CITY OF FORT LAUDERDALE

RFQ/Event #423; Bridge Design and Miscellaneous Structural Engineering Services, Continuing Services Contract

MARCH 27, 2025 | 2:00 PM

PROPOSER:
CHA Consulting, Inc.
4700 Riverside Drive, Suite 110
Coral Springs, FL 33067

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TAB 1 - EXECUTIVE SUMMARY

1. EXECUTIVE SUMMARY

CHA Consulting, Inc. (CHA) is eager to become your trusted partner in providing **Bridge Design and Miscellaneous Structural Engineering Services, Continuing Services Contract** to the City of Fort Lauderdale.

Our team is committed to responsibly improving the world we live in, and we eagerly seek projects to enhance the communities where we reside and work. CHA will partner with CTS Engineering, Inc. (surveying & SUE), LARS Engineering, Inc. (bridge inspection) (DB/SBE), McFarland-Johnson, Inc. (environmental), Tierra South Florida, Inc. (geotechnical) (d/b/a), and Infinite Source Communications, Inc. (public involvement) (DBE/SBE/WBE) and is committed to providing the services as requested in this solicitation ensuring a blend of local insight and nationwide expertise.

With over 1900 employees and a presence across 50+ locations nationwide, CHA has been providing cutting-edge solutions in engineering for 72 years. Our expansive expertise and deep client relationships, coupled with a personalized approach, ensure solutions tailored to each project's unique needs.

Our Broward County office at **4700 Riverside Drive, Suite 110, Coral Springs, FL**, will serve as the primary location for this contract, with support from our Miami-Dade County office at **8935 NW 35th Lane, Suite 200, Doral, FL**. This strategically positioned offices ensure that we can offer immediate, efficient service for the duration of this contract.

Over time, we have acquired invaluable experience through our direct involvement in the design and management of significant bridge/structural, transportation, and architectural projects. Presently, we maintain active contracts with the City of Miami, City of Miami Beach, FDOT District's 1, 4, 5 and 6, Miami-Dade County Water and Sewer Department, the Miami-Dade County Public Works Department and Broward County. Additionally, we collaborate as subconsultants with various engineering firms.

CHA has a distinguished track record in bridge design. Our team has successfully completed numerous bridge design projects, demonstrating exceptional proficiency in structural engineering and innovative design solutions. CHA has been recognized by several national and state industry organizations with awards for our innovative solutions in bridge design and delivery, including , ACEC, PCI and AISC. We specialize in both the design of new bridges and the rehabilitation of existing structures, ensuring safety, durability, and aesthetic appeal. Our expertise encompasses a wide range of bridge types, including pedestrian bridges, highway overpasses, and complex multi-span structures.

With a commitment to excellence and a focus on **sustainable practices**, CHA is recognized **nation-wide as a lead expert in bridge and structural design**. Our proficiency extends to contract administration, water and sewer pipeline and pump station design, construction engineering inspection (CEI), electrical/lighting, traffic and site civil design and planning.

Business Structure

CHA Consulting, Inc. was incorporated in New York as a C-Corp on January 7, 1927, and licensed to practice engineering and conduct business as a foreign corporation in the State of Florida under document number F08000004937.

Its officers and principals include:

1. James B. Stephenson – President/Chief Executive Officer
2. Doug Nelson – Chief Financial Officer
3. Michael A. Platt – General Counsel and Secretary
4. Thomas D. Titsworth – Regional Counsel and Assistant Secretary

CHA's board of directors is comprised of:

1. James B. Stephenson
2. Michael Carroll

Ownership

CHA Holdings, Inc. is the 100% owner of CHA Consulting, Inc., and the organization has no trustees.

Contact Information

Adrian Alfonso, PE, Proposed Project Manager

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CHA AT A GLANCE

1900+ EMPLOYEES FIRM-WIDE

145+ EMPLOYEES WITHIN SOUTH FLORIDA

72 YEARS IN BUSINESS

50+ OFFICE LOCATIONS

ENR
ENGINEERING NEWS-RECORD
TOP FIRM
#69 OF TOP 500
DESIGN FIRMS
#52 OF TOP 100
PURE DESIGNERS
#48 TRANSPORTATION

We provide full-service programming and design:

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

The CHA Advantage

A Cohesive, Committed Team.
We bring together a blend of local insight and nationwide expertise in electrical engineering, ensuring the City of Fort Lauderdale receives top-tier services.

Local Leadership. Our project management team, rooted in the local community, is well-equipped with the resources and readiness to deliver exceptional outcomes.

M/WBE Commitment. Demonstrating our dedication to diversity, we have partnered with local DBE firms to bolster our construction inspection capabilities, pledging to achieve at least a 20% M/WBE participation in this contract.

Our team is spearheaded by our accomplished **project manager, Adrian Alfonso, PE**. He is backed by a strong engineering team whose collective expertise spans decades and encompasses a diverse range of specializations directly pertinent to this project. The team includes **Mike Culmo, PE**, a nationwide recognized bridge expert and an authority in quality assurance and control; **Eithel Sierra, PE**, a local transportation expert who brings an additional layer of quality assurance; **Levi Boyle, PE**, our expert for constructability reviews; **Jim Aitken, PE**, a transportation expert specialized in bridge and structural design; **Alejandro Leon, PE**, a roadway project team leader who specializes in maintenance of traffic (MOT) design; **Elio Espino, PhD, PE**, a business practice leader who specializes in active work zone management; and **Lissette Guon, EI,** our expert in utility coordination. Each member's unique expertise is integral to delivering a project that meets the highest standards of quality and innovation. Our team is ready to begin work immediately and is equipped to tackle the project's diverse requirements with precision and excellence.

CHA proposes to apply its extensive experience in bridge engineering and project management to deliver high-quality, sustainable solutions for the City of Fort Lauderdale. Our approach emphasizes innovative design, strategic resource allocation, and a commitment to environmental stewardship. We are poised to exceed the City of Fort Lauderdale's needs for the Bridge Design and Miscellaneous Structural Engineering Services contract.

TAB 2 - FIRM QUALIFICATIONS & EXPERIENCE

2. FIRM QUALIFICATIONS & EXPERIENCE

CHA is a multidisciplinary engineering, design, and construction management firm working with our clients on their most critical challenges. Whatever you're facing — big or small — we're in. Spanning sectors. Crossing markets. Connecting communities. Pushing ourselves to think (and work) differently. Because it all comes down to **creating solutions.**

Our expertise is established. Our client relationships run deep. Our footprint is expansive. Yet, our approach is personal. We're there for you, with you and dedicated to you, no matter what. Always set on **helping people.** Because making life better is why we're here. We have a responsibility to build a more sustainable future. Our commitment is to do it in ways that we can all see and touch. This is how we're **improving our world.** Together. Every day.

At CHA, innovation is our heartbeat, and we're leading the change in smart solutions! For the past several years, we've assembled a specialized team of skilled engineers and data scientists. Their expertise lies in evaluating and assessing cutting-edge technologies and applications.

For this contract, CHA brings to the table design professionals who have extensive experience in Bridge Design and Miscellaneous Structural Engineering Services, including work on continuing services contracts for public works projects.

CHA was incorporated in New York as a C-Corp in January 7, 1927 and licensed to practice engineering and conduct business as a foreign corporation in the State of Florida under document number F08000004937. The main address for this contract is **4700 Riverside Drive, Suite 110, Coral Springs, FL 33067** and the contact person is our project manager Adrian Alfonso, PE.

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CHA AT A GLANCE

1900+ EMPLOYEES FIRM-WIDE

100+ BRIDGE DESIGN PROFESSIONALS NATION-WIDE

72 YEARS IN BUSINESS

50+ OFFICE LOCATIONS

What Sets CHA Apart and Unique for this Contract?

AN EXPERT TEAM: Our company has been the structural engineer of record on numerous major bridge and infrastructure projects nationwide. With over 100 Bridge Design Professionals working at CHA, our team brings unparalleled expertise and a proven track record of success in delivering complex engineering solutions.

A DATA-DRIVEN APPROACH: We don't just stop at evaluation; we empower your decision-making process with a robust business intelligence approach. Through insightful data analysis, we provide you with the information needed to make informed choices, ensuring the optimal performance and longevity of your structures.

A CLIENT-CENTRIC FOCUS: Your success is our priority. We tailor our smart solutions to meet your unique needs, ensuring you always stay ahead in the rapidly evolving technological landscape. Our commitment to client satisfaction drives us to deliver innovative and effective engineering solutions that exceed expectations

Team Capacities

CHA has teamed up with several trusted, local, and professional firms who also have a track record of exceptional service.

- ✓ *Accelerated Bridge Construction (ABC)*
- ✓ *Hydrology and Hydraulics*
- ✓ *Bridge Design & Analysis*
- ✓ *Bridge Inspection & Reconstruction*
- ✓ *Temporary Walls, Bulkhead & Seawall Design*
- ✓ *Demolition Plans for Steel & Concrete Structures*
- ✓ *Crane & Equipment Load Verifications*
- ✓ *Fatigue & Fracture Studies*
- ✓ *Scour Design Solutions*
- ✓ *Geotechnical engineering*
- ✓ *Surveying, Mapping and SUE*
- ✓ *Public Involvement*
- ✓ *Quality Control/Quality Assurence*
- ✓ *Roadway*
- ✓ *Signing & Pavement Markings*
- ✓ *Maintenance of Traffic (MOT)*
- ✓ *Active Work Zone Management*
- ✓ *Traffic*
- ✓ *Electrical/Lighting*
- ✓ *Water Resources*
- ✓ *Drainage*
- ✓ *Permitting & Compliance*
- ✓ *Utility Coordination*
- ✓ *Grants/Funding*
- ✓ *Environmental Engineering*
- ✓ *Constructability Review*

Key Staff

Our firm boasts a robust workforce of over 1900 dedicated employees. Within the dynamic South Florida division alone, we are home for over 145 professionals and are proud to have 40 registered engineers complemented by a team of 107 highly skilled engineering interns, designers, and scientists who provide unparalleled technical support.

Our expansive expertise encompasses a wide array of specialties, including structural engineering, drainage design, roadway engineering, electrical engineering, architectural planning, environmental assessments, traffic engineering, land use planning, construction management, and beyond. This diverse skill set enables us to deliver comprehensive, customized solutions that cater to the multifaceted needs of our clients.

In addition, we are home to several accredited Envision Sustainability Professionals who enhance our water, drainage, and construction engineering and inspection teams. Their specialized knowledge in sustainable practices ensures that we are equipped to tackle projects with the foresight and responsibility necessary for creating a more sustainable future.

CHA, in collaboration with its subconsultants, CTS Engineering, Inc. (surveying, mapping & SUE), LARS Engineering, Inc. (bridge inspection) (DB/SBE), McFarland-Johnson, Inc. (environmental), Tierra South Florida, Inc. (geotechnical) (d/b/a), and Infinite Source Communications, Inc. (public involvement) (DBE/SBE/WBE), has strategically assembled a team with specialized expertise tailored to the city's needs, ensuring high-quality service delivery for upcoming projects.

The project manager, **Adrian Alfonso, PE,** will oversee the technical design and coordination of disciplines, serving as the primary liaison with the City of Fort Lauderdale, ensuring the project's success through a collaborative effort with the entire team.

AVAILABILITY

Our proposed key personnel are available to undertake the potential assignments in this contract. Current and projected workloads are analyzed weekly at CHA to allocate resources appropriately. As projects are initiated, the appropriate technical and support resources necessary to perform each task are allocated to meet or exceed all project requirements. The team designated for this solicitation is poised to begin immediately, chosen for their extensive experience and capacity to meet the contract's diverse requirements.

UTILIZATION

Staff utilization is in the 40-100% range, leaving an uncommitted staff effort of average of 70%.

CHA has the resource availability to meet your delivery goals.

Past work experience of the key professionals that will be supporting the **City of Fort Lauderdale**, including a brief description of their professional background as it relates to their roles on this particular contract, are discussed below:

Adrian Alfonso, PE | Project Manager/Structural

- Adrian has 11 years of experience in designing bridges, retaining walls, and miscellaneous structures. He has successfully **led bridge design projects in South Florida** and has overseen the development from concept through final plans and construction.
- Adrian is also the **Section Manager** of our Miami based bridge design team and is responsible for overseeing the technical delivery of the design and plans for this group.
- Some of his relevant experience includes: Miami-Dade County DTPW Bridge Replacement at North Miami Avenue over Little River Canal (874127), Miami-Dade County WASD Opa-locka Executive Airport Bridge over SFWMD Canal and FDOT District 6 Reconstruction of SR 977/Krome Avenue.

Why Adrian? *Adrian's local knowledge and experience will be vital to delivering these projects for Fort Lauderdale.*

Mike Culmo, PE | QA/QC

- With over 41 years of experience in civil engineering, Mike has consistently overseen the quality control of bridge design activities, ensuring that all projects meet stringent industry standards and specifications.
- Leveraging his four decades of expertise, Mike has become a nationally-recognized authority in Accelerated Bridge Construction (ABC) technologies, applying this knowledge to improve the efficiency and safety of numerous bridge construction projects.

Why Mike? *Mike's experience with ABC projects will be very applicable for the bridge projects in this proposal where the bridges will need to be replaced quickly while providing access for impacted stakeholders and residents at these locations.*

Eithel Sierra, PE | QA/QC

- Eithel brings 29 years of expertise in highway and infrastructure design and management, with a strong background in infrastructure projects for major municipalities, including FDOT District 4, Broward County, and Palm Beach County.
- Proficient in urban and rural construction, reconstruction, and resurfacing projects, Eithel excels in managing roadway, signage, signalization, lighting, and ITS components. His meticulous approach guarantees high-quality outcomes and adherence to quality assurance standards.

Why Eithel ? *Eithel has extensive experience working on roadway projects in Broward County that will provide insight on to the best strategies for executing practical solutions with minimal impacts to the community.*

Levi Boyle, PE | Constructability Review/Construction Engineering Inspection (CEI) Lead

- Levi brings over 12 years of diverse civil engineering experience, including roles as a CEI, contractor, and designer. He effectively managed multiple in-house construction projects at FDOT District 6 South Miami Dade and Monroe Residency.
- A 2017 FDOT Construction Academy graduate, Levi served as Senior Project Engineer in FDOT districts 1 and 4. His deep expertise in constructability review ensures projects are designed efficiently and executed seamlessly.

Jim Aitken, PE | Structural Lead

- Jim is a bridge expert specialized in bridge replacement and structural design. He leads the southeast bridge team at CHA, focusing on delivering service excellence and ensuring quality outcomes for clients.
- With 30 years in the field, Jim has successfully managed, designed, and delivered numerous bridge replacements and structural engineering projects across highways, transit, and railroads in Georgia and the southeast.
- Jim excels in handling multi-disciplinary projects, managing complex budgets, and developing innovative, cost-effective solutions. He has extensive experience with similar design projects, task orders, and on-call construction support services.

Cecilia Villoria, PE | Roadway and Signing & Pavement Markings Lead

- Cecilia has over 31 years of design and project management experience, including work on FDOT projects, ensuring compliance with state standards and regulations.
- She has sucesfully managed and executed roadway engineering design projects in Broward and Palm Beach counties, demonstrating a deep understanding of local infrastructure needs and challenges.
- Proficient in all aspects of project management, from scheduling and engineering design to construction inspection services, with a focus on pavement marking, signage, signalization, drainage, MOT, and specifications packages.

Alejandro Leon, PE | Maitanance of Traffic (MOT) Lead

- Alejandro has over 17 years of experience in designing highway facilities, specializing in MOT plans. He has completed the Advanced Maintenance of Traffic course approved by FDOT and has significant experience in MOT design, including major interchange reconstructions.
- Alejandro has been the lead designer and project manager on a wide range of projects for various agencies, including FDOT Districts 6 and 4, GMX, Miami-Dade and Broward Counties, and several local municipalities.
- His project experience include major interchange reconstructions, lighting-only projects, roadway reconstructions, RRR projects, bicycle/pedestrian mobility ADA compliance projects, and civil site projects.

Elio Espino, PhD, PE | Active Work Zone Management Lead

- With over 27 years in the field, Elio leads a team of engineers and technicians, providing comprehensive services in work zone management, traffic operations, and intelligent transportation systems (ITS).
- Elio's tenure as a district safety engineer within FDOT District 6 has equipped him with in-depth knowledge and practical experience in managing active work zones, ensuring safety and efficiency.
- Most rencently, Elio supported FDOT District 6 with with a high-profile project ofRickenbacker Bridge Rehabilitation. He actively monitored work zones and made real-time signal timing adjustments to alleviate congestion and improve traffic flow. Documented and analyzed outcomes through daily dashboards and traffic alerts to ensure effective traffic management.

Angela Baron-Ruiz, PE, ENV SP | Drainage/Permitting/Compliance/Sustainability Lead

- Angela has 16 years of experience in drainage, pump station design and hydraulic modeling for various projects.
- Angela has integrated sustainable practices in major projects, exemplifying her commitment to environmentally responsible engineering. Her focus extends beyond traditional design aspects to include sustainable drainage solutions and green infrastructure techniques. These efforts were aimed at reducing environmental impact, enhancing stormwater management efficiency, and improving the overall sustainability.
- Angela's skills extend to permit acquisition and coordination with various agencies. Her work on projects like the Golden Glades Multimodal Transportation Facility and the SR-826/SR-836 Interchange demonstrates her proficiency in navigating complex regulatory landscapes and coordinating with multiple stakeholders.

Arnelio Alfonso, PE | Water Resources Lead

- With over 38 years of expertise in stormwater, Arnelio has successfully led projects focused on sea level rise mitigation, flood protection studies, and stormwater management master plans for various municipalities, state, and federal agencies.
- Arnelio has cultivated strong relationships with major agencies such as the South Florida Water Management District, the Florida Department of Environmental Protection, the U.S. Army Corps of Engineers, Miami-Dade County WASD and Miami-Dade Department of Regulatory and Economic Resources, ensuring seamless project execution and collaboration.
- Arnelio has extensive experience working with local Miami-Dade and Broward Counties municipalities, including the City of Fort Lauderdale. He served as the project manager for the design of the rehabilitation and replacement of approximately 15,200 feet of 54-inch HDPE force main, showcasing his leadership and technical proficiency in managing large-scale infrastructure projects.

Lisette Guon, EI | Utility Coordination

- Lissette has 22 years of experience in utility coordination for major water and sewer projects. She was the senior utility coordinator for the 48-Inch Diameter Water Transmission Main for "Area N" in Miami-Dade, where she handled the installation of a major water main and force main, requiring extensive coordination with utility agencies.
- She has been dedicated to maintaining high-quality standards in her work. She has prepared, reviewed, and updated construction documents in accordance with the FDOT Plans Preparation Manual, FDOT Design Standards, and the Manual of Uniform Traffic Control Devices, ensuring all projects adhere to the highest industry standards.
- She excels in managing and coordinating electrical infrastructure aspects of utility projects, integrating new systems into existing networks with a focus on safety and efficiency.

Joseph Graham, JD, PE | Grants/Funding

- Joe has over 15 years of experience in securing federal and state funding for various infrastructure projects. His expertise includes service and impact fee determinations, public system asset valuation, and budgeting for operations and capital improvement programs.
- Joe served as the technical representative to a multi-agency water cooperative, engaging with elected representatives, regulatory community members, and the general public on utility issues. His role involved strategic planning and securing funding for public infrastructure projects.

Adrian Leon, PE, CBI, CTI | Bridge Inspection (LARS)

- Adrian has over 16 years of expertise in structural design and inspection projects in South Florida, including bridges, traffic signal mast arms, high mast light poles, and overhead signs.
- He served as Project Manager, Deputy Manager, and Lead Inspector in major inspection contracts with FDOT Districts 1, 4, 5, 6, 7, GMX, and Miami-Dade Aviation Department.
- Since 2019, has been an integral part of FDOT District 6's Bridge and Structures Maintenance Unit, providing valuable support and expertise.

David Rosa | Environmental (McFarland Johnson)

- With over 24 years of experience, David has managed NEPA document preparation, site investigations, compensatory mitigation, monitoring, and environmental management, demonstrating his expertise in both benthic and terrestrial studies.
- David has collaborated with key regulatory agencies across South Florida, including the EPA, USACE, FDEP, SFWMD, FWC, and Broward County EPGMD, ensuring compliance and permitting for various environmental projects.
- He has led environmental efforts on significant projects such as the Fort Lauderdale GTL-WWTP Redundant Force Main Design-Build, FDOT District 4 bridge replacements and seagrass surveys, Venetian Causeway Bridge repairs, and the Fort Lauderdale-Hollywood International Airport Runway Extension.

Raj Krishnasamy, PE | Environmental (TSF)

- With over 38 years in the field, Mr. Krishnasamy has successfully completed more than 7,500 public and private projects as a Florida registered geotechnical engineer.
- As president and Principal engineer of TSFGeo, he oversees geotechnical engineering, construction materials testing, and inspection services, and manages continuing contracts with over 20 Florida public agencies.
- His daily involvement in both in-house and field operations provides him with practical knowledge of current construction codes and practices, ensuring accurate, cost-effective, and timely project delivery.

Paul E. Doll, PSM | Surveying, Mapping and SUE (CTS)

- Paul has over 30 years of experience working on FDOT projects, including roles as survey crew chief, survey technician, and surveyor, where he conducted and supervised field surveys and reviewed data for compliance.
- He has significant expertise in data processing using software such as MicroStation, GEOPAK, CAiCE, and FDOT CADD applications, and has evaluated and developed procedures for Leica survey equipment.
- He has managed up to 20 survey and mapping consultant contracts, supervised in-house survey crews, and served on the state surveying and mapping technical advisory committee (SAMTAC), providing technical support and training to field crews.

Monica Diaz | Public Involvement (ISC)

- Monica has over 20 years in public involvement, public relations, print journalism, and integrated marketing communications, managing staff and communications budgets exceeding $2 million.
- She has successfully led outreach for over 60 roadway projects in South Florida, serving as the lead spokesperson for FDOT District Six Construction and the City of Miami Beach.

Past Experience

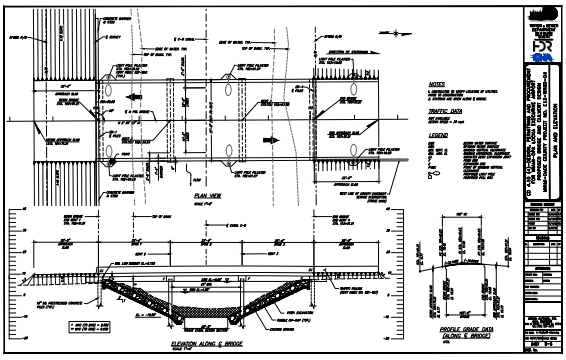
For over seven decades, CHA has been at the forefront of providing exceptional professional services across a multitude of engineering disciplines. Our vast experience is punctuated by numerous successful projects for entities mirroring the size and scope of the City of Fort Lauderdale. Detailed case studies from our extensive portfolio exemplify our strategic approach to project execution, where meeting deadlines and adhering to budgetary constraints are not merely goals but benchmarks for success. These narratives of past achievements are a testament to our firm's relentless drive for excellence and reliability in delivering results that not only meet but exceed our clients' expectations.

The subsequent pages will detail the prior work experiences showcasing our adaptability and expertise in managing complex demands.

Dates: 2018 - 2025
Professional Services: $400,000
Construction Cost: $3M

Bridge Replacement at North Miami Avenue over Little River Canal (DB16-DTPW-04) | Miami-Dade DTPW, FL.

This design-build project consisted of road improvements and the replacement of the N. Miami Ave bridge over the Little River Canal C-7, with an overall bridge length of 91'-6" and an overall bridge width of 70'-0". The project included the design and plan preparation of the new 3-span reinforced concrete deck slab bridge, which replaced the older 4-span structure. The project also required the design of a sheet pile retaining wall to provide slope stability and protection from the canal flow. The canal capacity was improved as part of this project by optimizing the cross-section and reducing the number of piles in the canal. The bridge was replaced in two phases to always maintain the flow of traffic along North Miami Avenue. Some challenges in the project included the relocation of utilities carried by the bridge, replacement of outfall drainage structures below the bridge, and stage construction.



Dates: 2018 - Present
Professional Services: $270,000
Construction Cost: Est. $6.5M

Opa-locka Executive Airport Proposed Bridge over SFWMD C-8 Canal (E13-WASD-04) | Miami-Dade WASD, FL.

This project is located within the Opa Locka Executive Airport and involves the demolition of an existing bridge over the SFWMD C-8 Canal, the installation of a proposed 2-108" RCP culvert, the restoration of the canal cross-section, and the construction of a proposed three-span reinforced concrete deck bridge over the C-8 Canal. CHA was responsible for the design of all components of the project, including the demolition plan and the mitigation of existing hazardous materials. The bridge design featured a reinforced concrete deck superstructure to minimize the bridge profile. Coordination with MD-WASD, SFWMD, MDAD, and FAA was critical to ensure the requirements of all agencies were simultaneously met. The project also included lighting improvements on the bridge, a raised profile to meet canal requirements, and additional design and construction modifications to meet aviation and SFWMD requirements.

Dates: 2012 - 2020
Professional Services: $2.4M
Construction Cost: $28M

SR 997/Krome Avenue over C-102 Canal (FPID: 427369-2-52-01) | FDOT Disitrict 6, FL.

CHA successfully completed the upgrade of SR 997/Krome Avenue/SW 177th Avenue, stretching from SW 232nd Street (MP 7.519) to just south of SW 184th Street/Eureka Drive (MP 10.536). The enhancement project transformed the existing two-lane undivided roadway into a more efficient four-lane divided highway. A major component of this project was the relocation and replacement of the SFWMD Control Structure S-194 crossing the C-102 Canal. CHA was responsible for the design of the structural, electrical, and mechanical components for the new structure, ensuring compliance with the latest SFWMD standards. Additionally, CHA was responsible for the design and plan preparation of two bridges using FIB-36 concrete beams. The project included a cantilever retaining wall using 24" piles with precast panels and the design of 16 mast arms, 8 of which were dual mast arms with several arms reaching the maximum standard length of 78 feet.

Dates: 2016 - 2021
Professional Services: $9.22M
Construction Cost: Est. $103M

SR 25 Okeechobee Road from East of NW 107th Avenue to East of NW 116th Way (FPID: 423251-5-52-01) | FDOT District 6, FL.

The project included the design of bridges for grade separation of Okeechobee Road over NW 116th Way with a T-bridge intersection for SE and NW connections to facilitate the left turn lane from southbound NW 116th Way to eastbound Okeechobee Road. Additionally, the project contained two bridge replacements to widen smaller bridges crossing the Miami (C-6) Canal at NW 121st Avenue and NW 116th Way. The Frontage Road, from MP 6.310 to MP 8.146, underwent complete reconstruction and realignment. CHA was responsible for all design project management and coordination efforts. They developed the roadway geometry and final plans and led the structure concept and final design for four bridges, drainage, ITS, lighting, utility coordination, and miscellaneous structures.

Dates: 2020 - 2023
Professional Services: $1.5M
Construction Cost: NA

Design-Build Tiger Grant Project | FDOT District 4, FL.

This project consisted of improvements on Riverland Road from US-441 to Broward Boulevard and included modifications to the existing bridge on Riverland Road over Brach South N New River, located in the City of Fort Lauderdale. The improvements to the bridge included the removal of existing concrete curbs, a new asphalt overlay, raising the barriers to meet ADA requirements, modifications to the barriers and approach guardrails for roadway safety, retrofitting the abutment wing walls, and adding bullet rails for the implementation of bike lanes. The load rating was reviewed to account for the changes to the bridge to ensure the modifications maintained the structural adequacy of the water crossing. The modifications optimized the bridge width while improving safety for the community. **Notably, the project earned a Florida Transportation Builders Association 2023, "Best in Consutruction Award, Community Awareness."**

Dates: 2016 - 2021
Budget: $7.2M

Route 4 Bridge over Lafayette Road Replacement | RIDOT, RI.

In April 2024, the Rhode Island Department of Transportation (RIDOT) engaged CHA to rapidly replace Bridge No. 078101 on Route 4 over Lafayette Road in North Kingstown. CHA employed an innovative lateral slide method (LSM), marking Rhode Island's first use of this technique.

CHA's role included designing the LSM, managing the project, and overseeing construction. The existing superstructure was demolished, and new precast concrete bridge seats were placed. The new superstructure was then slid into place using a skid system, minimizing traffic disruption. The project successfully enhanced the infrastructure with minimal impact on traffic, setting a new standard for bridge construction in the state.

Dates: 2015 - 2022
Budget: $10.8M

Design for Bridge Nos. 00488 and 00489, Route 66 over P&W Railroad and NECR | CTDOT, CT.

The Connecticut Department of Transportation (CTDOT) undertook the rehabilitation of Bridge No. 00488, a structurally deficient steel pony truss built in the late 1930s, and the superstructure replacement of Bridge No. 00489 using accelerated bridge construction (ABC) techniques. Initially planned for complete replacement, Bridge No. 00488's rehabilitation was chosen due to coordination challenges with the railroad and expiring project funds. CHA conducted thorough inspections, identified deterioration, and performed necessary repairs, including gusset plate replacements. Bridge No. 00489's superstructure was replaced with prefabricated bridge units (PBUs) during a weekend closure, significantly reducing disruption. The project included comprehensive highway design, barrier upgrades, intersection design, and traffic management, with construction completed in summer 2023.

Dates: 2022 - 2024
Budget: $2,670,00

Champeaux Road Bridge Replacement | MassDOT, MA.

The Massachusetts Department of Transportation (MassDOT) hired CHA to replace the Champeaux Road Bridge over Long Pond in Sturbridge, Massachusetts. Built in 1938, the bridge required total replacement due to structural deficiencies. CHA's innovative design featured an integral abutment bridge supported by small-diameter, high-capacity structural elements called micropiles. This minimally invasive technology eliminates joints at the bridge's ends, reducing long-term maintenance needs. CHA developed a comprehensive structural monitoring plan to track the bridge's performance, with the data helping to inform future design standards. Completed a year ahead of schedule, the project improved flood resilience, enhanced safety, and minimized environmental impact. **At the ACEC CT's 2025 Engineering Excellence Awards, CHA's Connecticut Transportation team won the Merit Award for their innovative redesign of the Champeaux Road Bridge over Long Pond in Sturbridge, MA.**

Dates: 2024 - Present
Professional Services: $442,492
Construction Cost: NA

City of Miami Seawall Improvement | City of Miami, FL.

This project involves rehabilitating three existing seawalls with a modified cap and replacing five existing seawalls with a new sheet piling seawall system in Edgewater, between NE 22nd Street and NE 34th Street along Biscayne Bay. The total length of seawall improvements across the eight locations is approximately 380 linear feet. The structural engineer is in charge of the plan development and structural design of the proposed seawall modifications and new seawalls. Drainage, roadway, and pedestrian improvements are also part of the new construction. Coordination with surveying, geotechnical, and permitting agencies is critical for the seawall improvements. The purpose of the seawall is to increase the top of wall elevation to mitigate the effects of sea level rise. The design of the seawalls will also implement an environmentally friendly living shoreline from Kind Designs. The living shoreline mimics ecosystems like mangroves to create habitats and promote the growth of local marine life.

Dates: 2022 - Present
Professional Services: $281,090
Construction Cost: NA

City of Miami Beach Seawall Improvement | City of Miami Beach, FL.

This project consists of replacing three existing seawalls with a new post and panel seawall system along Collins Avenue between 23rd Street and 25th Street on the Intracoastal side of Miami Beach. The total length of seawall improvements across the three locations is approximately 470 feet. The structural engineer is in charge of the plan development and structural design of the proposed seawalls.The purpose of the seawall is to increase the top of wall elevation to mitigate the effects of sea level rise and enhance environmental sustainability by protecting coastal ecosystems.

Dates: 2004 - 2020
Professional Services: $7.5M
Construction Cost: $96.8M

Sea Level Rise Mitigation Program | City of Miami Beach, FL.

CHA, as the program manager for the City of Miami Beach Sea Level Rise Mitigation Program, collaborated with the city to assess the risks of rising seas and coastal flooding. They developed strategies for evaluating and adapting to these impacts, including infrastructure options, flood risk management, and transportation planning. CHA designed and implemented various construction projects to enhance climate change resiliency, such as stormwater systems, seawalls, and pump stations. Key projects included the Nautilus Neighborhood Improvements, Crespi Boulevard seawall construction, 11th Street Sea Level Rise Mitigation, Prairie Avenue Pump Station, Biscayne Point Neighborhood Improvements, Washington Avenue upgrades, Lummus Neighborhood Improvements, and Little Flamingo Neighborhood Improvements. These efforts informed policymakers and stakeholders, helping to prioritize and build adaptation strategies that bolstered the city's resilience to sea level rise and coastal flooding.

Sustainable Practices

When it comes to environmental issues, the goal is always to minimize impact. CHA's Environmental, Health & Safety (EHS) Group achieves this goal by having intimate knowledge of environmental regulations and sustainable practices, properly assessing site conditions and applicable mitigation approaches, understanding your goals, and clearly and frequently communicating with you through the course of your sensitive environmental project and achieving your sustainability goals. We provide creative solutions to help clients investigate environmental challenges, design cleanup solutions, and comply with regulatory requirements. We have expertise in the following areas:

ENVIRONMENTAL PERMITTING AND COMPLIANCE
- Multi-Media Compliance Audits
- Preparation of SPCC and SWPPPs
- Environmental Impact Statements
- NEPA Compliance

ECOLOGICAL SERVICES
- Habitat Management Plans
- Wetland Delineation, Mitigation and Monitoring
- Invasive Species Management
- Stream Assessment and Restoration
- Threatened and Endangered Species Surveys

SITE INVESTIGATIONS
- Phase I Environmental Site Assessments
- Phase II Site Investigations
- Geophysical Investigations
- Soil Vapor Intrusion Studies

AIR TESTING AND PERMITTING
- Air Permitting and Stack Testing
- Indoor Air Sampling

HAZARDOUS MATERIAL BUILDING ASSESSMENT
- Asbestos, Lead Paint, and Mold Surveys

REMEDIATION
- Petroleum and Chemical Bulk Storage Design
- Remedial Design
- Construction Monitoring/Oversight

HEALTH AND SAFETY
- Health and Safety Program Development
- Health and Safety Training

We work hand in hand with our clients, blending expertise from multiple disciplines to create solutions that are not only practical but also environmentally conscious. As we navigate the complex intersection of environmental sustainability, community expectations, and cost-effectiveness, our goal remains unwavering: **to create a balance that serves both present needs and future generations.**

CHA'S SUSTAINABILITY RESULTS AT A GLANCE

Nationally and locally recognized for engineering design and CEI

National Awards for Bridge Design/ Construction Projects

AISC 2022 National Steel Bridge of the Year, NASCC Charter Oak Bridge

2021 PCI Design Award, Best Bridge with a Main Span From 76-149 Feet, Blackhall Road over Rum Creek

ACEC CT 2025 Engineering Excellence Awards – Merit Award, MASSDOT Champeaux Road Bridge Replacement

2022 National Steel Bridge Alliance Prize Bridge Awards, Bridge of the Year, CTDOT, Relocation of I-91 Northbound Interchange 29

2025 ACEC Massachusetts Engineering Excellence Awards, Bronze Award, MASSDOT Bridge Rehabilitation on Route 2 Over Deerfield River

American Association of Civil Engineers (ASCE) | Florida Section | Miami-Dade Branch

2023 Project of the Year, Category I - CEI Services for the Venetian Causeway Water and Sewer Main Upgrades - Phase 1

2017-2018 Project of the Year, Category I for Outstanding Engineering Achievement - 11th. Infrastructure and ROW Improvements

2017-2018 Project of the Year for Outstanding Engineering Achievement - 54" Direction Drill for the City of Miami Beach, Florida

2016-2017 Project of the Year, Category I, Honorable Mention for Outstanding Engineering Achievement - NW 97th Avenue Roadway Improvements for the City of Doral

2014-215 Project of the Year, Category II for Outstanding Engineering Achievement - Biscayne Point Neighborhood Project.

2013-214 Project of the Year, Outstanding Engineering Achievement - The Port of Miami Tunnel

2011 Project of the Year, CEI Consultant for Outstanding Engineering Achievement - NW 25th Street Viaduct

2009 Project of the Year, Outstanding Engineering Achievement - Miami Intermodal Center Roadway Program, Miami, FL

American Council of Engineering Companies (ACEC)

2022 Engineering Excellence Awards - Grand Award for Horizontal Directional Drilling of 7 miles of 54" & 48" Redundant Sewer Forcemain through Downtown Fort Lauderdale, FL

2017 Engineering Excellence Awards - For Design-Build of a 54 inch Redundant Force Main Utilizing Horizontal Directional Drill

2017 Engineering Excellence Awards - Grand Award for SR 826 (Palmetto Expressway)/ SR 836 (Dolphin Expressway) Interchange Improvements, Miami, FL

Broward Metropolitan Planning Organization (MPO)

2023 People's Award in the Safe Street Summit - Prospect Rd. From Commercial Blvd. to SR 811/Dixie Hwy

Cuban American Association of Civil Engineers

2023 Presidential Award - CEI Services for the Venetian Causeway Water and Sewer Main Upgrades - Phase 1

Design-Build Institute of America (DBIA) - Florida Region

2017 Project of the Year - Water and Wastewater: Intercostal Waterway Crossings at Las Olas Boulevard, Fort Lauderdale, Florida. Engineer: A&P Consulting Transportation Engineers, Corp

Florida Engineering Society (FES) Local Chapter

2018 Outstanding Technical Achievement for Design-Build of a 54-inch Redundant Force Main Utilizing Horizontal Directional Drill (HDD), Miami Beach, FL

2017 Outstanding Technical Achievement for SR 826 (Palmetto Expressway)/SR 836 (Dolphin Expressway) Interchange Improvements, Miami, FL

Florida Institute of Consulting Engineers (FICE)

2017 Honor Award - Design-Build Project of a 54-inch Redundant Force Main Utilizing Horizontal Directional Drill (HDD). Client: City of Miami Beach. Category I: Special Projects

Florida Transportation Builders Association (FTBA)

2023 Award: Best in Construction Award | Community Awarness - Design Build Tiger Grant

2018 Florida's Best in Construction Interstate 2018: SR-93/I-75 Managed Lanes from South of Miramar Parkway to South of Sheridan St., Broward County, FL

2012 Florida's Best Construction Mayor Bridge: N.W. 25th Street Viaduct

2012 Florida's Best in Construction Interchange: Palmetto Expressway | Miller Dr. | Bird Road. Miami-Dade County

CHA Business Certificates and Licenses

CHA Consulting, Inc.

Florida dbpr Department of Business & Professional Regulation

HOME CONTACT US MY ACCOUNT

ONLINE SERVICES

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

LICENSEE DETAILS

3:44:50 PM 8/22/2024

Licensee Information

Name:	CHA CONSULTING, INC. (Primary Name)
Main Address:	575 BROADWAY ALBANY New York 12207
County:	OUT OF STATE

License Information

License Type:	Engineering Business Registry
Rank:	Registry
License Number:	28386
Status:	Current
Licensure Date:	01/29/2009
Expires:	

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

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

State of Florida
Department of State

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

The document number of this corporation is F08000004937.

I further certify that said corporation has paid all fees due this office through December 31, 2025, that its most recent annual report/uniform business report was filed on January 6, 2025, and that its status is active.

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

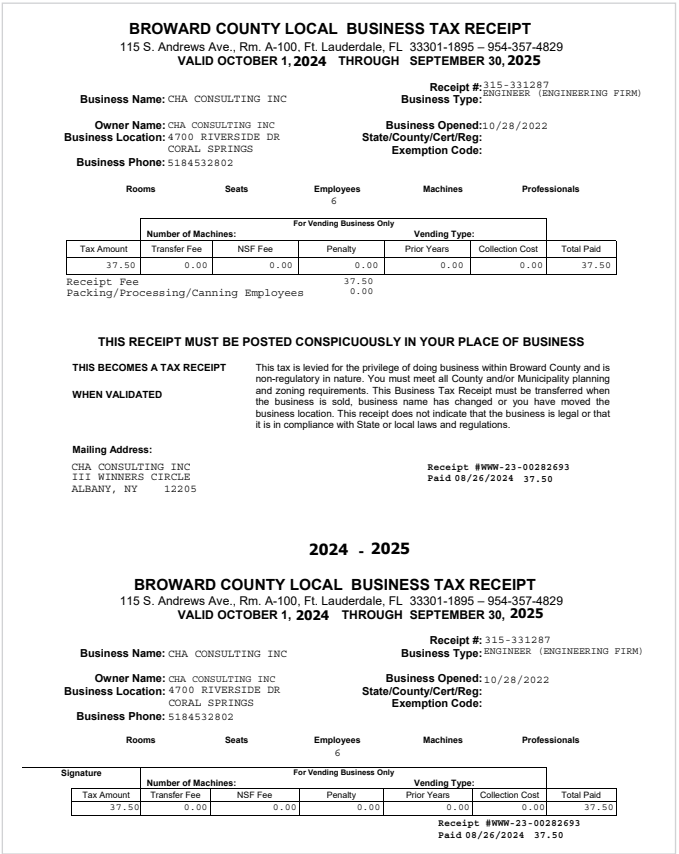
Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Sixth day of January, 2025

Secretary of State

Tracking Number: 1095476068CC

To authenticate this certificate,visit the following site,enter this number, and then follow the instructions displayed.

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



BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT
115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-357-4829
VALID OCTOBER 1, 2024 THROUGH SEPTEMBER 30, 2025

Business Name: CHA CONSULTING INC
Owner Name: CHA CONSULTING INC
Business Location: 4700 RIVERSIDE DR CORAL SPRINGS
Business Phone: 5184532802

Receipt #: 315-331287
Business Type: ENGINEER (ENGINEERING FIRM)
Business Opened: 10/28/2022
State/County/Cert/Reg:
Exemption Code:

Rooms	Seats	Employees	Machines	Professionals
		6		

For Vending Business Only — Number of Machines: — Vending Type:

Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
37.50	0.00	0.00	0.00	0.00	0.00	37.50

Receipt Fee 37.50
Packing/Processing/Canning Employees 0.00

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT WHEN VALIDATED

This tax is levied for the privilege of doing business within Broward County and is non-regulatory in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold, business name has changed or you have moved the business location. This receipt does not indicate that the business is legal or that it is in compliance with State or local laws and regulations.

Mailing Address:
CHA CONSULTING INC
III WINNERS CIRCLE
ALBANY, NY 12205

Receipt #WWW-23-00282693
Paid 08/26/2024 37.50

2024 - 2025

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT
115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-357-4829
VALID OCTOBER 1, 2024 THROUGH SEPTEMBER 30, 2025

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Owner Name: CHA CONSULTING INC
Business Location: 4700 RIVERSIDE DR CORAL SPRINGS
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State/County/Cert/Reg:
Exemption Code:

Rooms	Seats	Employees	Machines	Professionals
		6		

Signature — For Vending Business Only — Number of Machines: — Vending Type:

Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
37.50	0.00	0.00	0.00	0.00	0.00	37.50

Receipt #WWW-23-00282693
Paid 08/26/2024 37.50

TAB 3 - QUALIFICATIONS OF THE PROJECT TEAM

3. QUALIFICATIONS OF THE PROJECT TEAM

We have assembled a team distinguished by specialized expertise and a track record of successful collaboration on prior projects. **CHA,** alongside our partners, **CTS Engineering, Inc., LARS Engineering, Inc., McFarland-Johnson, Inc., Tierra South Florida, Inc., and Infinite Source Communications, Inc.,** has a history of providing services to local municipalities, and we have intentionally formed this team to align with the city's needs and our commitment to delivering high-quality services for any forthcoming projects under this contract.

CHA is recognized for delivering prompt and technically proficient services. Our reputation extends beyond our leading position in design, permitting, and construction management; we are also a preferred consultant for numerous municipalities.

Currently, we hold over 60 ongoing contracts with public agencies in Florida, offering multiple engineering services. Our clients rely on us for their most complex and high-profile endeavors.

The CHA team, selected for this solicitation, boasts considerable experience necessary to deliver the services outlined in the scope of services. All team members are ready to commence work immediately. Our team selection has been strategic, ensuring a local group that is well-equipped to meet the contract's multifaceted demands. When choosing our key staff, we consider not only their technical expertise but also their current capacity to handle the workload.

The project manager for this solicitation, **Adrian Alfonso, PE,** will be responsible for supervising the technical design elements and orchestrating various disciplines to guarantee timely project completion within the set timeframe. Adrian will act as the chief liaison between CHA, our subconsultants, and the City of Fort Lauderdale. With over 11 years of experience in similar projects, he has a well-documented history of success.

However, success is not the work of a single individual; it is a collective effort, and this contract will be no different. The accomplishment of this contract will be a testament to our team's collaborative spirit, emphasizing the significance of each member supporting the project manager.

The subsequent pages will detail the prior work experiences and professional backgrounds of the key professionals supporting Adrian, highlighting their specific contributions to this contract.

BRIDGE DESIGN AND MISCELLANEOUS STRUCTURAL ENGINEERING SERVICES, CONTINUING SERVICES CONTRACT

City of Fort Lauderdale - RFQ No. 423

TEAM:

- **CHA** CHA Consulting, Inc. (PRIME)
- **TSF** Tierra South Florida, Inc.
- **CTS** CTS Engineering, Inc.
- **ISC** Infinite Source Communications Group, Inc.
- **LARS** LARS Engineering, Inc.
- **MFJ** McFarland-Johnson, Inc.

CITY OF FORT LAUDERDALE

CONSTRUCTABILITY REVIEW

Levi Boyle, PE, 13* 75%
CHA

PROJECT MANAGER

Adrian Alfonso, PE, 11* 90%
CHA

QA/QC MANAGER

Michael Culmo, PE, 41* 75%
CHA

Eithel M. Sierra, PE, 30* 80%
CHA

LEGEND:

Years of Experience: Staff Name, YOE
Availability: XX%
Key Personel/Task Lead: **Staff Name, YOE***

STRUCTURES

Jim Aitken, PE, 30* 75%
CHA

Adrian Alfonso, PE, 11* 90%
CHA

Nicholas Fernandez, 37 90%
CHA

Pablo Arteaga, EI, 2 90%
CHA

Emilio Castellanos, 1 90%
CHA

ROADWAY/SIGNING & PAVEMENT MARKINGS

Cecilia Villoria, PE, 32* 80%
CHA

Ena Gonzalez, PE, 20 90%
CHA

Victor Venezia, PE, 6 80%
CHA

Kevin Hernandez, 4 90%
CHA

DRAINAGE

Angela Baron-Ruiz, PE, ENV SP, 17* 75%
CHA

Rocio Trimino-Gort, PE, 5 80%
CHA

Francisco Vasquez, MS, PE, 16 80%
CHA

PERMITTING/COMPLIANCE/SUSTAINABILITY

Angela Baron-Ruiz, PE, ENV SP, 17* 75%
CHA

UTILITY COORDINATION & GRANTS

Lisette Guon, EI, IMSA I & II, 24* 80%
CHA (Utility Coordination)

Joseph Graham, PE, 30* 75%
CHA (Grants)

WATER RESOURCES

Arnelio Alfonso, PE, 38* 90%
CHA

Julian Gomez, PE, 9 90%
CHA

BRIDGE INSPECTION

Adrian Leon, PE, CBI, CTI, 16* 70%
LARS

Randy Suarez, PE 18 70%
LARS

Loren Marquez, PE, CBI, CTI, 14 80%
LARS

MOT/ACTIVE WORK ZONE MANAGEMENT

Alejandro Leon, PE, MSEM, 18* 75%
CHA (MOT)

Elio Espino, PE, PhD, 28* 75%
CHA (WZM)

CEI

Levi Boyle, PE, 13* 75%
CHA

Alexander Milz, PE, 12 75%
CHA

PUBLIC INVOLVEMENT

Monica Diaz, 20* 70%
ISC

Walna Calixte , 22 80%
ISC

GEOTECHNICAL ENGINEERING

Raj Krishnasamy, PE, 38* 70%
TSF

Kumar Vedula, PE, 29 80%
TSF

SURVEY, MAPPING & SUE

Paul E. Doll, PSM, 30* 75%
CTS

Dennis Stanton, 30 75%
CTS

Lisa R. Tolstoy, PSM, 30 75%
CTS

ENVIRONMENTAL

David Rosa, 24* 80%
MFJ

Adrian Alfonso, PE

Project Manager - Structures

Education
Florida International University, FL.
B.S. in Civil Engineering (2014)

Registration
Professional Engineer: FL No. 87015 (03/27/2019)

Adrian has over 11 years of experience designing bridges, retaining walls, and miscellaneous structures. Adrian currently leads CHA's Bridge Team based in South Florida, serving as a project manager and technical lead. His past experience includes work with Florida Department of Transportation, Florida's Turnpike Enterprise, the City of South Miami, the Greater Miami Expressway (GMX), Miami Dade Department of Transportation and Public Works, and the Miami-Dade Water and Sewer Department. He is experienced with Autocad, Open Bridge Designer, Microstation, GEOPAK, STAAD, and Mathcad for bridges, walls, and structure design. Adrian supported the Bridge Maintenance Office in District 6 using PONTIS and GIS for bridge inspection reports. He is also experienced with the electronic review comments (ERC) system to review project submittals. Adrian is dedicated to ensuring that projects are completed on time, within budget, and to the satisfaction of all stakeholders. Representative project experience includes:

Miami-Dade County WASD, Opa-locka Executive Airport Bridge over SFWMD c-8 Canal, Opa-locka, FL. Engineer-of-record and project manager. This project is located within Opa Locka Executive Airport and consists of the demolition of an existing bridge over SFWMD C-8 Canal, a proposed 2-108" RCP culvert, restoration of the canal cross section, and a proposed 3 span reinforced concrete deck bridge over C-8 Canal. Project Engineer responsible for the design of the bridge and project management activities such as coordination with MD-WASD, SFWMD, MDAD, and FAA. The project also included lighting improvements on the bridge, raised profile to meet canal requirements, and additional design/construction modifications to meet aviation and SFWMD requirements. **Reference:** Roger F. Williams, P.E.; (305) 804-5820. **Dates:** 04/2018- On-Going.

City of Miami, Seawall Improvements, Miami, FL. Engineer-of-record and project manager to design seawalls to mitigate sea level rise and incorporate an environmentally friendly shoreline to support local marine life. Rehabilitated three existing seawalls and replaced five with a new sheet piling seawall system along Biscayne Bay in Edgewater. Adrian managed plan development and structural design for 380 linear feet of seawall improvements. He oversaw plan development for drainage, roadway, and pedestrian enhancements, as well as coordinated with subconsultants, permitting agencies and the City of Miami. **Reference:** Pedro Javier Alvarado, E.I., CGC, CFM; (305) 416-1255. **Dates:** 04/2024 - On-Going.

City of Miami Beach, Seawall Improvement, Miami Beach, FL. Engineer-of-record and project manager. This project consists of replacing three existing seawalls with a new post and panel seawall system along Collins Avenue between 23rd street and 25th street on the Intracoastal side of Miami Beach. The purpose of the sea wall is to increase the top of wall elevation to mitigate the effects of sea level rise. The total length of seawall improvements of the three locations is approximately 470 feet. Adrian serves as the project manager and structural engineer for the design and plan delivery of the new seawalls. He is responsible for managing the schedules, budgets, resources and all coordination with the permitting agencies for this project. **Reference:** Giancarlo Peña, P.E., CGC. (305) 673-7000. **Dates:** 02/2022 - On-Going.

Adrian Alfonso, PE

Project Manager/Structures

Miami-Dade County DTWP, Bridge Replacement at North Miami Avenue over Little River Canal (874127), Miami, FL. This design build project consists of road improvements and the replacement of the N. Miami Ave bridge over the Little River Canal C-7 with an overall bridge length of 91'-6". Adrian is the project engineer responsible for the design and plan preparation of the three span reinforced concrete deck slab bridge. The project also required the design of a sheet pile wall to provide slope stability and protection from the canal flow. Some challenges on the project included the relocation of utilities, replacement of outfall drainage structures below the bridge, and stage construction. **Reference:** Jim Hennigar, (561) 313-9815. **Dates:** 04/2018-01/2025.

Florida Department of Transportation - District 4, SR 817/University Drive (Riviera Boulevard to SR 824/Pembroke Road), Miami Gardens, FL, FPID No. 432066-8-52-01. Project engineer for the pedestrian bridge south of Miramar Boulevard over South Broward Drainage District Canal 1 with a contract amount of $1.5 million in the City of Miramar, Broward County, Florida. Adrian was responsible for the bridge design that provided access over the existing canal to residential communities east and west of University Drive via access ramps supported on the embankment. **Reference:** Leslie Wetherell, PE, (954) 777-4438, Leslie.Wetherell@dot.state.fl.us. **Dates:** 09/2019 - 03/2025.

Florida Department of Transportation - District 4, I-95 Express Lanes Phase 3A-1 (South of Broward Boulevard to Atlantic Boulevard). Project engineer for the design-build project in Phase 3A-1 of the department's overall Phase 3 implementation of express lanes along the I-95 corridor within Broward and Palm Beach Counties. Adrian's responsibilities included supervising the design team to develop contract plans and structural calculations for multiple non-standard half-span sign structures consisting of dual uprights with span lengths over 120 feet and cantilever structures with dual upright supports. Other responsibilities included the design calculations and contract plans for 1,305 feet of 20 feet ground-mounted noise walls and several bridge-mounted signs. **Reference:** Vanita Saini, PE (954) 777-4468, Vanita.Saini@dot.state.fl.us. **Dates:** 09/2015- Ongoing.

Florida Department of Transportation - District 6, Reconstruction of SR 977/ Krome Avenue (SW 232 Street to South of SW 184 Street/Eureka Drive), Miami, FL. Structural engineer responsible for the design of bridges 871177 and 871178 over the C-102 Canal. Adrian was responsible for the bridge design including the 69 feet single-span using FIB-36 prestressed girders and pile-supported foundations at the abutments. Other responsibilities included the design of a cantilever retaining wall using 24-inch prestressed pile and precast panels. **Reference:** Bao-Ying Wang, PE, (305) 470-5211, BaoYing.Wang@dot.state.fl.us. **Dates:** 04/2014 - 04/2020.

Florida Department of Transportation - District 6, SR 25/Okeechobee Road Reconstruction, Hialeah, FL. This project includes the major reconstruction of SR 25 to provide grade separation at the intersection of NW 116th Way. Adrian leads the post-design services and was responsible for the design and plan preparation of the elevated T-intersection consisting of bridges 2 and 4, miscellaneous roadway structures, and special foundations. He is the project engineer for the design, plan preparation, and QA/QC of bridges 1 and 3. Design challenges on this project include the steel straddle bent on flared FIB-72 concrete beams, steel girder design with a skew above 40 degrees, and the elevated T-intersection. **Reference:** Bao-Ying Wang, PE, (305) 470-5211, BaoYing.Wang@dot.state.fl.us.**Dates:** 05/2016–Ongoing.

Michael Culmo, PE

QA/QC Manager - Bridge & Structures

With a career spanning 41 years, Mike is a highly experienced civil engineer specializing in transportation, particularly in the design of bridges and highways. His expertise includes railroad bridges and accelerated bridge construction (ABC) technologies. As a director, he oversees design teams in developing new expressway interchanges, bridge designs, and bridge preservation projects. He also possesses significant knowledge in alternative delivery contracting methods, such as design-build (DB) and Construction Manager General Contractor (CM/GC). Furthermore, Mike is accountable for maintaining the quality control of design activities at CHA. Represenative project experience includes:

Connecticut Department of Transportation, Major Bridge On-Call. CHA is under contract with the CTDOT to provide design services for major bridges throughout the state. The work generally consists of preservation design including deck evaluation, deck restoration and patching, steel repairs and strengthening, load rating, and substructure rehabilitation. CHA is currently designing six major bridges. Mike provides technical oversight for the work, tapping into his 40 years of experience with the rehabilitation and preservation of bridges. He also provides QA/QC for the designs. **Project Dates:** 2018-Present

Connecticut Department of Transportation Interchange Improvements, Exit 29 of Ramp, Interstate 91 (NB), and Routes 5/15 (NB). Principal-in-charge for modifications to I-91 Interchange 29 to improve safety and traffic flow along I-91 Northbound. The interchange connects I-91 Northbound with U.S. Route 5 and CT Route 15 via the Charter Oak Bridge. Guided development of structural design plans, load ratings, specifications, and cost estimates. Widening plan required significant modifications to seven existing corridor bridges, including the first five-spans of the Charter Oak Bridge with curved, splayed girders. **Project Dates:** 2015 - 2023

Atlantic Street Bridge Replacement Study, Stamford, CT. Project manager for a task study for replacement options for four bridges carrying the Metro North Railroad (MNRR) Commuter Railroad over city streets. The goal of the study was to reduce construction time from five years to under two years. Mike led and facilitated a workshop that included all stakeholders to brainstorm ideas to achieve the project goals. The results of the study were used for the project's final design that included the use of ABC (Self-Propelled Modular Transporters). Mike was also retained during the final design to provide technical expertise for the design of the Atlantic Street bridge. The project was a complete success and has received awards for innovation.

Walk and Saga Bridges Replacement Study, Norwalk, CT. Project manager for a task study for replacement options for two movable bridges in Norwal. The bridges carry the commuter MNRR over two rivers. The goal was to investigate buildable construction options and ABC. Mike led and facilitated a workshop that included all stakeholders to brainstorm ideas to achieve the project goals. The recommendations of the study were to use ABC when possible and to use the Construction Manager General Contractor method of construction. Mike was also retained during the final design to provide technical expertise for the design.

Education

University of Connecticut, M.S. in Structural Engineering (1986)

University of Connecticut, B.S. in Civil Engineering (1983)

Registrations

Professional Engineer:
- FL No. 69439 (6/8/2022)

Memberships and Affiliations

American Society of Civil Engineers

Precast/Prestressed Concrete Institute
- Northeast Technical Committee for Bridges.

Transportation Research Board
- Steel Bridge Committee, Concrete Bridge Committee (Incoming Chair), Construction Committee

Michael Culmo, PE

QA/QC Manager

Devon Bridge Replacement, Stratford/Milford, CT. Principal-in-charge for the design development of the MMRR Bridge over the Housatonic River. CHA is a subconsultant on the design team charged with studying a fixed span elevated bridge option and constructability analysis for all options.

Owner's Representative for CTDOT's First Design-Build Project, Replacement of Four Bridges on Route 8 in Bridgeport, CT. Project manager of the development of the Base Technical Concept (BTC) using ABC methods, the generation of procurement documents including the base contract, and assistance with program development, including creating process manuals, quality management specifications, and construction.

Connecticut Department of Transportation List 20-21, Replacement of Bridge No. 03469, Interstate 395 NB over Tracy Road, Killingly, CT. Principal-in-charge for conversion of a three-span, prestressed concrete girder bridge to a single-span structure and replacing the substructure. The new bridge is constructed of weathering steel girders and a reinforced concrete deck. Use of the GRS-IBS, which includes GRS approaches, enabled the elimination of expansion joints at the ends of the deck.

Rhode Island Department of Transportation, Providence, RI, Routes 6/10 Interchange Reconstruction. Project manager for this $250 million complex interchange replacement, including constructing nine bridges (seven over Amtrak). Mike managed the team through the development of the base technical concept (BTC) plans, and the generation of procurement documents, including the base contract, provided extensive assistance with procurement, and is currently working with RIDOT to provide engineering support and construction management assistance. **Project Dates:** 2017 - Present

Preliminary Design and Owner's Representative, Medford, MA, 93Fast14 Bridge Replacement Project (DB and ABC Project). Principal-in-charge for this $100 million project that involved the replacement of superstructures using ABC techniques. Work included development of the BTC, assistance with procurement and significant construction management assistance, and review of Quality Management Plan submissions and quality control submissions.

Massachusetts Department of Transportation, Raynham/Taunton, MA, SR 24 over the Taunton River Superstructure Replacement. Principal-in-charge where CHA was lead designer for replacement of the superstructure and widening on this limited-access highway. Our team developed an innovative design that widened the bridge pier without widening the foundations, which resulted in less work in the river and reduced overall project costs. A precast pier cap was designed to accomplish this. The precast pier cap was designed to be placed above the existing pier base. It was cantilevered out to support the widened superstructure. Prefabricated beam units and precast soldier pile wall stems on deep foundations were also used to reduce construction time.

Eithel M. Sierra, PE

QA/QC Manager - Roadway

Eithel has over 30 years of experience designing and managing highway and infrastructure facilities. He dedicated his first three years to providing Microstation, GEOPAK, CAICE, and plans preparation technical support to Florida, Illinois, and the Mississippi departments of transportation. He is highly experienced and works in urban and rural new construction, total reconstruction and resurfacing, restoration, and rehabilitation projects, including roadway, signing and pavement markings, signalization, lighting, and ITS components. Eithel is experienced in water and sewer main design, right-of-way plans, intersection layouts, specifications, technical special provisions, utility coordination, and permits. He is certified by FDOT to design traffic control plans. He has designed and managed several water and sewer projects for the Miami-Dade Water and Sewer Department, Florida Key Aqueduct Authority, the City of Miami Beach, and other municipalities. Representative project experience includes:

Florida Department of Transportation - District 4, Resurfacing of SR 70/ Okeechobee Road (Ideal Holding Road to South Rock Road), FPID No. 447653-1-52-01. Senior project manager and quality control manager responsible for designing and developing roadway plans for the 8-mile-high speed rural facility. Project included the implementation of two RCUT Intersections and acceleration lanes. Project also included new sidewalk, utility coordination, public involvement, and coordination with stakeholders. **Reference:** Jeffrey Robbert, PE, (954) 777-4648, Jeffrey.Robbert@dot.state.fl.us. **Dates:** 09/2022 – Ongoing. **Construction Cost:** $23 million. **Professional Services:** $1.5 million.

Florida Department of Transportation - District 4, Resurfacing of SR 5/ Federal Highway (6th Avenue North to Arlington Road), FPID No. 447660-1-52-01. Quality control manager responsible for designing and developing roadway construction plans. Project included implementation of traffic calming measures such as new RRFB crosswalk, raised intersection, and speed feedback signs. Lanes were also repurposed to provide provisions for bike lanes. Project also included sidewalk ADA improvements, utility coordination, public involvement, and coordination with stakeholders. **Reference:** Lance Jones, PE, (954) 777-4680, Lance.Jones1@dot.state.fl.us. **Dates:** 10/2022 – Ongoing. **Construction Cost:** $2.1 million. **Professional Services:** $700,000.

Florida Department of Transportation - District 4, Resurfacing of SR 5/ U.S.-1/Federal Highway (Bailey Street to Eve Street), FPID No. 447658-1-52-01. Quality control manager responsible for designing and developing roadway construction plans. The project included the implementation of green-colored bike lanes at conflict points, signalization improvements, and lighting improvements. The project also included sidewalk ADA improvements, utility coordination, public involvement, and coordination with stakeholders. **Reference:** Ron Wallace, PE, (954) 646-1197, Ronald.Wallace@dot.state.fl.us **Dates:** 10/2022 – Ongoing. **Construction Cost:** $3.4 million. **Professional Services:** $480,000.

Education
Florida International University, FL, B.S. in Civil Engineering (1995)

Registration
Professional Engineer: FL No. 55401 (02/11/2000)

Qualifications and Certifications
Advanced MOT Certification

FDOT Specification Certification

CHA Project Manager Certification

Memberships and Affiliations
Member of the American Society of Civil Engineers

Eithel M. Sierra, PE

QA/QC Manager

Florida Department of Transportation - District 4, Prospect Road (SR 870/ Commercial Boulevard to SR 811/North Dixie Highway), FPID No. 435925-1-52-01. Senior project manager responsible for this off-system Broward County MPO Mobility project to add bicycle lanes using minor widening and lane elimination or "road diets." Improvements included milling and resurfacing to include bicycle lanes, drainage improvements, sidewalk improvements as necessary to comply with ADA, upgraded signing and pavement markings, retrofitted lighting at the signalized intersection of Powerline Road, relocated trees, and modified traffic and pedestrian signals within the limits of the project. The project required approval from Broward County for a lane elimination from six-lanes to four-lanes, and we provided coordination with Broward County, the City of Oakland Park, Broward MPO, and stakeholders. **Reference:** Claudia Vinitskiy-Calvo, PE, (954)777-4476, Claudia.Vinitskiy-Calvo@dot.state.fl.us. **Dates:** 11/2016 - 06/2021. **Construction Cost:** $4,626,689. **Professional Services:** $1.1 million.

Florida Department of Transportation - District 4, SR A1A (South of Jasmine Lane to North of SR 60/Beachland Boulevard), Vero Beach, FL, FPID No. 443996-1-52-01. Senior project manager for the resurfacing, restoration, and rehabilitation (RRR) initiative, the primary goal was to extend the roadway's lifespan and enhance safety and functionality through milling and resurfacing the asphalt. This project aimed to improve the roadway by incorporating a 7-foot bicycle lane; installing new drainage systems and sidewalks on the east side for northbound traffic; adding ADA-compliant curb ramps; modernizing pedestrian signals, detectors, and signage; and retrofitting street lighting to LED at key intersections. Upgrades to signage and pavement markings, alongside tree disposition plans, were also integral. Furthermore, the project entailed constructing a new southbound right-turn lane and extending existing right-turn lanes at strategic intersections, thereby enhancing the roadway's operational efficiency and safety. **Reference:** Humberto Arrieta, PE, (954) 777-4152, Humberto.Arrieta@dot.state.fl.us. **Dates:** 10/2019 - 02/2022, currently under post-design. **Construction Cost:** $4.61 million. **Professional Services:** $1.2 million.

Florida Department of Transportation - District 4, SR 817/University Drive (Riviera Boulevard to SR 824/Pembroke Road), Pembroke Pines, FL, FPID No. 432066-8-52-01. Project manager for this Broward County Metropolitan Planning Organization (MPO) mobility project along SR 817/University Drive. The primary purpose of this project was to provide pedestrian, bicycle, traffic, transit, operational, and safety improvements along the project limits. The improvements included accommodating bicycle lanes by milling, resurfacing, and widening the existing roadway; drainage, curb and gutters; widening sidewalks; ADA curb ramps; adding bus shelters at current bus stop locations; constructing a new pedestrian overpass bridge near the intersection of Miramar Boulevard, over the South Broward Drainage District Canal 1; upgrading signing and pavement markings, upgrading pedestrian countdown signals at all signalized intersections; replacing light poles impacted by the proposed widening; and improving lighting uniformity levels on the sidewalk, including pedestrian lighting retrofit at all signalized intersections. The project required extensive coordination with MPO, the City of Miramar, stakeholders, and adjacent projects. **Reference:** Leslie Wetherell, PE, (954) 777-4438. **Dates:** 09/2019 - 01/2022.

Jim Aitken, PE

Structures Lead

Jim is the Southeast Bridge Project Team Leader for CHA and is responsible for leading the Transportation group and ensuring our clients receive service excellence, of which quality is a major component. He has 30 years of experience successfully managing, designing and delivering bridge and structural engineering projects as part of highway, transit and railroad projects throughout GA and the southeast. Jim's experience includes large, multi-disciplined design projects; bridge design task orders; design review task orders; and on-call construction support services. He has experience managing multi-discipline project staff, large and complex project budgets, and developing innovative and cost-effective solutions as a project manager. Representative project experience includes:

GDOT Multiple PIs, 2020 Bridge Bundles, Contract 11. Jim is the project manager for a bridge replacement bundle comprising six projects located in GDOT District 7. These projects encompass turnkey services from concept development through final design. The specific projects include PI 0016580, Hopewell Road over Chicken Creek; PI 0016581, Birmingham Road over Chicken Creek Tributary; PI 0016582, Freemanville Road over Cooper Sandy Creek; PI 0016599, Waters Road over Long Indian Creek; PI 0016605, Bethsaida Road over Morning Creek; and PI 0016606, Upper Riverdale Road over Flint River. Accelerated Bridge Construction (ABC) is being utilized for the bridges in projects PI 0016580 and PI 0016581. Jim's responsibilities as project manager include resource planning, budget development, client and stakeholder coordination, inter-discipline coordination, and subconsultant coordination for each bridge replacement project. All of these projects require NEPA certification with a CE or PCE. Extensive utility and ROW coordination is required to deliver these projects successfully. Jim is the leader and manager of this coordination and has successfully navigated the challenges associated with these activities, in addition to the aggressive project schedules for each project. He is coordinating directly with the cities of Milton, Alpharetta, South Fulton, and Clayton County on these off-system projects that will be returned to those jurisdictions when the construction is completed

GDOT, PI 007060, SR 18 @ CS 44/NSRR, Wilkinson County, GA. Project manager and structures task manager to replace the structurally deficient bridge carrying SR 18/Gray Highway over the NSRR tracks and reconstruct the roadway approaches on each end of the bridge. In addition to the bridge replacement, the intersection of SR 243/Milledgeville Road and SR 18 was planned to be reconfigured for safety reasons. This project was a full-service "turnkey" project, and the scope included survey, NEPA, concept development, and preliminary and final design services. This project was managed out of GDOT District 2, and Jim coordinated with the GDOT PM through various meetings, phone calls, and visits to the site. He managed all subconsultants, budgeting, and invoicing on the project and ensured that QA/QC processes were followed. He served as the main point of contact for all project correspondence and communicated regularly with the GDOT PM to verify project expectations were being met. The concept was developed for the project before it was canceled in 2008 due to funding issues.

Education

University of Massachusetts at Amherst, MA, B.S. in Civil Engineering (1994)

Registrations

Professional Engineer:

- FL No. 0064817 (7/13/2006)

Professional Structural Engineer, GA No. SE000980 (2/15/2021)

Memberships and Affiliations

American Railway Engineering & Maintenance-of-Way Association

National Council of Examiners for Engineering & Surveying

Jim Aitken, PE

Structures Lead

GDOT PI 0001758, I-285 Top-End Express Lanes, Atlanta, GA. Deputy project manager (DPM) and structures lead for the General Engineering Consultant (GEC) team for GDOT's Major Mobility Investment Program (MMIP). The project will improve the level of service, increase mobility on I-285, and the associated connection with the construction of two tolled, managed lanes (express lanes) in each direction along the 22 mile-long northern segment of I-285. As DPM, Jim is responsible for the leadership of the CHA roadway, right-of-way and bridge designers for CHA's assigned design segments on this 22-mile Elevated Express Lanes project. Jim manages the resource availability, project schedules, budgeting, invoicing, and management coordination with Jacobs Engineering. He is also a part of the GEC leadership team. He uses his knowledge and understanding of the PDP to provide technical and policy guidance to the GEC team, mainly related to structural design and quality assurance.

GDOT PI 0007217, Social Circle Bypass, Newton/Walton Counties, GA. Structural task manager for the design of two bridges over the Little River Tributary. Each bridge is a 3-span, AASHTO Type III PSC beam bridge, supported on cast-in-place concrete bents with spill-through pile-supported abutments. Bridge 1 is 184 feet long (66'-66'-52'), and Bridge 2 is 197 feet long (57'-87'-57'). Jim led the bridge teams on this project and provided technical oversight and QA/QC for the design and plan production. He also coordinates closely with all other design disciplines, including roadway, hydraulics, and geotechnical.

GDOT, PI 110400, I-985 Reconstruction and Widening Project, Hall County, GA. Senior structural engineer for the design of three bridges along this corridor of I-985 in Georgia. The project replaced two bridges carrying I-985 over SR53 and SR13 over I-985. It also constructed a new slip ramp bridge for Ramp D, crossing Ramp E, as part of this interchange reconstruction in Hall County. Bridge types consisted of concrete deck on precast concrete beams. These bridges required designing the bridges using a staged construction scheme to maintain traffic on both the Interstate and the State Highway system. Jim's responsibilities included checking of the structural design and plans for all three bridges. He led structural design and was responsible for developing the structural design of the bridges and walls for the project. He provided oversight of the structural team direction of structural tasks, QA/QC and oversight of the production of contract plans and documents. He also was the structural lead for the construction support phase, responding to RFIs and shop drawing reviews.

GDOT PI 121385, Bridge Replacement SR 11/US 19 Over Ivy Log Creek, Union County, GA. Senior structural engineer and EOR for the bridge design to replace the bridge on this project. The new bridge is a 2-span, 155-foot long, 43-foot wide bridge and consists of a CIP concrete deck on AASHTO PSC beams, supported by the concrete bent substructure and spill-through abutments. The bridge was designed to account for seismic loads as required in this part of Georgia. Bridge foundation construction required the use of cofferdams and sealed concrete to construct the piers in the creek. The new roadway alignment was shifted to a new location and required constructing a 900-foot long tie-back retaining wall to minimize traffic disruption. Jim was the EOR for both the wall and the bridge. He completed the final designs and oversaw the production of the plans for delivery through FFPR and procurement. Jim led the quality assurance and control process for the finished design.

Nicolas Fernandez

Structures

Nicolas has over 37 years of experience designing complex transportation, building, and bridge projects involving rehabilitation, replacement, and new construction. He serves as a structural designer and has supported the design of bridges, buildings, and miscellaneous structures during his tenure with the Structural Department. He is experienced with Microstation, GEOPAK, STAAD, SAP 2000, Mathcad and LEAP Bridge Enterprise software for bridge design. His design experience, knowledge of the AASHTO Code, and extensive knowledge of constructability have allowed him to develop a resume of successful projects. Representative project experience includes:

Miami Dade County - Water and Sewer Department, FL, Pump Station 300 Upgrades. Project engineer responsible for the structural detailing of all components, including foundation plan, ground floor plan, roof plan, sections, and miscellaneous details for the pump station's new electrical room and refurbishment of the existing building. Nicolas performed the structural design of masonry walls, concrete beams, and roof joists and developed plan details and calculations for wet well and valve vault components. Project Reference: Juan Curiel, PE (305) 665-7477 | Beg. Date-End Date: 03/2021 - Ongoing.

Miami-Dade County Aviation Department, FL, Rehabilitation of Bridge 874635 at Miami International Airport. Project engineer responsible for plan detailing of repairs to multiple components, including concrete cracks, bridge expansion joints, class 5 surface Finish details, and steel support brackets exhibiting various degrees of corrosion. Nicolas conducted field reviews to identify member deficiencies in the superstructure and substructure to develop quantity takeoffs. Project Reference: Abel Oporto, PE (305) 869-3876 | Beg. Date-End Date: 06/2021-On-going.

City of Miami Beach, FL, A&E Services for Seawall Replacement. Structural intern in charge of the plans development and structural design of the proposed sea walls. The purpose of the sea wall is to increase the top of the wall elevation to mitigate the effects of sea level rise. This project consists of replacing three existing seawalls with a new post and panel seawall system along Collins Avenue on the Intracoastal side of Miami Beach.

Florida Department of Transportation - District 4, Henry E. Kinney Tunnel Rehabilitation Design Services*. Structures engineering intern for the design of the Henry E. Kinney Tunnel rehabilitation along SR 5/U.S. 1 crossing under Las Olas Boulevard and the New River in Downtown Fort Lauderdale. The project involved inspecting the tunnel per the Federal Highway Administration's National Tunnel Inspection Standards (NTIS) and implementing structural, mechanical, and safety upgrades. CHA replaced tunnel lighting, introduced intelligent transportation systems between Broward Blvd and I-595, and integrated them with the Department's SunGuide software. Additionally, a tunnel roof extension was designed northward, establishing a landscaped plaza in partnership with the City of Fort Lauderdale. The initiative also included enhancements in roadway, drainage, signage, and community engagement.

Education

Instituto Superior Politecnico "Jose Antonio Echevarria" (CUJAE), Havana, Cuba., B.S. in Structural Engineering (1987)

Qualifications

Software: AutoCAD, SAP 2000, Mecawind, Enercalc, Safe

**Prior to joining CHA*

Pablo Arteaga, EI

Structures

Pablo is a fulltime junior engineer with two year of experience as a structural engineer. While familiarizing himself with FDOT standards, design guidelines and design programs his experience focused on the design ancillary structures and prestressed concrete bridges. Since starting at CHA he has enhanced his skills in the design tools and software used for the analysis of structural components. Representative project experience includes:

Florida Department of Transportation - District 4, SR 817/University Drive (Riviera Boulevard to SR 824/Pembroke Road), Miami Gardens, FL, FPID No. 432066-8-52-01. Assistant roject engineer for the pedestrian bridge south of Miramar Boulevard over South Broward Drainage District Canal 1 with a contract amount of $1.5 million in the City of Miramar, Broward County, Florida. The project was part of a larger contract and included a 59-foot single-span prefabricated steel truss bridge over South Broward Drainage District Canal 1. The project provided access over the existing canal to residential communities east and west of University Drive via access ramps supported on the embankment. Given the tight right-of-way, elevator towers were not part of this project. Roadway widening is required along University Drive as part of the improvements. **Reference:** Leslie Wetherell, PE, (954) 777-4438. **Dates:** 09/2019 - Ongoing.

Florida Department of Transportation - District 4, SR 7/U.S. 441 at Lake Worth Road, Lake Worth, FL, FPID No. 445882-1-52-01. Assistant project structural project engineer for a resurfacing, restoration and rehabilitation (RRR) project along SR 7 from South of Lake Worth Road to Lake Worth Drive signalize intersection in Lake Worth, Florida. This project aims to mill and resurface within the project's limits and accommodate future projections of increased volumes of traffic traveling northbound right attempting to access Florida's Turnpike interchange. The design provides a dedicated right-turn lane by widening and converting the existing outside lane to a through lane to alleviate congestion on SR 7/U.S. 441 on the northbound approach. **Reference:** Ronald P. Wallace, PE; (954) 646-1197; Ronald.Wallace@dot.state.fl.us. **Dates:** 08/2022 - Ongoing.

Metromover comprehensive Wayside System Overhaul Project, Miami-Dade County DTPW, Miami-Dade County, FL. Assistant project engineer. The project consists of overhauling the entire control/communication system and partially the electrical and mechanical system for the Miami Metromover without interrupting its operation/revenue time. The new control/communication system CITYFLO 650 will be implemented, requiring the full update of the Operational Central Control for the system and the installation of new communication cabinets and antennas in all twenty-one of the passenger stations that conform to the system. In addition, all control equipment at the track level has been updated, structural cantilever platforms have been designed and installed to house antenna poles along the tracks, and all guideway switching equipment has been replaced.

Florida Department of Transportation - District 6, Traffic Operations Push Button Miscellaneous Structures. Assistant project engineer to improve pedestrian and traffic safety at multiple intersections by adding and modifying signals and signs to existing mast arm structures. Pablo conducts field inspections, analysis of the mast arms with the proposed sign and signal modifications, and designs report determining the structural adequacy. **Reference:** Natalie Rodriguez, PE (954) 200-8240. **Dates:** 05/2022-Ongoing.

Education

Florida International University, FL, B.S. in Civil Engineering (2023)

Florida International University, FL, A.A. in Art (2020)

Registration

Engineering Intern: FL No. 1100027910 (07/15/2024)

Levi Boyle, PE

Constructability Review/CEI Lead

Levi has over 13 years of experience as a CEI contractor and designer on major civil engineering projects. Levi worked at FDOT District 6 South Miami-Dade and Monroe Residency Operation Center for over three years. He recently served at FDOT District 1 as the project administrator and senior project engineer on the U.S. 27 milling, resurfacing and cross scope correction project from the Hendry County Line to old U.S. 27 and served FDOT District 6 as a project administrator for the milling and resurfacing, overbuild, signal upgrades, and signing and pavement markings along SR 916 from I-95 to SR 5/ Biscayne Blvd. Prior to this assignment he served as a SPE/ PA on a variety of different projects in both the urban and rural areas of Miami-Dade County as well as Monroe County. Levi is a graduate of the FDOT Construction Academy. Representative project experience includes:

Florida Department of Transportation - District 4, Bridge Painting of Bridges No. 860598, 860600, 860601, 860628 and 860638 at SR 9/I-95 and Park N Ride/Broward Boulevard and Bridge No. 860131 at SR 9/I-95 (SR 870 Commercial Boulevard WB on Ramp to SR 9/I-95). Broward County, FL. Contract No. E4V48. CEI senior project engineer responsible for the resident engineer duties on this contract. Levi also coordinates with the project administrator, contractor and the department for the administrative duties of containment construction, abrasive blasting activities, and coatings for steel and concrete structures. Levi reviews and coordinates lane and ramp closures at I-95 with the 95/I-595 Express Lanes – Phase 3C and Phase 3A-1 project teams. **Reference:** William Grey, PE, (954) 540-0062. **Dates:** 01/2023 - Ongoing.

Florida Department of Transportation - District 1, U.S. 27 (Hendry County Line to Old U.S. 27), Hendry County, FL. Project administrator for this roadway improvements project along U.S. 27 in Glades County from the Hendry County Line to Old U.S. 27. This project consists of milling up to 4.75-inch and resurfacing 4.2 miles of a 4 lane highway, with overbuild for cross slope corrections, high polymer structural asphalt, and high polymer FC-5. The project also includes widening for an auxiliary turn lane at Old U.S. 27, guardrail improvements, shoulder treatment, and signing and pavement markings. Levi is responsible for reviewing plans and plan revisions for constructability and providing comments, contract administration, monthly CPM schedule reviews, project coordination with stakeholders, and developing engineering solutions to field issues that arise. **Reference:** Stacy Hill (863) 471-4852. **Dates:** 09/2022 – 04/2023.

Miami-Dade County - Water and Sewer Department, FL, and Florida Department of Transportation - District 6, SR 916 Roadway & Bridge Improvement (I-95 to Biscayne Boulevard). Project administrator for roadway improvements and 36-inch watermain installation along SR 916 and involved milling and resurfacing along SR 916 from I-95 to SR 5/Biscayne Boulevard. The project also included but was not limited to Type SP overbuild of varying thickness, bridge rehabilitation, construction of new bus stops, curb ramps, medians, concrete

Education
Florida International University, FL, B.S. Civil Engineering, Cum Laude Graduated (2017)

Registrations
Professional Engineer: FL No. 91258 (04/20/2021)

TIN No. B40052193

Qualifications and Certifications
CTQP Certifications:
- Final Estimates Level I & II
- QC Manager

FDOT Advanced Maintenance of Traffic

**Prior to joining CHA*

islands, concrete pad and sidewalks, signalization including pedestrian signal heads and loop detectors, signing and pavement markings, lighting and drainage upgrades, maintenance of traffic, along with other relevant tasks required for the successful completion of the project. **Reference:** Marcel Osorio, (305) 812-6082. **Dates:** 11/2020 – 09/2022.

Levi Boyle, PE

Constructability Review/CEI Lead

Florida Department of Transportation - District 6, South Miami-Dade & Monroe Residency, FL, Resurfacing Project on US1 (Riviera Drive to SW 27 Avenue), Miami-Dade County, FL. Contract No. T6465. Project administrator and contract support specialist responsible for this RRR project on U.S. 1. The scope of work on this 6-lane divided principal arterial included milling and resurfacing 5,800 tons of asphalt at variable depths, installation of French drain and new drainage structures, signal improvements at six intersections, including retrofitting existing intersections with video detection, and lighting improvements throughout the project corridor. Levi's primary duties included reviewing plans and plan revisions, resolving field issues, performing maintenance of traffic and safety reviews, overseeing day-to-day activities, processing monthly estimates, reviewing RFI's and shop drawings, tracking all materials incorporated in the project in MAC, reviewing and approving the contractor's quality control plan, issuing weather letters, maintaining the CPPR, running progress meetings, monitoring UWS activities, and preparation of final estimates package. He also worked extensively with the community outreach specialist in coordination with the Miami-Dade County Commissioners Office, The City of Coral Gables Mayor and the City of Miami. **Reference:** George Hoffman, PE, George.Hoffman@dot.state.fl.us (305) 962-4928. **Dates:** 04/2020 - 11/2020.

Florida Department of Transportation - District 6, Resurfacing of SW 72nd Street (SW 87th Court to SW 84th Place), Miami, FL. Contract No. T6428. Project administrator/contract support specialist for this intersection improvement project, Levi reviewed all contract plans and maintenance of traffic, coordinated several utility relocations due to unforeseen conflicts, and led the milling and resurfacing, signal, lighting, widening and drainage inspections. Levi prepared all progress estimates and the final estimates package. **Reference:** FDOT Project Manager Jonathan Fundora, PE (305) 962-3653, Jonathan.Fundora@dot.state.fl.us . **Dates:** 01/2018 – 09/2018.

Florida Department of Transportation - District 6, Districtwide Traffic Operations Push Button. Contract No. E6K33. Project administrator for this districtwide push button contract used to address a broad scope of work throughout Miami-Dade and Monroe County. Levi successfully managed 12 task work orders on this project ranging from $4,000 to $150,000. Levi was responsible for reviewing the plans and providing comments to the EOR and the Traffic Ops office and coordinated closely with the community outreach specialist and the public. **Reference:** FDOT Project Manager Jonathan Fundora, PE, (305) 962-3653, Jonathan.Fundora@dot.state.fl.us. **Dates:** 07/2017 – 07/2019.

Alexander Milz, PE

Construction Engineer Inspection (CEI)

Alexander has over twelve years of significant experience in major civil engineering projects, primarily for FDOT Districts 6 and 4. His background includes extensive knowledge in bridge construction, heavy earthwork, asphalt and concrete pavement inspection, and landscaping. He is also excellently qualified in utility coordination, inspection, and coordination of signalization and lighting improvements with Miami Dade County and FDOT. Representative project experience includes:

Miami-Dade County Department of Transportation and Public Works, FL, SR 836 Express Bus Service and Park-and-Ride Bus Terminal Tamiami Station. Inspector for providing construction engineering and inspection services (CEI) for the construction of the SR 836 Express Bus Service Tamiami Station Park and Ride/ Bus Terminal with Tamiami Station roadway improvements along SW 8th Street and SW 147th Avenue. The site development included clearing and grubbing over 8 acres of trees and vegetation on vacant land, sub-soil excavation and soil improvement of approximately 36,000 cubic yards of native muck material, and over 64,000 cubic yards of new embankment. It also included new structures such as a new driver's lounge, pedestrian walkway canopy, bicycle cage, bus canopy special structures, and a 30-inch gateway sign and monument sign. **Reference:** James Sumoski, PE (305) 310-4276, James.Sumoski@miamidade.gov. **Dates:** 02/2020 – 09/2021.

Miami-Dade County Department of Transportation and Public Works, FL, Park-and-Ride Lot at SW 112th Avenue and SW 204th Street Busway. Inspector to rehabilitate the existing park-and-ride lot at SW 112 Avenue and SW 204 Street Busway to accommodate approximately 450 parking spaces. The work includes furnishing all supervision, labor, materials, equipment, tools, services, and incidentals necessary for milling, resurfacing of the park and ride, minor widening of the pavement, construction of new sidewalks, upgrades to existing pedestrian rams and crosswalks, replacement of damaged curbs, signing and pavement markings associated with the new configuration of the lot, parking bumpers lighting upgrades, installation of passenger shelters and sodding in compliance with the latest Florida Department of Transportation standards. Additionally, the scope includes furnishing and installing five Level 2 electric vehicle charging stations, one single port and four dual-port charging stations incorporating lighting conductors, a load center, pull and splice boxes, prestressed concrete poles, post signs, bollards, and detectable warnings installation. **Reference:** Hossin Habibnejad, PE, (305) 375-3951. **Dates:** 11/2022 - Ongoing.

Florida Department of Transportation - District 6, I-395/SR 836/I-95 Design-Build. Project administrator for the I-395/SR-836/I-95 project, which is a partnership between the FDOT and the Miami-Dade Expressway Authority (MDX), with construction limits on SR 836 beginning at NW 17 Avenue and continuing through the SR-836/I-395/I-95 (Midtown) Interchange to the MacArthur Causeway Bridge. The project reconstructs the existing I-395 facility and creates a signature bridge that will span 1,025 feet over NE 2 Avenue and SR5/Biscayne Boulevard, redefining the Miami skyline with its six sweeping arches. The project creates additional capacity on I-395 with three through lanes in each direction and provides separate connector ramps for traffic to and from I-95. Alexander oversees the SR 836 Viaduct Bridge construction and the I-95 concrete pavement replacement. **Reference:** Jacqueline D. Sequeira, PE (305) 640-7432. **Dates:** 06/2019 - Ongoing.

Cecilia Villoria, PE

Roadway/Signing & Pavement Markings Lead

Over 32 years of design and project management experience. Fully conversed in all aspects of project management, scheduling, engineering design, including pavement marking, signage, signalization, drainage, maintenance of traffic (MOT), and specifications packages; preparation of project design reports; development of master plans; construction inspection services; feasibility studies, Safety Studies, bid preparation and management of construction engineering inspection (CEI) staff. Oversee engineering design projects for municipalities, the Florida Department of Transportation (FDOT), Broward County Aviation Department, and Florida's Turnpike Enterprise (FTE). Project experience ranges from minor roadway improvement projects to complex highway design. Representative project experience includes:

Florida Department of Transportation- District 4, SR 5/US 1 from SR 870/ Commercial Boulevard to SE 7th Street, FDOT D4, Fort Lauderdale, FL; FPID 446188-1*. Project manager responsible for the project management, coordination with Design Team, and preparation of construction documents. This project includes roadway design, signing and pavement marking, and signalization for a 2.5-mile resurfacing design project on US 1/SR 5, from Commercial Boulevard/SR 870 to SE 7th Street. Additional services provided include miscellaneous structures, minor bridge design, signing and pavement marking, lighting, survey, geotechnical, and landscape services. In addition, ADA upgrades, lighting retrofits at signalized intersections, and roadway signage will be improved throughout the corridor. **Reference:** Helen James, PE. **Dates:** 2021 - 2024.

Florida Department of Transportation- District 4, SR 824 Pembroke Road from E of SW 62nd Ave to SW 31st Ave, FL.* Project manager for this RRR project which included milling and resurfacing of SR 824 Pembroke Road from E of SW 62nd Ave to SW 31st Ave (FPID 448400-1), signing and pavement marking, signalization, lighting, survey, geotechnical, and landscape services. In addition, ADA upgrades and lighting retrofits at signalized intersections will be improved throughout the corridor. **Reference:** Thuc Le, PE (954) 777-4552 **Dates:** 1/2022 – 10/2024

Florida Department of Transportation- District 4, Washington Street & 72nd Avenue Mobility Improvements, FL.* Deputy project manager responsible for the project management, coordination with Design Team, and preparation of construction documents. This project included the addition of bicycle lanes and pedestrian improvements to Washington Street and 72 Avenue (FPID 431770-1). Provided full services to the Client including roadway, drainage, signing, and pavement marking, ADA compliance, landscape design, survey, subsurface utility engineering, utility coordination, geotechnical engineering, and public involvement. This is a Broward County Metropolitan Planning Organization (MPO) funded project while FDOT District 4 is the client and project facilitator. The team's experience coordinating with multiple agencies and stakeholders were key factors in the successful completion of this community project. **Reference:** Henry Oaikhena, PE (954) 777-4445 **Dates:** 12/2020 – 12/2022.

Education
Florida International University, FL, B.S. in Civil Engineering (1993)

University of South Florida, FL, B.S. in Biology (1989)

Registration
Professional Engineer: FL No. 62866 (05/31/2005)

Qualifications and Certifications
FDOT Advanced Maintenance of Traffic Specifications Package

Memberships and Affiliations
FELI Class of 2024
ASHE South Florida Secretary
FES Member
WTS Member

**Prior to joining CHA*

Cecilia Villoria, PE

Roadway/Signing & Pavement Markings Lead

Florida Department of Transportation- District 4, I-95/SR 91 and Palmetto Park Road Interchange, Boca Raton, FL; FPID 433109-7*. TTCP EOR responsible for the development of TTCP plans for the I-95/SR 9 and Palmetto Park Road interchange is located within the City of Boca Raton in Palm Beach County. The interchange serves as a major gateway into the city, providing high-visibility roadside landscape opportunities. The interchange contains four main quadrants with landscape opportunities along embankments and within the in-fields on both sides of the interstate. Selective clearing and grubbing of invasive species to showcase large stands of existing, mature live oaks, strangler figs, and sabal palms have been preserved and integrated into the landscape design to demonstrate the aesthetic and environmental benefits of preserving existing vegetation. The preserved vegetation has been supplemented with a combination of drought tolerant palms and Florida native species to create a cohesive design that blends into the surrounding landscape while accenting the high visibility areas of the gateway. **Reference:** Vanita Saini, PE. **Dates:** 2019 - 2022.

Florida Department of Transportation- District 4, SR 811/Dixie Highway from SR 834/Sample Road to SR 810/Hillsboro Boulevard, Deerfield Beach, FL; FPID 448174-1-32-01*. Deputy project manager responsible for the project management, coordination with Design Team, and preparation of construction documents for this RRR project on SR 811/Dixie Highway from SR 834/Sample Road to SR 810/Hillsboro Boulevard. The corridor is an urban minor arterial with C3C, suburban commercial context classification. The project improvements include midblock crossings, survey, geotechnical, milling and resurfacing, ADA upgrades, new sidewalk on the east side of the corridor, signing and pavement marking, signalization upgrades, lighting, and landscape architecture services. Worked closely with the City of Deerfield Beach and FEC to design a sidewalk on the east side of the corridor to promote safety and connectivity for transit systems. **Reference:** Leslie, Wetherell, PE. **Dates:** 2022 - 2024.

Florida Department of Transportation- District 4, SR-9/I-95 at SR-848/ Stirling Road Interim Improvements, Broward County; FPID 439170-2-52-01*. Project Manager/Roadway EOR for SR-9/I-95 at SR-848/Stirling Road Interchange Interim Improvements. This project includes capacity improvements at the I-95 / SR-9 SB off-ramp from the intersection of SR-848 to approximately 1,120 feet (0.212 miles) (#86070023) north of such intersection along the ramp. In addition, this project also includes capacity improvements for the I-95 / SR-9 NB on-ramp from the intersection with SR-848 to approximately 400 (0.076 miles) (# 86070025) feet north of the intersection running along the ramp. I-95 / SR-9 ramps within the project limits are one lane ramps that provide access to the mainline I-95 /SR-9 which in turn is an Interstate-Freeway with Limited Access. **Reference:** Anson Sonnett, PE.

Ena Gonzalez, PE

Roadway/Signing & Pavement Markings

Ena is a professional engineer with 20 years of experience in Transportation Engineering. She has a solid background in the design/management phase services related to transportation projects with experience in highway/roadway design, horizontal/vertical alignment, storm water management, drainage, maintenance of traffic, signing and pavement markings, signalization, construction estimates, preparing Design Exceptions/Variations, Specs, and Pavement Design Selection Reports. Representative project experience includes:

Florida Department of Transportation - District 4, SR 5/US 1 from SR 870/ Commercial Boulevard to SE 7th Street, Fort Lauderdale, FL. FPID: 446188-1*. Chief project engineer in charge of roadway design. This project includes roadway design, signing and pavement marking, and signalization for a 2.5-mile resurfacing design project on US 1/SR 5 from Commercial Boulevard/SR 870 to SE 7th Street. This C4 urban general mix includes miscellaneous structures, minor bridge design, signing and pavement marking, lighting, survey, geotechnical, and landscape services. In addition, ADA upgrades, lighting retrofits at signalized intersections, and roadway signage will be improved throughout the corridor. This project included completing a 3R and target speed analysis reports, which the department approved. The design and target speed are 45 mph, with a posted speed of 45 mph.

Florida Department of Transportation - District 4, SR 811/Dixie Highway from SR 834/Sample Road to SR 810/Hillsboro Boulevard, Deerfield Beach, FL*. Chief project engineer in charge of roadway design. This FDOT District 4 project is on SR 811/Dixie Highway from SR 834/Sample Road to SR 810/Hillsboro Boulevard (FPID 448174-1-32-01). The corridor is an urban minor arterial with C3C, suburban commercial context classification. The project improvements include midblock crossings, survey, geotechnical, milling and resurfacing, ADA upgrades, new sidewalk on the east side of the corridor, signing and pavement marking, signalization upgrades, lighting, and landscape architecture services. This project includes working closely with the City of Deerfield Beach and FEC to design a sidewalk on the east side of the corridor to promote safety and connectivity for transit systems.

City of Plantation, Cypress Road from 74th Ave to East Acre Road, City of Plantation, FL*. Project manager for this project, which included signalization upgrades at Cypress Road and NW 70th Ave intersection, milling, and resurfacing of NW 70th Ave from Cypress Road to West Broward Blvd, ADA/curb ramp, and lighting upgrades at this intersection. Additionally, the project involved designing a roundabout at the intersection of Cypress Road and NW 69th Ave to eliminate the 4-way stop condition, ADA/curb ramp, and lighting upgrades at this intersection, milling, and resurfacing of NW 69th Avenue from Cypress Road to West Broward Boulevard. We conducted a midblock traffic assessment study along 69th Avenue, between Cypress Road and Broward Boulevard. Drainage improvements were made to address flooding along Cypress Road, from east of Holloway Canal to East Acre Road, including milling and resurfacing the road. Furthermore, we added a sidewalk along the north side of Cypress Road from west of the Holloway Canal Bridge to Figg Road. Finally, the project included corridor-wide signing and pavement markings, which featured sharrows (shared lane markings).

Education
Florida International University, FL, B.S., Civil Engineering (2004)

Registration
Professional Engineer: FL No. 72358 (01/29/2011)

Qualifications and Certifications
Florida Advanced Work Zone Traffic Control

**Prior to joining CHA*

Victor Venezia, PE

Roadway/Signing & Pavement Markings

Victor has over six years of roadway, drainage, signing and pavement marking, and signalization design through computer-aided design & drafting (CADD). Victor has worked on several FDOT and municipal projects throughout southern Florida. The projects include urban and rural new construction/reconstruction and widening of roadways, resurfacing, restoration, and rehabilitation (RRR) projects, bicycle and pedestrian mobility ADA compliance projects, and civil site projects. Victor is familiar with the composition of roadways, signing and pavement marking, and signalization component plan sets utilizing OpenRoads Designer; formulating alternative engineering solutions based on FDOT design manual and FDOT standard plans. Representative project experience includes:

Florida Department of Transportation - District 4, SR 607/Emerson Avenue (North of SR 614/Indrio Road to South of 25th Street), St. Lucie County, FL, FPID No. 447651-1-52-01. Civil engineer for a resurfacing, restoration, and rehabilitation (RRR) project along SR 607/Emerson Avenue in St. Lucie County. The project's scope includes milling and resurfacing the travel lanes and turn lanes throughout the entire length of the project, widening the existing shoulders to 7 feet, and constructing missing sidewalks (8 feet to 12 feet), curb ramps, and detectable warnings northbound from Hibiscus Road to North Boulevard. Adjacent areas are to be regraded and sodded—incidental drainage improvements due to shoulder widening and sidewalk construction. The design provided a safe and effective temporary traffic control certification (TTCP) to move vehicular and pedestrian traffic during all construction phases. **Dates:** 07/2022 - Ongoing.

Florida Department of Transportation - District 4, Northlake Boulevard (Old Dixie Highway to 10th Street). Palm Beach County, FL, FPID 454440-1-52-01. Project Engineer. The main purpose of this project was to provide signal improvements of train pre-emption measures at the FEC railroad crossing #272386A with Northlake Blvd including timing modifications, addition of sensors, and installation of a hybrid pre-signal/queue cutter system. The project scope also includes ADA upgrades, milling and resurfacing, sidewalk reconstruction, and signing and pavement marking. Responsibilities included roadway and signing and pavement marking design, preparing pavement design, QA/QC, and production of construction and supporting design documents. **Dates:** 07/2024 – Ongoing.

City of Miami, FL West Grapeland Traffic Calming Devices. Project Engineer. Provided design services for the City of Miami DRPW to install a raised intersection at NW 39th Court and NW 9th Street, as well as speed cushions between NW 9th Street and NW 7th Street at NW 41st Avenue, NW 40th Avenue, and NW 39th Court. The project scope included milling and resurfacing, reconstruction, signing and pavement markings improvements, and drainage enhancements. Responsibilities included roadway, grading, and signing and pavement marking design, production of construction documents, cost estimates, field visits, and client coordination. **Dates:** 09/2024 – Ongoing.

Education
Florida International University, FL, B.S. Civil Engineering (2019)

Registration
Professional Engineer: FL No. 97089 (09/05/2023)

Certifications and Qualifications
Advanced MOT Certification

Software: MicroStation, GeoPak, OpenRoads, GuideSIGN, AutoTURN, AutoCAD Civil 3D, MS Office Applications

Knowledge of FDOT Design Manual, Design Standards, Florida Greenbook, and AASHTO Manual

Bilingual in English and Spanish

**Prior to joining CHA*

Kevin Hernandez

Roadway/Signing & Pavement Markings

Education
Florida International University, FL, B.S. in Civil Engineering (2021)

Kevin has four years of experience in roadway, drainage, signing and pavement marking, lighting, and signalization design through computer-aided design and drafting (CADD). Kevin has worked on several Florida Department of Transportation (FDOT) and municipal projects providing a variety of tasks, including assisting the design engineer in the composition of the roadway, signing and pavement marking, lighting and signalization component plan sets utilizing OpenRoads Designer; formulating alternative engineering solutions based on FDOT Design Manual and FDOT Standard Plans; and preparing detailed design variation memorandums. Kevin is proficient in various specialized software for design, including Bentley platforms, OpenRoads Designer, Microstation (GEOPAK), and AutoCAD. Representative project experience includes:

Florida Department of Transportation - District 4, SR 794/Yamato Road (East of SR 9/I-95 to SR 5/U.S.-1/Federal Highway), FPID No. 447657-1-52-01. Civil engineer for this RRR project, whose goal was to preserve and extend the service life of the roadway by milling and resurfacing the existing flexible asphalt pavement. Improvements included upgrading non-compliant ADA curb ramps, a safe and effective TTCP, utility coordination to produce utility adjustment sheets, and developing a sidewalk deficiency report. Kevin was responsible for the roadway design and preparing the target speed memo. **Dates:** 01/20/2022 - Ongoing.

Florida Department of Transportation - District 4, SR 811/Dixie Highway (Sample Road to Hillsboro Boulevard), FPID No. 448174-1-52-01. Civil engineer responsible for upgrading S&P markings to the latest standards, addressing pedestrian refuge midblock crossings for transit stops, implementing dynamic envelopes at railroad crossings, and installing high-emphasis markings at signalized intersections. Kevin was responsible for addressing the above in preparing the signing and pavement marking plans per FDOT Standards. He also conducted field visits to check for vertical clearance of overhead signs and took sign inventory. **Dates:** 01/05/2022 - Ongoing.

Florida Department of Transportation - District 4, Riverland Road (SW 27th Avenue (U.S.-441/SR 7 to Broward Boulevard/SR 842). Civil engineer assisting the engineer-of-record for the design variation of the lateral offset for this project. Tasks included creating a tree disposition chart, creating plan sheets depicting substandard tree locations, reviewing the latest five-year crash history report, and implementing comments to the design variation memorandum. A portion of the transportation Investment Generating Economic Recovery (TIGER) grant was awarded to the Broward Metropolitan Planning Organization with federal oversight for five corridors, including this project.

Florida Department of Transportation - District 4, SR 7/U.S.-441 NW 16th Street, NW 19th Street & NW 26th Street, FPID No. 429576-7-52-01. Civil engineer for this off-state highway system that runs east-west through the City of

Angela Baron-Ruiz, PE, ENV SP

Drainage, Permitting/Compliance & Sustainability Lead

Angela has over 17 years of experience in civil engineering and project/program management. She is experienced in analyzing and designing grading and drainage systems for residential, municipal, and commercial projects, as well as stormwater management systems for major right-of-way and highway improvements using FDOT, county, and municipal standards. She is proficient in the hydraulic modeling of stormwater management systems using HEC-RAS, ICPR, HY-8, ASAD, and BMPTrains, and is skilled in the application of ArcGIS for watershed analysis and the design of drainage systems. Angela is also experienced in procuring permits and permit close-outs from municipalities, local counties, FDOT, SFWMD, and state and federal agencies. She is also a Certified Envision Sustainability Professional (ENV SP) from the Institute of Sustainable Infrastructure. Representative project experience includes:

City of Fort Lauderdale, FL, Las Olas Boulevard, 20-inch Water Main and 16-inch HDPE Force Main. Project engineer for this design-build project to design, acquire permits, and provide construction inspection of a water main and force main crossing the Intracoastal Waterway (ICW) in the area East of Las Olas Boulevard. Improvements included 1,220 linear feet of 20-inch nominal diameter water main crossing of the ICW using high-density polyethylene pipe installed via HDD, 1,220 linear feet of 16-inch nominal diameter force main crossing of the ICW utilizing high-density polyethylene pipe installed via HDD, cut and capping of the existing 16-inch water main on the north side of Las Olas Boulevard Bridge at both sides of the ICW, and connecting all proposed piping to the existing piping on-shore utilizing a 16-inch PVC pressure pipe meeting AWWA C905 standard. **Reference:** Jorge Holguin, (954) 828-5675. **Dates:** 2016 - 07/2017.

Florida Department of Transportation - District 4, Tiger Complete Streets Initiative Design-Build Project. Drainage engineer for this off-system and on-system Broward County MPO mobility contract to add bicycle lanes using minor widening and lane elimination or "road diets." CHA was responsible for the design of Dr. Martin Luther King Jr. Boulevard, NW 31st Avenue, and Riverland Road. **Reference:** Thuc Le, PE, (954) 777-4552. **Dates:** 01/2020 - 05/2023. **Overall Length:** 11.41 miles.

Florida Department of Transportation - District 4, SR 817/University Drive (Riviera Boulevard to SR 824/Pembroke Road), FPID No. 432066-8-52-01. Senior drainage engineer assisting with this Broward County Metropolitan Planning Organization mobility project along SR 817/University Drive from Riviera Boulevard to SR 824/Pembroke Road. Improvements included milling and resurfacing to include bicycle lanes, drainage improvements (due to widening); providing sidewalk improvements as necessary to comply with ADA; a new pedestrian bridge; upgrading signing and pavement markings; retrofitting lighting at the signalized intersections; relocating trees; and modifying signals within the limits of the project. The project required extensive coordination with Broward County, the City

Education
Florida International University, FL, B.S. in Civil Engineering (2008)

Registrations
Professional Engineer: FL No. 76984 (01/17/2014)

Envision Sustainability Professional: No. 50592 (2022)

Memberships and Affiliations
American Society of Civil Engineers

Florida Engineering Society

FIU Dean's List

Chi Epsilon

Tau Beta Pi

Angela Baron-Ruiz, PE, ENV SP

Drainage, Permitting/Compliance & Sustainability Lead

of Oakland Park, Broward County MPO, and stakeholders. **Reference:** Alexander Estrada, PE, (954)-777-4319. **Dates:** 01/2020 - Ongoing. **Project Length:** 1.4 miles.

Florida Department of Transportation - District 4, Prospect Road (SR 870/ Commercial Boulevard to SR 811/North Dixie Highway), FPID No. 435925-1-52-01. Senior drainage engineer assisting with this off-system Broward County MPO mobility project to add bicycle lanes using minor widening and lane elimination or "road diets." Improvements included milling and resurfacing to include bicycle lanes, drainage improvements (due to widening); providing sidewalk improvements as necessary to comply with ADA; upgrading signing and pavement markings; retrofitting lighting at the signalized intersection of Powerline Road; relocating trees; and modifying signals within the limits of the project. This project requires approval from Broward County for lane elimination from six-lane to four-lane from Powerline Road to South Dixie Highway. The project required extensive coordination with Broward County, the City of Oakland Park, Broward MPO, and stakeholders. **Reference:** James Hughes, PE, (954) 777-4419. **Dates:** 07/2018 - 08/2019.

Florida Department of Transportation - District 4, SR 7/U.S. 441 NW 16th Street, NW 19th Street and NW 26th Street (NW 49th Avenue to SR 7), FPID No. 449576-7-52-01. Project drainage engineer assisting with this Broward County Metropolitan Planning Organization (MPO) mobility priority project consisting of improvements on NW 16th Street, NW 19th Street and NW 26th Street (NW 49th Avenue to SR 7.) The proposed project includes the construction of a 5-foot sidewalk, ADA improvements, 5-foot to 6-foot bike lanes, swale regrading and drainage improvements. Angela is responsible for designing the three corridors' stormwater management systems and the permits' procurement. **Reference:** Robert Lopes, PE, (954) 777-4425. **Dates:** 03/2022 - Ongoing. **Project Length:** 0.76 miles.

Florida Department of Transportation - District 4, SR 834/Sample Road at Military Trail. Senior drainage engineer for the Strategic Intermodal System (SIS) intersection improvement project to improve capacity. The improvements included roadway widening to accommodate a southbound right turn lane along Military Trail, milling and resurfacing, drainage, signing and pavement markings, and signalization. A bus bay was added in the eastbound direction along Sample Road. Since improvements were done within the City of Pompano Beach, a Highway Memorandum of Maintenance Agreement, an Off-System Agreement, and a Local Right-of-Way Certification was prepared and executed with the city. **Reference:** Robert Lopes, PE, (954) 777-4425. **Dates:** 03/2014 - 05/2015.

City of Miami Gardens, FL, NE 202nd Terrace Improvements. Project manager for the design of parking, grading and drainage improvements along NE 202nd Terrace, including restoring the existing pavement via milling and resurfacing, roadway widening to provide on-street parking, a proposed curb and gutter design, and sidewalk replacement/widening for improved pedestrian safety. The design effort also includes regrading the existing sod for improved storm runoff conveyance and a proposed drainage system that supplements the existing drainage system by providing superior roadway drainage while providing necessary water quality treatment and attenuation. **Reference:** Bernard Buxton-Tetteh, (786) 279-1270. **Dates:** 12/2021 - Ongoing.

Rocio Trimino-Gort, PE

Drainage

Rocio has over five years of experience designing stormwater management systems. Rocio is also involved in the plan review related to stormwater management systems using the applicable FDOT, Miami-Dade County, and Broward County standards. The projects she is involved with range from simple to complex systems comprising more than 50 drainage structures. Her experience also includes preparing cross-sections and profiles. She is proficient in the use of MicroStation, AutoCAD. Representative project experience includes:

Florida Department of Transportation - District 4, SR 817/University Drive (Riviera Boulevard to SR 824/Pembroke Road), Broward County, FL. Junior drainage engineer for this milling and resurfacing project. Improvements included bicycle lanes, drainage improvements (due to widening), sidewalk improvements as necessary to comply with ADA, a new pedestrian bridge crossing South Broward Drainage District Canal No. 1, signing and pavement markings, retrofitting lighting at the signalized intersections, relocating trees, and modifying signals within the limits of the project. The project required extensive coordination with Broward County, the City of Miramar, Broward MPO, and stakeholders. **Dates**: 09/2019 - 01/2022.

Florida Department of Transportation - District 4, SR 817/University Drive, Broward County, FL. Junior project engineer for this Broward County Metropolitan Planning Organization (MPO) Mobility project along SR 817/University Drive from Riviera Boulevard to SR 824/Pembroke Road. Improvements included milling and resurfacing to include bicycle lanes, drainage improvements (due to widening), providing sidewalk improvements as necessary to comply with ADA, a new pedestrian bridge crossing South Broward Drainage District (SBDD) Canal No. 1, upgrading signing and pavement markings, retrofitting lighting at the signalized intersections relocating trees and modify8ing signals within the limits of the project. The project requires extensive coordination with Broward County, the City of Miramar Broward MPO, and stakeholders. **Reference**: Alexander Estrada, PE (954)-777-4319. **Dates**: 1/2020 - 7/2021.

Florida Department of Transportation - District 4, Tiger Complete Streets Initiative Design-Build Project, Broward County, FL. Junior drainage engineer assigned to this off-system and on-system Broward County MPO mobility contract to add bicycle lanes using minor widening and lane elimination or “road diets.” CHA was responsible for the design of Dr. Martin Luther King Jr. Boulevard, NW 31st Avenue, and Riverland Road. **Reference**: Thuc Le, PE (954) 777-4552. **Dates**: 1/2020 - 2022.

City of Miami Gardens, FL, Marco Canal Culvert Headwall Replacement and Embankment Stabilization. Project engineer for improvements associated with the culvert crossing in Marco Canal at NW 20th Avenue, NW 19th Avenue, NW 18th Avenue, NW 171st Street, and NW 17th Avenue. Improvements include replacing the existing headwalls installing slope stabilization measures on the canal banks due to severe erosion, and rehabilitation 15 culverts consisting of CIPP lining installation. This project also includes sidewalk replacement and stormwater inlets and outfall pipes replacement. Rocio assisted in the overall design, including the hydraulic modeling of the canal, providing coordination with permitting agencies and permit procurement. **Reference**: Bernard Buxton-Tetteh (786) 279-1270. **Dates**: 5/2020 - Ongoing.

Education

Florida International University, FL, B.S. in Environmental Engineering (2020)

Registration

Professional Engineer: FL No. 99707 (10/08/2024)

Francisco Vasquez, MS, PE

Drainage

Francisco has over 16 years of experience in civil engineering. He is experienced in drainage design, hydraulic modeling, and stormwater management. He has been instrumental in numerous high-profile projects, conducting critical tests and analyses. His proficiency in hydraulic modeling tools like ICPR and FLO-2D has been demonstrated in projects for Miami Dade County, the South Florida Water Management District, and the City of Scottsdale. His work involved complex hydrological and hydraulic studies, flood control analysis, and the development of master plans. Francisco is strongly committed to sustainable engineering practices and continues to contribute his expertise to the industry. Representative project experience includes:

City of Haines City, FL, Lake Eva Recharge Feasibility Study. Project engineer for the study to select potential RIB sites that will recharge the Floridan Aquifer and assist in raising the water level in Lake Eva. The project is co-funded by the Southwest Florida Water Management District (SWFWMD). The project was performed in two phases, and upon completion of both phases, the study identified potential RIB sites, estimated the benefits to the water levels in Lake Eva MFL for each site, established water quality requirements for the reclaimed water, determined the required treatment and reclaimed water distribution system modifications and associated costs, and ranked and recommended candidate sites for construction of the RIB system. **Dates:** 01/2023 - Ongoing.

City of Miami, FL, Miami River Greenway to Curtis Park East (NW N River Drive from NW 24th Avenue to NW 22nd Avenue). Project engineer for this Local Agency Program (LAP) project managed by FDOT District 6. This project's primary goals include improving the existing roadway: reconstruction and realignment of NW North River Drive and installing a greenway path on the south side of NW North River Drive. The scope also includes reconstructing NW 24th Avenue, sidewalk, and greenway construction, including reconstruction of existing sidewalks and the Miami Riverwalk Path as part of the Miami River Greenway. Francisco is providing design support. **Dates:** 03/2020 - Ongoing.

Florida Department of Transportation - District 6, SR 25/Okeechobee Road Roadway Reconstruction (East of NW 116th Way to East of NW 87th Avenue). Project engineer assisting with the design and reconstruction of SR 25/ Okeechobee Road (east of NW 116th Way, including flyovers from NB/SB NW 87th Avenue to WB/EB Okeechobee Road), and constructing NW 87th Avenue, Frontage Road, NW South River Drive, NW 103rd Street and NW 106th Street. Francisco was responsible for assiting with the drainage design of the southern portion of the project, hydraulic analysis for all canals, preparing bridge hydraulic reports and stormwater management reports, and permit coordination. **Dates:** 05/2016 - Ongoing. **Reference:** Bao-Ying Wang, PE, (305) 470-5211. **Design Cost:** $9.22 million. **Construction Cost:** $103 million.

Florida Department of Transportation – District 6 and Miami-Dade Expressway Authority (MDX), I-395 Signature Bridge*. Project engineer responsible for conducting Drop Hammer tests and preparing reports for various piles at the Signature Bridge Temporary Tower and SR836. Francisco's tasks included testing piles at multiple piers and ensuring the integrity and stability of the structures. **Dates:** 01/2024 - 04/2024.

Education
Universidad of the Andes, Venezuela, M.S. Hydraulic Resources Planning (2019)

Universidad of the Zulia, Venezuela, B.S. Civil Engineering (2007)

Registration
Professional Engineer: FL No. 100657 (02/20/2025)

**Prior to joining CHA*

Arnelio Alfonso, PE

Water Resources Lead

Education
IPSJAE, Havana, Cuba, B.S. in Civil Engineering (1985)

University of Madrid, Spain, Hydrology Coursework (1988)

Registration
Professional Engineer: FL No. 52566 (02/17/1998)

Arnelio has over 38 years of experience designing sanitary sewer collection and water distribution systems. He has led CHA teams designing major water and sewer systems for the Miami-Dade Water and Sewer Department (M-D WASD) and several other municipalities, including water main distribution systems, gravity sewer systems, reclaimed water mains, as well as pump stations and force mains. Arnelio has been involved in every aspect of the design of M-D WASD facilities and has an intimate knowledge of the entire process, including design, permitting, and construction. Among his most relevant projects include the horizontal directional drilling (HDD) installation of a 54-inch OD HDPE force main in Fort Lauderdale, HDD installation of 42-inch HDPE force main along N. Miami Avenue, and HDD installation of 36-inch HDPE water main along NW 135th Street. Representative project experience includes:

City of Fort Lauderdale, FL, Las Olas Boulevard 20-inch Watermain and 16-inch Force Main. Project manager responsible for providing design-build services for the design, permitting, and construction inspection of a water main and force main crossing the Intracoastal Waterway (ICW) in the East Las Olas Boulevard area. The project included designing, permitting, construction, startup, and testing of:

- 1,220 linear feet of 20-inch nominal diameter water main crossing of the ICW using high-density polyethylene pipe installed via HDD
- 1,220 linear feet of 16-inch nominal diameter force main crossing of the ICW utilizing high-density polyethylene pipe installed via HDD
- Cut and cap the existing 16-inch water main on the north side of Las Olas Boulevard Bridge at both sides of the ICW
- Connect all proposed piping to the existing piping on-shore using a 16-inch PVC pressure pipe meeting AWWA C905 standard

Reference: Jorge Holguin, (954) 828-8000

City of Fort Lauderdale, FL, New Redundant 54-inch Bypass Line Design-Build. Project manager for the rehabilitation and replacement of approximately 15,200 feet of 54-inch HDPE force main. The project included 9,700 feet of pipe installation using the innovative horizontal directional drill (HDD) technology to cross underneath essential city streets and rivers. The project also provided interconnections to existing pump stations and force mains currently connected to the existing and aging pipe. **Contractor**: D. Mancini and Sons

Florida Department of Transportation - District 4, Broward MPO-Mobility Project-Phase I RFP Development. Drainage project engineer for a pilot design-build "Broward Mobility" along 48 off-system roadway segments north and south of SR 842/Broward Boulevard within the following municipalities in Broward County: Town of Davie, and the cities of Fort Lauderdale, Plantation, Lauderhill, Tamarac, Oakland Park, Lauderdale Lakes, Hollywood, Deerfield Beach, Pembroke Pines, and

Pompano Beach. The project included constructing concrete sidewalks, ADA curb ramps, milling and resurfacing, minor widening to accommodate bicycle lanes, incidental drainage, and tree removal. This project required extensive coordination with each municipality and Broward County Public Works Department to sign off on all design documentation, including conceptual plans, typical sections, pavement design packages, local government right-of-way certifications, and a Highway Maintenance Memorandum of Agreement. A term sheet for each roadway segment was developed, indicating lane closure, work hours, and noise restrictions provided by each municipality. CHA coordinated extensively with the Broward MPO and FDOT to fine-tune the scope. Several updates to the long-range estimates were performed to establish the construction budget for each roadway segment and the overall project. **Reference:** Jeffrey Robbert, PE (954) 777-4346. **Dates:** 2013 - 2014.

Florida Department of Transportation - District 4, Design-Build Tiger Grant. Drainage project engineer for this Tiger-Grant-funded project that incorporated bicycle lanes/shared-use paths in Broward County, FL. These corridors are on and off the state highway system. As the Bonneville Metropolitan Planning Organization (BMPO) and municipalities were the principal entities in charge of obtaining the Tiger Grant funding, the project required intense coordination with these parties. CHA used multiple tactics in implementing bicycle lanes, including lane diets, lane width reductions, and minor widening. We also addressed drainage adjustments when the design required roadway widening. The curb ramp designs were reviewed to confirm ADA requirements. The project also included incorporating LFAs for landscaping, hardscaping, and decorative lighting. **Reference:** Thuc Le, PE (954) 777-4552. **Dates:** 2020 - 2022

Miami-Dade County Water and Sewer Department, FL, Basis of Design Report For Replacement/Rehabilitation of Turnberry Island Water Distribution System. Project engineer for the study and design to replace an aging and corroded water distribution system that included approximately 6,675 feet of water main with diameters ranging from 4 to 16 inches. The design report highlighted existing conditions of the system determined after several field visits and a study of all possible solutions from complete open-cut R&R of the pipeline using compression fit lining to verify minimal disturbance to above-ground activities. Due to corrosive soils, CHA determined that it would be beneficial to consider different pipeline materials, such as PVC and HDPE. The design of the entire water distribution system on the island, including replacing all existing water meters, fire hydrants, and backflow preventers, was completed. **Reference:** Eduardo Luis (786) 552-8837

Miami-Dade Water and Sewer Department, FL, Proposed 54-Inch Water Transmission Main along NW 57th Avenue. Project manager responsible for installing 8,900 linear feet of a proposed 54-inch water main along SR 823/NW 57th Avenue, from W 53rd Street to W 84th Street. The project included installing a sub-aqueous crossing, installing 54-in Butterfly valves at the locations indicated in the plans, installing access manholes per WASD Standards on each side of the proposed Butterfly valves, installing blow-off assemblies per WASD Standards upstream of the Butterfly valves, and installing stub-out for future connections as required by WASD. **Reference:** Carlos Benavides (786) 268-5285

Arnelio Alfonso, PE

Water Resources Lead

Julian Gomez, PE

Water Resources

Education
Oral Roberts University, OK, B.S. in Mechanical Engineering (2017)

Registration and Certifications
Professional Engineer: FL No. 95992 (03/10/2023)

Julian has over nine years of experience designing and modeling pipeline and pump stations, from sanitary sewer collection to water distribution systems. Julian has been designing major water and sewer systems for several municipalities, including international ones. These systems include large-diameter water and force mains, gravity sewers, and pump stations. He has experience modeling and analyzing hydraulic transients and steady-state conditions in pipeline and pump stations, as well as the capacity to produce 3D models and renderings of these systems. He has also prepared specifications and an Engineer's Opinion of Probable Cost for large and small-diameter pipeline and pump station projects. He is proficient in using AutoCAD, Solidworks, and Onshape for drafting and modeling, in addition to Microsoft Office programs such as Word, Excel, and PowerPoint for preparing professional reports and presentations. Representative project experience includes:

City of Fort Lauderdale, FL, Design-Build for The Installation of New Redundant 54-Inch Bypass Line. Project manager responsible for the replacement/ rehabilitation of approximately 15,200 linear feet of 54-inch HDPE force main. The project included approximately 9,700 linear feet of pipe installation using the innovative horizontal directional drill technology to cross underneath essential city streets and rivers. The project also provided interconnections to existing pump stations and force mains currently connected to the existing and aging pipe.

City of Miami Gardens, FL, Marco Canal Culvert Headwall Replacement and Embankment Stabilization. Project engineer for replacing 10 culvert headwalls in Marco Canal located in the City of Miami Gardens. The project also encompassed the embankment stabilization of more than 1,400 linear feet of ground material and the desilting of 874 linear feet of pipe. **Reference:** Bernard Buxton-Tetteh 786-279-1270. **Dates:** 05/2020 - Ongoing.

Miami Dade Water and Sewer Department (MD WASD), 48-Inch Diameter Water Transmission Main for "Area N". Project engineer for approximately 31,670 linear feet (6 miles) of 48-inch PCCP water main along SW 117 Avenue (SW 152 Street to Snapper Creek Drive, including two canal crossings (C-100) and Snapper Creek Canal). The project also included installing approximately 6,660 linear feet of 16-inch ductile iron force main along SW 117 Avenue (SW 108 Street to SW 88 Street).

Miami Dade Water and Sewer Department, FL, NW 7th Ave. Wastewater Collection System Expansion (Sub-Basins D2-D2 and D2-D3). Project engineer for the design of approximately 16,600 linear feet of 8-inch PVC gravity sewer and 6,050 linear feet of 8-inch ductile iron pipe force main across two sub-basins, complete with a total of 73 manholes, and all necessary valves and accessories for connections to future pump stations. The team developed detailed maintenance of traffic plans for construction in conjunction with specifications for the completion of the gravity sewer system. **Reference:** David Marquez (786) 552-8826

Alejandro Leon, PE, MSEM

Maintenance of Traffic (MOT) Lead

Alejandro has 18 years of experience designing highway facilities for several agencies, including FDOT, GMX, the City of Doral, City of Miami, Miami-Dade County, and Broward MPO. The projects include major interchange reconstruction, lighting-only projects, roadway reconstruction, RRR projects, bicycle/pedestrian mobility ADA compliance projects, and civil site projects. He also specializes in the maintenance of traffic (MOT) plans, having completed the Advanced Maintenance of Traffic course approved by FDOT and having several years of experience in MOT design, including significant interchange reconstructions. He has experience in projects with the conventional design-bid-build procurement process and design-build procurement process. Representative project experience includes:

Florida Department of Transportation - District 4, Broward County MPO Mobility Project, Phase 1: RFP Development. Deputy Project Manager and Senior Project Engineer for this "Broward Mobility" pilot design-build project across 48 off-system roadway segments in Broward County, covering areas around SR 842/ Broward Boulevard within municipalities such as the Town of Davie, Fort Lauderdale, Plantation, Lauderhill, Tamarac, Oakland Park, Lauderdale Lakes, Hollywood, Deerfield Beach, Pembroke Pines, and Pompano Beach. His work focused on enhancing pedestrian and cyclist transportation options, linking communities to existing transit along Broward Boulevard. He managed the construction of sidewalks, multi-use paths, bicycle facilities, ADA curb ramps, and undertook milling, resurfacing, and minor widening for bike lanes, while addressing incidental drainage and tree removal issues. Alejandro's role required extensive coordination with Broward County Public Works, Broward MPO, and FDOT, ensuring compliance with all design documentation, developing right-of-way certifications, and maintaining strict adherence to municipal noise and work hour restrictions. His involvement extended from the RFP development to overseeing plan reviews, permit compliance, and construction coordination, significantly contributing to the project's success in promoting transit use in Broward County by improving connectivity and accessibility.
Reference: Sabrina Aubery, PE, (954) 777-4324, Sabrina.Aubery@dot.state.fl.us.
Dates: 01/2012 - 01/2014.

Florida Department of Transportation - District 4, SR 804/Boynton Beach Boulevard (SR 7/U.S. 441 to Lyons Road), Boynton Beach, FL, FPID No. 447665-1-52-01. Project manager for this resurfacing, restoration, and rehabilitation (RRR) project along SR 804/Boynton Beach Boulevard in Palm Beach County. The project's objectives included narrowing the travel lanes to 11 feet to allow for the expansion of bicycle lanes to 6 feet, constructing new sidewalks, upgrading guardrail connections to the existing bridge over the LWDD E-1 Canal, enhancing signing and pavement markings, and making signalization improvements.
Dates: 09/2022 - Ongoing.

Florida Department of Transportation - District 4, SR 7/U.S. 441 at Lake Worth Road, Lake Worth, FL, FPID No. 445882-1-52-01. Engineer of record for a resurfacing, restoration and rehabilitation (RRR) project along SR 7 from South of

Education

Florida International University, FL, M.S. in Engineering Management (2012)

University of Florida, FL, B.S. in Civil Engineering (2007)

Registration

Professional Engineer: FL No. 74675 (06/08/2012)

Certifications and Qualifications

Advanced MOT Certification

FDOT Specs Preparation Certification

Software: MicroStation, GeoPak, OpenRoads, GuideSIGN, AutoTURN, AutoCAD Civil 3D, MS Office Applications

Knowledge of FDOT Design Manual, Design Standards, Florida Greenbook, and AASHTO Manual

**Prior to joining CHA*

Alejandro Leon, PE, MSEM

MOT Lead

Lake Worth Road to Lake Worth Drive signalize intersection in Lake Worth, Florida. This project aims to mill and resurface within the project's limits and accommodate future projections of increased volumes of traffic traveling northbound right attempting to access Florida's Turnpike interchange. The design provides a dedicated right-turn lane by widening and converting the existing outside lane to a through lane to alleviate congestion on SR 7/U.S. 441 on the northbound approach. **Reference:** Ronald P. Wallace, PE - District 4 In-house project manager; (954) 646-1197; Ronald.Wallace@dot.state.fl.us. **Dates:** 08/2022 - Ongoing.

Florida Department of Transportation - District 4, SR 7/U.S. 441 Transit Corridor Mobility Improvements Group (NW 16th St, NW 19th St, and NW 26th St.), Lauderdale Lakes, FL, FPID No. 429576-7-52-01. Project manager for this Broward County Metropolitan Planning Organization (MPO) mobility priority project. The project aims to improve pedestrian, bicycle, and road safety by adding bike lanes through minor road widening and "road diets." It includes resurfacing, ADA ramp upgrades, and sidewalk improvements. Design variations are documented to avoid utility and drainage conflicts. A 3D model was created for cross sections. The project adds or repurposes bike lanes on specific streets and uses "Share the Road" markings and green bike lanes per Broward County standards. A phased traffic control plan (TTCP) minimizes disruptions during construction. Drainage improvements involve treating runoff, reshaping grass areas into V-shaped swales, and repositioning or adding drainage inlets in accordance to SFWMD. Flooding issues are addressed with catch basins and exfiltration trenches. **Reference:** Robert Lopes, PE; (954)-777-4425; Robert.lopes@dot.state.fl.us. **Dates:** 11/2021 - Ongoing.

Florida Department of Transportation - District 4, SR 607/Emerson Avenue (North of SR 614/Indrio Road to South of 25th Street SW), St. Lucie County, FL, FPID No. 447651-1-52-01. Senior project engineer for this resurfacing, restoration, and rehabilitation (RRR) project along SR 607/Emerson Avenue in St. Lucie County. The project's scope includes milling and resurfacing the travel lanes and turn lanes throughout the entire length of the project, widening the existing shoulders to 7 feet, and constructing missing sidewalks (8 feet to 12 feet), curb ramps, and detectable warnings northbound from Hibiscus Road to North Boulevard. Adjacent areas are to be regraded and sodded—incidental drainage improvements due to shoulder widening and sidewalk construction. The design provided a safe and effective temporary traffic control certification (TTCP) to move vehicular and pedestrian traffic during all construction phases. **Dates:** 07/2022 - Ongoing.

Florida Department of Transportation - District 4, SR 70 (Ideal Holding Road to South Rock Road), St. Lucie County, FL, FPID No. 447653-1-52-01. Senior project engineer responsible for preserving and extending the service life of the existing roadway by milling and resurfacing the existing and enhancing general highway safety. This project includes constructing two restricted crossing U-turn (RCUT) intersections at Shinn Road and S. Header Cana, adding acceleration lanes at RCUT locations, upgrading the existing guardrail, constructing a new sidewalk, drainage improvements, upgrading all singing and pavement markings and installing a new lighting system. The team also provided roadway analysis and was responsible for the RCUT design and preparation of roadway plans. **Dates:** 07/2022 - Ongoing.

Elio R. Espino, PE, PhD

Active Work Zone Management Lead

Elio has over 28 years of experience and serves as traffic and intelligent transportation systems (ITS) business practice leader. In this role, he leads a team of engineers and engineering technicians providing services in traffic operations (TOPS), traffic safety, signal retiming, signalization design, signal systems, work zone management, transportation systems management and operations (TSM&O), and traffic data collection. He has worked within FDOT District 6, serving as a district safety engineer for the last three years of his seven-year tenure with the department. He is an experienced project manager and has served in this capacity on over 12 task work order-driven contracts. His expertise includes TOPS, TSM&O, traffic safety, signal timing, signalization design, pedestrian and bicycle safety, and traffic data collection. Representative project experience includes:

Florida Department of Transportation - District 4, Design-Build Tiger-Grant, Broward County, FL. Traffic engineer responsible for this Tiger-Grant funded project, including incorporating bicycle lanes/shared use paths in Broward County, FL. These corridors are on and off the state highway system. As the BMPO and municipalities were the principal entities in charge of obtaining the Tiger Grant fund, intense coordination was required with these parties. Multiple tactics were used to implement bicycle lanes, including lane diets, lane width reductions, and minor widening. When widening was required, drainage adjustments were also addressed. ADA was also reviewed throughout the corridor to ensure curb ramps met ADA requirements. The project also included incorporating LFAs for landscaping, hardscaping, and decorative lighting. **Reference:** Thuc Le, PE (954) 777-4552. **Dates:** 7/2020 - 8/2022.

Florida Department of Transportation - District 4, Districtwide Traffic Safety Studies. Deputy project manager responsible for this task work order-driven contract. Tasks include field reviews, crash analysis, local agency coordination, developing traffic safety countermeasures, benefit-cost analysis, net present value, arterial/corridor evaluation, signal retiming, including adaptive systems assessment, and preparing technical memorandums. Elio is responsible for presenting all study findings and recommendations at the monthly Safety Review Committee (SRC) meetings. The following is a list of recent studies conducted:

- Preliminary Safety Assessment - SR 820/Pines Boulevard and SW 145th/142nd Avenue, Broward County: included evaluation of adaptive signal control at intersections and the configuration of the signal operating plan.
- Safety, Signal Retiming, Bridge Pre-emption, and Recovery Plans - SR 736/Davie Boulevard (SW 17 Avenue to west of SR 5/S. Federal Highway)
- Safety and Signal Retiming - SR 5/U.S. 1/Federal Highway (Jennings Road to SE Village Green Drive)
- Lighting Analysis - SR 805/Dixie Highway (north of Lucerne Avenue to West Palm Beach Canal), Palm Beach County

Education

Florida International University, FL, Ph.D. in Civil Engineering (2005)

Florida International University, FL, M.S. in Civil Engineering (1999)

Florida International University, FL, B.S. in Civil Engineering (1997)

Registration and Certifications

Professional Engineer:

- FL No. 58341 (03/19/2002)
- GA No. 27463 (01/31/2002)

Memberships and Affiliations

Institute of Transportation Engineers - American Planning Association

**Prior to joining CHA*

Elio R. Espino, PE, PhD

Active Work Zone Management Lead

- Lighting Analysis - SR 704/Okeechobee Boulevard (east of Military Trail to I-95), Palm Beach County
- Lighting Analysis - SR 9/I-95 (12th Avenue S to the south of 10th Avenue N), Palm Beach County
- Pedestrian Midblock Crossings Evaluation - SR 714/SE Monterey Road (Kingswood Terrace to SR A1A/SE Ocean Boulevard and SR A1A/ SE Ocean Boulevard (SE Monterey Road to Ocean East Mall)
- Road Safety Audit – SR 817/University Drive (Nova Drive to SR 84)

Reference: Thomas Miller, (954) 777-4073. **Dates:** 6/2016 - Ongoing.

Florida Department of Transportation - District 4, I-95 Express Lane Implementation (Segments 3A-2, 3B -1, and 3B-2), Miami, FL. Traffic engineer responsible for implementing express lanes from Commercial Boulevard to Linton Boulevard. The project includes roadway and bridge widening to accommodate express lanes and consists of the replacement and complete modification of the corridor signing, pavement marking, and Intelligent Traffic System (ITS) master plan. In addition, several ramp operational issues were corrected, including ramp metering. The 3B-2 project incorporates the first Diverging Diamond Interchange (DDI) to be constructed in District 4. The design incorporated wrong-way driving countermeasure implementation, including highlighting signs. Flashing beacon signs were also provided for short ramps and signal ahead signs. **Reference:** Vanita Saini, PE, (954) 777-4156, Vanita.Saini@dot.state.fl.us. **Dates:** 09/2015 - 2018. **Contract Amount:** $417,703

Florida Department of Transportation - District 4, SR Migration of Project Development and Environment (PD&E) Study – Strategic Intermodal System (SIS) and Florida Intrastate Highway System (FIHS) Facility. Senior traffic engineer responsible for PD&E Study of a 15-mile stretch of SR 710 (a FIHS/SIS facility) in Martin County from the Okeechobee/Martin County Line to CR 609. The considered additional through lanes, special treatment and/or additional lanes at major intersections, and widening of the crossroads up to 1000 feet in each direction where necessary, to provide intersection operation at an acceptable level of service. In addition, a grade-separated highway/rail crossing was evaluated. The study also included a Transit Feasibility Study for the corridor. **Reference:** Patrick Glass, PE (954) 777-4681. **Dates:** 10/2007 - 7/2011.

Florida Department of Transportation District 6, Rickenbacker Bridge Rehabilitation (Bridges 870162 (NB to I-95) & 870163 (SB to S Dixie Hwy) Active Work Zone Management and Maintenance of Traffic (MOT) Support. Project manager representing FDOT District 6. Provided support in developing signal timing plans and coordinated with the signal maintaining agency to implement them in the central system. Collaborated with the Project CEI, City of Miami Police, and Village of Key Biscayne Police to ensure efficient traffic operations. Actively monitored work zones and made real-time signal timing adjustments to alleviate congestion and improve traffic flow. Documented and analyzed outcomes through daily dashboards and traffic alerts to ensure effective traffic management. **Reference:** Saud Khan, Saud.Khan@dot.state.fl.us, (305) 470-5344. **Dates:** 04/2024 - August 08/2024.

Lissette Guon, EI, IMSA I & II

Utility Coordination

Education
Florida International University, FL, B.S. in Civil Engineering (2002)

Registration
Engineer Intern: FL No. 1100022436 (02/14/2004)

Certifications and Qualifications
Advanced MOT

IMSA Levels I & II

Lisette has over 24 years of experience working as a transportation engineer with the Florida Department of Transportation and local agencies. Lisette has worked on several projects, including RRR, roadway reconstruction, and design-build projects. She has designed and drafted roadway plans, signing and pavement marking plans, and signalization plans using the CADD system and Geopak software. She has created and reviewed pavement design packages, typical sections, and horizontal and vertical alignments. Lisette has also prepared, reviewed and updated roadway plans and other construction documents per the FDOT Plans Preparation Manual, FDOT Design Standards, and Manual of Uniform Traffic Control Devices. She has generated CADD-produced quantities using Geopak for the computation book; computed areas, volumes, and geometric data; prepared cost estimates analysis; and established projects in the construction estimating system. Representative project experience includes:

Florida Department of Transportation - District 4, SR 817/University Drive (Riviera Boulevard to SR 824/Pembroke Road), FPID No. 432066-8-52-01. Project utility coordinator for a Broward County MPO mobility project along SR 817/ University Drive. Responsibilities included improving pedestrian, bicycle, traffic, transit, operational, and safety features. The project involved milling, resurfacing, widening the roadway for bicycle lanes, drainage, curb and gutter, widening sidewalks, ADA curb ramps, adding bus shelters, constructing a pedestrian overpass bridge, upgrading signing and pavement markings, pedestrian countdown signals, replacing light poles, and improving lighting uniformity levels on sidewalks, including pedestrian lighting retrofit at signalized intersections. Extensive coordination with Broward County MPO, the City of Miramar, stakeholders, and adjacent projects was required.**Reference:** Leslie Wetherell, PE (954) 777-4438. **Dates:** 09/2019 -01/2022.

Florida Department of Transportation - District 4, SR A1A (S. of Jasmine Lane to North of SR 60/Beachland Boulevard), FPID No. 443996-1-52-01. Senior utility coordinator for a resurfacing, restoration, and rehabilitation (RRR) project aimed at preserving and extending the roadway's life. Responsibilities included milling, resurfacing, widening asphalt for a 7-foot bicycle lane, drainage, new sidewalks, ADA curb ramps, upgrading pedestrian traffic signals, detectors, and signs, retrofitting lighting to LED at SR 60/Beachland Boulevard, upgrading signing and pavement markings, and developing tree disposition plans. The project also involved constructing and extending southbound right-turn lanes at key intersections. **Reference:** Humberto Arrieta, PE, (954) 777-4152. **Dates:** 10/2019 - 02/2022.

Florida Department of Transportation - District 4, SR A1A (East of Lyons Bridge to SR 732/Jensen Beach Boulevard) Pedestrian Lighting and Sidewalk, Jensen Beach, FL. Senior utility coordinator for this $ 6.0 million project, consisting in decorative lighting retrofit along SR A1A. Lissette was responsible for coordinating utility relocation work within the project limits with utility agency owners,

identifying potential conflicts of existing facilities with proposed lighting work, utility coordination/relocation with all different agencies having jurisdiction in the project area and FDOT D4 Utility Office. She was responsible for the final utility certification completed during the constructability phase. **Reference:** May Cheng, PE, (954) 777-4408. **Dates:** 09/2016 – 02/2019.

Florida Department of Transportation - District 4, Prospect Road (SR 870/ Commercial Boulevard to SR 811/N. Dixie Highway), Broward County, FL, FPID No. 435925-1-52-01. Senior utility coordinator for the off-system Broward County MPO mobility project to add bicycle lanes using minor widening and lane elimination or "road diets." The improvements consisted of milling and resurfacing, including bicycle lanes, drainage improvements (due to widening), providing sidewalk improvements as necessary to comply with ADA, upgrading signing and pavement markings, retrofitting lighting at the signalized intersection of Powerline Road, relocating trees, and modifying signals within the limits of the project. This project required approval from Broward County for lane elimination from six-lane to four-lane from Powerline Road to S Dixie Highway. The project required extensive coordination with Broward County, the City of Oakland Park, Broward MPO, and stakeholders. **Reference:** Claudia Vinitskiy-Calvo, PE, (954) 777-4476. **Dates:** 11/2016 - 12/2019.

Florida Department of Transportation - District 4, SR 870/Commercial Boulevard from NW 70th Avenue to SRA1A/Ocean Drive & SR 816/Oakland Park Boulevard from Atrium West to SR A1A/North Ocean Drive/Broward County. Utility coordination for these two lighting retrofit projects with a combined construction cost of $ 2.5 million, consisting in installation of LED luminaries for 56 intersections along the project corridor. Responsible for coordinating with 61 utility agency owners, identifying potential conflicts of existing facilities with proposed lighting work, utility coordination/relocation with seven cities and other agencies having jurisdiction in the project area and FDOT D-4 Utility Office. Responsible for final utility certification completed during biddability phase. **Client:** FDOT D-4. **Reference:** Bing Wang, PE, (954) 777-4482, Sr. utility coordinator. **Dates:** 09/2016 – 03/2019.

Florida Department of Transportation - District 4, SR A1A/South Ocean Drive, Broward County, FL. Utility coordinator for the milling and resurfacing project, which included installing video detection at signalized intersections, upgrading pedestrian signals to countdown timers, and converting signal supports from concrete poles to mast arms. The project also encompassed signing and pavement markings, ADA improvements such as replacing damaged sidewalks and updating non-compliant curb ramps as needed, and the implementation of bicycle lanes where feasible. Additionally, the City of Hallandale Beach Public Works Department entered into a Joint Participation Agreement (JPA) with the Department to install decorative pedestrian lighting and sidewalks. **Reference:** Fausto Gomez, PE, (954) 777-4466. **Project Length:** 0.90 miles. **Project Role:** Project engineer responsible for Pavement Design Quality Assurance and Utility Coordination. **Dates:** 01/2012 – 01/2014.

Joseph Graham, JD, PE

Firm
CHA Consulting, Inc.

Years of Experience
15

Availability for this Contract
50%

Education
Stetson University, FL, J.D., Law

Stetson University, FL, M.B.A., Business Administration

University of South Florida, FL, M.S., Public Health

University of South Florida, FL, M.S., Civil and Environmental Engineering

Colorado State University, CO, B.S., Chemical Engineering

Registration and Certifications
Professional Engineer - FL

Memberships and Affiliations
Member of the Florida Bar

American Water Works Association

Water Environment Federation

Florida Engineering Society

Grants/Funding

Joe has over 15 years of extensive experience in permitting, engineering design, project management, funding, and strategic planning in various types of water, wastewater, and reclaimed water projects. He has experience in horizontal asset design and permitting, master planning development, and the development of utilities strategic plans and comprehensive utilities policies. While working in the municipal sector, Joe served as the technical representative to a multi-agency water cooperative and engaged with elected representatives, members of the regulatory community, and the general public on utility issues. He has extensive experience in various aspects of public infrastructure financing, including federal and state funding; service and impact fee determinations; public system asset valuation; and operations and capital improvement program budgeting. Representative project experience includes:

Tampa Bay Water, Tampa, FL, Brandon Booster Station (BBS). Project engineer for the design, permitting, and construction administration of the BBS. The station will have a nominal mechanical firm capacity of 20 MGD, resulting in a net gain of 5.0 MGD to 7.0 MGD delivered to the Lithia Regional POC. The project also includes other improvements to compliment the booster station, including replacing the existing well pump at Brandon Urban dispersed well No. 7 (BUD-7), the flow control valve at the Lithia Regional POC, and installing a surge relief valve at the Lithia Regional POC. The BBS consists of a new building, which will house the pumps, piping, valves, and fittings associated with the booster station. In addition, the building will include an electrical room, control room, storage, and a restroom.

City of Haines City, FL, Reclaimed GST and Pump Station. Project engineer for the design, permitting, and construction administration services for a 7.8 MGD transfer pump station with VFDs and a concrete wet well, a 3-MG prestressed concrete GST, a new 4.5 MGD reclaimed high-service pump station with VFDs, an off-site 1.1 MGD booster pump station, yard piping, electrical, I&C, and ancillary structures at the Haines City WWTF.

City of Haines City, FL, Lake Eva Recharge Feasibility Study. Project engineer for the study to select potential RIB sites that will recharge the Floridan Aquifer and assist in raising the water level in Lake Eva. The project is co-funded by the SWFWMD. The project was performed in two phases, and upon completion of both phases, the study identified potential RIB sites, estimated the benefits to the water levels in Lake Eva MFL for each site, established water quality requirements for the reclaimed water, determined the required treatment and reclaimed water distribution system modifications and associated costs, and ranked and recommended candidate sites for construction of the RIB system.

Toho Water Authority, Osceola County, FL, Wastewater Master Plan Update. Project engineer for Toho's wastewater master plan update. The master plan will facilitate the timing and cost efficiency of future infrastructure improvements required to serve the area's growth. This update will incorporate recently constructed infrastructure and use planning tools, including the updated hydraulic model, to update capital planning in a cost-efficient manner. The capital improvement plan portion will be completed for a 10-year planning horizon (2021-2030).

City of Port St. Lucie, FL, Westport WWTF Expansion. Project engineer for the design, permitting, bidding, and construction services to expand the Westport WWTF to meet the future treatment needs of the Westport service area. This scope is based on an anticipated future treatment to meet the following capacities: 10.71 MGD AADF, 12.00 MGD maximum month average day capacity and 15.85 MGD peak

Paul E. Doll, PSM

SUR Senior Surveyor I

Mr. Doll has over 30 years of experience with the Florida Department of Transportation in both the field performing surveys and, in the office, reviewing field data and maps for compliance. From 1989 to 2009, he held roles as a Survey Crew Chief and Survey Technician with the FDOT District 4 office, where he was able to gain valuable experience conducting and supervising field survey crews, as well as, performing data processing using software such as MicroStation, GEOPAK, CAiCE and FDOT CADD applications. In 2009, Mr. Doll received his Professional Survey and Mapper's license and was promoted to the roll of a surveyor where he also served as the FDOT District 4's representative on the State Surveying and Mapping Technical Advisory Committee (SAMTAC). In this role, he also supervised in-house survey crews and managed up to 20 Survey and Mapping Consultant contracts for the Department. During his last 5 years at the Department (2015-2020), his main tasks involved evaluating Leica survey equipment, developing settings and procedures for the collection process, and training the district field crews to operate the new equipment and providing technical support to them when they have issues. Mr. Doll retired after 30 years of exemplary service to the Florida Department of Transportation and continues to serve the industry with his wealth of knowledge and expertise in the private sector. At CTS Engineering, Mr. Doll serves as a Senior Surveyor and Mapper and will ensure that all survey-related deliverables will meet the State's criteria and standard of quality.

FM 449819-1 Design Survey for Full Design from SR 818 to Sawgrass Recreation Area 8.0 Miles FDOT District 4. Design Survey. The scope of work included providing the required equipment, tools, and survey crews to perform horizontal and vertical control, alignment and existing right of way lines, Mobile LiDAR targets, Drainage survey, Canal cross section, utility designates. (Contact: Jeff Smith PSM; Telephone: 954-777-4560; Start/End Date: 12/2023-Present).

FM 449818-1 Design Survey for Full Design SR-A1A from Indian River/St. Lucie Countyline to Jasmine Lane 5.5 Miles. FDOT District 4. Design Survey. The scope of work included providing the required equipment, tools, and survey crews to perform horizontal and vertical control, alignment and existing right of way lines, Mobile LiDAR targets, utility designates. (Contact: Jeff Smith PSM; Telephone: 954-777-4560; Start/End Date: 1/2024-Present).

FM 441756-1 Design Survey for street lighting SR-80 from SR 15 to CR 880 18 Miles. FDOT District 4. Design Survey. The scope of work included providing the required equipment, tools, and survey crews to perform horizontal and vertical control, alignment and existing right of way lines, fixed wing targets, cross section every 500 ft. utility designates and test holes. (Contact: Roberto Chavez; Telephone: 954-777-4543; Start/End Date: 11/2021-10/2023).

Years of Experience
35

Areas of Expertise
Surveying & Mapping, Contract Management, Leica Infinity, GPS, Data Processing, CAiCE

Education
Northmont High School, Clayton, OH, High School Diploma, 1982

Professional Registrations
Professional Surveyor & Mapper, Florida, PSM #6726, 2009
Georgia PLS #003547 2024
Kentucky PLS #4521 2022

Professional Affiliations
Florida Surveying & Mapping Society
Surveying and Mapping Society of Georgia
Kentucky Association of Professional Surveyors

FM 447665-1 Design Survey for RRR project SR-804/Boynton Beach from SR 7 to Lyons Road. FDOT District 4. Design Survey. The scope of work included to provide the required equipment, tools, and survey crews to perform horizontal and vertical control, alignment and existing right of way lines, terrestrial mobile lidar targets, topography/DTM for 1000 ft. west of the project and obscure areas, and cross sections. (Contact: Roberto Chavez; Telephone: 954-777-4543; Start/End Date: 01/2022-02/2023).

FM 447657-1 Design Survey and SUE for RRR project SR-794/Yamato Road from E of SR-9/I-95 to SR-5/US-1. FDOT District 4. Full Design Survey. The scope of work included to provide the required equipment, tools, SUE and survey crews to perform horizontal and vertical control, alignment and existing right of way lines, terrestrial mobile lidar targets, topography/DTM for obscure areas and ground shoots 5 ft. beyond right of way, cross sections, drainage survey and utility designates (Quality Level B) for 19 utility lines at 8 mast arm locations and 8 proposed light pole locations. (Contact: Roberto Chavez; Telephone: 954-777- 4543; Start/End Date: 01/2022-04/2023).

SR-7 RRR (FPID 432349-1), FDOT District 4. Survey Project Manager, FDOT District 4 Survey Department. The project included the RRR of SR-7 from just north of Clint Moore Road to Atlantic Avenue in Palm Beach County, FL (2.4 miles). The survey work was performed by FDOT survey crews under my direction. (FDOT Contact: Jeff Smith PSM; Telephone: 954-777-4560. Start/End Date: 06/2015-05/2016).

SR-A1A Washout Reconstruction (FPIDs 433688-4 & 433688-6), FDOT District 4. Survey Project Manager, FDOT District 4 Survey Department. This project permanently repaired a storm damaged section of SR A1A from Sunrise Blvd. to NE 18th Street in the City of Fort Lauderdale, FL. The survey work was performed by FDOT survey crews under my direction. (FDOT Contact: Jeff Smith PSM; Telephone: 954-777-4560. Start/End Date: 12/2013-06/2013).

SR 804 Boynton Beach Blvd, (FPID 432344-1), FDOT District 4. Survey Project Manager, FDOT District 4 Survey Department. The project included the RRR of SR-804 from West of Jog Rd to Congress Ave in Palm Beach County, FL. The survey work was performed by FDOT survey crews under my direction. (FDOT Contact: Jeff Smith PSM; Telephone: 954-777-4560. Start/End Date: 07/2016-05/2017).

I-595 3P Project (The first 3P Project in District 4), FDOT District 4. Survey Project Manager, FDOT District 4 Survey Department. From I-75 to I-95, the survey work was performed by several FDOT survey crews under my direction. This project included new lane miles, new bridges, and off-site drainage ponds. (FDOT Contact: Jeff Smith PSM; Telephone: 954-777-4560. Start/End Date: 04/2006-06/2007).

I-75 3P Project, FDOT District 4. Survey Project Manager, FDOT District 4 Survey Department. From South of Broward/Miami-Dade County line to I-595, the survey work was performed by several FDOT survey crews and consultant survey managers under my direction. This project included new lane miles and new bridges. (FDOT Contact: Jeff Smith PSM; Telephone: 954-777-4560. Start/End Date: 03/2016-06/2017).

RAJ KRISHNASAMY, P.E.

President, Principal Engineer

38 Years of Professional Experience

Education

MS in Geotechnical Engineering, University of Memphis, 1995

BS in Civil Engineering, Christian Brothers University, 1987

Diploma Electronic Engineering, Malaysian Air Force Institute, 1984

Professional Organization and Registration

Professional Engineer: Florida, 53567

Water Well Contractor, Florida, 11346

Certified OSHA Supervisor

Certified Environmental Consultant

Professional Experience

Mr. Raj Krishnasamy, P.E., President and Principal Engineer of TSFGeo, is a Florida Registered Geotechnical Engineer with more than 38 years of experience. Mr. Krishnasamy oversees the geotechnical engineering, construction materials testing, and inspection services operations. His experience consists of successfully completing over 7,500 public and private projects. He serves as Project Manager for continuing contracts with over 20 Florida public agencies. He has a history of repeatedly retaining those contracts through successful, cost-effective, and prompt execution of each task order. Mr. Krishnasamy's daily involvement with the in-house and field operations of the construction and geotechnical services departments provides him with "hands-on" experience and knowledge of current construction codes and construction practices throughout the State of Florida. Mr. Krishnasamy and his highly experienced team focus on providing the client with a consistently accurate, cost-effective quality product that is delivered on time and within budget.

Relevant Project Experience

Coconut Isle Drive, Fort Lauderdale, Florida. Mr. Krishnasamy was the Principal-in-Charge of the Geotechnical Engineering and Construction Materials Testing Services for the project which consisted of replacements to the bridge. The study was performed to obtain information on the existing subsurface conditions. The purpose of this study was to provide geotechnical input to the design team to assist in evaluation of the merits of roadway improvements. Provided a geotechnical engineering report which included evaluations and recommendations regarding driven pile axial capacity, concrete pile installation, scour, pile installation, test pile program and soil parameters for end bent design. During construction, services included concrete sampling. A TSFGeo Senior Engineer provided review of daily reports, handled project coordination and attended meetings, as necessary.

Sheridan Street (SR-822) Bridge over ICWW, Broward County, Florida; *FPID No. 441462-1-32-01.* Mr. Krishnasamy was the Principal-in-Charge of the Geotechnical Engineering Services for the project which consisted of bridge repair/ rehabilitation and mast arms along Sheridan Street Bridge. The purpose of this study was to provide geotechnical input to the design team to assist in the evaluation of the merits of the improvements. Provided a geotechnical engineering report which included evaluations and recommendations regarding foundation design and drilled shaft construction.

Widen Spur (SR91) - Golden Glades Turnpike to Broward County, Miami-Dade County, Florida; *FPID No. 423373-5-52-01.* Mr. Krishnasamy was the Principal-in-Charge of the Geotechnical Engineering Services for the project which consisted of the existing bridge being widened on the north end and the Snake Creek Canal and bridges being replaced for crossing at NW 199th Street and Miami Gardens Boulevard. The purpose of this study was to provide geotechnical input to the design team to assist in the preparation of construction plans for the bridge alterations or replacements. Provided a geotechnical engineering report which included evaluations and recommendations regarding pile selection, driven pile axial capacity, downdrag evaluation, pile group settlement evaluation, scour resistance, lateral stability and soil parameters, concrete pile installation, test pile program, construction considerations, excavations and temporary walls.

Relevant Project Experience, *continued*

Intercoastal Waterway Bridge Experience

- Flagler Memorial Bascule Bridge, Palm Beach County, Florida
- SR-80 / Southern Blvd. Bridges Replacement, Palm Beach County, Florida
- Ocean Avenue Bridge over the Intracoastal Waterway, Palm Beach County, Florida
- George Bush Boulevard Bascule Bridge, Palm Beach County, Florida
- SR-A1A North Bridge over ICWW (Bridge Replacement #940045), Port St. Lucie, Florida
- Rehabilitation of West Bridge and Bear Cut Bridge on Rickenbacker Causeway, Miami-Dade County, Florida

Waterway Bridge Experience

- Jog Road Bridge over C-51 Canal, Palm Beach County, Florida
- Hatton Highway Bridge Over PDD Main Canal 2, Palm Beach County, Florida
- Village Royale Bridge over C-51 Canal, Royal Palm Beach, Florida
- Atlantic Avenue Roadway Improvements and Bridge Replacement over LWDD E-2E Canal, Palm Beach County, Florida
- Caroline Avenue Crossing over LWDD. L-3 Canal Bridge Replacement, Palm Beach County, Florida
- Belvedere Road Over E-3 Canal (Bridge Replacement / Roadway Improvements), Palm Beach County, Florida
- Prairie Road over LWDD L-8 Canal Bridge Replacement, West Palm Beach, Florida
- Lake Osborne Drive Over Lake Bass Canal Bridge Replacement, Lake Worth, Florida
- Congress Avenue Over LWDD L-24 Canal, Palm Beach, Florida
- Seminole Blvd and Osceola Drive L-2 Canal Bridge Replacement, Palm Beach County, Florida
- Davis Road over LWDD L-6 Canal Bridge Replacement, Palm Beach County, Florida
- Pedestrian Bridge over Marvin Adams Waterway, Monroe County, Florida
- Scour Countermeasure for Oakland Park Blvd over C-13 Canal (Bridge No. 860139), Broward County, Florida
- SR-710 Big John Monahan Bridge Replacement from SW Trail Drive to East of the SR 76 Connector Ramps, Martin County, Florida
- SFRC Bascule Bridge over the South Fork of the New River Broward County, Florida
- SR-714/Martin Downs Blvd. over Danforth Creek Bridge Repairs, Martin County, Florida
- Dixie Highway (CR-811) Flyover from South of Hillsboro Boulevard (SR 810) to North of the Hillsboro Canal (Design-Build Project), Broward and Palm Beach Counties, Florida
- New Bridge on NW 87th Avenue over Miami Canal, Miami-Dade County, Florida
- SW 77th Avenue Bridge over C-100A Canal -- Bridge No. 874422, Miami-Dade County, Florida
- Replacement of Old Dixie Highway Bridge over Taylor Creek and the East Coast Greenway Trail, St. Lucie County, Florida
- SFWMD C-38A Bridge, Kissimmee, Florida
- 58th Avenue Bridge over North Relief Canal, Vero Beach, Florida
- CR-880 Bridge over C-51 Canal, Palm Beach County, Florida
- NE 10th Avenue Bridge, Miami-Dade County, Florida
- Congress Avenue North of Okeechobee Boulevard, Palm Beach County, Florida

LARS Engineering, Inc

Adrian Leon, PE, CBI, CTI
Confirming Engineer / Team Leader (50% Available)

Professional Experience Summary
Adrian E. Leon has over 16 years of experience on structural design and structural inspection projects in South Florida. Mr. Leon has been involved in numerous inspection contracts including Bridges, Traffic Signal Mast Arms, High Mast Light Poles and Overhead Signs. He has served as Project Manager, Deputy Manager and Lead Inspector in major inspection contracts with the FDOT Districts 1, 4, 5, 6, 7, GMX and Miami-Dade Aviation Department. Since 2019, Adrian has served as an extension of FDOT D 6 staff in the Bridge and Structures Maintenance Unit.

Professional Experience | 2010 to Present:

Inspection & Reporting Services | Greater Miami Expressway (GMX)
Role: Confirming Engineer and Lead Inspector performing bridge and ancillary structure inspections and reporting for structures under GMX jurisdiction. Scope includes field inspection and reports processing. *(8/2019-Ongoing/Sub) Contract Amount - including extensions **$2.2M.** Reference: Richard Johnson (305) 637-3277 / ilandestoy@gmx-way.com.*

Structural Inspection for Turnpike | Florida Turnpike Enterprise:
Role: Confirming Engineer responsible for reviewing and singing & sealing inspection reports turnpike structures from milepost 0 to 237 (south system). Scope includes field inspection and reports processing. *(7/2023-Ongoing/Sub) Contract Amount - **$5.6M.** Reference: Aran Lessard, (954) 934-1234 / Aran.Lessard@dot.state.fl.us.*

In-House Support Structure Maintenance Office, Continuing Services, MEI Maintenance/Permit Inspections | FDOT D6
Role: Quality Control Engineer and Lead Inspector. Provide support as an extension of District 6 staff to the Bridge Unit including reviews, production and management for the bridge inspection program. Responsibilities include the review of bridge inspection schedules, bridge inspection reports, invoicing, MOT plans, and performing routine and emergency inspections. *(03/2019-Ongoing/Sub) Contract Amount **$5.0M** Reference: Pablo Orozco, PE (305) 470-5370 / Pablo.Orozco@dot.state.fl.us.*

Districtwide In-Depth State Bridge Inspection, Miami-Dade County | FDOT D6
Role: Project Manager, Confirming Engineer and Lead Inspector. Responsible for overseeing the daily operations of the contract and for performing inspections of 285 bridges, including 15 Movable, 6 Segmental and the Port of Miami Tunnel. Scope includes field inspection and reports processing. *(4/2023-Ongoing/Prime) Contract Amount - **$5.0M.** Reference: Jorge Ricardo (305) 640-7472 / Jorge.Ricardo@dot.state.fl.us*

Districtwide Local Government In-Depth Bridge Inspections | FDOT D6
Role: Confirming Engineer and Lead Inspector. This project includes the Routine, Interim, Initial and Emergency Inspection and Load Rating Analysis of 363 bridges. *(9/2023-Ongoing/Sub) Contract Amount - **$5.6M**. (10/2019-11/2023/Sub). Reference: Pablo Orozco, (305) 470-5370 / Pablo.Orozco@dot.state.fl.us.*

Education
•BS Civil Engineering, 2010 Florida International University

Registrations
•Florida Professional Engineer, No.83827
•Illinois Professional Engineer, No. 062.069631

Certifications
•Certified Bridge Inspector (CBI) No. 00513
•Certified Tunnel Inspector (CTI) No. 00014
•FHWA-NHI 130055 Safety Inspection of In-Service Bridges
•FHWA-NHI 130110 Safety Tunnel Inspection
•FHWA-NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges
•FHWA-NHI 130087 Inspection and Maintenance of Ancillary Hwy Structures
•NHI National Bridge Element Training
•Advanced MOT
•OSHA Fall Protection

Years of Experience
Total Years: 16, with LARS: 6

LARS Engineering, Inc

Adrian Leon, PE, CBI, CTI
Confirming Engineer / Team Leader (50% Available)

Districtwide Overhead Sign Inspections | Miami-Dade and Monroe County, FDOT
Role: Project Manager, Confirming Engineer and Lead Inspector overseeing the daily operations of the contract and for performing visual structural inspections for various types of Overhead Signs (705 total) including span, cantilever, butterfly and cable signs. *(11/2023-Ongoing/Prime) Contract Amount - **$1.5M** (9/2021-10/2023/Prime) Contract Amount - **$1.5M** (09/2019-08/2021/Prime) Contract Amount - **$310K** Reference: Carmen Parra (305) 470-5251 / Carme.Parra@dot.state.fl.us.*

Traffic Signal Mast Arms & High Mast Light Poles Inspections | FDOT D6
Role: Confirming Engineer and Lead Inspector responsible performing routine, initial and emergency inspections and creating reports for Traffic Signal Mast Arms and High Mast Light Poles on the State Highway System. Scope includes field inspection and reports processing. *(1/2022-Ongoing/Sub) Contract Amount - **$1.5M.** Reference: Jorge Ricardo (305) 640-7472 / Jorge.Ricardo@dot.state.fl.us.*

Continuing Services for Bridge Inspection of State Bridges | Broward-Palm Beach, FDOT D4
Role*:* Confirming Engineer and Lead Inspector responsible for performing visual routine, interim, initial and emergency inspections of state-owned bridges within District 4 jurisdiction. Scope includes field inspection and reports processing. (6/2020-Ongoing/Sub) *Contract Amount - **$5M.** Reference:* Patrick St. Fort., (954) 777-4159 / *Patrick.st.fort@dot.state.fl.us.*

Overhead Sign Inspection Services, Broward County, FL | FDOT D4
Role: Confirming Engineer and Lead Inspector responsible for performing routine, interim, initial and emergency inspections of High Mast Light Poles and Overhead Signs. *(1/2021-8/2024/Sub) Contract Amount - **$5M.** Reference: Patrick St. Fort., (954) 777-4159 / Patrick.st.fort@dot.state.fl.us.*

Traffic Signal Mast Arms (TSMA) | FDOT District 4
Role: Confirming Engineer and Lead Inspector responsible for the inspection and maintenance of over 1,200 TSMA's throughout Broward, Palm Beach and the Treasure Coast. Scope includes emergency response, routine and initial inspections, and reports processing. *(06/2023-Ongoing/Sub) Contract Amount **$2.6M.** Reference: Patrick St. Fort, (954) 777-4159. Patrick.st.fort@dot.state.fl.us.*

Asset Maintenance of Structures I-595 | FDOT District 4
Role: Confirming Engineer and Lead Inspector responsible for the inspection of Bridges, Overhead Signs, High Mast Light Poles and Traffic Signal Mast Arms along I-595. Duties include emergency response, structural assessment and processing of inspection reports. *(08/2024-Ongoing/Sub) Contract Amount **$2.2M.** Reference: Patrick St. Fort, (954) 777-4159. Patrick.st.fort@dot.state.fl.us.*

Airport Structural Inspections | Miami-Dade Aviation Department
Role: Project Manager and Lead Inspector responsible for performing visual routine inspections of elevated rail fracture critical bridges and initial inspection for over 196 light pole structures at cargo buildings and the Runway Tunnel. *(12/2019-11/2023/Prime) Contract Amount **$ 495K.** (12/2023-Ongoing/Prime) Contract Amount **$ 495K.** Project Contact: Arturo Gomez. (305) 869-8605 / AGomez@FlyMIA.com.*

Sheet Piling Installation Special Inspector | Spring Garden Point Park, City of Miami, FL
Role: Quality Control Engineer. Quality control of the installation of a 390 L.F. sheet piling seawall at Spring Garden Park. The seawall system is comprised by Single and Double NZ14 Piles and a continuous cast-in-place concrete cap. Duties include verification of installation as per approved plans, production of daily reports, pile installation logs and a final project records report.
*(2/2020-1/2021/Prime) Contract Amount **$35K**; Reference: Matt Shiring, (305) 325-0530. matt@ebsaryfoundationco.com.*

DAVID R. ROSA

Environmental Lead / Sr. Project Manager

GENERAL SUMMARY

David has 24+ years of project management, project coordination and permitting experience in the environmental and engineering field for public and private sector clients and multiple agencies. He has served as an Environmental and Permitting Lead, Project Manager and Discipline Manager for several infrastructure projects and has participated in capital improvement programs requiring the ability to effectively manage multiple tasks in a fast-paced environment. David has also worked as an environmental compliance officer and permit coordinator for infrastructure projects. His expertise includes National Environmental Policy Act (NEPA) documents, compliance, coordination, permitting, studies, compensatory mitigation, monitoring and environmental management.

REPRESENTATIVE EXPERIENCE

City of Fort Lauderdale GTL WWTP 60-Inc Dia. Force Main Design-Build Project | Environmental Lead responsible for the preparation of Wetland and Biological Report, Tree Surveys, SWPPP Plans, Pre-Construction Soil and Groundwater Contamination Sampling, Construction Dewatering Plans Construction, and Environmental Soil and Management Plan. Also assisted the Design-Build Team with the agency coordination and pre-application meetings. The project consisted of the installation of +/-4,000 linear feet of effluent force main, via a combination of micro tunneling and open-cut. The project was divided in three different phases (Phases 1A-1B, 2 and 3).

Design-Build Services for Runway Expansion to the Fort Lauderdale – Hollywood International Airport (FLL) | Project involved design and construction of the structures carrying Runway 9R-27L and the parallel Taxiway over US-1, FEC RR and the Airport's East Perimeter Road. Environmental Project Manager responsible for managing and completing permit applications/modification for SFWMD, USACE permits, Broward County ERL / SWM, Broward County Tree Licenses, Dewatering permits, NPDES-Generic Permits, among others.

City of Miami Seawalls Repairs Project - Benthic and Seagrass Survey, FL | Environmental Lead for seagrass survey at eight (8) distinct locations subject to seawall repairs. The purpose of the seagrass survey was to identify, document, and report submerged aquatic vegetation (SAV) within a 50 feet radius from each project site. Deliverables included data in tabular; seagrass map and a Resources Survey Report.

Replacement of US 1/ SR 5 Low Level Bridges - Environmental Resources Permit, Coastal Wetland Delineation, Seagrass Mapping and Mitigation, FDOT D4, Jupiter, FL | Sr. Environmental Scientist responsible for the marine benthic survey and coastal wetland mapping, including seagrasses and mangrove areas, in order to define potential impacts (functional assessment) from the proposed project. Duties included preparation of permits applications for USACE Section 404-CWA and 10-RHA, SFWMD Environmental Resource Permit, and U.S. Coast Guard Bridge Permit This project involved the replacement of four low level bridges from North of SR 706/Indiantown Rd at Coastal Way to South of CR A1A, over the Lake Worth Lagoon (Outstanding Florida Waters).

Multi-Year Benthic Vegetation Monitoring - Southern Boulevard SR 700/80 Bascule Bridge and Tidal Relief Bridges Replacement Projects, FL - FDOT 4. Sr. Scientist and Scientific Diver performing annual benthic vegetation surveys and monitoring. Duties and responsibilities included technical reports for NEPA documentation, mangrove delineations, mapping, and field work coordination. This project had a length of approximately 0.7 miles and involved the replacement of the two (2) bridges over the Intracoastal Waterway and the Lake Worth Lagoon.

SFWMD Water Control Structure S-151 Replacement and Automation, Broward County, FL | Environmental and Permitting Lead for the proposed improvements to the Water Control Structure S-151. The Structure 151 is located in Water Conservation Area 3A within the Everglades National Park, at the intersection of the Miami Canal (C-304) and L-67A Canal. The structure allows the release of water from WCA 3A to meet water needs for South Miami-Dade County along the Miami Canal C-6, C-7 and C-8 during the dry season. It can also be used to discharge excess water to tide from WCA 3A and 3B when capacity is available in the Miami Canal. *Project Owner: South Florida Water Management District*

EDUCATION

BS – University of Sagrado Corazon / Natural Sciences

TECHNICAL CERTIFICATIONS

UF / IFAS Stony Coral Tissue Loss Disease Observer
Ocean Conservancy RECON Diver (RD-WC-02-00100)
UF / IFAS Florida Master Naturalist (Coastal Systems)
FDEP Certified FL Stormwater Erosion and Sedimentation Control (19226)

MONICA DIAZ

Community Outreach Specialist - Senior

INFINITE SOURCE COMMUNICATIONS GROUP

YEARS OF PROFESSIONAL EXPERIENCE: 20 Years

EDUCATION: Arizona State University – B.A. in Journalism and Mass Communication – Public Relations | 2005 Minor – Human Communication

Ms. Diaz, Principal of Infinite Source Communications (ISC), is a bilingual communications professional, experienced in public involvement, public relations, print journalism and integrated marketing communications. She has more than 20 years of professional experience including managing staff, communications budgets of over $2 million and overseeing national marketing campaigns. Ms. Diaz works with agencies such as the Florida Department of Transportation (FDOT), Miami-Dade Transportation Planning Organization (TPO), the City of Miami Beach, and Broward County Public School District. She personally managed outreach for over 60 roadway projects throughout South Florida, serving as the lead spokesperson for FDOT District Six Construction and City of Miami Beach. She is capable of managing high-profile public involvement/public relations projects, building public consensus, communicating with key stakeholders and media, and executing marketing and design efforts for multiple clients. She also has the ability to handle numerous tasks quickly and successfully, ensuring goals are being attained and most importantly, that the quality assurance/quality control of the overall directed work is managed successfully. Through her years of experience on various transportation and community outreach projects, Ms. Diaz has built and fostered a variety of key stakeholder relationships and actively works with communities to develop a clear understanding of transportation related matters and municipal development.

WORK HISTORY AND RELEVANT PROJECTS

- 2022-Present – Project Lead, FDOT D4 Districtwide Office of Modal Development (OMD) Special Projects & Communication Services, Broward County, FL – Ms. Diaz works with OMD to manage contract deliverables, budgets and program current and upcoming campaigns. Recent tasks included developing a research report for Motor Transit Safety, launching Be Rail Smart and planning for the Transit Safety Campaign in June 2023.
  Reference: Multimodal Coordinator Wibet Hay, 954-777-4573
- 2018-2021 – Project Lead, FDOT District Four SW 10 Street Connector PD&E Study, Broward County, FL – Ms. Diaz is responsible for developing a community outreach campaign to garner positive feedback from the local community. Strategies included, an e-blast and social media campaign, LED truck advertising, direct outreach, and pop-up events.
  Reference: FDOT Project Manager Robert Bostian, 954-777-4427
- 2019-Present – Community Outreach Manager, Turnpike (SR 91) from south of I-595 to Wiles Road – Broward County, FL – Ms. Diaz worked with the Turnpike to developed and publish an online public meeting room as well as facilitate the coordination and attendance of the Kick-off Public meeting, which had over 400 people in attendance.
  Reference: Kimley Horn, Lisa Stone, 561-840-0826
- 2021-Present – Project Manager, FDOT District Six Okeechobee Road Corridorwide Reconstruction, Miami-Dade County, FL – Outreach efforts include developing the overall outreach program, overseeing the preparation of outreach campaigns and media buys, hybrid meetings and pop-up events.
  Reference: FDOT Construction Public Information Manager Kathy McLendon, 305-640-7437
- 2018-Present – Project Manager, FDOT D4 Districtwide Continuing Services Contract, Broward, Palm Beach, Martin, St. Lucie and Indian River counties, FL – Ms. Diaz oversees all outreach efforts for multiple projects on this contract including virtual and hybrid public meetings. We most recently were tasked with developing checklists for QA/QC accuracy and were added to the collaborative tool. We also worked with Program Management office to coordinate their Tentative Five-Year Work Program hybrid hearing and board meetings.
  Reference: RS&H, Doug Green, 954-236-7371
- 2018-2019 – Public Information Manager, City of Fort Lauderdale Next Stop Fort Lauderdale Planning Study, Broward County, FL – Ms. Diaz worked with the team to develop a promotional campaign to raise awareness and garner public attention. Efforts included an e-blast campaign, participation at local events, and HOA presentations.
  Reference: Kittleson & Associates, Inc Fabian De La Espriella 786-766-7370

WWW.ISCPRGROUP.COM | 305.640.8122 | 7270 NW 12 STREET, SUITE 520, MIAMI, FL 33126

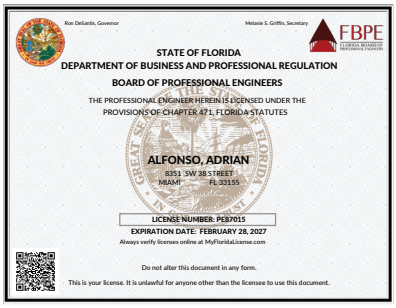
- 2022-Present – Project Manager, 2050 Long Range Transportation Plan – Miami-Dade Transportation Planning Organization, Miami- Dade County, FL – Ms. Diaz manages all branding, messaging and outreach efforts for the 2050 Plan, inclusive of creative direction for the website, project collaterals and outreach events.
  Reference: Elizabeth Rockwell, 305-375-1881
- 2022-Present – Project Manager, SMART Trends Transportation Summit, – Miami-Dade Transportation Planning Organization, Miami- Dade County, FL - Ms. Diaz was the lead creative director and manager for this event, overseeing all aspects from branding to program development. She worked with all aspects of the summit and ran day of logistics.
  Reference: Elizabeth Rockwell, 305-375-1881
- 2019-2021 – Project Manager, SFRTA 2045 RTP Website Development and Social Media, Broward County, FL – Ms. Diaz worked with the regional team to develop the vision for the 2045 Regional Transportation Plan website www.movefloridaforward.org. She worked with Broward MPO to launch a social media campaign to increase participation.
  Reference: Kittelson & Associates, Jessica Josselyn, 954-770-6463
- 2017-2021 – Project Manager, FDOT District Six Palmetto Express Design East-West, Miami-Dade County, FL – Ms. Diaz was responsible for managing the public involvement team as FDOT implements the design of new managed lanes and major roadway improvements along the Palmetto Expressway from I-75 to the Golden Glades Interchange. Efforts include developing overall outreach plans, collaterals in English, Spanish and Creole as well as hosting a series of outreach events to educate and inform the community about the benefits of Express Lanes. The project is currently on hold.
  Reference: FDOT Communications Manager Tish Burgher, 305-470-5277
- 2013-2015 – Project Manager, FDOT District Six Districtwide Public Information Contract for Miscellaneous Construction Projects in Miami Beach and Surrounding Areas, Miami-Dade County, FL – Ms. Diaz was responsible for spearheading all education efforts for various projects in Miami Beach and the surrounding areas. She oversaw the public information team, developed the overall marketing and communication campaign strategy for FDOT and worked with local agencies to communicate all construction related information on a daily basis.
  Reference: FDOT Construction Public Information Manager Kathy McLendon, 305-640-7437
- 2011-Ongoing – Project Manager, City of Miami Beach Public Information Services Right-of-Way and Facilities Construction Contract, Miami Beach, FL – Ms. Diaz manages staff and communications for ongoing and upcoming transportation projects including the renovation of one of Miami Beach's most famous venues and historic building, the Miami Beach Convention Center. Ms. Diaz represented the City Manager's office by coordinating all construction related activities with surrounding stakeholders, the media and special events such as Art Basel, Design Miami and the Auto Show.
  Reference: Project Manager Thais Vieira, 305-673-7010
- 2011-Present – Project Manager – FDOT District Six Districtwide Communications Consultant Services for Miscellaneous Projects in Miami-Dade and Monroe Counties, Miami-Dade County, FL – Ms. Diaz currently manages a large team of public information staff and consultants as they execute outreach for FDOT in Planning, PD&E, and Design and special projects. She works with the District Secretary's office to execute the public affairs for their Five-Year Work Program, develops internal style guides and checklists and launched the first annual Drive Safe Aggressive Driving campaign.
  Reference: FDOT Communications Manager Tish Burgher, 305-470-5349

ADDITIONAL WORK HISTORY

- 2007-2009 – Public Information Specialist, FDOT District Six Miscellaneous Construction Contract, Miami-Dade County, FL – Quest Corporation of America – Ms. Diaz acted as lead Public Information Specialist managing over 50 roadway improvement projects throughout Miami-Dade County. She also produced and developed the Department quarterly newsletter and served as a media spokesperson on high-profile projects.
  Reference: FDOT Construction Public Information Manager Kathy McLendon, 305-640-7437
- 2007-2008 – Marketing and Label Manager Coordinator, Sony BMG Music Entertainment Latin America, Miami, FL – Ms. Diaz aided with campaign planning and project execution for the Director of Marketing and Label Managers at Sony BMG Music Latin America. She updated and managed online media outlets for the Digital Marketing Division to promote artists (i.e.; Eros Ramazzotti, CAMILA, Barbara Munoz, Gloria Estefan).
  Reference: Marlene Rodriguez, 305-608-1698
- 2006-2007 – Account Manager/Journalist El Paso Media Group/El Paso Magazine, El Paso, TX – Ms. Diaz researched, wrote and published article assignments in print media. She handled advertising sales for three publications in the U.S. Hispanic (El Paso Magazine, The El Pasoan and Newspaper Tree Online). She assisted in the coordination of outside events associated with the El Paso Media Group.
  Reference: Not Available (Out of Business)
- 2004-2005 – Executive Assistant, The Walker Agency Marketing Communications, Scottsdale, AZ – Ms. Diaz assisted in itinerary planning, press material production and mapping driving routes for the Toyota Scion Press Introduction Campaign. She updated, developed and distributed media exposure reports to national clients: Yamaha, Toyota Motors, Bushnell, Foodsaver, Ducks Unlimited. Assembled promotional media kits and other press materials (i.e. online distribution and mail-outs).
  Reference: Owner Mike Walker, 480-483-0185

Key Personnel Licenses

Adrian Alfonso, PE


Ron DeSantis, Governor
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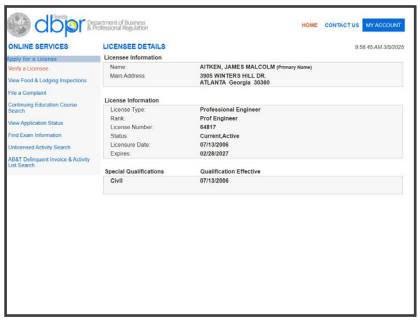
Jim Aitken, PE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LICENSEE DETAILS
Licensee Information
Name: AITKEN, JAMES MALCOLM (Primary Name)
Main Address: 3905 WINTERS HILL DR. ATLANTA Georgia 30360
License Information
License Type: Professional Engineer
Rank: Prof Engineer
License Number: 64817
Status: Current,Active
Licensure Date: 07/13/2006
Expires: 02/28/2027
Special Qualifications: Civil
Qualification Effective: 07/13/2006

Angela Baron-Ruiz, PE


Ron DeSantis, Governor
Melanie S. Griffin, Secretary
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BARON-RUIZ, ANGELA MARIA
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MIAMI FL 33185
LICENSE NUMBER: PE76984
EXPIRATION DATE: FEBRUARY 28, 2027
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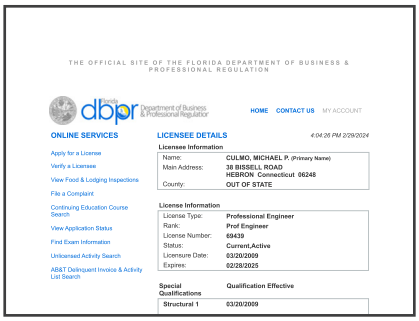
Michael Culmo, PE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LICENSEE DETAILS
Licensee Information
Name: CULMO, MICHAEL P. (Primary Name)
Main Address: 38 BISSELL ROAD HEBRON Connecticut 06248
County: OUT OF STATE
License Information
License Type: Professional Engineer
Rank: Prof Engineer
License Number: 69439
Status: Current,Active
Licensure Date: 03/20/2009
Expires: 02/28/2025
Special Qualifications: Structural 1
Qualification Effective: 03/20/2009

Cecilia Villoria, PE


Ron DeSantis, Governor
Melanie S. Griffin, Secretary
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VILLORIA, CECILIA A.
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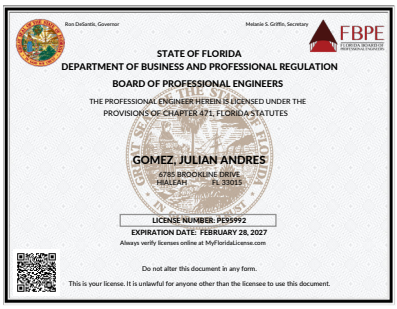
Julian Gomez, PE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Eithel Sierra, PE


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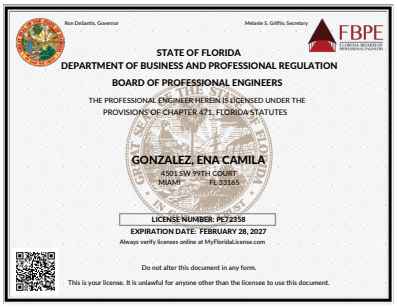
Ena Gonzalez, PE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Rocio Trimino-Gort, PE


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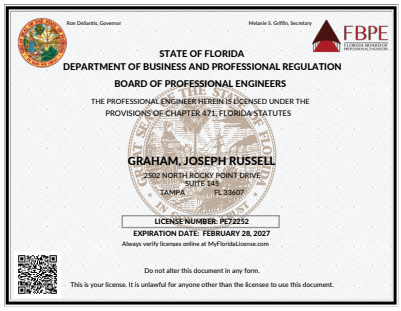
Joseph Graham, PE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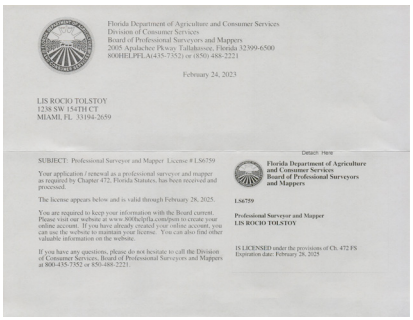
Lisa Tolstoy, PSM (CTS)


Florida Department of Agriculture and Consumer Services
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Board of Professional Surveyors and Mappers
2005 Apalachee Pkway Tallahassee, Florida 32399-6500
800HELPFL/A(435-7352) or (850) 488-2221
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LIS ROCIO TOLSTOY
12138 SW 154TH CT
MIAMI, FL 33194-2659
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SUBJECT: Professional Surveyor and Mapper License # LS6759
Your application / renewal as a professional surveyor and mapper as required by Chapter 472, Florida Statutes, has been received and processed.
The license appears below and is valid through February 28, 2025.
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LS6759
Professional Surveyor and Mapper
LIS ROCIO TOLSTOY
IS LICENSED under the provisions of Ch. 472 FS
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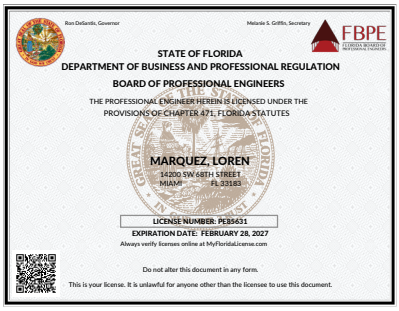
Loren Marquez, PE (LARS)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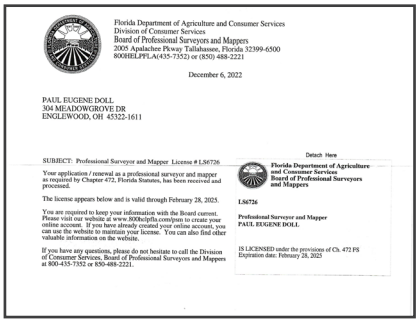
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800HELPFL/A(435-7352) or (850) 488-2221
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304 MEADOWGROVE DR
ENGLEWOOD, OH 45322-1611
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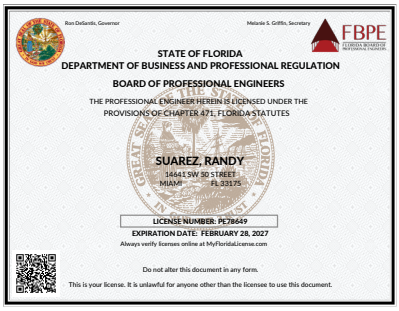
Randy Suarez, PE (LARS)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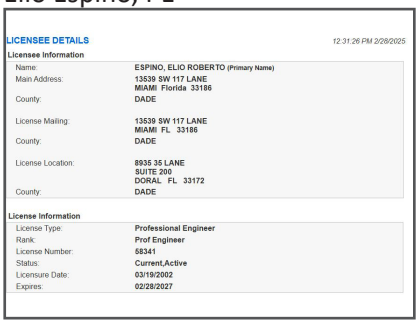
LICENSEE DETAILS
12:31:26 PM 2/28/2025
Licensee Information
Name: ESPINO, ELIO ROBERTO (Primary Name)
Main Address: 13539 SW 117 LANE MIAMI Florida 33186
County: DADE
License Mailing: 13539 SW 117 LANE MIAMI FL 33186
County: DADE
License Location: 8935 35 LANE SUITE 200 DORAL FL 33172
County: DADE
License Information
License Type: Professional Engineer
Rank: Prof Engineer
License Number: 58341
Status: Current,Active
Licensure Date: 03/19/2002
Expires: 02/28/2027

Adrian Leon, PE (LARS)


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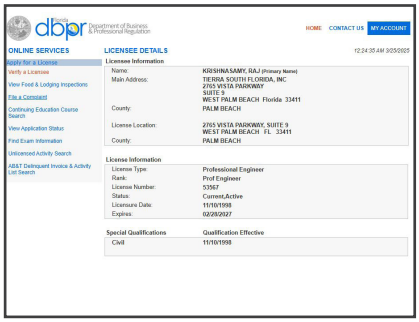
Raj Krishnasamy, PE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County: PALM BEACH
License Location: 2765 VISTA PARKWAY, SUITE 9 WEST PALM BEACH FL 33411
County: PALM BEACH
License Information
License Type: Professional Engineer
Rank: Prof Engineer
License Number: 53567
Status: Current,Active
Licensure Date: 11/10/1998
Expires: 02/28/2027
Special Qualifications
Qualification Effective
Civil 11/10/1998

Alejandro Leon, PE


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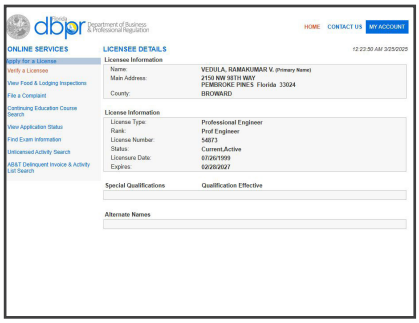
Adrian Leon, CBI & CTI (LARS)


Certified Bridge Inspector
Whereas Adrian E. Leon has shown competency and fitness to conduct bridge inspection as set forth in the National Bridge Inspection Standards and Florida Statute 335.074 Bridge Inspection Standards,
Therefore, under the authority granted by Chapter 14-48 Florida Administrative Code, the State of Florida Department of Transportation hereby issues this certificate numbered 00513 as provided by law and object to the powers or revocation seated in said Department on this 22nd day of October 2012, A.D.
BRIDGE MANAGEMENT INSPECTION ENGINEER
STATE STRUCTURES MAINTENANCE ENGINEER
Certified Tunnel Inspector
Whereas Adrian Leon has shown competency and fitness to conduct bridge inspection as set forth in the National Tunnel Inspection Standards,
Therefore, the State of Florida Department of Transportation hereby issues this certificate numbered 00014 as provided by law and object to the powers or revocation seated in said Department on this 14th day of June 2017, A.D.
BRIDGE MANAGEMENT INSPECTION ENGINEER

Kumar Vedula, PE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View Application Status
Find Exam Information
Unlicensed Activity Search
AB&T Delinquent Invoice & Activity List Search
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Licensee Information
Name: VEDULA, RAMAKUMAR V. (Primary Name)
Main Address: 2150 NW 98TH WAY PEMBROKE PINES Florida 33024
County: BROWARD
License Information
License Type: Professional Engineer
Rank: Prof Engineer
License Number: 54073
Status: Current,Active
Licensure Date: 07/26/1999
Expires: 02/28/2027
Special Qualifications
Qualification Effective
Alternate Names

TAB 4 - APPROACH TO SCOPE OF WORK

4. APPROACH TO SCOPE OF WORK

General CHA Experience & Capabilities

CHA is thrilled to submit this Request for Qualifications to provide professional engineering services to the **City of Fort Lauderdale for the Professional Services for Bridge Design & Miscellaneous Engineering Services**. CHA is a multidisciplinary engineering firm with 72 years of national experience and has been serving South Florida for over 25 years, providing services to DOTs and local municipalities. CHA's bridge engineering practice has a long history of successful bridge projects across the country. Our south Florida-based bridge team is supported by **more than 100 bridge and structural design professionals on CHA's staff**, whose expertise will be made available for this project. We have a wide range of structural engineering experience, including the design of concrete bridges, steel bridges, bridge widening, bridge replacements, Accelerated Bridge Construction, culverts, retaining walls, sea walls, pump stations, low-rise buildings, sign structures, mast arms, and special foundations. CHA has extensive experience using the latest design software such as OpenBridge, MIDAS, STAAD, Shoring Suite, Mathcad, and AASHTOWare BrR. CHA is grateful for the opportunity and will provide the City of Fort Lauderdale with high-quality services for the replacement of three bridges and other structural support.

Technical Approach for Bridge Rehab/Replacements & Miscellaneous Structures

The CHA team will manage and design the replacement of the bridge following the latest AASHTO design criteria and the FDOT Structure Manual to bring the crossings up to the latest roadway and structural standards. Our robust in-house design services include structures, roadway, MOT, drainage, utility, water resources, traffic engineering, and CEI. We have added several subconsultants to our team to round out the services needed for this project, including bridge inspections, geotechnical, survey, SUE, and public involvement services. We have structured our team to include a deep bench of resources that provides redundancy in multiple disciplines to deliver this bridge replacement project. In preparation for the RFQ, CHA has reviewed the bridge inspection reports and performed site visits at the three bridge locations identified in the RFQ. The site visits consisted of taking critical measurements, site photographs, and general location information for design, feasibility, and construction purposes. We have developed a technical approach for each bridge location based on this information as well as CHA's past experience with similar types of projects. The approach for each site is presented below:

Bayview Drive Bridge 865708: Bayview Drive North of NE 55th Place

Bayview Drive is classified as an urban collector road, carrying one lane of traffic and a bike lane in each direction, separated by a median, with an estimated ADT of 18,000 and a posted speed limit of 35 mph. The roadway cross-section narrows at the bridge to just two travel lanes with sidewalks and does not contain a median or bike lanes. Bayview Drive Bridge 865708 is a single-span reinforced concrete slab bridge built in 1962, providing a north-south crossing of the Longboat Inlet. The bridge has a current total length of less than 19 feet and a roadway width of 28 feet.

The latest inspection report from 2015 states that the bridge is scour critical and structurally deficient, with a sufficiency rating of 37.3 and a health index of 65.29. The bridge is posted for a maximum weight limit of 24 tons. A "No Thru Trucks" sign is posted north of NE 51st Street. Concrete piles, abutments, deck, and retaining walls contain cracks and spalls with signs of corrosion. At least three concrete piles contain large spalls with exposed rebar. During our field visit, we noticed the northbound railing was damaged from an accident and should be immediately repaired to ensure community safety.

CHA proposes to replace the existing bridge with a new single-span deck slab bridge to provide the required clearance and hydraulic opening while maintaining the existing vertical profile. Other superstructure alternatives, such as flat slab beams and solid deck slab beams, will be considered due to their time-saving benefits. A new abutment on prestressed concrete piles will be designed to support the bridge, along with a new seawall for scour protection. A widened typical section on the new bridge will be proposed to the City for review to provide a continuation of the bike lanes on Bayview Drive, as well as improve roadway geometrics to meet current standards. We propose to use a road closure and temporary offsite detour at this site, as this will be the fastest and least expensive method for the bridge replacement. There are several alternate routes available for the detour.

KEY CHALLENGES	POTENTIAL IMPACTS	CHA VALUE APPROACH
Environmental Bayview Drive Bridge is in an aggressive environment. The site contains marine life near the structure as well as vegetation.	The potential impacts include lengthy permit application processes and establish measures to protect the environment.	Coordination with the environmental agencies will begin early in the design to obtain necessary permits for construction. Erosion and turbidity control measures will be implemented in the design of bridge replacement.
Constructability/MOT This bridge is located on Bayview Drive and serves as a through street connecting NE 55 Street to NE 59 Street.	Using a road closure and temporary offsite detour offers the safest alternative for the contractor and community when replacing the bridge but will also create inconvenience for the local community while the bridge and roadway are closed.	CHA will analyze several alternatives to determine the least impactful solution to the community while optimizing the construction. These alternatives will include reviewing Phased Construction and Accelerated Bridge Construction (ABC) alternatives. Phased construction will permit traffic during construction, while ABC will replace the bridge with the shortest possible road closure duration.
Utilities Bridge 865708 contains a 12" D.I.P. watermain on west side, and a 10" D.I.P. force main, 4" PVC, and 6" PVC on east side. There are overhead powerlines 15 ft. east of the bridge with the nearest pole 45 ft. north of the end of the bridge. Owners of the utilities include Comcast, AT&T, and Teco Gas.	Utility relocations can add significant time to the construction schedule if they are not coordinated with the utility owner to give them the lead time to design and plan the relocation.	CHA has already investigated the utility owners and will establish coordination at the beginning of the project. Bypasses to relocate existing attached pipelines will be evaluated on this project. Our water resources team has a strong history of water and sewer relocation projects containing aerial crossing replacements, including for the City of Fort Lauderdale.

SE 13th Street Bridge 865765: SE 13th Street and 100 ft east of Cordova Road

SE 13th Street is classified as an urban local road carrying two-way traffic with an estimated ADT of 1,500 and a posted speed limit of 25 mph. SE 13th Street Bridge 865765 is a multi-span concrete deck bridge on concrete tee beams built in 1952, providing residential access across the Cerro Gordo River, which is subject to tidal influences. The existing bridge has a total length of 180 feet, a roadway width of 20.5 feet, and a sidewalk width of 2.5 feet.

The latest inspection report from 2024 states that the bridge is posted and is functionally obsolete due to the deck geometry, with a sufficiency rating of 22.2 and a health index of 52.1. The bridge superstructure (double-tee beams) contains multiple

locations of spalling and exposed reinforcement. Although the bridge deck is not visible, there are various transverse cracks on the asphalt overlay. The SE wing wall shows undermining where there is loss of backfill. The end bent cap and piles have minor cracks and delamination, with exposed rebar or corrosion stains in a few areas. The superstructure shows cracks, delamination, spalls, and exposed rebar, with 8 beams requiring repairs.

CHA proposes to replace this bridge by using Florida slab beams (FSBs) or solid deck slab beams to minimize the number of spans while optimizing the canal clearance and avoiding any changes to the vertical profile. The superstructure will be supported on new pile bents. The end bents will be protected from scour by a new sea wall. Although there is very limited right of way, widening the bridge cross-section will provide the optimum lane width and required sidewalk width for ADA compliance. CHA will use a phased construction approach for the bridge replacement to maintain access during construction, as there are no available detour routes for residents.

KEY CHALLENGES	POTENTIAL IMPACTS	CHA VALUE APPROACH
Environmental Project site falls within the Manatee Protection Zone. Environmental classification for this bridge is extremely aggressive.	The potential impacts include lengthy permit application processes and establish measures to protect the environment and marine life.	Early coordination with agencies will allow us to obtain permits in a timely manner. In addition to erosion and turbidity control, the bridge design and construction will comply with the Standard Manatee Conditions for In-Water-Work, National Marine Fisheries Service's Protected Species Construction Conditions.
Constructability/MOT This bridge is located on SE 13th Street and is the only access to a residential neighborhood of approximately 170 homes.	Replacement of the bridge is anticipated to be a combination of phased construction and temporary nighttime bridge closures. Traffic monitoring and temporary signals will be used to provide safety during construction when two-way traffic is maintained on a single lane.	CHA will propose the construction method which will be the least impactful to the local residences. Limiting the number of spans will accelerate pile driving operations. Combining this approach with precast elements will be considered to limit temporary lane closures on the bridge. CHA will also investigate ABC alternatives specific to this site that will reduce the duration of the bridge construction to greatly reduce the impacts to the local community.
Utilities Bridge 865765 contains an 8" watermain, 6" force main, 9" steel conduit, and a 9.5" PVC between beam 1-3. In addition, there is a 16" outfall on the west seawall just north of bridge, an AT&T cabinet on SW corner of the west approach, and an overhead utility along the north side of the bridge with low clearance.	Utility relocations can add significant time to the construction schedule if they are not coordinated with the utility owner to give them the lead time to design and plan the relocation.	CHA will establish utility coordination at the beginning of the project. Any anticipated relocation of utilities such as the cabinet will be requested to be completed during the design phase of the project. Our Team has experience in relocating water and sewer lines attached to bridges without interruption of services.

NE 1st Street Bridge 865727: NE 1st Street and 200 ft east of Victoria Park Road

NE 1st Street is classified as an urban local road carrying two-way traffic with an estimated ADT of 832 and a posted speed limit of 25 mph. NE 1st Street Bridge 865727 is a two-span steel bridge on stringers and girders built in 1940, providing residential access across the Rio Navarro Canal, which is subject to tidal influences. The existing bridge has a total length of 44.5 feet with a roadway width of 23.9 feet.

The latest inspection report from 2024 states that the bridge is structurally deficient due to the deck geometry, with a sufficiency rating of 9.2 and a health index of 94.46. The bridge superstructure (stringers and girders) contains multiple locations of corrosion and painted section losses. Cracks and spalls are present throughout the end bent caps. There are signs of settlement at one of the bents, and there is soil undermining below the sidewalk and at the edges of the approach slabs. Superstructure deflection was noticeable during our field visit when vehicles crossed the bridge.

CHA will propose to replace this bridge with a single-span concrete bridge using a low-profile superstructure such as FSBs or solid deck beams. The new bridge will be supported by deep foundation prestressed concrete piles. The use of micro-piles or drilled shafts will be evaluated to limit the vibration and construction impacts near the local parks and residences. A new retaining wall will be designed to address the existing undermining of soils. Widening of the overall bridge cross-section is not anticipated at this location given the existing overall bridge width and limited right of way.

KEY CHALLENGES	POTENTIAL IMPACTS	CHA VALUE APPROACH
Environmental NE 1st Street Bridge is in an extremely aggressive environment. This location falls in between two local parks with wildlife and vegetation.	The potential impacts include lengthy permit application processes and establish measures to protect the neighboring parks and marine life.	Coordination will begin in the early stages of the design to ensure all permits are obtained from the environmental agencies. Erosion and turbidity control measures will be implemented in the design of the bridge replacement. A wildlife survey of the area will also be considered given the proximity of the parks.
Constructability/MOT This bridge is located on NE 1st Street and serves as the sole connection for a residential neighborhood of 30 homes.	Replacement of the bridge is anticipated to be a combination of phased construction and temporary nighttime bridge closures. Although there is not heavy traffic on this bridge, Victoria Park Road 150ft west of the bridge has a high traffic volume and could be impacted during construction.	CHA will investigate the most cost-effective solution that will minimize the impacts to the neighborhood, Annie Beck Park, and Victoria Park. Staging at a nearby area or barge will be evaluated. Temporary signals will be implemented for added safety during construction. CHA will investigate ABC alternatives specific to this site that will reduce the duration of the bridge construction to greatly reduce the impacts to the local community.
Utilities Bridge 865727 contains a 6" D.I.P watermain, 6" PVC force main. and a 2" utility pipe. Owners of the utilities include Comcast, AT&T, and Teco Gas.	Utility relocations can add significant time to the construction schedule if they are not coordinated with the utility owner to give them the lead time to design and plan the relocation.	CHA will work with the utility owners to seamlessly replace pipes and other communication lines during the construction of the project by establishing their requirements early in the design. A temporary by-pass lines will be necessary to avoid service interruption.

Structures

PROJECT DESIGN APPROACH

Once CHA receives the NTP for this project, we will establish a kickoff meeting and determine the best alternative for a bridge replacement. We will provide the City with our Bridge Development Report (BDR), detailing the new bridge geometry, environmental impacts, constructability, and cost comparison of the most effective solution. In addition to analyzing the best replacement alternative for the bridges, we will investigate the use of corrosion-resistant materials, fiber-reinforced polymer (FRP) composites, GFRP, ultra-high-performance concrete (UHPC), chloride-resistant concrete admixtures, increased concrete cover, and precast bridge elements to maximize the durability of the new structure. CHA has extensive experience with various types of bridge replacements.

ACCELERATED BRIDGE CONSTRUCTION (ABC) EXPERIENCE

Construction duration can be reduced with ABC techniques using prefabricated bridge elements (PBES), including superstructure and substructure elements. Although staged construction is feasible at all three locations, implementing ABC techniques will be evaluated. CHA has several recent GDOT projects where we are using ABC to accelerate the project construction timeline and reduce impacts on the community that uses this road daily. Reducing the construction duration even by a few weeks can have a big impact on gaining community acceptance of a project.

Widely known as the 'Fast 14' project, the CHA bridge team provided engineering services for the replacement of 14 bridges (41 spans) in 10 weekends on the multilane I-93 in Medford, Massachusetts. The White Boulevard Bridge over Golden Gate Canal in Collier County saw the implementation of ABC methods by using precast bents and prestressed double-tee deck beams. CHA is currently using ABC to replace a bridge using precast concrete deck panels on GDOT's Tucker Road over Rocky Creek to reduce the road closure and detour to just 60 days. We have experience and success on other projects using ABC, including the award-winning Blackhall Road over Rum Creek Bridge (GDOT), which used a Decked Beam ABC approach to replace the bridge in under 60 days. This project was the winner of the 2021 Precast Concrete Institute Award for Bridges.

CHA developed an ABC decision matrix (DM) that has been used successfully by several DOTs to evaluate the suitability of ABC methodologies. CHA's ABC DM evaluates construction operations and management costs with user delay costs due to traffic control through detouring, alternating one-way traffic, or reduced lanes. CHA will use the ABC DM to determine the most cost-effective optimal solution with the shortest disruption and start early coordination with the City of Fort Lauderdale, as well as all stakeholders, for determining the best MOT selection.

CLIMATE RESILIENCY AND SEA LEVEL RISE

We are familiar with the City's ordinance requiring shoreline structures to be designed and constructed as tidal flood barriers with a minimum top elevation of five (5) feet NAVD88. For the bridge replacement projects identified, CHA will evaluate the need and feasibility to raise the bridge profile at each location by analyzing the sea level rise requirements and site-specific conditions such as existing elevations at touchdown points and proximity to residential properties. A new abutment and seawall consisting of sheet piles or pile and panel will ensure a stable foundation for the new structure to meet high-water elevations. The wall type will be selected based on the geotechnical conditions, required wall height, ease of constructability, and cost. In addition, an extended abutment with a new seawall can provide additional area as a temporary abutment for accelerated bridge construction methods to provide added protection and reduce bridge closure times. CHA also has experience working with Kind Designs for their innovative and environmentally friendly living seawall solutions.

BRIDGE INSPECTION, CONDITION ASSESSMENT, AND STRUCTURAL INTEGRITY EVALUATION

Alongside LARS Engineering, our approach is focused on maximizing the safety of the public and effectively completing the inspection of all bridge elements. Our team will coordinate a pre-inspection meeting with the City of Fort Lauderdale to evaluate access, ongoing projects on the bridge, and determine the total resources to be allocated to complete the inspection as per the project schedule. The inspection prep starts by having an in-house pre-inspection meeting that involves all inspection team members, senior structural engineers, and the

QA/QC officers to review the previous two inspection reports to evaluate bridge location for accessibility options, special equipment needs, underwater inspection requirements, identify locations of maximum stress, known critical deficiencies, non-destructive testing requirements, determine the amount of manpower required, and review safety and emergency procedures. During the preparation phase, the inspection's complexity, certifications, and experience requirements are evaluated to assign only the most qualified staff to specific tasks. During the inspection, elements will be inspected for corrosion, delamination, spalling, efflorescence, cracks, deflection, distress, impact damage, corrosion bleed-out, etc. Detailed documentation will be obtained during the inspection, including the exact location of deficiencies and quantities. For a better understanding of the deficiencies, pictures and sketches will be provided.

ROADWAY

Roadway improvements such as changes to profile will be analyzed if necessary to meet new design criteria and water clearances. However, any profile modifications will be minimized to ease harmonization. Railings on the approaches and on the bridges will meet the most up-to-date MASH standards to protect vehicles as well as pedestrians and will meet height requirements. For the Bayview Drive Bridge, CHA will analyze widening the overall roadway cross-section on the bridge to match the existing cross-section on Bayview Drive. A shared-use path or bike lane and sidewalk alternative will be coordinated with the City of Fort Lauderdale. Bridge widening for the SE 13th Street and NE 1st Street Bridges will be limited due to right-of-way restrictions, and providing sidewalks on both sides of the bridge is unlikely. A minimum lateral offset to the barrier on the north side and a sidewalk on the south side meeting ADA compliance will be proposed for those two bridges with the approval of the City.

TRAFFIC MONITORING CAPABILITIES

CHA also has the capability to provide active work zone management, including VISM modeling, SYNCRO modeling, and modification of signal timing to facilitate traffic movement in the areas. The use of cameras, drones, and TOM HUB (in-house live traffic software) are also available if needed. The use of temporary signals is anticipated for these bridge replacements as two-way traffic must be maintained on a single lane during phases of the construction.

GEOTECHNICAL

Tierra South Florida and CHA performed an initial review of the sites, and we concluded that a similar approach will be taken for all three locations. Based on our experience in this area, the subsurface typically consists of granular soils with a varying mix of sand, limestone, and cemented sand. A more thorough geotechnical investigation will be conducted to establish potential foundation alternatives suitable for the environmentally aggressive locations. The Broward County Future Conditions 100-year flood map for 2060 currently lists the 100-year flood elevation in this area as varying from about +4.5 to +7.5 (NAVD88). Pavement cores and borings will be performed to determine the existing pavement thickness and subsurface conditions. We anticipate the following geotechnical challenges for these locations: limited working space, MOT requirements for pavement cores and borings, and utility coordination. Fieldwork will need to be coordinated and performed at times and locations that will minimize impact on residents. 18-inch and 24-inch prestressed, precast square concrete piles are typically used to support these bridges. There are nearby existing residential buildings and various utility lines present at the bridge locations to account for vibration/settlement during foundation and pile driving operations. Vibration control, monitoring, pre-construction, and post-construction surveys will be required by sections 108 and 455 of the FDOT Specifications. Predrilling of pile holes will be considered to minimize vibration. 100% PDA will be considered to reduce pile loads. Alternate foundation types such as drilled shafts (with casing installed via non-vibratory methods), H-piles, or micro-piles will also be considered in these areas.

UTILITY COORDINATION APPROACH

Given the extensive scope of this reconstruction project, which includes the replacement of three bridges and the presence of various utilities at each crossing, a thorough and dynamic utility coordination effort will be essential for this contract. Lissette Guon will serve as the dedicated point of contact and Utility Project Manager for our team, overseeing potential relocations and minimizing conflicts through early coordination with all Utility Agency Owners (UAOs) involved. Our utility coordination process will begin with a Sunshine State One Call Ticket request to identify

all existing utilities within the project corridor. To ensure uninterrupted service during the bridge replacement, we will maintain close coordination with all UAOs. This includes open communication regarding potential conflicts, new installations, and necessary relocations. Our team will schedule meetings, produce conflict matrices, conduct constructability reviews, and oversee any required relocations to maintain service equivalency.

All coordination efforts will adhere to the Utility Accommodation Manual, as well as the City of Ft Lauderdale, Broward County, and FDOT requirements. Additionally, our design will ensure UAOs retain access to maintenance activities while the bridges are under construction. Maintaining proactive coordination with all UAOs is our priority to prevent delays and ensure seamless project execution during construction. Our team's expertise in utility coordination positions us for success in managing utility relocations effectively.

WATER & SEWER AERIAL CROSSINGS

The replacement of the existing water and sewer mains attached to the bridges will require careful coordination with the City of Fort Lauderdale to ensure that flows are maintained at all times. This will necessitate the installation of an on-grade bypass while the mains are being replaced. Our team has developed a proposed solution to replace these lines, consisting of three phases:

- **Phase 1:** Install a temporary bypass and remove the existing water and sewer mains attached to the bridge.
- **Phase 2:** Transfer the flow from the existing mains to the temporary bypasses and install the new lines on the new bridge.
- **Phase 3:** Certify and put into service the new water and sewer mains and remove the temporary bypasses.

DRAINAGE

Runoff from the Bayview Drive Bridge currently drains to adjacent ditch bottom inlets to the north of the bridge and to the south intersection through an existing valley gutter. Runoff from the SE 13th Street Bridge currently sheet flows to the east and west with no apparent collection or treatment, while runoff from the NE 1st Street Bridge currently discharges directly into the Rio Navarro Canal.

The design of all bridges will comply with FDOT's requirement to maintain a minimum 2-foot vertical clearance above the design flood stage. Although no additional impervious surfaces are proposed, water quality treatment for bridge runoff is required. To address this, short segments of exfiltration trenches will be incorporated to treat and attenuate runoff. Direct discharge into surface waters is not permitted; therefore, all bridge runoff will be contained within the shoulders and directed to adjacent inlets or collected by bridge scuppers before discharging into nearby drainage structures. Additionally, spread analysis will be conducted at all locations to ensure runoff is contained within the shoulder limits. A Bridge Hydraulics Report will be prepared to ensure that post-development water levels in each water body remain at or below pre-development conditions.

ENVIRONMENTAL PERMITTING

CHA and McFarland Johnson have performed an initial review of the environmental requirements for the replacement of the three bridges.

The review concluded that there will be similar requirements at all three locations. Depending on the final design and in-water works, coordination with the following regulatory agencies will be required for the following potential design and construction permits:

- SFWMD
  - ✓ Environmental Resource Permit
  - ✓ Submerged Land Authorization (exemption can be requested if no change to footprint of existing bridge).
- Broward County
  - ✓ ERP / Stormwater License / Wetland / Surface Water License
  - ✓ Right of Way Permit
  - ✓ MOT Permit
- U.S. Army Corps of Engineers
  - ✓ Section 404 / Section 10 Permit (likely a Nationwide Permit 14)
- Fort Lauderdale
  - ✓ Right of Way Permit
- U.S. Coast Guard
  - ✓ No Bridge Required Request
  - ✓ Notification to Mariners

LIGHTING

Currently there is no lighting on any of the bridges. Lighting requirements for vehicles and pedestrians will be considered and coordinated with the city.

SURVEYING & MAPPING/SUE

CHA has partnered with CTS Engineering, Inc., for surveying, mapping and SUE services. CTS is well-equipped to support the City of Fort Lauderdale on the bridge design and structural engineering services contract through their extensive capabilities and expertise. With decades of experience in surveying and geospatial services, CTS utilizes cutting-edge technology such as 3D laser scanning and LiDAR to ensure precise data collection. Their multidisciplinary team, including Professional Surveyors and Mappers (PSMs) and FAA-certified drone operators, brings a wealth of knowledge to the project. CTS's proven success in handling infrastructure projects, compliance with subsurface utility engineering standards, and strong QA/QC processes ensure accuracy and reliability in all deliverables. Additionally, their experience working with municipal and county agencies across Florida, combined with a focus on sustainability, makes them a valuable partner on this contract. Their services include:

- Roadway Design Surveys (2D/3D)
- Subsurface Utility Engineering (SUE)/Ground Penetrating Radar (GPR)
- Topographic/DTM Surveys
- Horizontal & Vertical Control
- GPS Surveying
- Right-of-Way Mapping
- Boundary Surveys
- Legal Descriptions & Sketches
- ALTA/NSPS Land Title Surveys
- Lidar/Terrestrial
- Construction Surveys
- Drainage Surveys
- Differential Leveling
- Specific Purpose Survey
- Bathymetric/Hydrographic Surveys
- As-Built/Record Surveys
- Quantity Surveys
- GIS
- Aerial Photo Control Surveys for Mapping
- Unmanned Aerial Vehicles (UAV) Services

PUBLIC INVOLVEMENT

CHA has partnered with ISC for public involvement requirements on these critical bridge replacements for the local communities.

Design Phase Outreach

During the design phase, ISC will prioritize early engagement to inform stakeholders about project objectives, gather feedback, and address potential concerns before construction begins. ISC will develop a Community Awareness Plan (CAP) that outlines engagement efforts, including coordination with local agencies, municipalities, and emergency services. Special emphasis will be placed on collaboration with the City of Fort Lauderdale to ensure that outreach strategies align with City priorities and communication protocols. Outreach materials will be available in English, Spanish, and Haitian Creole to ensure accessibility for diverse populations. ISC will facilitate public meetings, open houses, and virtual engagement opportunities to provide project updates and solicit community input. Additionally, a dedicated project website, social media updates, and email notifications will be utilized to keep stakeholders informed.

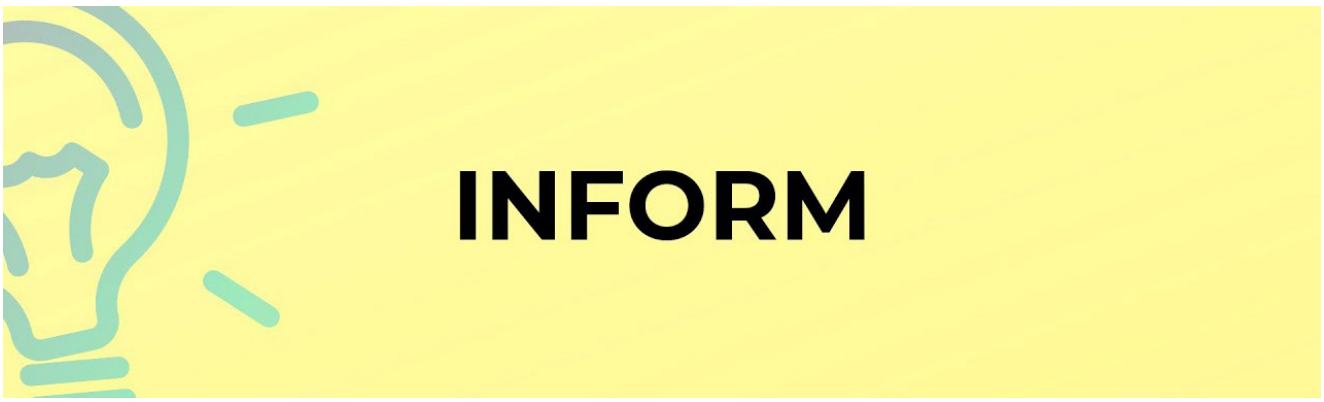
Stakeholder coordination during this phase will focus on engaging homeowners' associations (HOAs), local businesses, schools, and emergency responders to identify specific needs and concerns. ISC will also leverage the City of Fort Lauderdale's communication channels, such as community newsletters, city social media accounts, and website postings, to ensure widespread dissemination of project information. Interactive virtual tools, such as online surveys and interactive project maps, will further enhance public participation and enable residents to provide input efficiently. These efforts will ensure that design considerations align with community expectations and minimize disruptions once construction begins.

Construction Phase Outreach

As the project transitions to the construction phase, ISC will shift its focus to ensuring clear and timely communication about construction impacts, lane closures, detours, and schedule updates. A proactive communication strategy will include issuing construction notifications at least two weeks before major traffic changes, supported by electronic variable message signs (VMS) at key locations. Direct mail and door-to-door outreach will be utilized to reach residents and businesses most affected by construction activities.

Collaboration with the City of Fort Lauderdale will remain integral during this phase. ISC will work closely with city officials and departments to coordinate messaging and ensure timely responses to public inquiries. The city's emergency management and transportation departments will be engaged to mitigate disruptions and provide real-time updates to residents.

To enhance public engagement, ISC will integrate innovative outreach methods, including real-time construction updates via SMS text alerts and mobile notifications. Social media and geotargeted digital ads will efficiently disseminate construction updates, while drone video and photography will provide visual documentation of project progress. Interactive virtual engagement tools will continue to be available for public feedback, and a designated community liaison will be available to address concerns and provide direct communication between the project team, the City of Fort Lauderdale, and the public.



Best Practices and Ongoing Engagement

To ensure transparency and public trust throughout the project, ISC will implement best practices for public engagement at key milestones. Hybrid meeting formats will allow for both in-person and virtual participation, ensuring accessibility for all stakeholders. Multilingual communication will remain a priority, with translated materials and interpreters available at public meetings. ISC will also maintain multiple feedback mechanisms, including online forms, phone hotlines, and in-person events, to encourage ongoing public input.

ISC suggests coordinating regularly with the City of Fort Lauderdale to ensure messaging consistency, avoid communication gaps, and integrate project updates into the city's outreach initiatives. Throughout both the design and construction phases, ISC will document and report all outreach activities, public comments, and responses to ensure accountability. Regular updates will be shared through the project website, city communication platforms, and navigation apps to keep the community informed of traffic impacts and progress.

ISC's comprehensive public involvement approach will ensure that affected communities remain engaged and well-informed from project planning through completion. By leveraging a combination of traditional and innovative outreach methods and working in close collaboration with the City of Fort Lauderdale, ISC will effectively communicate project impacts, mitigate disruptions, and foster a strong, cooperative relationship between ISC, the project team, city officials, and the community.

Project Management

CHA's PM approach begins with the organization of our team. With over 11 years of experience, **Adrian Alfonso, PE, will be the main point of contact for the City of Fort Lauderdale**. Adrian has overseen and managed the N. Miami Ave design-build bridge replacement, the City of Miami Seawall replacement at eight locations, and has multiple years of experience managing bridge and structures projects. We will use an effective management approach to distribute and clearly define the responsibilities of the project team, with the Project Manager and discipline leaders coordinating and working together to meet the project deliverables and schedules. The technical design and plans development are managed by the discipline leader of each specialty, including quality checks of the final deliverable. This approach is outlined by our internal PM certification process and is very efficient in distributing the responsibilities to the accountable project team members.

A collaborative environment is provided using cloud-based systems, such as ProjectWise and Teams, to share project files and communicate with our teaming partners, clients, regulatory/utility agencies, and the public. The project schedule will be discussed at the kick-off meeting and updated regularly at the submittal stages.

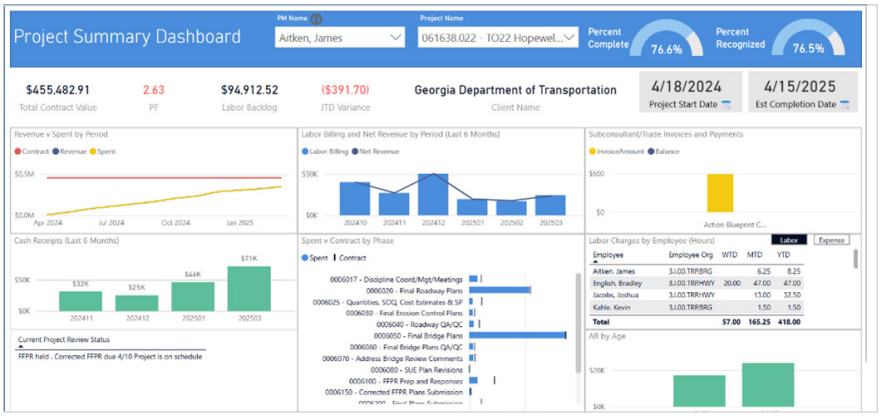
This proven approach makes it easy for managers to oversee the project scope and for the CHA leadership to monitor the project status at all levels, from the individual technical design team to the overall progress of the project.

CHA has developed a Project Management Process to Consistently Deliver Successful Projects and Client Satisfaction

- **LISTEN** To clearly understand expectations
- **RESPOND** To inquiries quickly and efficiently
- **DOCUMENT** Meetings and communications accurately
- **REPORT** Project progress with clarity

Project Controls

Project Controls include the management of budgets, schedules, and resources. CHA PMs use our PM Dashboard tool in Power BI to monitor project budgets, project schedules, and overall project financial health. The ability to monitor schedules and budgets in real-time allows the PM to make decisions quickly so information can be accessed and shared with the team. Information is linked to our accounting system and provides real-time updates on each project, including invoices, sub-consultant payments, and weekly labor hours and charges. This also allows the PM and discipline leads to review resource needs to meet upcoming project milestones and deliverables.

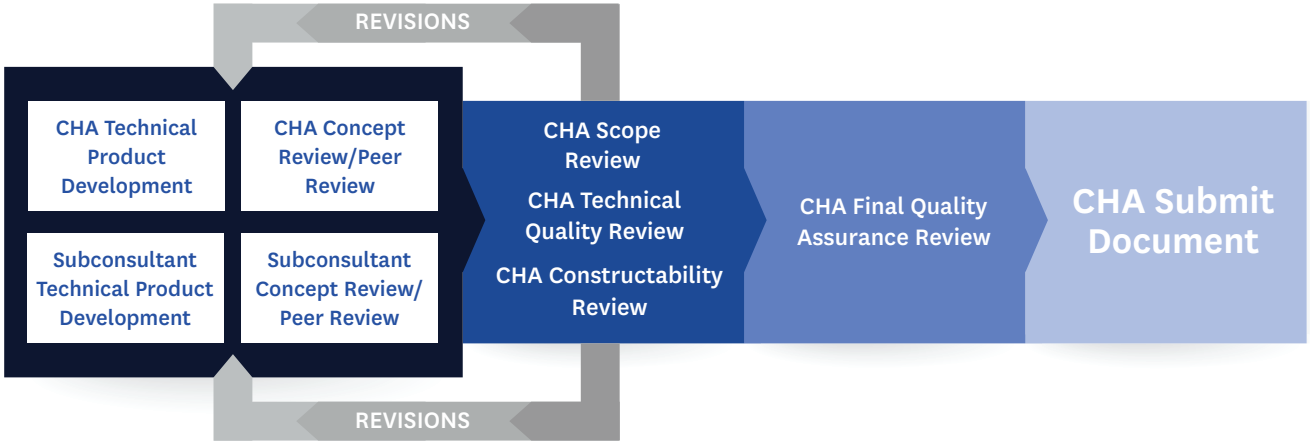


CHA's Project Manager Dashboard Tool for managing budgets, schedules and resources.

Quality Control (QA/QC)

At CHA, we are committed to planning, executing, and delivering quality. **Mike Culmo, PE**, will lead the QA/QC for bridges and structures, while **Eithel Sierra, PE,** will oversee roadway QA/QC. All subconsultants are required to adhere to CHA's QC Plan CHA will deliver quality work to the City of Fort Lauderdale by clearly defining critical project team roles and responsibilities, instituting high standards of ownership and accountability, and leveraging technology to optimize team coordination and collaboration. CHA's Quality Management Systems (QMS) fortify the traditional **"Red, Yellow, Green"** quality control and quality assurance processes with the attributes of Bluebeam technology. As a cloud-based collaboration tool, Bluebeam efficiently drives and documents the quality review and resolution process, not only by supporting discipline-specific reviews during design development but also by improving the efficiency of coordinated multi-discipline reviews before milestone delivery.

As a value-added service, CHA also designates a senior professional to perform independent peer reviews and provide consultation for constructability and risk management/mitigation. CHA's chief engineer, Tom Karis, PE, will have a vested role in project quality by inspiring the team to perform at the highest levels of quality consistency, predictability, and repeatability. CHA will not advance or submit any work product or deliverable until it has been through a rigorous quality review process.



Current and Projected Workload

Our proposed key personnel are available to undertake this assignment successfully. At CHA, current and projected workloads are analyzed weekly to allocate resources appropriately. As projects are initiated, the necessary technical and support resources are allocated to meet or exceed all project requirements. With staff utilization ranging from 40-100%, we maintain an average uncommitted staff effort of 70%.

CHA's local structures and bridge group currently handles a mixed workload of bridge design, miscellaneous structures design, and post-design services. The South Florida structures team will prioritize the design and replacement of the City of Fort Lauderdale Bridges as one of its main engineering projects. Most of our larger projects are currently in post-design services and nearing the end of construction.

CHA is committed to providing the City of Fort Lauderdale with the necessary resources to complete the bridge replacements effectively and in a timely manner, thereby improving the infrastructure for the community. Our local team is backed by over 100 structural engineers nation-wide, ensuring we can complete any assignment on this contract within time and budget. We are here to support the City of Fort Lauderdale and act as an extension of your staff.

Having provided engineering services to municipal governments for over 72 years, CHA recognizes the pressures municipal officials confront, including budgets and project schedules. We will work collaboratively with the city as a true partner to have sufficient staff, equipment, and systems available to meet or exceed your expectations with our deliverables. **With a bench strength of over 1,900 professionals, we do not foresee any issues meeting deadlines.**

Our team is well-equipped and has the resources available to handle any upcoming tasks related to this City of Fort Lauderdale contract. Please see below a list of our local structures team's active major projects, along with their estimated completion dates:

PROJECT	AGENCY	BEGIN DATE	EST. END DATE	BUDGET
Opa-locka Executive Airport Proposed Bridge and Culvert Design	Miami-Dade County WASD	2018	On-Going Est. 2026	$270,000
North Miami Avenue Bridge Replacement	Miami-Dade County DTPW	2018	2025	$400,000
Traffic Operations Push Button Miscellaneous Structures Support	FDOT District 6	2023	On-Going Est. 2026	$150,000
Miami International Airport Bridge 874635 Rehabilitation Professional Services	Miami-Dade County Aviation Department (MDAD)	2021	On-Going Est. 2025	$400,000
City of Miami Beach Seawall Replacement (Seawalls 4, 5, and 6)	City of Miami Beach	2022	On-Going Est. 2025	$281,000
City of Miami Seawall Rehabilitation and Replacement at 8 Locations	City of Miami	2024	On-Going Est. 2026	$442,000
Okeechobee Road Reconstruction	FDOT District 6	2016	On-Going Est. 2025	$9.2M

Preliminary Schedule for Bridge Replacement

ID	Task Name	Duration	Start	Finish
1	**RFQ 423 Bridge Design and Miscellaneous Structures Engineering Services - Proposed Schedule**	**635 days**	**Mon 5/12/25**	**Fri 2/5/27**
2	**Bridge Replacement Design**	**635 days**	**Mon 5/12/25**	**Fri 2/5/27**
3	Issue Design NTP	1 day	Mon 5/12/25	Mon 5/12/25
4	Preliminary Investigations, Field Reviews, Technical Meetings	60 days	Tue 5/13/25	Fri 7/11/25
5	Topographical Survey	60 days	Tue 5/13/25	Fri 7/11/25
6	Geotechnical Investigation and Report	60 days	Tue 5/13/25	Fri 7/11/25
7	Benthic / Resource Survey and Report	60 days	Tue 5/13/25	Fri 7/11/25
8	Utility / SUE	60 days	Tue 5/13/25	Fri 7/11/25
9	**Bridge Development Report and 30% Submittal**	**135 days**	**Thu 6/12/25**	**Fri 10/24/25**
10	Develop Report and 30% Plans	90 days	Thu 6/12/25	Tue 9/9/25
11	QC Review	7 days	Wed 9/10/25	Tue 9/16/25
12	Submittal of Report and 30% Plans	1 day	Wed 9/17/25	Wed 9/17/25
13	City of Fort Lauderdale Review	30 days	Thu 9/18/25	Fri 10/17/25
14	Review and Respond to City Comments	5 days	Mon 10/20/25	Fri 10/24/25
15	**60% Submittal / Permit Submittal**	**254 days**	**Mon 10/20/25**	**Tue 6/30/26**
16	Develop 60% Plans and Calculations	89 days	Mon 10/20/25	Fri 1/16/26
17	QC Review	5 days	Mon 1/19/26	Fri 1/23/26
18	60% Submittal	1 day	Mon 1/26/26	Mon 1/26/26
19	City of Fort Lauderdale Review	30 days	Tue 1/27/26	Wed 2/25/26
20	Review and Respond to City Comments	5 days	Thu 2/26/26	Mon 3/2/26
21	SFWMD Environmental Permit	120 days	Tue 3/3/26	Tue 6/30/26
22	SFWMD Submerged Lands Permit	120 days	Tue 3/3/26	Tue 6/30/26
23	Broward County ERP Permit	120 days	Tue 3/3/26	Tue 6/30/26
24	Broward County ROW Permit	120 days	Tue 3/3/26	Tue 6/30/26
25	USACE Section 404 / Section 10 Permit	120 days	Tue 3/3/26	Tue 6/30/26
26	Fort Lauderdale ROW Permit	120 days	Tue 3/3/26	Tue 6/30/26
27	US Coast Guard Permit	120 days	Tue 3/3/26	Tue 6/30/26
28	Review and Respond to Permitting Comments	61 days	Fri 5/1/26	Tue 6/30/26
29	**90% Submittal**	**133 days**	**Fri 5/1/26**	**Thu 9/10/26**
30	Develop 90% Plans and Calculations	90 days	Fri 5/1/26	Wed 7/29/26
31	QC Review	7 days	Thu 7/30/26	Wed 8/5/26
32	90% Submittal	1 day	Thu 8/6/26	Thu 8/6/26
33	City of Fort Lauderdale Review	30 days	Fri 8/7/26	Sat 9/5/26
34	Review and Respond to City Comments	5 days	Sun 9/6/26	Thu 9/10/26
35	**100% Submittal**	**89 days**	**Fri 9/11/26**	**Tue 12/8/26**
36	Develop 100% Plans and Calculations	40 days	Fri 9/11/26	Tue 10/20/26
37	QC Review	5 days	Fri 10/23/26	Tue 10/27/26
38	100% Submittal	1 day	Fri 10/30/26	Fri 10/30/26
39	City of Fort Lauderdale Review	30 days	Mon 11/2/26	Tue 12/1/26
40	Review and Respond to City Comments	7 days	Wed 12/2/26	Tue 12/8/26
41	**Preparation of Bid Package and Construction Submittal**	**59 days**	**Wed 12/9/26**	**Fri 2/5/27**
42	Prepare Bid Set and Construction Documents	41 days	Wed 12/9/26	Mon 1/18/27
43	Bid Package Submittal	1 day	Thu 1/21/27	Thu 1/21/27
44	City of Fort Lauderdale Review	15 days	Fri 1/22/27	Fri 2/5/27
45	Design Completion	1 day	Fri 2/5/27	Fri 2/5/27

Page 1

TAB 5 - REFERENCES

All references shall include owner, address, contact name, phone number, email and the contract value. References shall not include the City of Fort Lauderdale. A minimum of three (3) references shall be provided. Refer to Section 2.8 Minimum Qualifications.

Note: Do not include proposed team members or parent/subsidiary companies as references in your submittals.

A. PROPOSERS NAME: CHA Consulting, Inc.

SPECIFIC EXPERIENCE NO.1

Name of firm to be contacted: FDOT District 6

Address: 1000 NW 111th Avenue, Miami, FL 331721

Contact Person: Baoying Wang, PE

Phone No: (___) (305) 470-5211

Contact E-Mail Address: BaoYing.Wang@dot.state.fl.us

Project Performance Period: 03/16 to 03/21
Dates should be in mm/yy format

Project Name : SR 25/Okeechobee Road Reconstruction

Location of Project: Miami-Dade County, FL

Description of the overall scope:
Design of bridges for grade separation of Okeechobee Road over NW 116th Way with a T-bridge intersection for SE and NW connections to facilitate the left turn lane from southbound NW 116th Way to eastbound Okeechobee Road. Additionally, the project will widen smaller bridges crossing the Miami (C-6) Canal at NW 121st Avenue and NW 116th Way. The Frontage Road, from MP 6.310 to MP 8.146, will undergo complete reconstruction and realignment. Besides the roadway-specific work, the project's scope encompasses the installation of five new signals, replacement of five existing signals, and new ITS, drainage, and lighting systems.

Description of work that was self-performed by proposer:

CHA was responsible for all design project management and coordination efforts. CHA developed the roadway geometry and final plans and led the structure concept and final design for four bridges, drainage, ITS, lighting, utility coordination, and miscellaneous structures. This completed project provides significant traffic operations and safety improvements for the interchange and thesurrounding arterial network.

Original Project Budget: $4.9M Project Final Cost: $9.2M

*Please note that the client added significant scope items, leading to an increase in the final cost of our professional services.

SPECIFIC EXPERIENCE NO.2

Address: City of Miami Beach - 1700 Convention Center Dr, Miami Beach, FL 33139

Contact Person: Giancarlo Peña, P.E., CGC

Phone No: (___) (305) 673-7000

Contact E-Mail Address: GiancarloPena@miamibeachfl.gov

Project Performance Period: 02/22 to On-Going
Dates should be in mm/yy format

Project Name : City of Miami Beach Seawall Improvement

Location of Project: Miami Beach, FL

Description of the overall scope:
This project consists of replacing three existing seawalls with a new post and panel seawall system along Collins Avenue between 23rd Street and 25th Street on the Intracoastal side of Miami Beach. The total length of seawall improvements across the three locations is approximately 470 feet.

Description of work that was self-performed by Proposer:
CHA responsibilities include conducting a detailed site assessment, understanding client needs, guiding through the permitting process, presenting design options, preparing engineering specifications, incorporating measures to protect coastal ecosystems, ensuring the project stays on schedule and within budget, maintaining quality control, conducting regular inspections, and ensuring the seawall remains effective in mitigating sea level rise and protecting coastal ecosystems.

Original Project Budget: $281,090 Project Final Cost: NA

SPECIFIC EXPERIENCE NO.3

Address: Greater Miami Expressway Agency (GMX) - 3790 NW 21st St, Miami, FL 33142

Contact Person: Gil Portela, PE, Project Manager

Phone No: (___) (305) 551-8100

Contact E-Mail Address: gportela@HNTB.com

Project Performance Period: 05/12 to 07/20
Dates should be in mm/yy format

Project Name : NW 87th Avenue Interchange Reconstruction

Location of Project: Miami, FL

Description of the overall scope:

Complete reconstruction of the SR 836/Dolphin Expressway and NW 87th Avenue Interchange. The main purpose of the scope of the project was to improve traffic operations and safety of the SR 836 and NW 87th Avenue Interchange by reconstructing the entrance and exit ramps and widening NW 12th Street between NW 87th and NW 82nd Avenues. A significant improvement is the addition of a new flyover entrance ramp that provides a direct connection from westbound NW 12th Street to westbound SR 836. The new entrance ramp substantially reduced congestion at the intersection of NW 87th Avenue and NW 12th Street. The project also included the construction of sound barriers, signing and pavement markings, lighting, drainage, utility coordination, Intelligent Transportation System (ITS) infrastructure and landscaping. The project also extended the Kitty Roedel Bike Path provided on the SR 836 right of way.

Description of work that was self-performed by Proposer:

CHA responsibilities encompassed: Designing roadway geometry and finalizing plans, leading the concept and final design processes for four bridges, overseeing drainage, ITS, lighting, and utility coordination, as well as the creation of miscellaneous structures, executing signalization, signing and pavement markings, and developing maintenance of traffic plans.

Original Project Budget: $5.5M Project Final Cost: $8.6M

*Please note that the client added significant scope items, leading to an increase in the final cost of our professional services.

TAB 6 - MINORITY/ WOMEN (M/WBE) PARTICIPATION

6. MINORITY/WOMEN (M/WBE) PARTICIPATION

While our firm is not currently a certified minority business enterprise (M/WBE), we are fully committed to supporting the objectives of the Florida Small and Minority Business Assistance Act of 1985 and meeting M/WBE procurement goals under Florida Statutes 287.09451. In the past, we have meet and exceed the goals for M/WBE participation in our contracts, and we plan to keep doing so, to ensure that we contribute positively to the state's M/WBE procurement targets.

For this contract, we have partnered with **Infinite Source Communications Group, Inc., a Minority Women-Owned Business Enterprise (M/WBE)**, as well as LARS Engineering, Inc., and Tierra South Florida, Inc., both Disadvantaged Business Enterprises (DBE). This collaboration aims to promote opportunities for minority firms wherever possible.

CHA has been and will continue to be, implementing our Equal Business Opportunity (EBO) Plan for teaming with minority firms in a continuous effort to achieve contracting diversity. For this contract, the following SBE firms have joined our team. We remain dedicated to promoting diversity and inclusiveness within our operations and through our partnerships.

TAB 7 - SUBCONSULTANTS

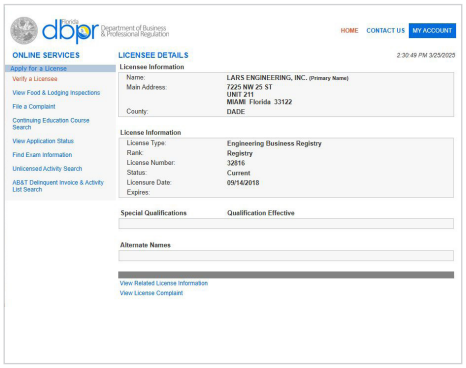
Proposed Subconsultants

FIRM	ROLE	FIRM OVERVIEW
LARS Engineering, Inc **LARS Engineering, Inc.** **Status:** DBE/SBE	Bridge Inspection	LARS is a multidiscipline engineering consulting firm located in Miami, Florida. It was founded in 2018. LARS provides general engineering services including In-Service Bridge and Ancillary Structures Inspection, Highway Design, Stormwater Management, Structural Engineering and Transportation Engineering. For the past decade, LARS' engineers have successfully completed several transportation projects state-wide. LARS has the available resources and expertise to provide an excellent service and quick response to their clients. They are fully committed to preserve public safety. Client's satisfaction is LARS' philosophy.
CTS Engineering **CTS Engineering, Inc.** **Status:** DBE	Surveying, Mapping and SUE	CTS Engineering, Inc., founded in 2009 in South Florida, has grown to seven offices and over 100 professionals. As a DBE, they excel in geospatial services, 3D laser scanning, LiDAR, and subsurface utility engineering. Their multidisciplinary team handles complex projects efficiently, with a strong focus on sustainability and rigorous quality control. CTS offers a wide range of services, including transportation design, traffic engineering, stormwater drainage, site development, surveying, GIS, and economic analysis
McFARLAND JOHNSON **McFarland Johnson, Inc.**	Environmental	McFarland-Johnson, Inc., founded in 1946, is a fully employee-owned, multi-disciplinary firm renowned nationwide for its comprehensive planning, environmental consulting, technology solutions, and professional engineering services. They offer a wide range of environmental services, including surveys, inspections, permitting, remediation, and regulatory coordination. They collaborate with various regulatory agencies in Florida and manage federalized projects under NEPA. They provide structural, foundation, bridge design, and inspection services, with specialized certifications in bridge and tunnel safety inspections. They play a key role in the Port of Miami Tunnel project, overseeing operations and maintenance.
TSFG **Tierra South Florida, Inc.** **Status:** DBE/SBE	Geotechnical	TSFGeo is a consulting firm specializing in Geotechnical Engineering, Construction Materials Testing, and Inspections. They offer services like test borings, engineering analyses, AutoCAD/MicroStation plans, laboratory soils testing, and construction engineering inspection. Certified as a DBE and SBE, TSFGeo has offices in West Palm Beach, Miami Lakes, Tampa, and Orlando, Florida.
INFINITE SOURCE COMMUNICATIONS GROUP **Infinite Source Communications Group, Inc.** **Status:** M/WBE/DBE/SBE	Public Involvement	ISC is a full-service public relations and marketing firm founded in 2009. Based in Miami, Florida, ISC specializes in providing communication services to a diverse range of industries including public agencies and private companies. The firm is known for its adaptability, creativity, and expertise, delivering high-quality support to clients both locally and nationwide. They have extensive experience conducting outreach activities for infrastructure projects in South florida, and are prepared to work as an extension of staff to the City of Fort Lauderdale on this contract.

Subconsultant Business Licenses & Certifications

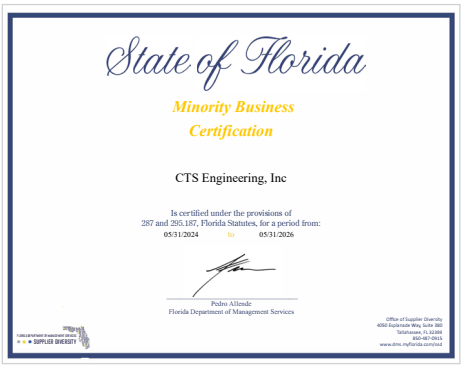
LARS Engineering, Inc.

Florida Unified Certification Program
Disadvantaged Business Enterprise (DBE)
Certificate of Eligibility
LARS ENGINEERING INC
MEETS THE REQUIREMENTS OF 49 CFR, PART 26
APPROVED NAICS CODES:
541330, 541340, 541350
Samuel Febres (Sammy)
DBE & Small Business Development Manager
Florida Department of Transportation

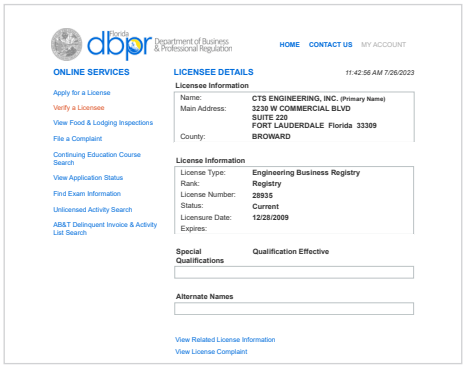


dbpr Department of Business & Professional Regulation
ONLINE SERVICES
LICENSEE DETAILS
Licensee Information
Name: LARS ENGINEERING, INC. (Primary Name)
Main Address: 7225 NW 25 ST UNIT 211 MIAMI Florida 33122
County: DADE
License Information
License Type: Engineering Business Registry
Rank: Registry
License Number: 32816
Status: Current
Licensure Date: 09/14/2018
Expires:
Special Qualifications: Qualification Effective
Alternate Names

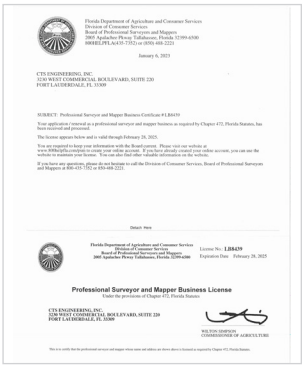
CTS Engineering, Inc.



State of Florida
Minority Business Certification
CTS Engineering, Inc
Is certified under the provisions of 287 and 295.187, Florida Statutes, for a period from:
05/31/2024 to 05/31/2026
Pedro Allende
Florida Department of Management Services



dbpr Department of Business & Professional Regulation
ONLINE SERVICES
LICENSEE DETAILS
Licensee Information
Name: CTS ENGINEERING, INC. (Primary Name)
Main Address: 3230 W COMMERCIAL BLVD SUITE 220 FORT LAUDERDALE Florida 33309
County: BROWARD
License Information
License Type: Engineering Business Registry
Rank: Registry
License Number: 28935
Status: Current
Licensure Date: 12/28/2009
Expires:
Special Qualifications: Qualification Effective
Alternate Names



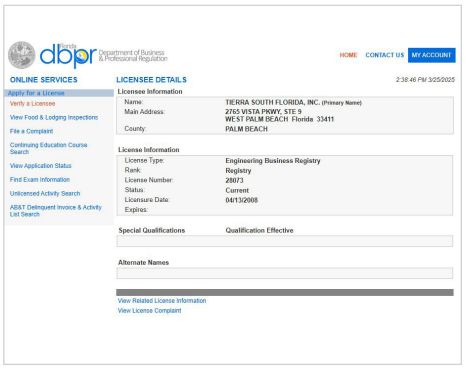
Professional Surveyor and Mapper Business License

McFarland-Johnson, Inc.

THE OFFICIAL SITE OF THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION
dbpr Department of Business & Professional Regulation
ONLINE SERVICES
LICENSEE DETAILS
Licensee Information
Name: MCFARLAND-JOHNSON,INC. (Primary Name)
Main Address: MCFARLAND-JOHNSON,INC. (DBA Name) 49 COURT STREET, SUITE 240 BINGHAMTON New York 13901
License Information
License Type: Engineering Business Registry
Rank: Registry
License Number: 33800
Status: Current
Licensure Date: 01/07/2020
Expires:
Special Qualifications: Qualification Effective
Alternate Names

State of Florida
Department of State
I certify from the records of this office that MCFARLAND-JOHNSON, INC. is a New York corporation authorized to transact business in the State of Florida, qualified on May 6, 1969.
The document number of this corporation is 822745.
I further certify that said corporation has paid all fees due this office through December 31, 2025, that its most recent annual report/uniform business report was filed on January 6, 2025, 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 Sixth day of January, 2025
Secretary of State

Tierra South Florida, Inc.



dbpr Department of Business & Professional Regulation
ONLINE SERVICES
LICENSEE DETAILS
Licensee Information
Name: TIERRA SOUTH FLORIDA, INC. (Primary Name)
Main Address: 2765 VISTA PKWY, STE 9 WEST PALM BEACH Florida 33411
County: PALM BEACH
License Information
License Type: Engineering Business Registry
Rank: Registry
License Number: 28073
Status: Current
Licensure Date: 04/13/2006
Expires:
Special Qualifications: Qualification Effective
Alternate Names

Infinite Source Communications Gorup, Inc.

State of Florida
Woman & Minority Business Certification
Infinite Source Communications Group, LLC
Is certified under the provisions of 287 and 295.187, Florida Statutes, for a period from:
08/29/2024 to 08/29/2026
Pedro Allende
Florida Department of Management Services

Women & Minority Business Certification (M/WBE)

TAB 8 - REQUIRED FORMS

Sample Insurance Certificate - Coral Springs Office

ACORD®

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 7/30/2024

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 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 Ames & Gough 859 Willard Street Suite 320 Quincy MA 02169	**CONTACT NAME:** **PHONE (A/C, No, Ext):** 617-328-6555 **FAX (A/C, No):** 617-328-6555 **E-MAIL ADDRESS:** boston@amesgough.com
INSURED CHAHOLDING CHA Consulting, Inc. 3 Winners Circle Albany, NY 12205	**INSURER(S) AFFORDING COVERAGE** — **NAIC #** **INSURER A :** Phoenix Insurance Company A++, XV — 25623 **INSURER B :** Travelers Indemnity Company, A++, XV — 25658 **INSURER C :** Berkshire Hathaway Specialty Insurance Company — 22276 **INSURER D :** Travelers Indemnity Co. of America A++, XV — 25666 **INSURER E :** **INSURER F :**

COVERAGES **CERTIFICATE NUMBER:** 1434839594 **REVISION NUMBER:**

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X **COMMERCIAL GENERAL LIABILITY** CLAIMS-MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: [X] POLICY [X] PRO-JECT [X] LOC OTHER:			630-7E170386	8/1/2024	8/1/2025	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG $	$ 1,000,000 $ 500,000 $ 15,000 $ 1,000,000 $ 2,000,000 $ 2,000,000 $
D	**AUTOMOBILE LIABILITY** X ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS X HIRED AUTOS X NON-OWNED AUTOS			810-4S407410	8/1/2024	8/1/2025	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) $	$ 1,000,000 $ $ $ $
B	X **UMBRELLA LIAB** X OCCUR **EXCESS LIAB** CLAIMS-MADE DED X RETENTION $ 10,000			CUP-4S539836	8/1/2024	8/1/2025	EACH OCCURRENCE AGGREGATE $	$ 15,000,000 $ 15,000,000 $
A	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N: N If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		UB-4S429322	8/1/2024	8/1/2025	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ 1,000,000 $ 1,000,000 $ 1,000,000
C	Professional Liability & Pollution			47-EPP-308429-06	8/1/2024	8/1/2025	Per Claim Limit Aggregate Limit	$6,000,000 $10,000,000

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

All coverages are in accordance with the policy terms and conditions. If AI box is checked, GL Endorsement Form #CGD604, Auto AI #CAT499 to the extent provided therein applies and all coverages are in accordance with the policy terms and conditions.
Evidence of Coverage The A&E Professional Liability policy listed above includes Pollution Liability coverage.

CERTIFICATE HOLDER

CHA Consulting, Inc. - Coral Springs, FL
4700 Riverside Drive, Suite 110
Coral Springs FL 33067
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

Jared Maxwell

Sample Insurance Certificate - Doral Office

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 7/30/2024

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 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 Ames & Gough 859 Willard Street Suite 320 Quincy MA 02169	**CONTACT NAME:** **PHONE (A/C, No, Ext):** 617-328-6555 **FAX (A/C, No):** 617-328-6555 **E-MAIL ADDRESS:** boston@amesgough.com
INSURED CHAHOLDING CHA Consulting, Inc. 3 Winners Circle Albany, NY 12205	**INSURER(S) AFFORDING COVERAGE** / **NAIC #** **INSURER A :** Phoenix Insurance Company A++, XV — 25623 **INSURER B :** Travelers Indemnity Company, A++, XV — 25658 **INSURER C :** Berkshire Hathaway Specialty Insurance Company — 22276 **INSURER D :** Travelers Indemnity Co. of America A++, XV — 25666 **INSURER E :** **INSURER F :**

COVERAGES **CERTIFICATE NUMBER:** 2072525989 **REVISION NUMBER:**

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X **COMMERCIAL GENERAL LIABILITY** CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY X PRO-JECT X LOC OTHER:			630-7E170386	8/1/2024	8/1/2025	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG $	$ 1,000,000 $ 500,000 $ 15,000 $ 1,000,000 $ 2,000,000 $ 2,000,000 $
D	**AUTOMOBILE LIABILITY** X ANY AUTO ALL OWNED AUTOS / SCHEDULED AUTOS X HIRED AUTOS / X NON-OWNED AUTOS			810-4S407410	8/1/2024	8/1/2025	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) $	$ 1,000,000 $ $ $ $
B	X **UMBRELLA LIAB** X OCCUR **EXCESS LIAB** CLAIMS-MADE DED X RETENTION $ 10,000			CUP-4S539836	8/1/2024	8/1/2025	EACH OCCURRENCE AGGREGATE $	$ 15,000,000 $ 15,000,000 $
A	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** Y / N ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? N **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		UB-4S429322	8/1/2024	8/1/2025	X PER STATUTE / OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 1,000,000 $ 1,000,000 $ 1,000,000
C	Professional Liability & Pollution			47-EPP-308429-06	8/1/2024	8/1/2025	Per Claim Limit Aggregate Limit	$6,000,000 $10,000,000

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

All coverages are in accordance with the policy terms and conditions. If AI box is checked, GL Endorsement Form #CGD604, Auto AI #CAT499 to the extent provided therein applies and all coverages are in accordance with the policy terms and conditions.
The A&E Professional Liability policy listed above includes Pollution Liability coverage. Evidence of Coverage

CERTIFICATE HOLDER

CHA Consulting, Inc. - Doral , FL
8935 Northwest 35th Lane
Suite 200
Doral FL 33172
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

Jared Maxwell

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	RELATIONSHIPS

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

Assistant Secretary
Title

Thomas D. Titsworth
Name (Printed)

3/10/2025
Date

Rev 09-2022

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

Thomas D. Titsworth, Assistant Secretary
Print Name and Title

3/10/2025
Date

Forms Non-ISO 09/2022

E-VERIFY AFFIRMATION STATEMENT

RFP/Bid /Contract No: RFQ/EVENT# 423

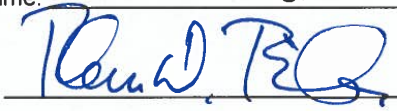
Project Description: Bridge Design and Miscellaneous Structural Engineering Services, Continuing Services Contract

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: CHA Consulting, Inc.

Authorized Company Person's Signature: 

Authorized Company Person's Title: Assistant Secretary

Date: 3/10/2025

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

CHA Consulting, Inc.
Company Name

Thomas D. Titsworth
Name (Printed)


Signature

Assistant Secretary
Title

3/10/2025
Date

Rev. 09/2022_lp

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) CHA Consulting, Inc. EIN (Optional): 16-0966259

Address: 8935 NW 35th Ln, Suite 200

City: Miami State: FL Zip: 33172

Telephone No.: (305) 592-7283 FAX No.: N/A Email: Aalfonso@chasolutions.com

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

Total Bid Discount **(section 1.05 of General Conditions):** _____

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
1	02/27/25						
2	02/27/25						

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.

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:

Thomas D. Titsworth
Name (printed)

Signature

3/10/2025
Date

Assistant Secretary
Title

revised 09-2022

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)

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

Name: Thomas D. Titsworth Title: Assistant Secretary Entity: CHA Consulting, Inc.

Signature: _____ Date: 3/10/2025

NOTARY PUBLIC ACKNOWEDGEMENT SECTION

STATE OF New York
COUTY OF Albany

The foregoing instrument was acknowledged before me, by means of ❑ physical presence or ❑ online notarization, this 10th day of March 20 25, by Thomas D. Titsworth, as Assistant Secretary for CHA Consulting, Inc., who is personally known to me or who has produced N/A (Personally Known) as identification.

JONATHAN HOWARD BARD
NOTARY PUBLIC, STATE OF NEW YORK
Registration No. 02BA6359467
Qualified in Dutchess County
Commission Expires May, 30, 2025

Notary Public Signature: _____ (Notary Seal)

Print Name: Jonathan H. Bard My commission expires: 5/30/2025

APPENDIX

Proposal Submission Authorization

CORPORATE RESOLUTION

I, Gregory S. Corso, CEO of CHA Consulting, Inc., a corporation organized and existing under the laws of the State of New York, hereby certify that the following resolution was duly adopted by the Board of Directors of said corporation.

RESOLVED, that each of the individuals listed below are hereby authorized to negotiate, make, execute, and approve on behalf of the corporation, and to bind the corporation with respect to, any and all proposal forms and affidavits, contracts, and other business transactions with the City of Fort Lauderdale (Florida) and any of its departments and agencies, and all amendments, statements, certifications and other documents required in connection with such proposals, contracts or transactions or otherwise related thereto:

Authorized Signatories	Title
Phil Stevens	Executive Vice President
Michael A. Platt	Secretary
Thomas D. Titsworth	Assistant Secretary
Timothy D. George	Senior Vice President
Bryan Busch	Senior Vice President
Jonathan H. Bard	Vice President
Miranda Brito	Market Development Specialist

AND I DO FURTHER CERTIFY that the resolution set forth above has not been in any way altered, amended, revoked, or repealed and is now in full force and effect.

IN WITNESS WHEREOF, I hereunto set my hand this 24th day of March, 2025.

Gregory S. Corso, CEO
CHA Consulting, Inc.

PREPARED FOR:

City of Fort Lauderdale
101 NE 3rd Avenue, Suite 1650
Fort Lauderdale, FL 33301

FOR MORE INFORMATION, PLEASE CONTACT:

Adrian Alfonso, PE
Project Manager
T: (786) 257-3073
E: Adalfonso@chasolutions.com