsible for maintaining revisions to port wide technical specifications as well as developing biennial port wide paving, fencing, and public works contracts including unit costs, labor estimates, and industry standards for installation or mobilization. Manage projects ranging from values of

\$200,000 to \$30 million. Familiar with grant funded projects, small business development, resiliency ordinances of Miami Dade County, and environmental permitting through local and federal agencies.

Arcadis (Nov 2020-Mar 2023)

Force Account Design: Department of Water Management, Chicago, IL

Civil Design Engineer. Responsible for conducting engineering reviews of proposed construction plans from agencies, utilities, and developers for impacts to the City of Chicago's water distribution facilities and, if necessary, design for modification of existing water facilities. Enforce conformance to applicable Chicago Department of Water Management policies and standards for assigned projects. Design and produce plans as well as the necessary permitting documents to remove, relocate or protect any impacted water facilities. Lead design, preconstruction, and construction activities in coordination with City of Chicago Sewer, Records, and Engineering Departments.

Kimley-Horn (Jan 2020-Nov 2020)

Nicor Gas Distribution Design, Chicago, IL

Civil Engineering Analyst. Responsible for managing large scale projects for the replacement, repair, and expansion of natural gas distribution systems. Successfully released 30 approved corrosion projects in 3 months while managing a team of four people. Designed pipelines in accordance with Nicor, Illinois Department of Transportation, Americans with Disabilities Act (ADA), and municipality standards using AutoCAD Civil 3D, ArcGIS, and Bluebeam. Created utility conflict matrices on public and private drainage, roadway, and highway improvement projects to verify where main could be in conflict with proposed utility or roadway structures and grading. Coordinated frequently with various environmental consultants to determine scope, environmental site limits, buffer areas, and the correct sedimentation and erosion control measures needed on approved engineering plans. Determined project scope while ensuring gas main pressure information, leak history, corrosion, and system planning recommendations were taken into consideration in order to successfully improve Nicor's distribution systems. Lead the development of cost estimates, construction timeline estimation & conducted visits to various construction sites to locate main and existing fittings for the construction operations department.



Section 4.2.5.

Approach to Scope of Work



4.2.5. Approach to Scope of Work

On September 2017, the City of Fort Lauderdale (City) entered into a Consent Order (CO) 16-1487 with the Florida Department of Environmental Protection (FDEP). The CO identified various projects along with completion deadlines required to improve sanitary sewer service within the City.

The rehabilitation/replacement of the 48” force main along SE 10th Avenue is one of the projects included on Exhibit C of the CO (Phase II projects) that need to be completed by September 30, 2026.

Understanding the City’s Needs, Goals and Objectives

Between 2020 and 2022, as a result of a major sewer pipeline break, the City abandoned this force main and installed a new HDPE force main from the GTL Wastewater Treatment Plant to the Coral Ridge Country Club (Re-Pump B) using a combination of Horizontal Directional Drilling (HDD) and open cut installation methods.

Arcadis is currently providing Construction Engineering and Inspection (CEI) services to the City as part of our Continuing Services contract and is very familiar with the City’s expectations on how to deal with issues that arise during the construction phase of your projects. Our Team possesses the experience, and clearly understands the FDEP Consent Order requirements. This will result in a successful delivery of the project and ensuring that it is finally completed by August 31, 2026!

The City wants to have a fully redundant system, and at the same time comply with the Consent Order requirements. The City issued an RFP in December 2023 to bring a Design-Build firm to complete the rehabilitation of the abandoned force main from just south of SE 17th Street to the Galleria Mall, via a combination of trenchless installation (CIPP and/



or Compression Fit Lining). In addition, the Project includes approximately 8,100 linear feet of a new force main (open-cut or HDD) to replace a portion of the old force main that was abandoned and grouted.

With this Request for Qualifications (RFQ Event 253), the City's goal is to select a Construction Engineering and Inspection (CEI) firm to provide owner's representative services during the Pre-Construction, Construction and Post-Construction Phases.

Needs, Goals and Objectives

Arcadis is a natural fit for the services requested and for the project. We have worked in the CEI model as collaborative partners implementing highly technical and complex construction projects as trusted agents for Owners, including the City of Fort Lauderdale.

Arcadis has an abundance of resources that align with your requested services of project management, construction engineering and inspection services.

We believe our goals for the project will mirror the City's goals. These goals can be developed further as we move toward commencement of services. These goals are:

- **Safety for all, including the public**
- **Satisfy the requirements of the Consent Order (No. 16-1487)**
- **Achieve an operable redundant system**
- **Project is completed on-time, within budget**
- **Minimize disturbances and surprises**
- **Placing the City of Fort Lauderdale in control of its project**

Arcadis believes that our delivery methods will address these goals through the consistent accomplishment of objectives using tools, systems and protocols designed to put the City in control of project Time, Cost, Quality, Risk and Safety.

Overall Approach to Accomplishing the Work

The City of Fort Lauderdale desires to outsource management and delivery of this force main rehabilitation project that is intended to comply with a Consent Order. The RFQ contains certain specific criteria and questions that indicate the city is looking for innovative, resourceful firms with depth of experience and expertise to handle the project. Those specific criteria and questions focus on our understanding of the scope of work, our approach to it,

workload and scalability, problem-solving capabilities, schedule management, and technological capabilities.

This proposal will show that Arcadis is an outstanding engineering, design and construction firm with stellar experience and expertise, and has practically unlimited innovative capabilities of delivering any size and type of project.

Arcadis will demonstrate in the proposal that we understand the scope of work and the project, that we have an overall customized approach suited to deliver the project and that we can deliver it as if it were our own.

Arcadis will bring the best practices of our extensive construction engineering and inspection experience, delivering innovative solutions in close collaboration with City staff.

We know the importance of planning, coordinating and communicating with City Project Manager, operations and maintenance staff so related systems continue to operate safely and reliably during construction.

The services requested by the City are natural subsets of Arcadis' robust Construction Management/CEI Practice.

Arcadis implements all the comprehensive tools, systems and protocols to keep stakeholders informed, resolve construction issues at the lowest level possible in the field, and to maintain project momentum going forward to successful completion.



Project Understanding

This project is quite unique in rehabilitating an abandoned force main and adding to it with new extensions to provide a complete redundant system that meets the intent of the CO. An agile, wide-ranging approach to planning, staffing and executing the requested services will be required on a continuous basis for complete success. Arcadis has structured its services and delivery to the tasks required with alignment across the organization chart for the projects listed in the RFQ.

In this section of our Project Understanding, we performed a detailed analysis of the project route using the Record Drawings, Key Map, results from a site visit and our knowledge of the local conditions. We were able to pick out the major characteristics of the route related to the impact that construction will have on the area such as large businesses, government facilities, schools and residential areas. We were also able to see the number of lanes in the roadways affected by construction. The table on the next page shows some important aspects that we believe would have to be considered as part of the design of the route. We divided the route based on the Phases identified on the RFQ.

This project will be constructed along crossing major intersections (SE 17th Street, US-1, Broward Blvd) and will impact multiple businesses and residential areas. South of the New River extensive coordination will need to happen with the residents of the Rio Vista neighborhood, the Broward County Clerk of Courts, and the new Federal Courthouse being built on SE 3rd Avenue. **Arcadis recently completed CEI services for the A-16 PS relocation on SE 3rd Avenue and we have firsthand knowledge on the coordination needed with the businesses and federal contractors working on this area.**

On the north side of the New River, coordination will be key with the businesses owner along Las Olas Blvd, Himmarshee Canal, Victoria Park neighborhood and the Sunrise Intracoastal/Galleria Mall area.

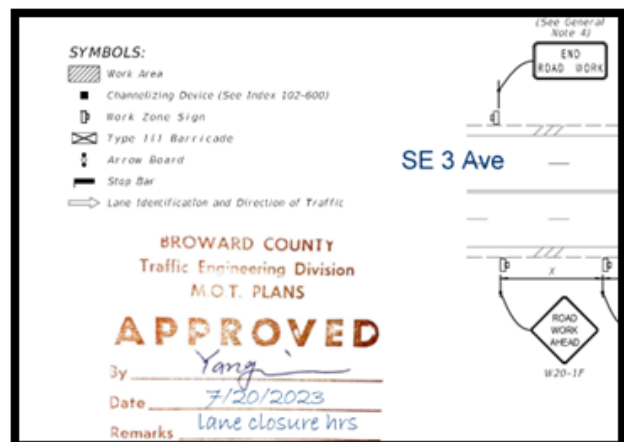
Knowledge of the Site and Local Conditions

Local, County, State Regulations

Our work for the City of Fort Lauderdale will be led by staff from our office in Plantation Florida, from which we are within close proximity to the City and Project site and can quickly respond to issues as they arise. Arcadis also maintains offices in Miami, Coral Gables, Boca Raton, Boynton Beach, Tampa, Orlando, Sarasota, Jacksonville, Pensacola, and Tallahassee. Our staff have worked for numerous Florida communities including the City of Fort Lauderdale to expand and improve their utilities in all respects.

Our team has extensive knowledge of the site conditions (having provided CEI services for the 12” force main and 30” water main along SE 3rd Avenue) and we are well aware of the City’s requirement for specific work. For example, this project will require night-work in some areas and we know that a Noise Management Plan shall be submitted to the City Manager’s office for approval in advance. No night-work can commence without a Noise Management Plan approved by the City Manager.

Broward County Traffic Engineering Division and FDOT will be very involved and are very strict in their requirements for maintenance of traffic (MOT). Depending on vehicular traffic on their right of ways, these will require night closures. Although we do not expect paving asphalt restoration work happening on FDOT right of way, we do see this happening in Broward County right of way. This will require a pre-construction meeting with the Broward County inspector onsite to discuss the project, and will also require a pre-paving meeting before the paving operations are happening.



Route Description FM Rehabilitation Project *(Refer to footnotes below)*

Road Segment	From	To	# Traffic Lanes	Rehab/ # of Pits needed (min.) ¹	Open Cut (new FM)	New Trenchless (# of pits)	Approx. Length (Ft.)	Large Businesses/ Commercial	Driveway Entrance	Small Businesses/ Commercial	Driveway Entrance	Residences	Driveways	Notes
PHASE A - NEW 48" FORCE MAIN														
SE 15th Street	SE 10th Avenue	Miami Road	2	-	Yes	1	350	Harbordale Elementary School	Yes			Yes	Yes	Bus drop-off at the School
Miami Road	SE 15th Street	SE 12th Street	2	-	Yes	3	1,800	Oasis Hotel	Yes	Yes	Yes	Yes	Yes	Trenchless Crossing on US-1
SE 12th Street	Miami Road	US 1 S Federal Hwy	2	-	Yes	1	200			Yes				Gas Station - Multiple Entrances
Davie Road	US 1 S Federal Hwy	SE 3rd Avenue	6	-	Yes	2	900	Walgreen's, Chevron	Yes	Yes	Yes			Very busy road, Trenchless Crossing on US-1
SE 3rd Avenue	Davie Road	Tarpon River Crossing	5	-	Yes	1	900	New Federal Courthouse, Broward County Public Schools, Centennial Bank	Yes	Yes	Yes			48" water line & 10" sanitary FM was recently installed on SE 3rd Ave. from SE 11th St. to SE 9th St related to the relocation of PS A-16 and construction of the New Federal Courthouse. These new lines are not shown on the DCP. Broward County ROW
Tarpon River Crossing	SE 3rd Avenue	SE 3rd Avenue	-	-		2	300							
SE 3rd Avenue	Tarpon River Crossing	SE 6th Street	5	-		2	1,400							
SE 6th Street	SE 3rd Avenue	SE 9th Avenue	2	-	Yes	3	2,100	Broward County Courthouse	Yes	Yes	Yes	Yes	Yes	Very busy area
Himmarshee Canal Crossing	SE 2nd Street	SE 10th Avenue	-	2			150							Space is too short for HDD. Contractor should think in other methods for installation
PHASE B - REHABILITATION OF EXISTING FORCE MAINS IN ROADWAY														
SE 10th Avenue	Near Starting Point (Close to GTL WWTP)	SE 17th Street	4/6	2			500	Embassy Suites Hotel	Yes					Very busy road. SE 17th Street is FDOT ROW. Very touristic area.
								Outback Steakhouse	Yes					
								Bowman Consulting Group	Yes					
	SE 17th Street	SE 15th Street	2	2			1,000	Bank of America	Yes	Yes + Street Parking	Yes			Very tight area for construction staging
										Harbordale Condo + street parking				
SE 9th Avenue	SE 8th Street	Abreu Park, New River	2	6			900					Yes	Yes	Residential Area. Tie-in to new FM. Area was heavily affected by the 2022 FM project.
SE 9th Avenue	SE 4th Street	SE 2nd Street	2	4			1,000							
SE 2nd Street	SE 9th Avenue	Himmarshee Canal Crossing	2	2			150					Yes	Yes	Limited Space close to multiple apartment complex
SE 10th Avenue	Himmarshee Canal Crossing	NE 4th Street	2	4			1,800	Virginia S Young Elementary School				Yes	Yes	Force Main through School Yard. Crossing Broward Blvd.
NE 4th Street	NE 10th Avenue	NE 14th Avenue	2	2			1,200					Yes	Yes	Neighborhood Streets. Victoria Park was also impacted during previous force main and other City projects.
NE 14th Avenue	NE 4th Street	NE 9th Street	2	5			3,450	St. Demetrios Greek Orthodox Church		Yes	Yes	Yes	Yes	Victoria Park Residential Neighborhood
NE 14th Avenue	NE 4th Street	SE 7th Street	2	4			600					Yes	Yes	Victoria Park Residential Neighborhood
NE 9th Street	NE 14th Avenue	NE 18th Avenue	2	6			2,350			Yes	Yes	Yes	Yes	Victoria Park Residential Neighborhood
NE 18th Avenue	NE 9th Street	NE 9th Place	2	2			200							Victoria Park Residential Neighborhood
NE 9th Place	NE 18th Avenue	NE 20th Avenue	2	2			750	Victoria Park Hotel	Yes	Yes	Yes	-	-	Victoria Park Residential Neighborhood
NE 20th Avenue	NE 9th Place	Middle River Crossing	2	2			200							Victoria Park Residential Neighborhood
PHASE C - Rehabilitation of Force Main under The New River														
New River Crossing	Abreu Park	SE 9th Ave.	-	2			300							Existing crossing. USACE might need to be consulted if rehabilitated.
PHASE D - Bid Alternate Rehabilitation of Existing Force Main Under the Middle River														
Middle River Crossing	NE 20th Avenue	NE 9th Street	-	2			400	Middle River Apts.	Yes	Yes	Yes			Existing crossing. USACE might need to be consulted if rehabilitated.
Middle River Drive / NE 9th Street	Middle River Crossing	Existing Tie in point	5	2			300			Yes	Yes	Yes	Yes	Close to Galleria Mall. Close coordination with HOA and the Mall Management

Note 1: Minimum # of pits required reflects our best guess with the information available.

Project Approach

It is commendable the City and the D-B venture are going with “trenchless” methods of restoring and adding to the existing force main. This eliminates much of the impact to the travelling public, businesses and residents. Going “trenchless” does not completely eliminate the impacts to surrounding areas, however, but just changes the types of impacts.

As explained in the Project Understanding, there are many schools, businesses including hotels, restaurants and retail, and many residences along the route. The contractor must perform their work within strict boundaries along the route to minimize those impacts. Maintenance of Traffic will be highly important as will maintenance of sidewalks for pedestrians.

Certainly, the D-B venture is experienced enough to produce a highly workable plan but the City’s request for Constructability Review during the Design Phase will be beneficial for highlighting and potentially augmenting the careful considerations given to the environment surrounding the project areas.

Based on our experience with large diameter pipeline projects and with the City, some of the challenges that our team anticipates could include the following:

- Extensive inspection and monitoring of the dewatering activities and BMPs
- Inspection and maintenance of traffic controls
- Public outreach and communication with the City, County, State stakeholders, residents and business owners in the area
- Quick responses to requests for constructability reviews
- Maintenance of Contractor’s staging and work areas
- Site restoration

Arcadis recognizes this complexity and has the knowledge and resources necessary to keep the contractor on schedule and budget. Our team is currently providing CEI services for the City as part of the continuing services contract, from this experience, we know what you expect from these services and are very familiar with the requirements of:

- City’s Code of Ordinance (Noise requirements)
- City’s Standard Details and As-Built Requirements
- Broward County Requirements (Dewatering, MOT, Paving)
- City’s Stormwater Management Practices

The main features of work that will impact the community will be the following.

Force Main Cleaning and Lining

Force main cleaning and lining have several critical elements that must be addressed to successfully complete a quality project. The four main elements include **(1) bypass piping (no interruption of sanitary services to the residents while the work is being accomplished); (2) cleaning, inspection /evaluation and preparation of the host pipe for lining; (3) installation of the lining; and (4) testing (including warranty) of the liner.**



Element 1 – Bypass Piping. Although we do not expect critical by-pass operations on this project since the existing force main is not in service. Communication with the residents is critical as the bypass operation is initiated. They must be advised of the process and the layout of the bypass operation. Location of the main bypass and crossings of driveways must be thoroughly outlined, so the residents understand the visual picture and the possible inconvenience. Methodology for reporting of any leaks or line breaks must be covered thoroughly and expectations for response and correction must be outlined in detail and be clear. Installation and proper identification to first responders, i.e., fire departments, is also a very important aspect of the temporary bypass operation. Setting up the project correctly will result in the least amount of complaints for the project. This includes close daily inspection of the bypass system to ensure there are no leaks.

Element 2 – Cleaning and Lining Preparation.

Cleaning, CCTV inspection and preparation of the host pipe is critical for successful lining. A prepared pig will be utilized to prove the host pipe is properly prepared for lining. Documentation of the host pipe alignment and condition are critical to ensure all conditions that will impact the lining design are calculated to ensure successful installation of the liner. The construction manager team will carefully review the pre-CCTV to document all conditions that need to be addressed prior to installation of the liner. Proper disposal of the cleaning waste must be provided to meet regulatory standards.

Element 3 – New Lining Installation. The installation of the liner must be conducted in accordance with the specification and manufacturer requirements. Pull distances and pull loads will be calculated in accordance with the specification and information obtained in Element 2 and checked by the CM.

For Compression fit lining, fusing operations and testing will be closely monitored by the construction inspectors to ensure the installed space HDPE liner meets the requirements of the specification.

Construction inspectors will also closely monitor and record the pulling operations and installation of reduction devices. All connections to existing pipe and services will be checked to ensure they are satisfactory and installed in accordance with the plans and specification.



During the installation of the liner, our construction inspector will monitor the installation conditions and document the findings in our inspector daily report.

Element 4 – Return to Normal Service. Before the force main is returned to service, the construction inspectors will monitor and document all acceptance testing of the install liner in accordance with the specification and ensure that final connections and tie-ins are satisfactory.

Challenges/Key Considerations with Trenchless Rehabilitation

- Pit locations and size to ensure no bending in excess of manufacturer guidelines. Specially for HDPE lining.
- Careful review of pre-CCTV to document all conditions that need to be addressed prior to rehabilitation and locations of all fittings, connections, etc.
- Pull distances and calculation of pull loads to ensure stress during construction is less than the strength capacity of pipe.
- Careful observation of proving pig operation and evaluation of pig scratches.
- Careful monitoring and recording of installation of liner.
- Post installation testing and inspections.

Solutions

- Our inspectors have worked on several HDPE/ CIPP rehabilitation projects and are familiar with the requirements and challenges related to pit construction testing of liners (CIPP/HDPE), pigging and pulling operations and post installation testing.
- Our CM and inspectors will all have their NASSCO certifications up to date during the construction period. Our CM, David Morgan, has design, installed and managed CIPP projects for over 20 years.
- Our CM Team will work closely with the Design-Builder's Engineer to ensure calculations include all required data to achieve maximum efficiency.

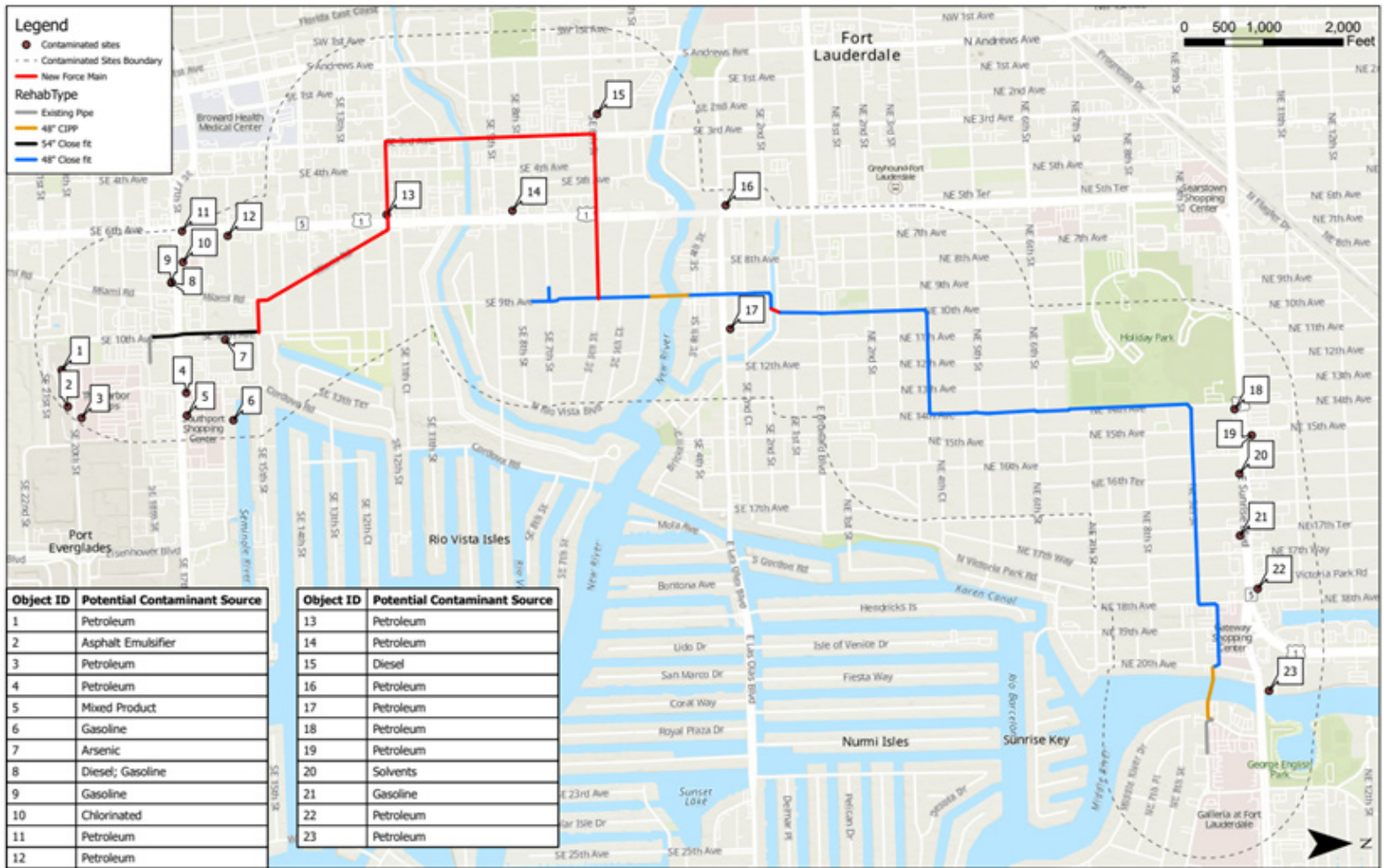
Note that Arcadis has identified certain highly sensitive, impactful conditions requiring close attention during the construction phase including contaminated sites and dewatering disposal. Dewatering disposal will occur at all excavations along the route but following is a map of contaminated sites:

Sites. An important aspect for every pipeline construction project involving excavations is the location of the contaminated sites in proximity to the excavation area. This is even more important if the contaminant source is Arsenic.

After a detailed review of the RFP for the design-build project we identified several locations that would have to be closed monitored by the CEI team given the contaminant source and proposed construction method. For this specific project, Boward County requires a dewatering plan to be submitted if dewatering operations are conducted within 0.25 miles of a contaminated site. In addition, to requirements for an specific dewatering method, other special considerations like monitoring and sampling would be required. If this are not considered in the pre-construction phase it could result in project delays. Arcadis is fully aware of these requirements and will work hand-in-hand with the City and Design-Builder to address these from the beginning of the project.

Dewatering Activities and Disposal. Arcadis provided CEI services for the City's A-16 PS relocation that involves the installation of a 30-inch water main along SE 3rd Avenue crossing the Tarpon River. We have firsthand knowledge of the dewatering requirements and concerns of the Sustainability Division of Public Works and City's Code Enforcement inspectors.

Depending on the time of the year when the activities will take place, the dewatering activities could be extended during wet seasons. Based on the lessons learned from our recent project on SE 3rd Avenue (are showed in red on the map below), this road is used by City and County officials, and are very concerned with dewatering activities and how these affect the quality of water in the Tarpon River. Our team will ensure that all BMPs are in place at the start and at the end of the shifts and are maintained throughout the job duration. Our main goals for dewatering are; 1. Ensure Contractor follow the approved Plans, 2. Dewatering effluent is maintained on-site or disposed correctly (turbidity levels) 3. Identify risks in advance and have the contractor mitigate them before these become issues in the field.



Our Plan of Action to successfully delivering this City Project.

<p>Challenge Locating Existing Utilities</p>	<p>During Pre-Construction (Design phase) the planning and location of existing utilities will be key to the success of the field work (specially in open cut, HDD areas and FDOT crossings). As part of the of the Constructability Review, Arcadis will coordinate with the Design Builder's location plan that they will identify all potential existing utilities in the work areas by contacting location services, contacting utility agencies, performing site walk throughs in the work areas. Test pitting and handle excavation will be key to identify and locate exact locations of these utilities by the Design-Builder.</p>
<p>Solution Arcadis' Plan of Action</p>	<p>Arcadis will plan these activities with the Design Builder far in advance of the planned work as shown in the Design Builder's schedule and look-ahead schedules.</p>
<p>Challenge Construction in Highly Developed Areas</p>	<p>The work will be conducted in a highly developed area in the City consisting of both residential and commercial properties, and City, County and State Right of Ways. Construction of the project will require our team to communicate real time data and issues between the City, County, State, Design Builder, Engineer and the Public on any given day.</p>
<p>Solution Arcadis' Plan of Action</p>	<p>Arcadis will provide support to the City and Design Builder to develop a comprehensive communication plan to acknowledge, respond and resolve any issues that may arise during the project. Communication protocols, project deliverables, roles and scheduling responsibilities will be outlined in the communication plan per the City's Strategic Communications Procedures.</p>
<p>Challenge Force Main CCTV, Cleaning and Profile Alignment</p>	<p>One of the key elements in preparing for the lining work is for the Design Builder to determine the condition of the existing force main. For compression fit lining and CIPP rehabilitation projects, the CCTV data and proper cleaning of the host pipe is critical to the success of the installation. During this activity, the Design Builder will also verify the host pipe alignment.</p>
<p>Solution Arcadis' Plan of Action</p>	<p>Arcadis' field inspectors have extensive experience in sewer and force main rehabilitation projects and are NASSCO certified. This experience will be used to ensure field investigations are accurately completed/documented and then thoroughly reviewed to ensure successful installation of the new liners.</p>
<p>Challenge Force Main Rehabilitation</p>	<p>The rehabilitation of this force main consists of several key features of work which will need to be planned, scheduled, inspected and coordinated with the City's operation and maintenance staff. These features of work include the installation of the liner (compression fit of CIPP) through the existing PCCP force main. This work will require well planned staging and lay down areas to support the large volume of HDPE material for each pull for compression fit or resin trailers and application equipment for CIPP.</p>
<p>Solution Arcadis' Plan of Action</p>	<p>Our inspectors will inspect the work for quality, obtain required quality control reports from the contractor and ensure the Design Builder works within the limits of disturbance. Our team will coordinate with the Design Builder for the look-ahead schedule and ensure all pre-planning has been completed including required submittals, permits, notifications, etc. well in advance. Clear and concise communication will be key during this work.</p>

Technical Approach to Performing the Work

Arcadis' goal for every project is a fully satisfied client and we want to be your trusted agent. We understand that the critical element in successful projects is people. Therefore, we staff our projects, so our clients receive excellent technical expertise delivered through a responsive local leadership team. Contract Manager, Leah Richter, will be responsible for properly staffing the project and assignments under this contract to assure the right team is assembled and ready to serve the City of Fort Lauderdale.

Arcadis wants to be a valuable asset to the City of Fort Lauderdale's design and construction program as outlined in the RFQ. Arcadis has a mature Construction Management (CM) and Construction Engineering & Inspection (CE&I) practice with the tools, systems, and protocols to deliver your project with quality and in a timely fashion.

Construction Management and CEI Methodology for Delivery

As project and construction managers, we optimize cost, improve operability, improve the plans and specifications to obtain competitive bids, and facilitate quality construction. Arcadis has extensive experience in the construction management and inspection of municipal utility projects and are well suited to meet your CEI needs throughout this contract.

We have much experience on alternative deliveries such as design-build, design-build-operate, CM@Risk and Public Private Partnerships so Arcadis is quite comfortable managing and overseeing this D-B contract.

Successful Project Delivery

Arcadis will provide the appropriate mix of technical services and staffing with high-performing individuals so that the project will be delivered consistent with project goals.

Minimizing Delays

Schedule slippage is a common malady in construction project performance. Contractors are always on the lookout for opportunities to shift responsibility of delays onto the owner, making management and control of progress very important. Arcadis implements requirements for Critical Path Method (CPM) schedules where possible on individual projects. This allows accurate determination of construction and administration progress and also allows analysis of delays and responsibility. Having an overall CPM schedule in-hand also allows comparison of a contractor's two-week lookahead with activities shown for the same time period. This type of activity is executed on a weekly or bi-weekly basis as a component of regularly scheduled coordination or progress meetings.

Time and cost are inextricably linked in project management and execution. **When schedules are managed and controlled through frequent review and analysis, momentum is maintained, completion occurs on-time, and costs are kept in line with projections.** When schedules slip, momentum and progress are lost, time frames are extended and added costs can be incurred, not only for the contractor, but for the Owner as well.

Administration and Communication

Contract administration and communication are interrelated when it comes to project execution as these are key for management of the project. Arcadis has many procedures and platforms for keeping everyone informed and for providing necessary day-to-day organization through established procedures. Arcadis will implement electronic web-based document control platforms that will streamline communications and enhance administration of the construction contract. This includes tracking technical submittals for review, meetings, reports, requests, and correspondences.

Controlling Costs

Cost effectiveness begins at the outset of projects. During the project development phase, effective cost estimates are essential. Costs and budgets are estimated for each phase of the work with levels of contingency equal to the amount of unknown risks involved. As the risks are clarified and managed, contingency amounts can be reduced. If the costs were originally developed on sound estimating procedures, commodity prices and proper escalation - accurate budgets result.

As explained above in **Minimizing Delays**, time and cost are inextricably linked. **When project momentum is maintained through effective schedule management, cost estimates fall within the original estimate assumptions and projects can be completed within budget.** Also as explained above, delays in momentum can result in added costs - responsibility of which can be determined through effective schedule and delay analysis.

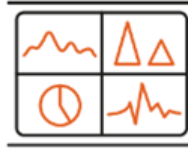
Arcadis has a strong cost management approach to project development including expert cost estimating based on ENR commodity indices, regional price adjustments and real-time estimating scenarios as Arcadis is a builder and constructor. Other tools for cost control we have at our disposal include Value Engineering and Constructability Reviews.

Effective Document Control

Arcadis will implement Orion, an electronic web-based platform, as explained above in Administration and Communication, that also serves to issue, record and track administrative project documents. This is essential for assurance that the project was executed properly and for future references. Project documentation includes meetings, letter, emails, reports, and change documents. Our platform streamlines processing procedures, tracking documents and issuing notifications which facilitates effective communication and coordination. All types of documents are retained within the platform until the end of the project when all will be gathered for turnover to you, the Owner.

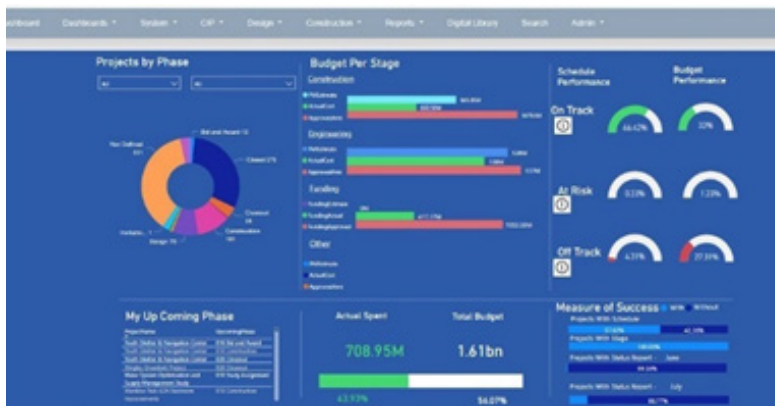
Arcadis will monitor the construction of project using Orion Portfolio Manager (Orion). Orion is a web-based, Program Management Information System (PMIS).

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Problem Resolution

Every construction project has issues and problems that must be addressed in a timely fashion and with high confidence of technical resolution. These issues and problems can range from miniscule to major with catastrophic implications. Arcadis' approach to issues and problems at the point of construction is to resolve them at the lowest level possible in the field before taking the issues up the chain of management. This requires experienced and knowledgeable onsite personnel to work shoulder-to-shoulder to resolve minor issues, e.g. an inspector and a trade foreman or site superintendent. When successfully resolved and the specific design intent is met, it is explained to others and it becomes documented in a number of project document types. If an issue cannot be resolved with onsite collaboration, the issue will be kicked up the chain for resolution. Arcadis implements a problem resolution matrix in the project documentation to show how this works.



Construction Administration

Construction administration comprises the overall planning, coordinating, executing, and staffing the projects to adequately administer the construction contract requirements for the project with the goal of managing time, cost, quality, risk, and safety for successful delivery.

What better way to accomplish this goal than the application of solid project management techniques to the construction phase. Many of the techniques and procedures implemented by Arcadis are as prescribed by the Construction Management Association of America (CMAA), the largest construction management organization in the country.

Arcadis will staff the project with the appropriate mix of personnel that will provide the necessary level of technical oversight and control for compliance, keep stakeholders informed, resolve issues at the lowest level possible in the field, control schedules and costs. This includes implementing electronic web-based platforms to expedite communications and processes such as technical submittals, RFIs, meetings, reporting and correspondences; the rigorous day-to-day presence onsite to observe work at the point of construction; and implementing the management techniques necessary for control of schedules and costs.

This work will also involve performing true third-party services during construction for projects where Arcadis is not the designer. We believe a successful project requires a team effort and cannot be accomplished by a random set of individual players. Rather, a successful project results from a united effort to assist each other, facilitating a “win-win” situation for all parties.

Our experience in coordinating team efforts has been a primary component of our successful track record. Our approach is to be collaborative with both the designer and the contractor, while always keeping our client at the forefront of our inspection and decision-making processes. While we can certainly hold the engineer’s or contractor’s feet to the fire when necessary, projects go more smoothly and are more successful where a collaborative environment exists, not a combative one.

Safety

Nothing can negatively impact a construction project more than an injury or death on a project site. Construction contractors and Owners must have their own safety programs, and Arcadis has its own called **TRACK to Zero**. See the Commitment To Safety section for extended discussion of our safety program.

TRACK TO ZERO TRACK



THINK
through
the task



RECOGNIZE
the
hazards



ASSESS
the
risks



CONTROL
the
risks



KEEP
Health and
Safety first in
all things

Arcadis field staff are very knowledgeable in our Safety program and it is taken very seriously. The health and welfare of others onsite are not excluded from this program as our field staff are authorized to point out potential safety violations when observed. **And in the case of an imminent danger situation, ANYONE must stop the immediately to prevent an injury or worse.** Our safety program also solicits reporting of construction site safety behavior by tracking ‘Near Misses’ and ‘Close Calls’. This protocol helps keep the safety mindset at the forefront of daily staff activity. Further details of our safety program follows in the Commitment to Safety Section.

Resident Engineering

Arcadis has ‘deep bench strength’ of highly qualified engineers that can be mobilized for short or long-term assignment in the field in order to oversee problematic construction, to provide timely resolution of construction problems, and to provide continuity of services across many projects at the same time. These engineers, referred to as Resident Engineers (REs), are typically more qualified for the technical side of design and construction. Many of Arcadis’ REs are Professional Engineers (PEs) and may function interchangeably as design engineers. Our inspectors proposed for this project have been selected based on their experiences on how these aligned with the City force main project.

Inspection Services

Construction Inspection is at the heart of Arcadis’ Construction Services offering. Qualified inspectors are at the point of construction continuously every day witnessing that construction is as designed and specified. To do so, inspectors must be highly knowledgeable of the contract documents in order to make certain that the construction work is being done in compliance with the documents.

Construction Inspectors are an intrepid, resourceful and deliberate group of people that choose to be at the point of construction for you, the client, sometimes under less-than-ideal environmental conditions, to make certain that construction is proceeding according to its design intent. Arcadis has such a group of people.

Our deep bench of resources will allow the City to always have “eyes” on the project. For example, for A-16 PS City Project, we provided inspections to cover both day-time and night-work without any staffing issue. We believe for this Project, based on requirements from some agencies night work will be required, and our staff is available to cover both day and night work as well.

These inspectors observe construction as it progresses and they document their observations thru Daily Reports to keep everyone informed, but also, to serve as a record of the details and sequences of construction as it occurred. Inspectors also must work shoulder to shoulder with trade labor in the field to accomplish the work as specified and to resolve problems in the field at the lowest level possible.

Successful Project Delivery Services

Arcadis is committed to success! We bring a proven track record and a highly experience team to your force main project. To further strengthen our pursuit of success we will strive to identify issues early, apply lessons learned, maintain project momentum, and serve in your best interest!

To further represent our overall approach, read on to find further details of our tools, systems and protocols we will be implementing on your force main project.



Pre-Construction Services

Initiation of CM services typically includes the development of a detailed project scope, determination of roles and responsibilities, a stakeholder register and a project kickoff meeting. It is critical to establish a clearly defined strategy that sets the stage for a successful project. In partnership with the City, the project team will establish how the project will be managed, the project scope, objectives and deliverables, team member roles and responsibilities, and success criteria.

Arcadis can provide several valuable pre-construction services including:

- Scope development assistance
- Constructability review
- Pre-bid conference assistance

Project Pre-Bid Conferences: At this meeting, a shared understanding of the goals of the project with all stakeholders is created by reviewing the project scope, schedule, established expectations, and clarifying roles and responsibilities. The results of this meeting are memorialized and distributed to all attendees and serve to set the stage on how the project will proceed.



Delivery Through Execution

Arcadis' integrated CEI Project Delivery system comprises contract administration, resident engineering and inspection. Arcadis is uniquely qualified to provide the following CEI services:

Construction Management Plan: Arcadis implements a Construction Management Plan (CMP) on all its construction project that define how the construction contract will be administered including:

- Contact information
- Site emergency procedures
- Submittal and RFI procedures
- Roles and responsibilities
- Communication procedures
- Pay request and schedule update procedures
- Problem resolution matrix

The CMP will be coordinated with the construction contract, the drawings and specifications and the planned approach to the job. Thus, a well-integrated system for project management is established and communications and methods of information management are described. This will be integrated and consistent with the contract documents and will support the development of a job record and documentation system. Comprehensive records will minimize contractor claims and will save research time if claims are made.

Preconstruction Conference: Arcadis will conduct a preconstruction conference with the contractor and key stakeholders to outline the required administrative procedures and contractual terms, and to review the contractor's strategy for procurement and construction.

We would focus on the conformance of those strategies to the schedule milestones. The CMP would be distributed and discussed at the preconstruction conference.

Document Control: Arcadis will implement a document control platform that streamlines communications, requests and submittals. All project participants will be invited to use this platform, and training will be provided as necessary. These document control platforms help us administer the contract and monitor and track the status of any type of documentation at any given time in the contract.

Construction Progress Meetings: Arcadis will chair and provide minutes for regular construction progress and coordination meetings. For best results, we recommend weekly meetings, but that frequency can be changed depending on the complexity and speed of the project.

We also take this opportunity to analyze the contractor's plan for the next couple of weeks ahead. This is done for coordination with any owner activities, but also, to compare the lookahead schedule to the project schedule for compliance. The two should compare favorably.

Field issues and problems will be discussed as well as any administrative conditions such as submittals, RFIs, and change requests.

Construction Administration: Arcadis' construction managers will coordinate with City PM to assure construction is proceeding according to City requirements; that contract requirements are being met; and to inform all of project status and issues.

Administration occurs continuously during the contract duration by the CM, admin staff, and inspectors to make certain that the contractor is meeting all construction and administrative requirements.

Construction Resident Inspection: Our resident engineers and inspectors will work shoulder-to-shoulder with the contractor to make certain that the work performed is in conformance with the contract documents, approved shop drawings and any approved changes. The resident inspector will conduct and record on-site observations of the engineer and work in progress with such frequency as necessary to verify accuracy and quality of installation and materials installed; prepare daily inspection reports providing a log of activities in progress and completed, including an accounting of labor and equipment, noting discrepancies, discussions inspections, test results, weather, and other pertinent information. Photo document the work progress; reject any portion of the work and transmit to City, engineer and contractor a notice of non-conforming work when it is in the opinion of the CM, City, or engineer that such work does not conform to the requirements of the contract documents. The contractor's work zone traffic control plan will be reviewed and any issues reported to the City.

On a recent project for another client, an Arcadis inspector identified as issue the contractor was having with another contractor's inability to locate utilities in a timely manner, and often times were mismarked. Our inspection team kept the client alerted of the issue and helped identify areas of concern. Further, the CM noted these concerns in the monthly meetings and assisted in the collaboration of discussions with the contractor, client and the gas and electric company to resolve the issue.

Review of Contractor's Payment Requisitions:

Arcadis will review contractors' monthly payment requisitions and recommend payment on the basis of work completed.

Payments shall not be authorized before the project schedule is updated, material quantities counted and deficient work corrected. Arcadis will report on the monies invoiced and remaining throughout the project.

Field Testing, Start-up and Commissioning:

Arcadis will coordinate with the contractor to develop an overall startup and commissioning plan, including a schedule of activities for turnover of the project with the contractor and the City operations staff.

Arcadis will observe and document all tests of materials and equipment, oversee and coordinate training sessions for City operating personnel.



Monitor and Control

Arcadis will implement proven processes to monitor project progress and against the plan and taking corrective action where necessary. Process for review of work, rejection of defective work, inspections, and tests:

1. Conduct on-site observations of the work in progress to make certain that it is in general conformance with contract requirements. Identify and report to the City work that is unsatisfactory, faulty or defective or does not conform to the contract documents, or has been damaged, or does not meet the requirements of any inspection, test or approval required to be made.
2. Verify that tests, equipment, system startups, and operating and maintenance training are conducted in the presence of appropriate personnel and that the contractor maintains adequate records thereof; and observe appropriate details relative to the test procedures and startups.
3. Verify that equipment delivered is per the approved shop drawing.
4. Verify that equipment is stored per the manufacturer's recommendations.
5. Accompany visitors representing public or other agencies having jurisdiction over the project and record the visits.
6. With input from Arcadis' project manager, the City and the engineer, evaluate the contractor's suggestions for variations from the contract plans and specifications.
7. Inspect environmental measures including control of discharged water and direct contractor to take whatever actions may be required to fully comply with approved sediment and/erosion control plan.

Change Management and Change Order

Resolution: Changes occur on any project so change management is vitally important for control of costs and schedule. These changes usually occur as a result of unknown conditions or interferences too small or too complex to be recognized during design.

We often come across as-built situations which prohibit work to proceed as planned. During a recent lining installation, after reviewing the CCTV camera footage, our inspection team noted the sewer line was not lineable due to its installation and layout. **Therefore, a different approach was needed and was charged from lining to open cut replacement.** When working underground, one must “expect the unexpected.” We use our experience to make sound recommendations to the client. **These constraints and differing conditions affect contractor schedules and require us to be flexible in our workload, as well as responding to stakeholder concerns.**

Arcadis approaches changes with care and deliberation. Some changes are straightforward and valid but others can be much more complex and elusive. Upon receipt of a change request, we analyze it to clarify and detail what is the change and why is it a change to the contract. After discussing it with the design engineer and you, the Owner, to develop an approach for resolving the matter, we get a comparative cost estimate from our cost estimating team. The CM will analyze the estimate and schedule a negotiating session with the contractor’s PM. This may require several meetings to resolve if it is a complex issue. But after preliminary agreements are reached, we inform and discuss with you and the design engineer for appropriateness. We are then able to forge an approach to a final resolution of cost and time.

Schedule Monitoring: After establishment of a baseline schedule at the outset of the project, we will analyze the contractor’s required monthly updates for progress and status against a set of technical key performance indicators (KPIs). If progress is shown to be falling behind schedule, we request a recovery plan capable of getting the project back on track.

Lookahead schedules required at each periodic coordination meetings will be compared to the same time period on the project schedule another indicator of progress.



Time and Schedules. Our team will focus on the Design Builder planning and scheduling of the work which will be critical to the project’s success. Arcadis strongly believes that schedule performance by the Design Builder is key to an on-time completion date. We will work with the Design Builder to identify the planned activities which are to either start and/or finish in the upcoming period and monitor the daily and weekly work being performed to maintain the planned schedule. If the Design Builder’s schedule slips, our team will request a recovery schedule from them. The recovery schedule will be reviewed by our experienced team and will work with the Design Builder during this process. Our team has the capability to provide time impact analysis, supporting delay claims, liquidated damages, etc., and can support the City on negotiations with Design Builder and vendors, as-needed.

Our experience shows that waiting until the end of the project to identify and resolve delay issues is an ineffective approach to dispute resolution. Performing this analysis contemporaneously enables a cost-effective analysis that is more accurate than an evaluation performed at the end of the project.

Site Safety Monitoring: Arcadis has made a significant commitment to delivering safe, environmentally compliant construction projects. The enforcement of OSHA and company regulations is of utmost importance to any project we manage because the safety of all personnel at the site is a paramount objective. Therefore, before a project begins, we produce a written project-specific s Health and Safety Plan (HASP) for Arcadis staff. Safety of construction personnel at the construction site is the sole responsibility of the contractor. We will periodically monitor the site for general compliance with the contractor’s safety plan and report any observed violations to the contractor and the City.

The contractor has its own safety program but we observe the contractor's performance and warn of activities that might be OSHA violation or violation of their own safety program.

Arcadis is concerned for the safety of all stakeholders in our projects and for this reason will plan to use a "stop work" order for the contractor if warranted by significant unsafe conditions.



Project Closeout

An important aspect of the Consent Order regulation is the Project Closeout. It is essential to formally close the project and secure sign-offs/approvals from stakeholders sponsor. Arcadis has an excellent record of completing projects, including the completion of punchlist work, resolution of outstanding change orders, full warranty activation, and compliance with all requirements of the Owner. We will maintain complete records for the project. These records will be turned over to the City as the official record file. All construction files, copies of warranties, guarantees and insurance certificates, the daily construction log, record drawings, and the conformed and posted contract specifications will be transmitted to the City upon contract closeout.

We focus on the closeout phase from the very beginning of a project because we know that punch lists items, corrections, equipment adjustments, certifications, and other details extend the project completion time. Closeout will include the following:

- Punchlist inspection and guarantee inspections.
- Administrative punch list item review and confirmation of completion.
- Substantial completion inspection.
- Final inspection of all work, controlled inspections and follow-up inspections.
- Scheduling final integrated equipment and system checks.
- Operations and maintenance procedures training for staff as appropriate.
- Review and acceptance of "As-Built" drawings.
- Final delay analysis and final extension of time report.
- Certificate of substantial completion.

- Completion of punchlist work.
- Final waivers of lien from contractors.
- Guarantees/warranties.
- Final applications for payment.
- Written deficiency notifications to the contractor.
- Lessons learned documentation.



Risk Management

Management of risks on any given project is key also for managing costs and schedule. Unknown risks represent added costs for either the contractor or for the owner. **Early identification of risks is essential for controlling its effect on costs and schedule.** There are several tools for identification of risks including Risk Registers, Constructability Reviews and Value Engineering studies.

Risk registers typically begin life during the design phase where risk effect on design options are considered. Where risk registers are initiated during the design phase, they can become a tool for use in the construction phase. Arcadis is adept at using this tool to identify risks and then apply techniques for managing those risks. This, in turn, helps to control costs and to assign responsibilities for managing the risks.

Constructability Review (CR) is an integral part of Arcadis' overall cost, quality control and risk management system. Arcadis is not only an Engineering firm but we are also a constructor and **we perform constructability reviews from the standpoint of a constructor having to bid and build the project.**



Constructability reviews are an integral part of the overall Arcadis project quality assurance system. We are very experienced in the review large diameter conveyance projects and have been able to manage numerous programs without resultant litigation. A thorough constructability review is valuable in the reduction of change orders and potential claims that could delay the project completion.

Arcadis has reviewed the RFP that was issued in December 2023 for the Design-Builders. Having reviewed it, we understand that for this project, the thorough constructability review should include among other things the following:

- Are there any inconsistencies in the plans and specifications, which could lead to higher bid prices or claims?
- Are special requirements for different trenchless methods or CIPP liner work included or considered?
- Do bid quantities properly reflect the proposed contract work?
- Potential for cost savings are identified? HDD vs Open Cut in Downtown area
- Is there space available for laydown areas (pipe fusing, HDD equipment)?
- Stakeholder notifications and response to stakeholders' issues are adequate?
- Worksite Control and Housekeeping?
- For HDD and compression fit liner, fusing location and roller location, blocking main accesses like schools and/or Federal Buildings.
- Location and Sizing of the Pits (to reduce excavations).
- Dewatering disposal and location of dewatering equipment?
- Maintenance of Traffic.

Arcadis' constructability review is not another drawing review - it is a detailed analysis from a contractor perspective of potential change order conditions. We review the project from the standpoint of time, cost, quality, risk and safety in a facilitated workshop forum so that experts in each discipline can communicate and coordinate freely with each other in the same room with some of the following elements in mind:

Time - Identify elements that can adversely impact the project schedule and if the project can be constructed within the contract time allotted.

Cost - Verify if the engineer's estimate is valid, if the contingency used is appropriate for the design stage or if all the unknowns have been accounted for.

Quality - Confirm that all the disciplines have been coordinated for fit and interference, and checks for complex construction that can be simplified.

Risk - Verify if all the bidding and construction risks have been identified, assigned appropriately and accounted for in the cost estimate and contract documents.

Safety - Verify that the project can be constructed safely with the design intent. Simply stated, the constructability review simulates a constructor's view of the construction resulting in:

1. A well-defined set of contract documents;
2. A plan for construction with provisions in the specifications to properly manage the construction process; and
3. A tool that allows the contractor to plan necessary resources and costs to properly prosecute the work on time and within the engineer's estimate.

Research by the Construction Industry Institute (CII) shows that properly conducted constructability reviews can save 4.3% of project costs and 7.5% of project time. These savings represent at least a 10:1 return on investment to the owner. For a design phase CR, we use a facilitator to guide and manage the review process and we have comprehensive checklists representing common major faults found on designs. Then we provide resulting commentary to the owner and designer in report form for implementation in the project design. For a construction phase CR, the CM/CEI team performs its own analysis, not only to find weak or problematic elements of the project, but to understand the project and become as knowledgeable as the contractor.



Value Engineering (VE) is a great risk management tool for validating large complex projects when conducted early in the project development process. It affords development of alternative options that either can reduce costs or add value to the project. Risks are considered when evaluating development alternatives.

Scheduling Methodology (Timeline)

Arcadis recommends critical path method (CPM) schedules for all but the smallest of construction projects. A project CPM schedule shows the contractor's detailed plan for executing the work and it is the driving force behind maintaining the momentum required to complete the project on-time. Arcadis also recommends "cost-loading" schedule activities to pay the contractor on an "Earned Value" basis. Arcadis recommends requiring project CPM schedules for the seven-listed projects.

A "Baseline" schedule is created at the outset of the project and then updated monthly to reveal actual progress. The updated schedule is then used frequently each week to compare the two-week lookahead to the project CPM schedule. They should coincide closely.

Support Capabilities

Arcadis has extensive local and national resources for support of staffing, consultation and technical innovation. Following are examples of available resources:

Weekly meetings are precision events regarding schedules. We learn the contractor's plan for the next two-three weeks and what was accomplished the last couple weeks. This information is measured against the project CPM schedule for progress and momentum. If momentum is slowing, we stand ready to offer suggestions to regain momentum or possibly to request a recovery schedule.

Electronic Document Control Platforms

- Arcadis has extensive experience with electronic document control platforms such as eBuilder, ProCore, PRolog, Oracle and others.

Cost Estimating- As a large international consulting engineering and construction firm, Arcadis has advanced, robust cost estimating capabilities for supporting Change Management, budgetary estimates, and alternative analysis. Our Cost Estimating practice uses commodity pricing, ENR price indices, and regional adjustments in its cost estimating procedures which results in accurate estimates at any level of project development.

Discipline and Trades Support - Arcadis has unlimited resources for support of design and construction issues related to infrastructure, technology, structural, mechanical, electrical, instrumentation and control.

Technological Innovation - Arcadis has a proven track record of technologically innovative projects and knowledge of innovative products that could be consulted if necessary.



Staffing for Success

Arcadis understands the potential problem of staffing the ebb and flow of pipeline construction projects especially when concurrent work is being performed in other segments of the pipeline. We have staffed our organization chart with multiple members in the specialized assignments to work collaboratively in providing continuous service for all project assignments. The core staff assigned to your project are expert designers, engineers, managers, and inspectors. They will be supported by a deep field of staff that will provide additional expertise when and where needed, especially in times of high workload.

The Arcadis team can assist in the oversight of the construction by providing highly qualified inspectors who have the depth and flexibility to respond when needed, whether it be planned or an emergency situation.

This contract will be managed from our office in Plantation, FL, which is 20 minutes from the project site. We understand the regional and local issues and are adept at solving the difficult issues that face public utilities today, including difficult rehabilitation projects, constrained budgets, future capacity needs, customer expectations, and tight schedules. This experience, coupled with our local personnel and national experts, will bring fresh ideas to the City of Fort Lauderdale.

We have an extensive local “bench strength” to provide experienced field inspectors and other CM staff support on an as-needed, on-call bases.

To keep the City abreast, streamline communication and provide a single source of information, our proposed **Construction Manager, David Morgan**, will share a daily morning report with the City’s project manager that will outline all anticipated activities being performed by the contractors and inspectors on the project.

Continuity of Service

Arcadis has listed several team members for inspector’s position in the project organization chart. This was done to show that we have serious capabilities for staffing the City’s project. These alternate names in the organization chart serve to show our “deep bench strength” which may be required if work is performed

in multiple areas simultaneously. This way, continuity of service is provided across the entire project.

Commitment to Safety

Safety is at the forefront of every Arcadis job to protect our most valuable asset - our people. Arcadis is committed to providing a healthy and safe work environment for our employees, subcontractors, clients, and visitors.

A safe construction program does not happen by accident but rather requires a totally trained behavior by all project participants. Our approach will be to work proactively with the City and the Contractor(s) to keep health and safety priority one at the forefront of every project — **Arcadis Fundamental Health and Safety Principle No. 1: Demonstrate Health and Safety Stewardship Daily**. We train our site staff in safe behaviors and we will assist the City in monitoring the site for unsafe construction practices to the Contractor’s attention and advising the City to mitigate health and safety related risks.

Firm’s Current Workload Team Availability

Arcadis’ client-focused project management approach (PMA) maintains a project staffing schedule, much like a project CPM schedule, so we can effectively manage project staffing. Arcadis project principals review project status periodically for comparison with our staffing schedule in order to provide continuity of service and availability of appropriate staff. We have a solid understanding of the importance you place on timely performance and schedule adherence. Our PMA tools and emphasis on continuous schedule review will provide additional tools in achieving solid schedule performance on our projects for you.

Safety Commitments



- 1 Our work is never so urgent or important that we cannot take the time to do it safely.
- 2 All injuries are preventable.
- 3 Everyone is obligated to refuse unsafe work.
- 4 Everyone is obligated to raise concerns about the hazards seen.
- 5 All levels of supervision are accountable for safety performance.
- 6 Employee and contractor commitment is essential for safety performance.
- 7 Excellence in safety leads to excellence in business.
- 8 Safety attitude off the job is as important as being on the job.



**30-inch HDPE Water Main
- Approximately 1,000 LF to
cross under the Tarpon River.**

Current/Anticipated Workloads

The staff resources available in our local and regional offices provide significant “bench strength” that facilitates required resource allocations to meet the City’s needs. Our South Florida offices (Plantation, Boynton Beach, Boca Raton, Coral Gables, and Miami) include more than 185 professionals to cover the potential services described in this solicitation. We have more than 350 additional professionals located throughout Florida. Key project personnel are available to initiate the work immediately upon contract execution and to continue work on an ongoing basis. Furthermore, we commit to providing other resources as needed to supplement the proposed team to meet your needs. Our Contract Manager, David Morgan, will be responsible for scheduling and committing team resources to assigned project and incorporating additional staff as needed.

Name Role	Availability	Name Role	Availability
David Morgan, CIPP Construction Manager	100%	Vicki Lehr, PE QA/QC	40%
Lia Dombroski, EIT Inspector	100%	Chris Matthews, PE Cost Estimating	30%
Garth White, EIT Inspector	100%	Alesia Fiocca Scheduling and Project Controls	40%
Darryl Dunn, PE Constructability Review	75%	Bhadrash Patel Scheduling and Project Controls	30%
Scott Stangle, PE Pipeline Technical Advisor (CIPP/Compression Fit/Open Cut)	75%	Chris Remme, CCM, CCP, PSP Cost Estimating	40%
Jose Custodio, PE Pipeline Technical Advisor (HDD/Open Cut)	75%	Leah Richter, PE Contract Manager/PIC	30%
Steve Woodhurst Inspector	30%	Chris Tilman, PE Environmental Compliance	30%
Tyrell Denson Inspector	30%	Tina Laird Project Administrator	30%
Jeff Luetjen Inspector	60%	Melissa Hew, CFM, WEDG Sustainability/Resiliency	25%
Bryce Kaufman Inspector	60%	Roy Cooper, PE Contract Solutions	20%

Innovative Approaches

Enhancing Efficiency and Reporting Through Digital Tools

Arcadis utilizes industry-leading digital platforms to enable seamless collaboration, along with visual, interactive, and easily accessible solutions for our clients.

Project Tracker and Tracker App

Prior to Construction, the Project Construction Manager conducts a takeoff of the work and develops a project tracker which is uploaded to Orion. The Tracker contains critical information related to the work such as the following:

- A complete list of assets being rehabilitated.
- Critical asset information for each asset (e.g., pipe length/diameter/shape/#services, manhole depth, lateral diameter).
- Rehabilitation requirements for each asset (e.g., any repairs required prior to HDPE lining) shown in the plans or identified during review of pipe inspection CCTV.
- HDPE Information (e.g. calculated liner thickness, pull forces for installation, etc).
- RFI that impact each asset being rehabilitated.
- Deliverable and QA information (e.g., Pre/Post CCTV findings, liner testing, etc.).
- Bid Item Reconciliation - Inspector daily report totals are entered to Orion, reviewed by the CM and posted to the Tracker.

- Totals for each pay item are quickly reconciled at month end for the contractor’s monthly payment application approval.

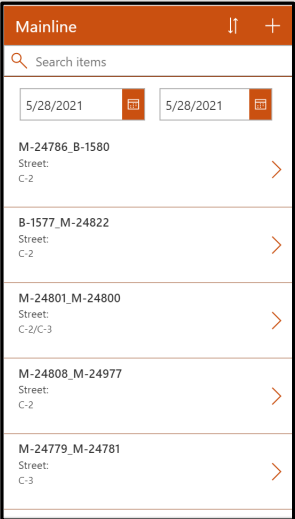

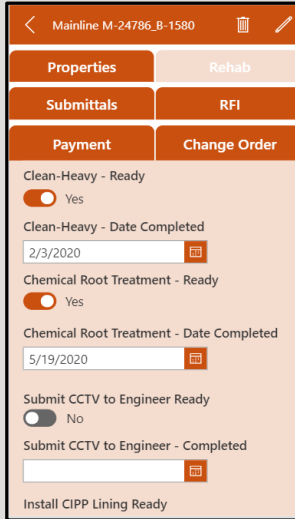
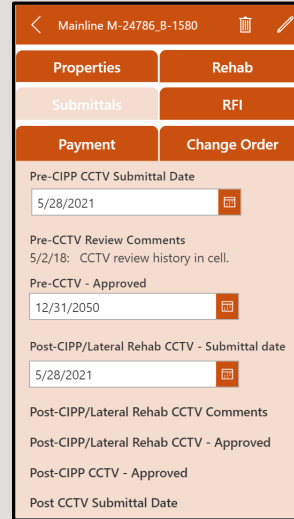
Once the takeoff is completed, a database is created from the Project Tracker above which is then linked to the Project Tracking App (PTA) which the field inspector and construction management team can access using smart devices. The PTA also offers a dashboard which provides the Owner with project status information such as % work completed, deliverable status and bid item quantities.

In summary, the PTA connects the CM team and the Owner to critical “real time” project information contained in the Tracker, thereby providing City of Fort Lauderdale with a tool that will enhance overall construction management from project start to completion.

Mobile Data Collection

Arcadis can bring the value of digital data collection to this project using of a mobile-friendly data collection tool. This tool will standardize data at the point of collection and improve efficiency, accuracy and allow scaling effectively.

Field App For Sewer Rehab

Look Ahead	Pipe Information	Pipe Rehab Required	Submittals
 <ul style="list-style-type: none"> ✓ List of lines in scope ✓ Lookup window to filter upcoming work ✓ Search bar 	 <ul style="list-style-type: none"> ✓ Selected Line Properties ✓ Tabs to Update Rehab Progress 	 <ul style="list-style-type: none"> ✓ Update rehab site readiness ✓ Update rehab completion 	 <ul style="list-style-type: none"> ✓ Update submittal status

Traditionally, construction inspectors walk a construction site with design drawings while making notes in margins to record observations, construction progress and contractor change orders. The time it takes to get these notes from margin to action can mean costly mistakes or project delays. To make our inspectors more efficient, we use Tablets.



Document Management System

We offer BIM 360 document management platform which will provide continuity from the design phase to the construction phase by connecting the construction team and the construction data to the design. This platform will serve as a centralized location for all project data and will provide controlled access to stakeholders when they need it. This platform will connect the project team and data in real-time and will support informed decision-making throughout the project. The project team will have the right information at the right time – keeping the project on time and on budget.



Drone Imagery

We offer the use of drones equipped with high-quality cameras to reshape the realities of site monitoring. Our drones are all FAA-registered and we have a team of FAA-certified pilots. We use drones to see the big picture.



Remote Expert

Remote Expert technology allows for real-time work activity visualization and collaboration. Our staff will use handheld devices or a hardhat-mounted android heads-up display headset

which will allow that person a completely hands-free, voice-controlled user interface. We will use this seamless connection to stream live video from the field and digitally annotate site features to provide expert guidance and oversight from anywhere. Remote Expert allows our on-site workers to consult in real-time with subject matter experts, oversight staff, and stakeholders and will allow you to remotely walk the site as if you were there in-person and will save time and money.

Tablets will be used specifically to help our inspectors to be more effective and efficient when they are in the field monitoring construction activities. Project drawings and specifications will be pre-loaded onto the device and will be easily searched, accessed, digitally edited in the field, and transmitted to the team for immediate action. We will also append drawings and specifications to include design changes during construction and approved Shop Drawings, giving our inspection staff that ability to have the latest information at the work site, right at their fingertips.

Some of the features of our Tablet application include:

- **Real-Time Revisions.** Document changes will be made as the work is executed, reducing lost documentation, and increasing accuracy in the document set.
- **Always Up-to-Date.** Field information will be appended to the existing set of new drawings and specifications, providing staff with updated information they need to make the most informed decisions.
- **Enhanced Communication.** Contact information is included for each document, providing field personnel a backup for immediate assistance.

Power BI Data Visualization Dashboard

To enhance Stakeholder Engagement, we will utilize Power BI as a data visualization dashboard tool and overall single source for record keeping and tracking. The City and Arcadis will be able to collaborate and share customized dashboards and interactive reports. This can be scaled accordingly, and all users will be able to access data anytime and anywhere (using mobile applications) with built-in governance and security to control access, as needed. The dashboard is user friendly and customizable to track high level project metrics such as schedule, budget, and overall progress. Not only will this dashboard be included as part of the monthly reporting process, but it will also allow users to access project documentation from the Document Management System.

360° Photo Documentation

Photographically documenting work at every stage of construction allows us to document unforeseen conditions, quality installation of systems, verify construction was completed in accordance with plans and specifications, code issues, back check materials



used, change order verification, solve problems down the road, and quickly and easily verify if a problem is a systemic or an isolated issue without doing destructive verification.

360° images will provide enhanced visualization and digital replicas of site conditions and construction progress. We will capture a digital time record of site activities and changes - using immersive 360° photos, that will be tagged, annotated, and placed relationally on the plans. 360° photos will also allow for more detail (full view of a room or area) that normal photos cannot capture.

This technology provides the following benefits:

- Track and analyze daily or weekly site progress in 360°
- Reduce documentation time by 50%+
- Know current site conditions anytime and from anywhere
- Simplifies document handover to the City

Resolving Issues Quickly via AR for Construction

By using Microsoft's HoloLens in combination with Visual Live 3D software, a model can be directly overlaid on top of active construction, merging physical and digital worlds together into one view. This quality assurance tool allows us to detect and resolve issues quickly, minimizing rework and associated costs. No drawing sets, no on-site internet connection, minimal design familiarity, and no measuring is required to compare new construction or existing facilities to based platforms for easy sharing. In addition to the HoloLens version, there is also a version for mobile devices which can toggle between Augmented Reality and Virtual Reality (VR). Having a variety of viewing options lends flexibility to the technology and allows it to be shared with others or used during internal and external meetings.



Section 4.2.6. References



4.2.6. References

- 1 Sarasota County**
Clark Road UWHCA (As part of the Continuing Services Contract)
 Rob Hesse, P.E.
 Utility Operations Manager
 Sarasota County Capital Projects
 1001 Sarasota Center Blvd.
 Sarasota, FL 34240
 941.275.2703
rhesse@scgov.net
Description of Work: Sarasota County entered into a Utility Work by Highway Contractor Agreement (UWHCA) for the Florida Department of Transportation (FDOT). The UWHCA included the relocation of a 16-inch water main under active and future ramps as well as Interstate 75 (SR 93), modifications to a 16-inch reclaimed water, and traffic fiber optic cables relocations along Clark Road (State Road 72) from Gantt Road to Hummingbird Avenue. The project included professional engineering services including design, permitting, bidding, and construction phase services.
Year Project was Completed: On-going
Total Cost of Construction (Estimated and Actual):
Estimated: \$1.44M; **Actual:** \$1.2M
- 2 City of Richmond**
Annual Contract for A/E Services
 Bob Stone,
 Engineer Manager
 1400 Brander St.
 Richmond, VA 23224
 804.646.8661
robert.stone@rva.gov
Description of Work: Over the past 15 years, Arcadis has been providing Construction Management and Inspection services for the City of Richmond's Wastewater Treatment plant and CSO projects. The managed projects total more than \$200M in constructed value, and none of their final costs have exceeded the original bid price. In addition, there have been no NPDES violations because of construction activities during that time nor have there been any unresolved claims. The services provided include Construction Management, Contract Administration, and Resident Inspection.
Year Project was Completed: Ongoing
Total Cost of Construction (Estimated and Actual):
Estimated: On-call; **Actual:** >\$200M
- 3 Orlando Utility Commission**
Orange Avenue Water Main Replacement
 Natalie Urick, PE
 Senior Engineer Water Distribution Engineering
 3800 Gardenia Ave
 Orlando, FL
 Office: 407.434.2847
 Cell: 321.230.6694
nurick@ouc.com
Description of Work: Arcadis provided construction management and inspection services for the replacement of approximately 4,350 LF of a 16-inch water main, maintenance of traffic (MOT) plans for the Utility Work by Highway Contractor Agreement (UWHCA) project, permitting, bidding, public outreach, and construction administration and construction inspection services. Orange Avenue is a busy corridor owned by FOOT with high traffic volume, hospitals, businesses, etc. which adds a level of complexity to the MOT and the construction sequence
Year Project was Completed: Ongoing
Total Cost of Construction (Estimated and Actual):
Estimated: On-call; **Actual:** \$11.3M
- 4 Harford County**
On-Call Services
 Steven D. Schulz, P.E.
 Civil Engineer III
 220 S. Main St.
 Bel Air, MD 21014
 Office: 410.638.3300 ext 1474
 Cell: 443.838.2352
sdschulz@harfordcountymd.gov
Description of Work: For over 30 years, Arcadis has partnered with Harford County to implement some of their more challenging water and wastewater projects. Arcadis has provided construction management and inspection (CM/I) services, for the award-winning Sod Run Wastewater Treatment Facility Enhanced Nutrient Removal project, the Abingdon Water Treatment Plant, the Bush Creek PS & FM and the Sod Run Bio Solids Dewatering project.
Year Project was Completed: Ongoing
Total Cost of Construction (Estimated and Actual):
Estimated: On-call; **Actual:** \$75M



Section 4.2.7.

Minority/Women (M/WBE) Participation



4.2.7. M/WBE Participation

Arcadis implements a M/WBE program that creates value for our clients as well as benefits our employees and our communities through the enhanced economic environment that the success of these businesses brings. Arcadis fully subscribes to the proposition that a climate conducive to the development, growth, and expansion of M/WBE businesses is vital to the economic health. We also believe in being an active participant in the community by providing mentorship to its students, building relationships with its community leaders, and promoting community M/WBE firms to embody the Arcadis core value of entrepreneurship. To encourage and support this value, Arcadis aggressively pursues subcontracting opportunities with small, disadvantaged, woman-owned, minority-owned, and service-disabled veterans' concerns in accordance with the laws and regulations of the U.S. government, the State of Florida, and Broward County. Arcadis has partnered with the following minority subconsultant for this contract:



WIRX Engineering, LLC is a certified SBE, CBE, DBE and MBE Professional Engineering Firm specializing in Geotechnical Engineering, Water Resource Engineering, Construction Management, Construction Materials Testing and Inspections services.

The WIRX Team brings a strong portfolio of geotechnical and materials engineering with extensive experience at the City of Fort Lauderdale.





Section 4.2.8. Subconsultants



4.2.8. Subconsultants

WE | WIRX ENGINEERING Role: Geotechnical Engineering Services, Construction Materials Testing and Inspection (CMT/CEI)

BENEFITS:

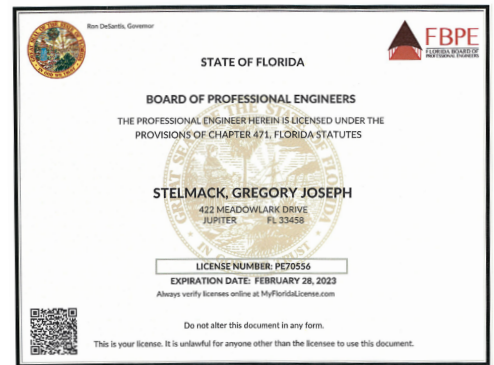
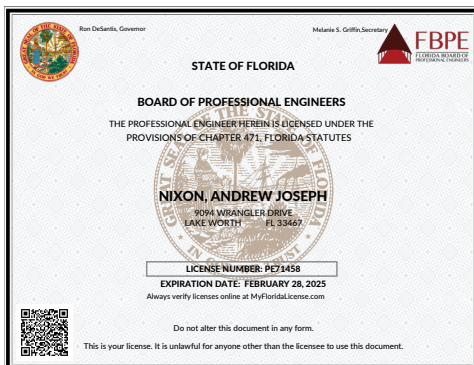
- WIRX is very familiar with the City’s requirements. Performed the geotechnical evaluation for the 48” Finished Water Pipeline for the new Prospect Clean Water Center.
- WIRX’s Principals have decades of experience working on 1000’s of projects in South Florida for numerous municipalities and government agencies; hence, no learning curve.
- WIRX understands the local geotechnical and materials challenges throughout South Florida and will custom tailor our solutions to these issues.

WIRX Engineering, LLC formerly known as WIRX Engineering & Construction, LLC is a Professional Geotechnical Engineering Firm with offices in Broward and Palm Beach Counties. Our services include Geotechnical Engineering, Water Resource Engineering, Geotechnical Drilling, Construction Management, and Construction Materials Testing and Inspections. Our 3 Principals have decades of combined Civil and Geotechnical Engineering experience, covering all aspects of a project including Design, Construction Engineering Inspection, Material Testing, Project Management, and Heavy Civil Construction. Our experience includes working on 100’s of high-profile projects with federal and local government agencies, including South Florida Water Management District (SFWMD), United States Army Corps of Engineers (USACE), Florida Department of Transportation (FDOT), and numerous City and County Agencies. We incorporate our experience and insight into the Contractor’s means and methods during the project design phase. This ultimately improves the constructability and the quality of the project, reducing unwanted change orders, facilitating communication and conflict negotiations, and providing the owner with the most cost-effective end-product.



WIRX holds all the required certifications and licenses from the State of Florida and the Board of Professional Engineers to operate our Professional Geotechnical Engineering, Construction Inspection and Material Testing Business. WIRX also holds small and minority certifications with the State of Florida M/WBE, Florida DOT DBE, Palm Beach County S/MBE, Broward County S/CBE and South Florida Water Management District SBE.

WIRX is a committed, professional, and cost-effective service provider, dedicated to providing the highest performance and ultimate in customer service. Regardless of the scale of your project, WIRX will develop a practical approach to successfully achieve your goals on schedule and within budget.





Role: Geotechnical Engineering Services, Construction Materials Testing and Inspection (CMT/CEI)

Stoner & Associates was founded by James D. Stoner, P.S.M. in 1988. Stoner & Associates has over fifteen employees, including four Licensed Professional Surveyor and Mappers, supervising four survey field crews. Stoner & Associates maintains an office in Fort Lauderdale, Florida. Teamwork and highly qualified personnel are the foundation of the company. Their team of Licensed Professional Land Surveyors has worked together for over twenty years. During this time, they have developed their skills and developed a team that can make accurate surveys seamlessly and efficiently. They also have developed the ability to work as part of a team, participating on large projects. They know that other professionals rely on their survey products for the basis of their projects and they take that responsibility seriously. Stoner & Associates is committed to using the latest technology. They employ the latest technology to produce high quality surveys. Their formidable arsenal of tools includes electronic and robotic total stations, automated data collection, Real Time GPS, and CADD Mapping Software.

Licenses: State of Florida Professional Surveyor and Mapper, Business License Number LB6633

CERTIFICATIONS:

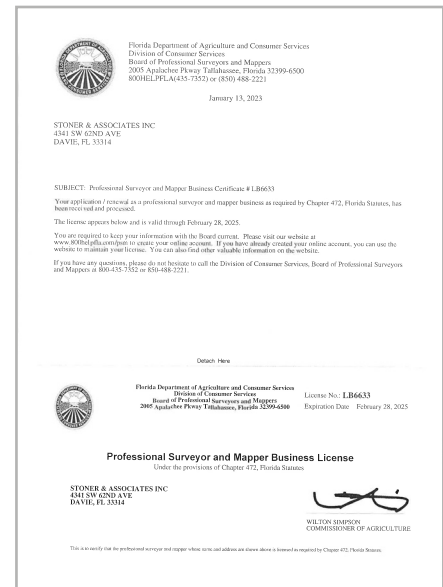
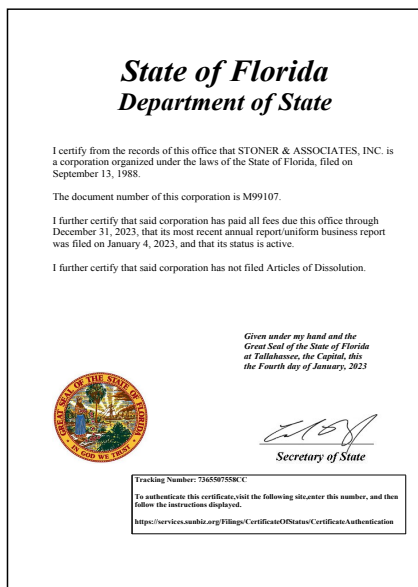
- The School District of Palm Beach County, SBE (Small Business Enterprise)
- South Florida Water Management District, SBE (Small Business Enterprise)

SERVICES:

- ALTA/ACSM Land Title Surveys
- Aviation Surveys
- Boundary Surveys
- Construction Layout Surveys
- Engineering Design Surveys
- Environmental Support Surveys
- FDOT Surveys
- Platting
- Specific Purpose Surveys
- Topographic Surveys
- Utility Surveys

TECHNOLOGY UTILIZED:

- Real Time GPS
- Electronic Data Collection
- Electronic Total Stations
- AutoCAD Land Development
- MicroStation/CAiCE



Stoner understands the City's Standard for CAD and Record Drawings. Having worked in several City projects, including performing topographic survey for the 48" Finished Water Pipeline from the Prospect Clean Water Center.



Section 4.2.9. Required Forms



CITY OF FORT LAUDERDALE BID/PROPOSAL CERTIFICATION

Please Note: It is the sole responsibility of the bidder/proposer to ensure that their response is submitted electronically through the [City's on-line strategic sourcing platform](#) prior to the bid opening date and time listed. Paper bid submittals will not be accepted. All fields below must be completed. If the field does not apply to you, please note N/A in that field.

If you are a foreign corporation, you may be required to obtain a certificate of authority from the department of state, in accordance with Florida Statute §607.1501 (visit <http://www.dos.state.fl.us/>).

Company: (Legal Registration) Arcadis US, Inc. EIN (Optional): _____

Address: 150 S. Pine Island, Suite 315

City: Plantation State: FL Zip: 33324

Telephone No.: (954) 761 3460 FAX No.: N/A Email: Leah.Richter@arcadis.com

Delivery: Calendar days after receipt of Purchase Order (**section 1.02 of General Conditions**): N/A

Total Bid Discount (**section 1.05 of General Conditions**): N/A

Check box if your firm qualifies for DBE (**section 1.09 of General Conditions**):

ADDENDUM ACKNOWLEDGEMENT - Proposer acknowledges that the following addenda have been received and are included in the proposal:

Addendum No.	Date Issued	Addendum No.	Date Issued	Addendum No.	Date Issued	Addendum No.	Date Issued
<u>No. 1</u>	<u>3/12</u>	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

VARIANCES: If you take exception or have variances to any term, condition, specification, scope of service, or requirement in this competitive solicitation you must specify such exception or variance in the space provided below or reference in the space provided below all variances contained on other pages within your response. Additional pages may be attached if necessary. No exceptions or variances will be deemed to be part of the response submitted unless such is listed and contained in the space provided below. The City does not, by virtue of submitting a variance, necessarily accept any variances. If no statement is contained in the below space, it is hereby implied that your response is in full compliance with this competitive solicitation. If you do not have variances, simply mark N/A.

N/A

The below signatory hereby agrees to furnish the following article(s) or services at the price(s) and terms stated subject to all instructions, conditions, specifications addenda, legal advertisement, and conditions contained in the bid/proposal. I have read all attachments including the specifications and fully understand what is required. By submitting this signed proposal, I will accept a contract if approved by the City and such acceptance covers all terms, conditions, and specifications of this bid/proposal. The below signatory also hereby agrees, by virtue of submitting or attempting to submit a response, that in no event shall the City's liability for respondent's direct, indirect, incidental, consequential, special or exemplary damages, expenses, or lost profits arising out of this competitive solicitation process, including but not limited to public advertisement, bid conferences, site visits, evaluations, oral presentations, or award proceedings exceed the amount of Five Hundred Dollars (\$500.00). This limitation shall not apply to claims arising under any provision of indemnification or the City's protest ordinance contained in this competitive solicitation.

Submitted by:

Leah Richter, PE

Name (printed)

March 29, 2024

Date



Signature

Vice President

Title



City of Fort Lauderdale • Procurement Services Division
100 N. Andrews Avenue, 619 • Fort Lauderdale, Florida 33301
954-828-5933 Fax 954-828-5576
purchase@fortlauderdale.gov

RFQ No. 253

TITLE: CEI Rehab. 48"/54" FM- SE 9th & 10th Ave to GTL.

ADDENDUM NO.1

DATE: 03/12/2024

This addendum is being issued to add Exhibit D Geotechnical Investigation

All other terms, conditions and specifications remain unchanged.

Paulette Hemmings Turner

Snr. Purchasing Specialist

Company Name: Arcadis U.S., Inc.

(Please print)

Bidder's Signature: *Leah K. Richter*

Date: March 29, 2024



CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY)
09/25/2023

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

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

PRODUCER Aon Risk Services South, Inc. Franklin TN Office 501 Corporate Centre Drive Suite 300 Franklin TN 37067 USA	CONTACT NAME: PHONE (A/C. No. Ext): (866) 283-7122 FAX (A/C. No.): 800-363-0105		
	E-MAIL ADDRESS:		
INSURER(S) AFFORDING COVERAGE		NAIC #	
INSURED Arcadis U.S., Inc. 630 Plaza Drive Suite 200 Highlands Ranch CO 80129 USA	INSURER A: Twin City Fire Insurance Company		29459
	INSURER B: Hartford Fire Insurance Co.		19682
	INSURER C: Hartford Casualty Insurance Co		29424
	INSURER D: Hartford Accident & Indemnity Company		22357
	INSURER E:		
	INSURER F:		

Holder Identifier :

COVERAGES **CERTIFICATE NUMBER: 570101700819** **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. **Limits shown are as requested**

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> Contractual Liability GENL AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC OTHER:			20ECSOL5318	10/01/2023	10/01/2024	SIR applies per policy terms & conditions	
							EACH OCCURRENCE	\$1,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$1,000,000
							MED EXP (Any one person)	\$10,000
						PERSONAL & ADV INJURY	\$1,000,000	
						GENERAL AGGREGATE	\$2,000,000	
						PRODUCTS - COMP/OP AGG	\$2,000,000	
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" 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			20 UEN 0L5319	10/01/2023	10/01/2024	COMBINED SINGLE LIMIT (Ea accident)	
							BODILY INJURY (Per person)	\$1,000,000
							BODILY INJURY (Per accident)	
							PROPERTY DAMAGE (Per accident)	
C	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$10,000			20XHUOL5322	10/01/2023	10/01/2024	EACH OCCURRENCE	
							AGGREGATE	\$5,000,000
D A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below			20WNOL5323	10/01/2023	10/01/2024	<input checked="" type="checkbox"/> PER STATUTE	<input type="checkbox"/> OTHER
				AOS	10/01/2023	10/01/2024	E.L. EACH ACCIDENT	\$1,000,000
				20wPROL5321			E.L. DISEASE-EA EMPLOYEE	\$1,000,000
				MA, WI			E.L. DISEASE-POLICY LIMIT	\$1,000,000

Certificate No : 570101700819

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

Evidence of Insurance.

CERTIFICATE HOLDER	CANCELLATION
Arcadis U.S, Inc. 630 Plaza Drive, Suite 200 Highlands Ranch CO 80129 USA	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





CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY)
06/23/2023

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

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

PRODUCER Aon Risk Services South, Inc. Franklin TN Office 501 Corporate Centre Drive Suite 300 Franklin TN 37067 USA	CONTACT NAME: PHONE (A/C. No. Ext): (866) 283-7122 FAX (A/C. No.): (800) 363-0105		
	E-MAIL ADDRESS:		
INSURED Arcadis U.S., Inc. 630 Plaza Drive Suite 200 Highlands Ranch CO 80129 USA	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A: Indian Harbor Insurance Company		36940
	INSURER B:		
	INSURER C:		
	INSURER D:		
	INSURER E:		
INSURER F:			

COVERAGES **CERTIFICATE NUMBER:** 570100229825 **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. **Limits shown are as requested**

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:						EACH OCCURRENCE	
	AUTOMOBILE LIABILITY <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						COMBINED SINGLE LIMIT (Ea accident)	
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION						EACH OCCURRENCE	
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below						PER STATUTE OTH-ER	
A	Contractors Pollution Liabil			US00101061E023A Professional & Pollution SIR applies per policy terms & conditions	06/01/2023	06/01/2024	Each Claim	\$5,000,000
							Annual Aggregate	\$5,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
For Professional Liability and Pollution Liability coverage, the Aggregate Limit is the total insurance available for claims presented within the policy period for all operations of the insured. The Limit will be reduced by payments of indemnity and expense.

CERTIFICATE HOLDER Arcadis U.S., Inc. 630 Plaza Drive, Suite 200 Highlands Ranch CO 80129 USA	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE

Holder Identifier :

570100229825

Certificate No :





ADDITIONAL REMARKS SCHEDULE

AGENCY Aon Risk Services South, Inc.		NAMED INSURED Arcadis U.S., Inc.	
POLICY NUMBER See Certificate Number: 570100229825			
CARRIER See Certificate Number: 570100229825	NAIC CODE	EFFECTIVE DATE:	

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
FORM NUMBER: ACORD 25 **FORM TITLE:** Certificate of Liability Insurance

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER	
INSURER	
INSURER	
INSURER	

ADDITIONAL POLICIES

If a policy below does not include limit information, refer to the corresponding policy on the ACORD certificate form for policy limits.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	LIMITS	
	OTHER							
	<input checked="" type="checkbox"/> Claims-Made							
	<input checked="" type="checkbox"/> Pollution Liability							
	<input checked="" type="checkbox"/> and Contractors							
	<input checked="" type="checkbox"/> Professional Liability							



NON-COLLUSION STATEMENT

By signing this offer, the vendor/contractor certifies that this offer is made independently and free from collusion. Vendor shall disclose below any City of Fort Lauderdale, FL officer or employee, or any relative of any such officer or employee who is an officer or director of, or has a material interest in, the vendor's business, who is in a position to influence this procurement.

Any City of Fort Lauderdale, FL officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement.

For purposes hereof, a person has a material interest if they directly or indirectly own more than 5 percent of the total assets or capital stock of any business entity, or if they otherwise stand to personally gain if the contract is awarded to this vendor.

In accordance with City of Fort Lauderdale, FL Policy and Standards Manual, 6.10.8.3,

3.3. City employees may not contract with the City through any corporation or business entity in which they or their immediate family members hold a controlling financial interest (e.g., ownership of five (5) percent or more).

3.4. Immediate family members (spouse, parents, and children) are also prohibited from contracting with the City subject to the same general rules.

Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City Procurement Code.

NAME

Not Applicable

RELATIONSHIPS

Not Applicable

In the event the vendor does not indicate any names, the City shall interpret this to mean that the vendor has indicated that no such relationships exist.

Authorized Signature

Leah Richter, PE

Name (Printed)

Vice President

Title

March 29, 2024

Date

AFFIDAVIT OF COMPLIANCE WITH FOREIGN ENTITY LAWS
(Florida Statute- §287.138, 692.201, 692.202, 692.203, and 692.204)

The undersigned, on behalf of the entity listed below ("Entity"), hereby attests under penalty of perjury as follows:

1. Entity is not owned by the government of a foreign country of concern as defined in Section 287.138, Florida Statutes. (Source:§ 287.138(2)(a), Florida Statutes)
2. The government of a foreign country of concern does not have a controlling interest in Entity. (Source:§ 287.138(2)(b), Florida Statutes)
3. Entity is not organized under the laws of, and does not have a principal place of business in, a foreign country of concern. (Source: § 287.138(2)(c), Florida Statutes)
4. Entity is not owned or controlled by the government of a foreign country of concern, as defined in Section 692.201, Florida Statutes. (Source:§ 288.007(2), Florida Statutes)
5. Entity is not a partnership, association, corporation, organization, or other combination of persons organized under the laws of or having its principal place of business in a foreign country of concern, as defined in Section 692.201, Florida Statutes, or a subsidiary of such entity. (Source: § 288.007(2), Florida Statutes)
6. Entity is not a foreign principal, as defined in Section 692.201, Florida Statutes. (Source: § 692.202(5)(a)(I), Florida Statutes)
7. Entity is in compliance with all applicable requirements of Sections 692.202, 692.203, and 692.204, Florida Statutes.
8. **(Only applicable if purchasing real property)** Entity is not a foreign principal prohibited from purchasing the subject real property. Entity is either (a) not a person or entity described in Section 692.204(1)(a), Florida Statutes, or (b) authorized under Section 692.204(2), Florida Statutes, to purchase the subject property. Entity is in compliance with the requirements of Section 692.204, Florida Statutes. (Source:§§ 692.203(6)(a), 692.204(6)(a), Florida Statutes)

The undersigned is authorized to execute this affidavit on behalf of Entity.

Name: Leah Richter, PE Title: Vice President Entity: Arcadis U.S., Inc.

Signature: *Leah K. Richter* Date: March 29, 2024

NOTARY PUBLIC ACKNOWLEDGEMENT SECTION

STATE OF FLORIDA
COUNTY OF BROWARD

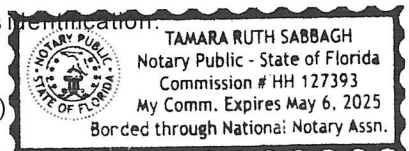
The foregoing instrument was acknowledged before me, by means of physical presence or online notarization, this 22 day of MARCH 2024 by LEAH K. RICHTER, as

VICE PRESIDENT for ARCADIS US, INC., who is personally known to me or who has produced N/A as identification.

Notary Public Signature: *Tamara Sabbagh*

Print Name: Tamara Sabbagh

(Notary Seal)



My commission expires: May 6, 2025



**CONTRACTOR'S CERTIFICATE OF COMPLIANCE WITH
NON-DISCRIMINATION PROVISIONS OF THE CONTRACT**

The completed and signed form should be returned with the Contractor's submittal. If not provided with submittal, the Contractor must submit within three business days of City's request. Contractor may be deemed non-responsive for failure to fully comply within stated timeframes.

Pursuant to City Ordinance Sec. 2-17(a)(i)(ii), bidders must certify compliance with the Non-Discrimination provision of the ordinance.

- A. Contractors doing business with the City shall not discriminate against their employees based on the employee's race, color, religion, gender (including identity or expression), marital status, sexual orientation, national origin, age, disability, or any other protected classification as defined by applicable law.

Contracts. Every Contract exceeding \$100,000, or otherwise exempt from this section shall contain language that obligates the Contractor to comply with the applicable provisions of this section.

The Contract shall include provisions for the following:

- (i) The Contractor certifies and represents that it will comply with this section during the entire term of the contract.
- (ii) The failure of the Contractor to comply with this section shall be deemed to be a material breach of the contract, entitling the City to pursue any remedy stated below or any remedy provided under applicable law.

Authorized Signature

Leah K. Richter, PE | Vice President

Print Name and Title

March 29, 2024

Date



E-VERIFY AFFIRMATION STATEMENT

Solicitation/Bid /Contract No: Event No. 253

Project Description:

CEI Serv. - Rehab. of 48"/54" FM: Replacement on SE 9th and 10th Avenue to GTL

Contractor/Proposer/Bidder 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 Contractor/Proposer/Bidder to perform employment duties within Florida during the term of the Contract, and,
- B. all persons (including subcontractors/vendors) assigned by Contractor/Proposer/Bidder to perform work pursuant to the Contract.

The Contractor/Proposer/Bidder 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.

Contractor/Proposer/ Bidder Company Name: Arcadis U.S., Inc.

Authorized Company Person's Signature: *Leah K. Richter*

Authorized Company Person's Title: Vice President

Date: March 29, 2024



CONTRACT PAYMENT METHOD

The City of Fort Lauderdale has implemented a Procurement Card (P-Card) program which changes how payments are remitted to its vendors. The City has transitioned from traditional paper checks to credit card payments via MasterCard or Visa as part of this program.

This allows you as a vendor of the City of Fort Lauderdale to receive your payments fast and safely. No more waiting for checks to be printed and mailed.

In accordance with the contract, payments on this contract will be made utilizing the City's P-Card (MasterCard or Visa). Accordingly, bidders must presently have the ability to accept the credit card or take whatever steps necessary to implement acceptance of a card before the start of the contract term, or contract award by the City.

All costs associated with the Contractor's participation in this purchasing program shall be borne by the Contractor. The City reserves the right to revise this program as necessary.

By signing below, you agree with these terms.

Please indicate which credit card payment you prefer:

MasterCard

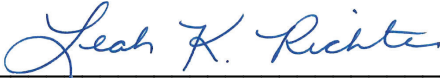
Visa

Arcadis US, Inc.

Company Name

Leah Richter, PE

Name (Printed)


Signature

Vice President

Title

March 29, 2024

Date

Request for Taxpayer Identification Number and Certification

**Give Form to the
 requester. Do not
 send to the IRS.**

▶ Go to www.irs.gov/FormW9 for instructions and the latest information.

Print or type. See Specific Instructions on page 3.	1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank. Arcadis U.S. Inc.		
	2 Business name/disregarded entity name, if different from above		
	3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes.		4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____ <i>(Applies to accounts maintained outside the U.S.)</i>
	<input type="checkbox"/> Individual/sole proprietor or single-member LLC <input checked="" type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate		
	<input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____ Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is not disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.		
	<input type="checkbox"/> Other (see instructions) ▶ _____		
	5 Address (number, street, and apt. or suite no.) See instructions. 630 Plaza Drive, Suite 200		Requester's name and address (optional)
6 City, state, and ZIP code Highlands Ranch, CO 80129			
7 List account number(s) here (optional)			

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number										
or										
Employer identification number										
5	7		-	0	3	7	3	2	2	4

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here	Signature of U.S. person ▶ <i>Jessica Newton</i>	Date ▶ 1/4/2024
------------------	--	-----------------

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.



REFERENCES

A minimum of three (3) references shall be provided. It is the responsibility of the Bidder/ Proposer to ensure that the information provided is accurate and current. The City may find your firm non-responsive for providing wrong and or outdated information. Additional references may be provided on a separate page. **Note: sub-consultants are not required to provide references.**

Company	Sarasota County
Name: Address:	1001 Sarasota Center Blvd., Sarasota, FL 34240
Contact Person:	Rob Hesse, PE
Title:	Utility Operations Manager
Phone #: Email:	941.275.2703 / rhesse@scgov.net
Contract Value:	Estimated: \$1.44M; Actual: \$1.2M
Year(s):	Ongoing
Project Name/	Clark Road UWHCA (As part of Continuing Services Contract)
Description:	The UWHCA included the relocation of a 16-inch water main under active and future ramps as well as Interstate 75 (SR 93), modifications to a 16-inch reclaimed water, and traffic fiber optic cables relocations along Clark Road (State Road 72) from Gantt Road to Hummingbird Avenue.

Company	City of Richmond
Name: Address:	1400 Brander St, Richmond, VA 23224
Contact Person:	Bob Stone
Title:	Engineer Manager
Phone #: Email:	804.646.8661 / robert.stone@rva.gov
Contract Value:	Estimated: On-call; Actual: >\$200M
Year(s):	Ongoing
Project Name/	Annual Contract for A/E Services
Description:	Over the past 15 years, Arcadis has been providing Construction Management and Inspection services for the City of Richmond's Wastewater Treatment plant and CSO projects.

Company	Orlando Utility Commision
Name: Address:	3800 Gardenia Ave, Orlando, FL
Contact Person:	Natalie Urick, PE
Title:	Senior Engineer Water Distribution Engineering
Phone #: Email:	desk: 407.434.2847 / mobile: 321.230.6694 / nurick@ouc.com
Contract Value:	\$11.3M
Year(s):	Ongoing
Project Name/	Orange Avenue Water Main Replacement
Description:	Arcadis provided construction management and inspection services for the replacement of approximately 4,350 LF of a 16-inch water main, maintenance of traffic (MOT) plans for the Utility Work by Highway Contractor Agreement (UWHCA) project, permitting, bidding, public outreach, and construction administration and construction inspection services.



REFERENCES

A minimum of three (3) references shall be provided. It is the responsibility of the Bidder/ Proposer to ensure that the information provided is accurate and current. The City may find your firm non-responsive for providing wrong and or outdated information. Additional references may be provided on a separate page. **Note:** *sub-consultants are not required to provide references.*

Company	Harford County
Name: Address:	220 S. Main St., Bel Air, MD 21014
Contact Person:	Steven D. Schulz, P.E.
Title:	Civil Engineer III
Phone #: Email:	(O) 410.638.3300 ext 1474 / (C) 443.838.2352 / sdschulz@harfordcountymd.gov
Contract Value:	Estimated: On-call; Actual: \$75M
Year(s):	Ongoing
Project Name/	On-Call Services
Description:	Arcadis has provided construction management and inspection (CM/I) services, for the award-winning Sod Run Wastewater Treatment Facility Enhanced Nutrient Removal project, the Abingdon Water Treatment Plant, the Bush Creek PS & FM and the Sod Run Bio Solids Dewatering project.

Company	_____
Name: Address:	_____
Contact Person:	_____
Title:	_____
Phone #: Email:	_____
Contract Value:	_____
Year(s):	_____
Project Name/	_____
Description:	_____

Company	_____
Name: Address:	_____
Contact Person:	_____
Title:	_____
Phone #: Email:	_____
Contract Value:	_____
Year(s):	_____
Project Name/	_____
Description:	_____

About Arcadis

Arcadis is the leading global Design & Consultancy firm for natural and built assets. Applying our deep market sector insights and collective design, consultancy, engineering, project and management services we work in partnership with our clients to deliver exceptional and sustainable outcomes throughout the lifecycle of their natural and built assets. We are more than 36,000 people, active in over 30 countries that generate \$4.2 billion in revenues. We support UN-Habitat with knowledge and expertise to improve the quality of life in rapidly growing cities around the world.

www.arcadis.com

Supporting our clients in their quest to become Fit-for-Future.

Utilities must plan for unprecedented scenarios while navigating a changing workforce, but where should leaders focus?

Use the QR code below to explore the five fundamentals of becoming a fit-for-future water utility and the common thread that unites them.



Arcadis. Improving quality of life

CITY OF FORT LAUDERDALE BID/PROPOSAL CERTIFICATION

Please Note: It is the sole responsibility of the bidder/proposer to ensure that their response is submitted electronically through the [City's on-line strategic sourcing platform](#) prior to the bid opening date and time listed. Paper bid submittals will not be accepted. All fields below must be completed. If the field does not apply to you, please note N/A in that field.

If you are a foreign corporation, you may be required to obtain a certificate of authority from the department of state, in accordance with Florida Statute §607.1501 (visit <http://www.dos.state.fl.us/>).

Company: (Legal Registration) Arcadis US, Inc. EIN (Optional): _____

Address: 150 S. Pine Island, Suite 315

City: Plantation State: FL Zip: 33324

Telephone No.: (954) 761 3460 FAX No.: N/A Email: Leah.Richter@arcadis.com

Delivery: Calendar days after receipt of Purchase Order (**section 1.02 of General Conditions**): N/A

Total Bid Discount (**section 1.05 of General Conditions**): N/A

Check box if your firm qualifies for DBE (**section 1.09 of General Conditions**):

ADDENDUM ACKNOWLEDGEMENT - Proposer acknowledges that the following addenda have been received and are included in the proposal:

Addendum No.	Date Issued	Addendum No.	Date Issued	Addendum No.	Date Issued	Addendum No.	Date Issued
<u>No. 1</u>	<u>3/12</u>	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

VARIANCES: If you take exception or have variances to any term, condition, specification, scope of service, or requirement in this competitive solicitation you must specify such exception or variance in the space provided below or reference in the space provided below all variances contained on other pages within your response. Additional pages may be attached if necessary. No exceptions or variances will be deemed to be part of the response submitted unless such is listed and contained in the space provided below. The City does not, by virtue of submitting a variance, necessarily accept any variances. If no statement is contained in the below space, it is hereby implied that your response is in full compliance with this competitive solicitation. If you do not have variances, simply mark N/A.

N/A

The below signatory hereby agrees to furnish the following article(s) or services at the price(s) and terms stated subject to all instructions, conditions, specifications addenda, legal advertisement, and conditions contained in the bid/proposal. I have read all attachments including the specifications and fully understand what is required. By submitting this signed proposal, I will accept a contract if approved by the City and such acceptance covers all terms, conditions, and specifications of this bid/proposal. The below signatory also hereby agrees, by virtue of submitting or attempting to submit a response, that in no event shall the City's liability for respondent's direct, indirect, incidental, consequential, special or exemplary damages, expenses, or lost profits arising out of this competitive solicitation process, including but not limited to public advertisement, bid conferences, site visits, evaluations, oral presentations, or award proceedings exceed the amount of Five Hundred Dollars (\$500.00). This limitation shall not apply to claims arising under any provision of indemnification or the City's protest ordinance contained in this competitive solicitation.

Submitted by:

Leah Richter, PE

Name (printed)

March 29, 2024

Date



Signature

Vice President

Title



City of Fort Lauderdale • Procurement Services Division
100 N. Andrews Avenue, 619 • Fort Lauderdale, Florida 33301
954-828-5933 Fax 954-828-5576
purchase@fortlauderdale.gov

RFQ No. 253

TITLE: CEI Rehab. 48"/54" FM- SE 9th & 10th Ave to GTL.

ADDENDUM NO.1

DATE: 03/12/2024

This addendum is being issued to add Exhibit D Geotechnical Investigation

All other terms, conditions and specifications remain unchanged.

Paulette Hemmings Turner

Snr. Purchasing Specialist

Company Name: Arcadis U.S., Inc.

(Please print)

Bidder's Signature: *Leah K. Richter*

Date: March 29, 2024



CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY)
09/25/2023

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

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

PRODUCER Aon Risk Services South, Inc. Franklin TN Office 501 Corporate Centre Drive Suite 300 Franklin TN 37067 USA	CONTACT NAME: PHONE (A/C. No. Ext): (866) 283-7122 FAX (A/C. No.): 800-363-0105		
	E-MAIL ADDRESS:		
INSURER(S) AFFORDING COVERAGE		NAIC #	
INSURED Arcadis U.S., Inc. 630 Plaza Drive Suite 200 Highlands Ranch CO 80129 USA	INSURER A: Twin City Fire Insurance Company		29459
	INSURER B: Hartford Fire Insurance Co.		19682
	INSURER C: Hartford Casualty Insurance Co		29424
	INSURER D: Hartford Accident & Indemnity Company		22357
	INSURER E:		
	INSURER F:		

Holder Identifier :

COVERAGES **CERTIFICATE NUMBER: 570101700819** **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. **Limits shown are as requested**

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY			20ECSOL5318 SIR applies per policy terms & conditions	10/01/2023	10/01/2024	EACH OCCURRENCE	\$1,000,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$1,000,000
	<input checked="" type="checkbox"/> Contractual Liability						MED EXP (Any one person)	\$10,000
	GENL AGGREGATE LIMIT APPLIES PER:							PERSONAL & ADV INJURY
	<input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC						GENERAL AGGREGATE	\$2,000,000
	OTHER:						PRODUCTS - COMP/OP AGG	\$2,000,000
B	AUTOMOBILE LIABILITY			20 UEN 0L5319	10/01/2023	10/01/2024	COMBINED SINGLE LIMIT (Ea accident)	\$1,000,000
	<input checked="" type="checkbox"/> ANY AUTO						BODILY INJURY (Per person)	
	<input type="checkbox"/> OWNED AUTOS ONLY	<input type="checkbox"/> SCHEDULED AUTOS					BODILY INJURY (Per accident)	
	<input type="checkbox"/> HIRED AUTOS ONLY	<input type="checkbox"/> NON-OWNED AUTOS ONLY					PROPERTY DAMAGE (Per accident)	
C	<input checked="" type="checkbox"/> UMBRELLA LIAB	<input checked="" type="checkbox"/> OCCUR		20XHUOL5322	10/01/2023	10/01/2024	EACH OCCURRENCE	\$5,000,000
	<input type="checkbox"/> EXCESS LIAB	<input type="checkbox"/> CLAIMS-MADE					AGGREGATE	\$5,000,000
	DED <input checked="" type="checkbox"/>	RETENTION \$10,000						
D A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			20WNOL5323 AOS 20wPROL5321 MA, WI	10/01/2023	10/01/2024	<input checked="" type="checkbox"/> PER STATUTE	<input type="checkbox"/> OTHER
	ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	N/A				E.L. EACH ACCIDENT	\$1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below				E.L. DISEASE-EA EMPLOYEE	\$1,000,000		
					E.L. DISEASE-POLICY LIMIT	\$1,000,000		

Certificate No : 570101700819

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

Evidence of Insurance.

CERTIFICATE HOLDER	CANCELLATION
Arcadis U.S, Inc. 630 Plaza Drive, Suite 200 Highlands Ranch CO 80129 USA	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





ADDITIONAL REMARKS SCHEDULE

AGENCY Aon Risk Services South, Inc.		NAMED INSURED Arcadis U.S., Inc.	
POLICY NUMBER See Certificate Number: 570100229825			
CARRIER See Certificate Number: 570100229825	NAIC CODE	EFFECTIVE DATE:	

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
FORM NUMBER: ACORD 25 **FORM TITLE:** Certificate of Liability Insurance

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER	
INSURER	
INSURER	
INSURER	

ADDITIONAL POLICIES

If a policy below does not include limit information, refer to the corresponding policy on the ACORD certificate form for policy limits.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	LIMITS	
	OTHER							
	<input checked="" type="checkbox"/> Claims-Made							
	<input checked="" type="checkbox"/> Pollution Liability							
	<input checked="" type="checkbox"/> and Contractors							
	<input checked="" type="checkbox"/> Professional Liability							



NON-COLLUSION STATEMENT

By signing this offer, the vendor/contractor certifies that this offer is made independently and free from collusion. Vendor shall disclose below any City of Fort Lauderdale, FL officer or employee, or any relative of any such officer or employee who is an officer or director of, or has a material interest in, the vendor's business, who is in a position to influence this procurement.

Any City of Fort Lauderdale, FL officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement.

For purposes hereof, a person has a material interest if they directly or indirectly own more than 5 percent of the total assets or capital stock of any business entity, or if they otherwise stand to personally gain if the contract is awarded to this vendor.

In accordance with City of Fort Lauderdale, FL Policy and Standards Manual, 6.10.8.3,

3.3. City employees may not contract with the City through any corporation or business entity in which they or their immediate family members hold a controlling financial interest (e.g., ownership of five (5) percent or more).

3.4. Immediate family members (spouse, parents, and children) are also prohibited from contracting with the City subject to the same general rules.

Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City Procurement Code.

<u>NAME</u>	<u>RELATIONSHIPS</u>
Not Applicable _____	Not Applicable _____
_____	_____
_____	_____
_____	_____

In the event the vendor does not indicate any names, the City shall interpret this to mean that the vendor has indicated that no such relationships exist.

Leah K. Richter
Authorized Signature
Leah Richter, PE
Name (Printed)

Vice President
Title
March 29, 2024
Date

AFFIDAVIT OF COMPLIANCE WITH FOREIGN ENTITY LAWS
(Florida Statute- §287.138, 692.201, 692.202, 692.203, and 692.204)

The undersigned, on behalf of the entity listed below ("Entity"), hereby attests under penalty of perjury as follows:

1. Entity is not owned by the government of a foreign country of concern as defined in Section 287.138, Florida Statutes. (Source:§ 287.138(2)(a), Florida Statutes)
2. The government of a foreign country of concern does not have a controlling interest in Entity. (Source:§ 287.138(2)(b), Florida Statutes)
3. Entity is not organized under the laws of, and does not have a principal place of business in, a foreign country of concern. (Source: § 287.138(2)(c), Florida Statutes)
4. Entity is not owned or controlled by the government of a foreign country of concern, as defined in Section 692.201, Florida Statutes. (Source:§ 288.007(2), Florida Statutes)
5. Entity is not a partnership, association, corporation, organization, or other combination of persons organized under the laws of or having its principal place of business in a foreign country of concern, as defined in Section 692.201, Florida Statutes, or a subsidiary of such entity. (Source: § 288.007(2), Florida Statutes)
6. Entity is not a foreign principal, as defined in Section 692.201, Florida Statutes. (Source: § 692.202(5)(a)(I), Florida Statutes)
7. Entity is in compliance with all applicable requirements of Sections 692.202, 692.203, and 692.204, Florida Statutes.
8. **(Only applicable if purchasing real property)** Entity is not a foreign principal prohibited from purchasing the subject real property. Entity is either (a) not a person or entity described in Section 692.204(1)(a), Florida Statutes, or (b) authorized under Section 692.204(2), Florida Statutes, to purchase the subject property. Entity is in compliance with the requirements of Section 692.204, Florida Statutes. (Source: §§ 692.203(6)(a), 692.204(6)(a), Florida Statutes)

The undersigned is authorized to execute this affidavit on behalf of Entity.

Name: Leah Richter, PE Title: Vice President Entity: Arcadis U.S., Inc.

Signature: *Leah K. Richter* Date: March 29, 2024

NOTARY PUBLIC ACKNOWLEDGEMENT SECTION

STATE OF FLORIDA
COUNTY OF BROWARD

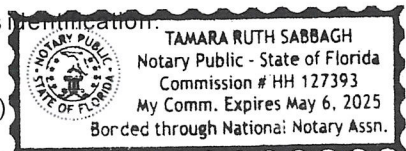
The foregoing instrument was acknowledged before me, by means of physical presence or online notarization, this 22 day of MARCH 2024 by LEAH K. RICHTER, as

VICE PRESIDENT for ARCADIS US, INC., who is personally known to me or who has produced N/A as identification.

Notary Public Signature: *Tamara Sabbagh*

Print Name: Tamara Sabbagh

(Notary Seal)



My commission expires: May 6, 2025



**CONTRACTOR'S CERTIFICATE OF COMPLIANCE WITH
NON-DISCRIMINATION PROVISIONS OF THE CONTRACT**

The completed and signed form should be returned with the Contractor's submittal. If not provided with submittal, the Contractor must submit within three business days of City's request. Contractor may be deemed non-responsive for failure to fully comply within stated timeframes.

Pursuant to City Ordinance Sec. 2-17(a)(i)(ii), bidders must certify compliance with the Non-Discrimination provision of the ordinance.

- A. Contractors doing business with the City shall not discriminate against their employees based on the employee's race, color, religion, gender (including identity or expression), marital status, sexual orientation, national origin, age, disability, or any other protected classification as defined by applicable law.

Contracts. Every Contract exceeding \$100,000, or otherwise exempt from this section shall contain language that obligates the Contractor to comply with the applicable provisions of this section.

The Contract shall include provisions for the following:

- (i) The Contractor certifies and represents that it will comply with this section during the entire term of the contract.
- (ii) The failure of the Contractor to comply with this section shall be deemed to be a material breach of the contract, entitling the City to pursue any remedy stated below or any remedy provided under applicable law.

Authorized Signature

Leah K. Richter, PE | Vice President

Print Name and Title

March 29, 2024

Date



E-VERIFY AFFIRMATION STATEMENT

Solicitation/Bid /Contract No: Event No. 253

Project Description:

CEI Serv. - Rehab. of 48"/54" FM: Replacement on SE 9th and 10th Avenue to GTL

Contractor/Proposer/Bidder 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 Contractor/Proposer/Bidder to perform employment duties within Florida during the term of the Contract, and,
- B. all persons (including subcontractors/vendors) assigned by Contractor/Proposer/Bidder to perform work pursuant to the Contract.

The Contractor/Proposer/Bidder 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.

Contractor/Proposer/ Bidder Company Name: Arcadis U.S., Inc.

Authorized Company Person's Signature: *Leah K. Richter*

Authorized Company Person's Title: Vice President

Date: March 29, 2024



CONTRACT PAYMENT METHOD

The City of Fort Lauderdale has implemented a Procurement Card (P-Card) program which changes how payments are remitted to its vendors. The City has transitioned from traditional paper checks to credit card payments via MasterCard or Visa as part of this program.

This allows you as a vendor of the City of Fort Lauderdale to receive your payments fast and safely. No more waiting for checks to be printed and mailed.

In accordance with the contract, payments on this contract will be made utilizing the City's P-Card (MasterCard or Visa). Accordingly, bidders must presently have the ability to accept the credit card or take whatever steps necessary to implement acceptance of a card before the start of the contract term, or contract award by the City.

All costs associated with the Contractor's participation in this purchasing program shall be borne by the Contractor. The City reserves the right to revise this program as necessary.

By signing below, you agree with these terms.

Please indicate which credit card payment you prefer:

MasterCard

Visa

Arcadis US, Inc.

Company Name

Leah Richter, PE

Name (Printed)

Handwritten signature of Leah Richter in blue ink.

Signature

Vice President

Title

March 29, 2024

Date

Request for Taxpayer Identification Number and Certification

**Give Form to the
 requester. Do not
 send to the IRS.**

▶ Go to www.irs.gov/FormW9 for instructions and the latest information.

Print or type. See Specific Instructions on page 3.	1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank. Arcadis U.S. Inc.					
	2 Business name/disregarded entity name, if different from above					
	3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes.		4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):			
	<input type="checkbox"/> Individual/sole proprietor or single-member LLC	<input checked="" type="checkbox"/> C Corporation	<input type="checkbox"/> S Corporation	<input type="checkbox"/> Partnership	<input type="checkbox"/> Trust/estate	Exempt payee code (if any) _____
	<input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____					
	Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is not disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.					
	<input type="checkbox"/> Other (see instructions) ▶ _____					Exemption from FATCA reporting code (if any) _____ <small>(Applies to accounts maintained outside the U.S.)</small>
5 Address (number, street, and apt. or suite no.) See instructions. 630 Plaza Drive, Suite 200			Requester's name and address (optional)			
6 City, state, and ZIP code Highlands Ranch, CO 80129						
7 List account number(s) here (optional)						

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number										
or										
Employer identification number										
5	7		-	0	3	7	3	2	2	4

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here	Signature of U.S. person ▶ <i>Jessica Newton</i>	Date ▶ 1/4/2024
------------------	--	-----------------

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.



REFERENCES

A minimum of three (3) references shall be provided. It is the responsibility of the Bidder/ Proposer to ensure that the information provided is accurate and current. The City may find your firm non-responsive for providing wrong and or outdated information. Additional references may be provided on a separate page. **Note:** *sub-consultants are not required to provide references.*

Company	Sarasota County
Name: Address:	1001 Sarasota Center Blvd., Sarasota, FL 34240
Contact Person:	Rob Hesse, PE
Title:	Utility Operations Manager
Phone #: Email:	941.275.2703 / rhesse@scgov.net
Contract Value:	Estimated: \$1.44M; Actual: \$1.2M
Year(s):	Ongoing
Project Name/	Clark Road UWHCA (As part of Continuing Services Contract)
Description:	The UWHCA included the relocation of a 16-inch water main under active and future ramps as well as Interstate 75 (SR 93), modifications to a 16-inch reclaimed water, and traffic fiber optic cables relocations along Clark Road (State Road 72) from Gantt Road to Hummingbird Avenue.

Company	City of Richmond
Name: Address:	1400 Brander St, Richmond, VA 23224
Contact Person:	Bob Stone
Title:	Engineer Manager
Phone #: Email:	804.646.8661 / robert.stone@rva.gov
Contract Value:	Estimated: On-call; Actual: >\$200M
Year(s):	Ongoing
Project Name/	Annual Contract for A/E Services
Description:	Over the past 15 years, Arcadis has been providing Construction Management and Inspection services for the City of Richmond's Wastewater Treatment plant and CSO projects.

Company	Orlando Utility Commision
Name: Address:	3800 Gardenia Ave, Orlando, FL
Contact Person:	Natalie Urick, PE
Title:	Senior Engineer Water Distribution Engineering
Phone #: Email:	desk: 407.434.2847 / mobile: 321.230.6694 / nurick@ouc.com
Contract Value:	\$11.3M
Year(s):	Ongoing
Project Name/	Orange Avenue Water Main Replacement
Description:	Arcadis provided construction management and inspection services for the replacement of approximately 4,350 LF of a 16-inch water main, maintenance of traffic (MOT) plans for the Utility Work by Highway Contractor Agreement (UWHCA) project, permitting, bidding, public outreach, and construction administration and construction inspection services.



REFERENCES

A minimum of three (3) references shall be provided. It is the responsibility of the Bidder/ Proposer to ensure that the information provided is accurate and current. The City may find your firm non-responsive for providing wrong and or outdated information. Additional references may be provided on a separate page. **Note:** *sub-consultants are not required to provide references.*

Company	Harford County
Name: Address:	220 S. Main St., Bel Air, MD 21014
Contact Person:	Steven D. Schulz, P.E.
Title:	Civil Engineer III
Phone #: Email:	(O) 410.638.3300 ext 1474 / (C) 443.838.2352 / sdschulz@harfordcountymd.gov
Contract Value:	Estimated: On-call; Actual: \$75M
Year(s):	Ongoing
Project Name/	On-Call Services
Description:	Arcadis has provided construction management and inspection (CM/I) services, for the award-winning Sod Run Wastewater Treatment Facility Enhanced Nutrient Removal project, the Abingdon Water Treatment Plant, the Bush Creek PS & FM and the Sod Run Bio Solids Dewatering project.

Company	_____
Name: Address:	_____
Contact Person:	_____
Title:	_____
Phone #: Email:	_____
Contract Value:	_____
Year(s):	_____
Project Name/	_____
Description:	_____

Company	_____
Name: Address:	_____
Contact Person:	_____
Title:	_____
Phone #: Email:	_____
Contract Value:	_____
Year(s):	_____
Project Name/	_____
Description:	_____



CONTRACT PAYMENT METHOD

The City of Fort Lauderdale has implemented a Procurement Card (P-Card) program which changes how payments are remitted to its vendors. The City has transitioned from traditional paper checks to credit card payments via MasterCard or Visa as part of this program.

This allows you as a vendor of the City of Fort Lauderdale to receive your payments fast and safely. No more waiting for checks to be printed and mailed.

In accordance with the contract, payments on this contract will be made utilizing the City's P-Card (MasterCard or Visa). Accordingly, bidders must presently have the ability to accept the credit card or take whatever steps necessary to implement acceptance of a card before the start of the contract term, or contract award by the City.

All costs associated with the Contractor's participation in this purchasing program shall be borne by the Contractor. The City reserves the right to revise this program as necessary.

By signing below, you agree with these terms.

Please indicate which credit card payment you prefer:

MasterCard

Visa

Arcadis US, Inc.

Company Name

Leah Richter, PE

Name (Printed)

Leah K. Richter

Signature

Vice President

Title

March 29, 2024

Date