

Contract Payment Method

Sample Insurance Certificate

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Executive Summary

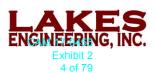
Lakes Engineering, Inc. (Lakes) is pleased to submit our Statement of Qualifications (SOQ) that demonstrates our ability to provide design, bidding, and construction phase engineering services as described in the Request for Qualifications (RFQ) for the replacement of the South Ocean Drive Bridge (#865775) over Marion River constructed in 1952. We are committed to developing engineering solutions that consider site-specific constructability constraints, while adhering to all required standards (Florida Department of Transportation (FDOT), City, and County). Lakes recognizes that while this bridge replacement project can be viewed as a "standard" design, bid, and construction project, it also furthers the advancement of the City's goals and objectives as they relate to the City's Five Year Strategic Plan, 2060 Climate Resilience Plan, Comprehensive Plan Coastal Management Element, and the Adaptation Action Areas identified in the Community Investment Plan (Harbor Inlet).

Lakes Engineering is a multi-disciplined engineering firm that is committed to providing the highest quality integrated engineered solutions for public infrastructure projects. We employ highly skilled, experienced, trained, and committed team members. Our Firm utilizes the most current technology available to develop and implement a tailored project delivery methodology that is designed to accomplish the objectives established by our Clients. Lakes has a noteworthy portfolio of projects that includes bridges (major/minor, steel/concrete, historic, etc.), pedestrian overpasses, miscellaneous structures (signal mast arms, street light poles, retaining walls, sign structures, culverts, etc.), roadways (arterial, highway, intersections, sidewalks/crosswalks, signalization, etc.), and water works (water/wastewater systems, pressure/gravity, lift/pump stations, stormwater, etc.). We provide a complete array of other professional services to our clients, such as value engineering, load rating, inspection, condition assessment, construction management, and inspection. Our analytical capabilities include flow and capacity for drainage systems, hydraulics and scouring analysis, traffic studies, and PD&E studies, among others. Our success on past projects has allowed our Firm to establish well-earned, continuing relationships with senior managers for regional, state, and local governments, regulatory agencies, and contractors.

As a Principal of our Firm, Mr. Eugene Ochoa, P.E. will take a hands-on approach to this Project and will be the single point of contact for City staff. In addition to his role as the Project Manager, Eugene will provide the Team with the executive leadership required to ensure continuity of execution for each element of the project. Mr. Ochoa will manage this contract from our Miami Office located at 4868 SW 72nd Avenue, Miami, Florida, 33155. Our Senior Structural Engineer, Ms. Kathy Lajo, P.E., Senior Roadway/Drainage Engineer, Mr. Christopher Meszler, P.E., Quality Assurance/Control Engineer, Mr. Esen Tokay, P.E., Senior Engineer, Mr. Romesh Valdez, P.E., and Lead Bridge Inspector, Mr. Jorge Vazquez, CBI will all play pivotal roles in the success of this Project and will work from our Miami Office. The Lakes Team, as proposed in this SOQ, includes subconsultants that bring the past project experiences and qualifications we believe will enhance the services our Team will provide to the City.

E Sciences, Incorporated (E Sciences) is an environmental, engineering and ecological consulting firm providing a wide range of services to clients in both the public and private sectors. E Sciences was formed in 2000, bringing together a team of professional and technical staff members with a long history of successfully executing projects throughout Florida and the Southeastern United States. E Sciences' fundamental philosophy is based on "responsiveness, expertise and creating value for their clients." E Sciences delivers strong project management, comprehensive multi-disciplinary services, knowledge of specific regional issues, relevant experience, and dedication to technical excellence. This expertise qualifies them as leaders in their field. They understand the challenges facing private companies and government agencies, including scheduling constraints and shrinking budgets, and responds by structuring the project team to deliver high value and excellent service.

Keith and Associates, Inc. will provide our Team with all survey, mapping, and utility coordination services needed to successfully complete this Project. They are a multi-disciplined consulting engineering firm headquartered in Pompano Beach, Florida with additional offices in Miami-Dade, Palm Beach and Orlando. They provide civil engineering, planning, surveying and mapping, subsurface utility engineering (SUE), landscape architecture,



BIM/VDC and construction management services. The firm was founded on the principal of achieving success by combining client oriented business practices with the latest technology and a staff of experienced and talented professionals. The expertise of our Land Surveying staff has a combined South Florida surveying experience of over 75 years. This experience has resulted in a tremendous database of knowledge and information that will be an asset to this Project.

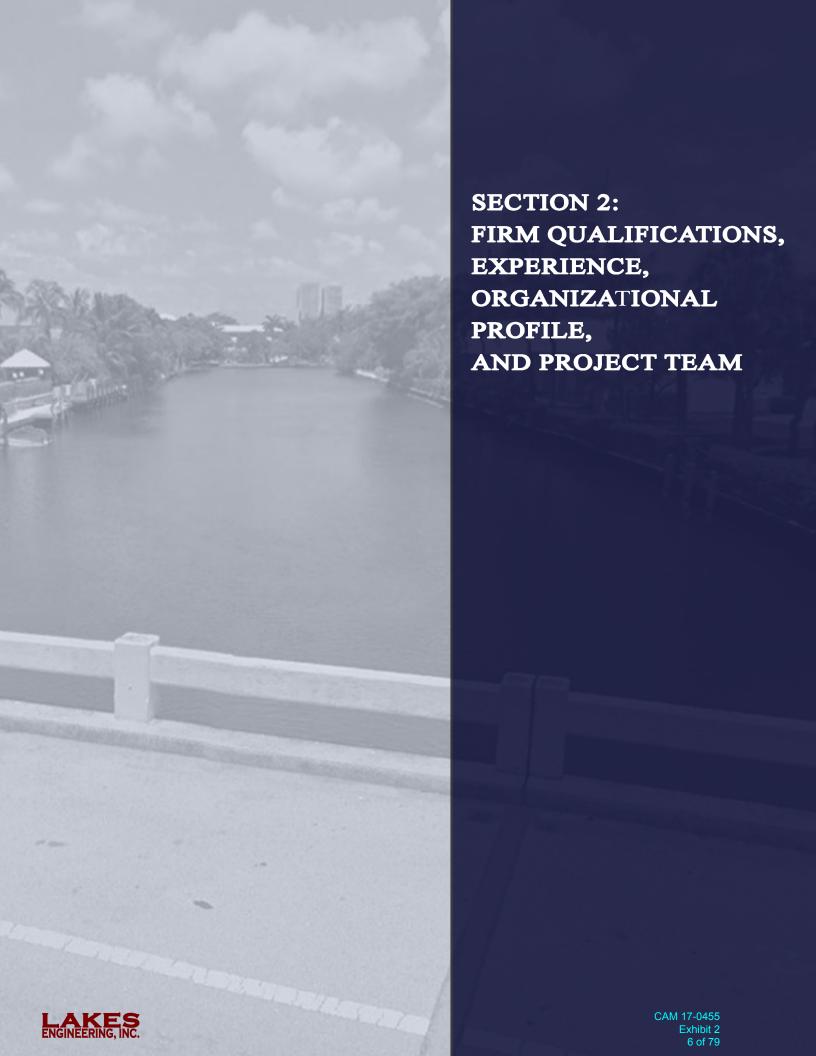
AREHNA Engineering, Inc. is a State of Florida Certified Minority Business Enterprise (MBE) and Disadvantage Business Enterprise (DBE) that provides innovative and comprehensive geotechnical and materials testing and inspection services throughout the State of Florida. AREHNA, prequalified in FDOT Work Groups: 9.1, 9.2, 9.3, 9.4.1, 9.4.2, 9.5, and 10.3, has a full service geotechnical and construction materials testing laboratory, which is AASHTO accredited, USACE validated, and FDOT approved. AREHNA's in-house drilling and coring capabilities, as well as an AASHTO accredited laboratory, gives us control of our schedule and the ability to meet the most aggressive project schedules.

Quest Corporation of America (QCA) will assist in the public outreach for this Project. Founded in 1995, QCA is a woman-owned, minority-certified communications firm that has provided successful proactive, grassroots community outreach on planning, PD&E, design and construction projects throughout the state. QCA has extensive experience serving Broward County. We have well established relationships within each community including the Florida Department of Transportation District (FDOT) Four Office in Fort Lauderdale, local stakeholders, emergency responders and special interest groups. QCA has years of experience providing services to municipal transit and utility projects. Our experienced local staff can strategically communicate the needs and benefits of this important project and engage community members and elected officials.

The information we present in the remainder of this SOQ will further demonstrate our commitment and ability to provide the highest levels of engineering services to the City for the design, bidding, and construction management of the Ocean Drive Bridge. Section 2 you will find our Firm's qualifications and experience, details our Team's similar project experience, the clients we served, and the resources we bring to the City. That information will be supplemented by the project specific organizational chart that identifies the roles and responsibilities of each team member. Included in this section is a description of each team member's individual qualifications and experience, and what engineering discipline they specialize in. In Section 3, Approach to Scope of Work, we will describe our understanding of the Scope for this Project, delineate critical issues, outline our proposed timeline, and describe the resources (human, technological, etc.) we are committing to the Project. Moreover, Sections 4, 5, & 6 provide supplemental information such as project experience references, our commitment to MWBE participation, and a comprehensive list of our proposed subconsultants. Finally, as requested by the City we have provided the required forms and a proof of insurance in Section 7.

In closing, Lakes is an outcome oriented consulting firm that believes our performance will be judged on the results we achieve for our clients. We have performed our due diligence for this Project and are convinced that our Team can provide the full range of services described in the RFQ, while adhering to the City's vision for designing and constructing sustainable and resilient public infrastructure for the community.





ARCHITECT - ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION (City and State)

South Ocean Drive over the Marion River (Bridge No. 865775), Fort Lauderdale, Florida

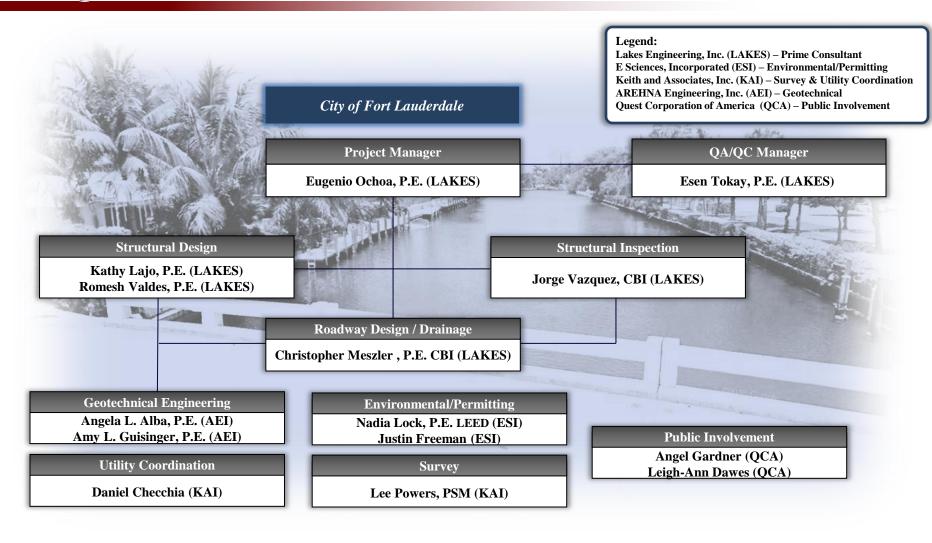
2. PUBLIC NOTICE DATE 3. SOLICITATION OR PROJECT NUMBER

February 27, 2017 RFQ 471-11891

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. N	. NAME AND TITLE Eugenio Ochoa, P.E., Principal					
5. NAME OF FIRM				•		
6. TELEPHONE NUMBER 305-667-1657			R 7. FAX NUMBER		akeseng.com	
				(Complete this section fo	C. PROPOSED TEAM or the prime contractor and all key subcontra	ctors.)
	PRIME	J-V PART-NER	SUB-CON- TRAC-TOR	9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
a.	V			Lakes Engineering, Inc. CHECK IF BRANCH OFFICE	4870 SW 72 nd Avenue Miami, Florida 33155	Lead Engineering
b. c.			Ø	E Sciences, Incorporated ☐ CHECK IF BRANCH OFFICE	224 SE 9th Street Fort Lauderdale, Florida 33316	Environmental/ Permitting
d.				Keith and Associates, Inc. CHECK IF BRANCH OFFICE	301 E Atlantic Boulevard Pompano Beach, Florida 33060	Surveying/Utility Coordination
			V	AREHNA Engineering, Inc.	1440 Coral Ridge Drive, #116 Coral Springs, Florida 33071	Geotechnical Engineering
e.			V	Quest Corporation of America CHECK IF BRANCH OFFICE	3105 NW 107th Avenue, Suite 400, Doral, FL 33172	Public Involvement
f.						
g.				☐ CHECK IF BRANCH OFFICE		
h.				☐ CHECK IF BRANCH OFFICE		
i.				☐ CHECK IF BRANCH OFFICE		
				☐ CHECK IF BRANCH OFFICE		
D. C	RGA	NIZAT	IONA	L CHART OF PROPOSED TEAM	(Attached)	

Organization Chart













CONSTRUCTION (If applicable)

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person)

12. NAME 13. ROLE IN THIS CONTRACT 14. YEARS EXPERIENCE

Eugenio Ochoa, P.E.

Project Manager/Chief
Engineer

a. TOTAL
b. WITH CURRENT FIRM

4

15. FIRM NAME AND LOCATION (City and State) **Lakes Engineering, Inc., Miami, Florida**16. EDUCATION (DEGREE AND SPECIALIZATION)

Bachelor of Science in Civil Engineering, 1991, Florida

International University
- Adv. Graduate Course Work
- Adv. Structural Analysis

- Adv. Geometric Design of Highways and Bridges

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

Professional Engineer: Florida #53199
Professional Engineer: Texas #111934
Professional Engineer: Puerto Rico #24082
Professional Engineer: North Carolina #039379
Professional Engineer: New Jersey #24GE05087400
Professional Engineer: Missouri #2016009836
National Cert. as Professional Engineer: # 37045

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) **DBIA Florida Big John Monahan Bridge Design-Build Project of the Year 2014**

Florida Best in Construction Utility Coordination 2008

19. RELEVANT PROJECTS

a.(1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED

SR-838 Sunrise Blvd Bridge over Middle River, Fort Lauderdale, Florida

PROFESSIONAL CONSTRUCTION (If applicable)
SERVICES

2013 - 2016

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

Chief Engineer responsible for the development of construction structural plans, reinforcement bar lists, and quantities. Erection Sequence of a Temporary Detour ACROW Bridge, including bridge frame and foundation elements. The Temporary bridge has an overall length 280 ft. divided in (2) spans of 50 ft and (3) spans of 60ft. The bridge is a double lane ACROW Bridge with single story - double trusses each side.

b.(1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED

Indian Creek Bridge Rehabilitation, Miami-Dade County, FL.

SERVICES

PROFESSIONAL

2013 - Current

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

Project Manager responsible for managing the design and construction administration of the rehabilitation of the existing bridge over Indian Creek a pristine navigable waterway. Project includes the design, plans preparation, specifications, and environmental permitting, for the proposed rehabilitation of the existing structure built in 1930. Project goal is to use innovative preservation strategies and actions to extend its useful life and provide the Village with ample time and opportunity to prepare for its eventual replacement. Required heavy coordination with municipality, fire & police, utility coordination, and public involvement for this is the Village's sole means of access.

C (1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED PROFESSIONAL

State Road 84 at NW 136th Avenue Intersection Improvements, Broward County, FL

SERVICES

PROFESSIONAL CONSTRUCTION (If applicable)
SERVICES

2016 G

2016 - Current

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Project Manager responsible for the management of the complete analysis and design for improvements of the NW 136th Avenue and SR 84 Intersection. The Project consist of the addition of westbound to northbound right turn lane from SR 84 to NW 136 Avenue to provide three right lanes, widening bridges over the North New River Canal to provide a third SB thru lane and taper the NB thru lane, reconstruction of the traffic separator under the overpass to increase storage for southbound to EB left turn, installation overhead signs on NW 136th Ave. to direct southbound traffic to I-595 east and SR-84 east, and converting a northbound thru lane to a northbound left turn lane at SR-84 westbound.

d.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

Venetian Causeway Bascule Bridge Structural Rehabilitation, Miami-Dade County, FL.

PROFESSIONAL CONSTRUCTION (If applicable)
SERVICES

2014 - 2016

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

Check if project performed with current firm

Chief Engineer This Design-Build (DB) project includes design and construction to rehabilitate the westernmost portion of the historical Bridge No. 874459 / Venetian Causeway. The project involved the removal of approximately 730 linear feet of the existing bridge (#874459) from the west abutment (begin bridge) to the expansion joint in Span 16. The new bridge was designed to match the cross section and maintain the aesthetics of the existing bridge. The bridge superstructure consisted of a cast-in-place concrete deck supported by precast arched beams. The bridge deck was designed to be 8-inches thick and incorporated an asphalt overlay to match that of the existing bridge riding surface. A total of four precast arched beams, spaced at approximately 11 feet, were designed to preserve the existing cross section and aesthetics of the existing bridge. The bridge was supported by four 42-inch diameter drilled shafts with a cast-in-place concrete cap design. The cap was designed with cantilevered wingwalls to support the new concrete barrier walls and the existing octagonal historic monument concrete towers that were reinstalled on each side of the bridge.

2016

e. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	CONOTRICTION /// " // '				
Big John Monahan Bridge Replacement Project (Design-Build), Martin County, FL.	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
	2011 - 2014	2014				
		ormed with current firm				
Project Manager/Engineer of Record responsible for the complete design of all superstructure and substructure elements of the Category 2 Big Joh Monahan Bridge (SR-710) over the St. Lucie River Canal and Kanner Highway. Design-Build Project consists of the replacement of the existin structurally deficient bridge structure with twin bridges each consisting of 6 simple spans (130'-130'-138.67'-185'-185') with an overall length of 953'-8". The skewed span configuration includes spans of 185' which categorizes bridges as Category 2 Structures. Superstructure consists of 63 and 84" Florida I-Beams (prestressed girders) with a composite reinforced concrete deck. Substructure consists of reinforced hammer head piers with approximately 28' cantilevers supported on 24" prestressed concrete piles foundations. This project required heavy coordination with the following agencies: US Coast Guard, Army Corps, South Florida Water Management District, DEP, Martin County, Indian Town, CSX. Project also included Rail Road Coordination, Existing Bridge Demolition, Lead Paint, Wetland impacts, Hydraulic analysis, Category II structure and Peer Review.						
f. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED					
N.E. 27th Terrace Bridge Replacement (Design-Build Project), City of Pompano Beach, FL	2011 – 2013	2013				
Project Manager responsible for the design and development of construction documents for the replacement of the existing structurally deficient bridge structure over the Wisteria Canal of this Design-Build Project. Proposed bridge consists of a 38'-4"single span bridge, with an overall bridge width of 36'-0" to accommodate 2-11' lanes, shoulders and raised sidewalk. Superstructure consists of prestressed slab units with concrete overlay Substructure consists of conventionally reinforced cast-in-place caps supported on shallow spread footers. Responsible for client coordination permitting coordination, specification, and post design services.						
g. (1) TITLE AND LOCATION (City and State)	(2) YE	EAR COMPLETED				
Miami International Airport Upper Vehicle Drive Rehabilitation Project, Miami-Dade	PROFESSIONAL	CONSTRUCTION (If applicable)				
County, FL.	SERVICES 2009 - 2013					
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE	☐ Check if project per	formed with current firm				
repair of spalling wearing surface, painting of structural steel elements to protect from further engineering services for the restoration of the Miami-International Airport Upper Drive included preparation of rehabilitation plans, specifications, cost estimate, permitting, and services.	Bridge Structure (FDO	T Bridge No. 874635). Project				
h. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED					
Demolition of Rickenbacker Causeway West Fishing Pier, Miami Dade County, FL	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
_	2008 - 2010					
	• • •	formed with current firm				
Project Manager Demolition of a 34 span bridge, total length 1,734 feet, constructed of concrete deck. Work includes development of demolition plans for the complete removal material to be deployed in an artificial reef and coordination with several government agency SFWMD, ERP, DERM, ACDE and Nation Wide Permit. Responsible for the design and development in the several government agency specific lifting details and addressing sensitive environmental issues.	of the existing bridge us cies including Environment	sing a barge mounted crane with ental permitting agencies such as				
i. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED					
Southeast 7th Avenue Bascule Bridge, Fort Lauderdale, Florida	PROFESSIONAL SERVICES 1994 - 1995	CONSTRUCTION (If applicable)				
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE		erformed with current firm				
Senior Engineer responsible for the Inspecting of the bascule and approaches for this mova						
Duties included complete field inspection, and preparation of reports in FDOT format i Inspection and Reporting Procedures Manual.						
j. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED					
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
Southwest 3rd Avenue Bascule Bridge Retrofit, Fort Lauderdale, FL	1994 - 1995					
		rformed with current firm				
Senior Engineer responsible for the inspecting the bascule and approaches for this movab Duties included complete field inspection, and preparation of reports in FDOT format is Inspection and Reporting Procedures Manual.						



(Complete one Section E for each key person)

12. NAME 13. ROLE IN THIS CONTRACT 14. YEARS EXPERIENCE

Esen Tokay, P.E. QA/QC Engineer a. TOTAL b. WITH CURRENT FIRM

15. FIRM NAME AND LOCATION (City and State) **Lakes Engineering, Inc., Miami, Florida**16. EDUCATION (DEGREE AND SPECIALIZATION) **M.S. Civil Engineering,**Northwestern University, 1960

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

Professional Engineer: FL # 32197

Special Inspector, FL# 274

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

Specialty Inspector

19. RELEVANT PROJECTS

a.(1) TITLE AND LOCATION (City and State)

b.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED PROFESSIONAL

CONSTRUCTION (If applicable)

Indian Creek Bridge Rehabilitation, Miami-Dade County, FL.

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

SERVICES
2013 - Current

Check if project performed with current firm

Structural Engineer responsible for managing the design and construction administration of the rehabilitation of the existing bridge over Indian Creek a pristine navigable waterway. Project includes the design, plans preparation, specifications, and environmental permitting, for the proposed rehabilitation of the existing structure built in 1930. Project goal is to use innovative preservation strategies and actions to extend its useful life and provide the Village with ample time and opportunity to prepare for its eventual replacement. Required heavy coordination with municipality, fire & police, utility coordination, and public involvement for this is the Village's sole means of access.

Venetian Causeway Bascule Bridge Structural Rehabilitation, Miami-Dade County, FL.

(2) YEAR COMPLETED
PROFESSIONAL CONSTRUCTION (If applicable)

SERVICES

2014 - 2016

2016

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

QA/QC Engineer This Design-Build (DB) project includes design and construction to rehabilitate the westernmost portion of the historical Bridge No. 874459 / Venetian Causeway. The project involved the removal of approximately 730 linear feet of the existing bridge (#874459) from the west abutment (begin bridge) to the expansion joint in Span 16. The new bridge was designed to match the cross section and maintain the aesthetics of the existing bridge. The bridge superstructure consisted of a cast-in-place concrete deck supported by precast arched beams. The bridge deck was designed to be 8-inches thick and incorporated an asphalt overlay to match that of the existing bridge riding surface. A total of four precast arched beams, spaced at approximately 11 feet, were designed to preserve the existing cross section and aesthetics of the existing bridge. The bridge was supported by four 42-inch diameter drilled shafts with a cast-in-place concrete cap design. The cap was designed with cantilevered wingwalls to support the new concrete barrier walls and the existing octagonal historic monument concrete towers that were reinstalled on each side of the bridge.

c (1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

PROFESSIONAL SERVICES

CONSTRUCTION (If applicable)

Bear Cut Bridge Rehabilitation, Key Biscayne, FL

2013 - 2013

On-Going

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Project Manager responsible for the review of documents prepared by the Design-Build Team for the proposed rehabilitation including the foundation evaluation report. Bear Cut Creek is a low profile coastal bridge, originally constructed in 1947 and connects the Village of Key Biscayne to Virginia Key. Corrosion of the reinforcing steel in the concrete deck and supporting structural steel girders resulted in structural deficiency requiring rehabilitation. The rehabilitation of the bridge would also incorporate a bridge widening in order to improve bicycle and pedestrian traffic.

d.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

Structural Inspection and Assessment of the Indian Creek, Miami-Dade County, Florida

PROFESSIONAL SERVICES

2013 - 2013

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Structural Engineer The project involved the field investigation and analysis of the Indian Creek Bridge located in Indian Creek Village. This is a thirteen span reinforced concrete "T" beam bridge with fascia arch beams. Lakes personnel were responsible for the bridge inspection, determination of deficiencies and load rating in order to gather all data required to ascertain the existing condition/capacity of the structure and estimate a preliminary construction cost that will serve as the basis for the production of the bridge rehabilitation document to repair and partially restore the capacity of the bridge's superstructure.

е	• (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Big John Monahan Bridge Replacement Project (Design-Build), Martin County, FL.	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	big John Mohanan Bruge Replacement Project (Besign-Bund), Martin County, P.E.	2011 - 2014	2014
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE ☑	Check if project perform	rmed with current firm
	QA/QC Engineer responsible for the QA/QC of the complete design of all superstructure Monahan Bridge (SR-710) over the St. Lucie River Canal and Kanner Highway. Design-Estructurally deficient bridge structure with twin bridges each consisting of 6 simple spans 953'-8". The skewed span configuration includes spans of 185' which categorizes bridges and 84" Florida I-Beams (prestressed girders) with a composite reinforced concrete deck. Su approximately 28' cantilevers supported on 24" prestressed concrete piles foundations. Thi agencies: US Coast Guard, Army Corps, South Florida Water Management District, DEP, M. Rail Road Coordination, Existing Bridge Demolition, Lead Paint, Wetland impacts, Hydraulic	Build Project consists of (130'-130'-138.67'-185' as Category 2 Structures abstructure consists of reist project required heavy Martin County, Indian To	the replacement of the existing 185') with an overall length of Superstructure consists of 63' nforced hammer head piers with coordination with the following wn, CSX. Project also included:
f.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	N.E. 27th Terrace Bridge Replacement (Design-Build Project), City of Pompano Beach,		
	FL	2011 – 2013	2013
	QA/QC Engineer responsible for the QA/QC of the design and development of const	ruction documents for t	he replacement of the existing

client coordination, permitting coordination, specification, and post design services.	s.
g. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED
Miami International Airport Upper Vehicle Drive Rehabilitation Project, Miami-Dade	ami-Dade PROFESSIONAL CONSTRUCTION (If applicable) SERVICES
County, FL.	2009 - 2013
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE	☐ Check if project performed with current firm
Structural Engineer responsible for the bridge rehabilitation, milling & resurfacing the rehabilitation effort. Rehabilitation included replacement of expansion joints, respectively experience positions of attractural steel elements to protect from further than the protect from	repair and rehabilitation of structural steel bents and frames, repair of

Structural Engineer responsible for the bridge rehabilitation, milling & resurfacing plans, signing and pavement marking and traffic control plans for the rehabilitation effort. Rehabilitation included replacement of expansion joints, repair and rehabilitation of structural steel bents and frames, repair of spalling wearing surface, painting of structural steel elements to protect from further damage. Project consists of complete professional engineering services for the restoration of the Miami-International Airport Upper Drive Bridge Structure (FDOT Bridge No. 874635). Project included preparation of rehabilitation plans, specifications, cost estimate, permitting, and coordination with Miami-Dade County and procurement services.

of rehabilitation plans, specifications, cost estimate, permitting, and coordination	n with Miami-Dade County and procurement services.			
. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED			
Bicentennial Park Seawall - Miami-Dade County, FL	PROFESSIONAL CONSTRUCTION (If applicable) SERVICES			
• /	2004 - 2010			
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE	 Check if project performed with current firm 			
Project Manager and EOR for the replacement of the seawall with docking facilities at Bicentennial Park and along the west and south edges of the slip adjacent to the park. The seawall was over 2000 LF. Services include programming and schematic design, design development, construction documents and post-construction administration. Involved in permitting from regulatory agencies including State EPA, Corps of Engineers, DERM and City of Miami. Assisted the City of Miami in obtaining a grant for the project from F.I.N.D.				
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED			

i. (1) TITLE AND LOCATION (City and State)

PROFESSIONAL CONSTRUCTION (If applicable)

American Airlines Arena Seawall, Miami-Dade County, FL

SERVICES

2007 - 2009

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

Project Manager and EOR responsible for the replacement of the 400ft seawall with docking facilities at American Airlines Arena. Services include programming and schematic design, design development, construction documents and post-construction administration. Involved in permitting from regulatory agencies including State EPA, Corps of Engineers, DERM and City of Miami. Assisted the Miami-Dade County in obtaining a grant for the project from F.I.N.D.



(Complete one Section E for each key person)

13. ROLE IN THIS 12. NAME 14. YEARS EXPERIENCE CONTRACT

a. TOTAL b. WITH CURRENT FIRM Christopher Meszler, P.E. Senior 4

10 Roadway/Drainage

Engineer

15. FIRM NAME AND LOCATION (City and State) Lakes Engineering, Inc., Miami, Florida 16. EDUCATION (DEGREE AND SPECIALIZATION) **Bachelor of Science in Civil Engineering**

University of Texas at Austin - 2007

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

Professional Engineer: TX #112052 Professional Engineer: FL #74718

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

Certified Bridge Inspector (FDOT) #00500

Qualified Stormwater Management Inspector (FDEP) #25644

Certified Advanced MOT Designer (FDOT)

19. RELEVANT PROJECTS

a.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED PROFESSIONAL **SERVICES**

CONSTRUCTION (If applicable)

Broward MPO Mobility Design-Build Projects, Broward County, FL.

2014 - Current

On-Going

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

Check if project performed with current firm

Engineer of Record. Project consist of forty-eight (48) roadway segments with varying improvements, such as sidewalks, and/or bicycle lanes throughout Broward County which includes the following municipalities: Town of Davie, City of Fort Lauderdale, City of Plantation, City of Lauderhill, City of Tamarac, City of Oakland Park, City of Lauderdale Lakes, City of Hollywood, City of Deerfield Beach, City of Pembroke Pines, and City of Pompano Beach. The objectives of this project include the construction of new sidewalks, reconstruction of non-ADA compliant curb ramps, construction of curbs, gutter and bicycle lanes. In addition, this project includes the resurfacing of roadways and necessary drainage improvements to ensure proper drainage of the improved areas so that quality and quantity criteria are met.

b.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED PROFESSIONAL

SR 5/US-1 from SW 37th Avenue to Ponce de Leon and SR 5/US-1 at Riviera Drive, Miami-Dade County, FL.

SERVICES

2014 - Current

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Senior Engineer. Project consisted of the realignment and reconstruction of State Road (SR) 5/US 1 from SW 37 Avenue to Ponce de Leon Boulevard and US-1 at Riviera. This urban curb and gutter roadway is reconstructed to provide safety improvements to roadway alignment, lane width, cross slope, drainage, signal replacement and correction of timing, signing and pavement marking, lighting and pedestrian/ADA accessibility. The proposed design widens and realigns the highway vertically and horizontally to mitigate the existing sharp reverse curves and to meet FDOT and AASHTO standards on this major arterial. The project requires utility relocations, complex traffic control plans (keeping all 6 lanes of traffic open during all major phases), permit coordination and right of way acquisition.

C (1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

State Road 84 at NW 136th Avenue Intersection Improvements, Broward County, FL

PROFESSIONAL **SERVICES**

CONSTRUCTION (If applicable)

CONSTRUCTION (If applicable)

2016 - Current

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Engineer of Record responsible for analysis, design and construction plans production of improvements for the NW 136th Avenue and SR 84 Intersection. The Project consists of the addition of westbound to northbound right turn lane from SR 84 to NW 136 Avenue to provide three right turn lanes, inside and outside widening of bridges over the North New River Canal to provide a third SB thru lane and taper the NB thru lane, reconstruction of the traffic separator under the overpass to correct deflection across the intersection and increase storage for southbound to EB left turn, installation overhead signs on NW 136th Ave to direct southbound traffic to I-595 east and SR-84 east, and converting a northbound thru lane to a northbound left turn lane at SR-84 westbound. Includes coordination with multiple utilities, Broward County, City of Sunrise, City of Davie, and SFWMD for bridges over canal and revetment modification.

d.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

SR 934 / NW / NE 81st Street from NW 13th Court to Biscayne Boulevard, Miami-Dade County, FL

PROFESSIONAL CONSTRUCTION (If applicable) **SERVICES**

2011 - 2012

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Senior Engineer/Project Manager-Post Design. Project consisted of the design and development of construction documents for the widening and reconstruction of an urban collector of approximately 2.5 miles, undivided two-lane one-way road. Project involved roadway design, signal replacement and correction of timing, drainage, traffic control and specifications. This project entailed the milling, resurfacing and safety improvements of SR-934, a 2.32 mile 2-lane urban arterial with street parking on both sides. This corridor is located within the limits of unincorporated Miami-Dade County and the City of Miami.

e. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED			
NE ANY OF A COLUMN A LA DIDINA DE LA COLUMN A LEGITARIA		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)		
NE / NW 87th Street from NW 2nd to Park Dr., Village of EL Portal, Florida		2011 - 2012			
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE	☑ (Check if project per	formed with current firm		
Engineer. Project consisted of the complete design and development of construction and resurfacing, placing appropriate traffic pavement markings, and retrofitting peder corridor is an urban collector of approximately one-mile, undivided two-lane two-w County. This project included cross-slope correction, signalization replacement are pavement markings, specifications, and quantities.	strian ran ay road l	nps to meet ADA's a ocated within the V	requirements. This NE 87th Street (illage of El Portal in Miami-Dade		
f. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED			
NW 33rd Street Widening & Reconstruction from NW 97th Avenue to NW 87th Avenue		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)		
(Design-Build), Miami-Dade County, FL.		2009 - 2010			
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE		Check if project pe	erformed with current firm		
Engineer. Project consisted of the analysis, design and plans preparation for roadway, signal replacement and correction of timing, drainage, lighting, and signing and pavement marking. Project involved the development of construction documents for the widening and reconstruction of approximately one-mile of urban arterial from 3-lanes, undivided, to a 5-lane divided typical section facility. The project included horizontal and vertical design, drainage, traffic control, lighting, signalization and signing and pavement marking plans.					
g. (1) TITLE AND LOCATION (City and State)		(2) `	YEAR COMPLETED		
Haulover Park Watermain Service Replacement, Miami-Dade County, FL.		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)		
•		2009 - 2013			
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE		Check if project pe	erformed with current firm		
Engineer. Project consisted of the analysis, design, plans preparation, and permitting including payment approvals, hosting weekly meetings and final acceptance. Project watermain to replace existing 30-40 years old cast iron watermain servicing the park a International, AWWA, FDOT and Miami-Dade County standards. Project proposed be accomplished by directional boring to minimize disturbance of existing surface conto high water table elevations. This project also included DEP permitting.	ect consist and its fact for instal	sted of the analysis ilities. Proposed wa lation of several sect	and design of a new HDPE 6-in termain was designed to meet NSF tions of the proposed watermain to		
h. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED			
SR-9 / I-95 Interchange at Ives Dairy Road, Miami-Dade County, FL.		PROFESSIONAL SERVICES 2009 - 2009	CONSTRUCTION (If applicable)		
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE			erformed with current firm		
Engineer Project consisted of the reconstruction design of the grade separated into					

Engineer. Project consisted of the reconstruction design of the grade separated interchange at Ives Dairy Road. Project included roadway design, adding lanes to I-95 and Ives Dairy Road as well as widening of on and off ramps resulting in a substantial increase in capacity, signal replacement and correction of timing, drainage, traffic control, signing and pavement marking, lighting, structures (bridge widening and miscellaneous structures) and ITS plans. Project also included the design of the horizontal and vertical geometry and typical section package, and an assessment report to justify the need for a design variation/exception for proposed shoulder and lane widths on the south bound exit ramp. Design included ADA improvements at intersections. Also responsible for the AASHTO girder bridge widening over CSXT, design of retaining walls, overhead sign structures and mast arms, lighting design included development of lighting calculations, pole location/spacing, foundation design and the design of the electrical circuit for relocated light poles and overhead sign structures.



(Complete one Section E for each key person)

13. ROLE IN THIS 12. NAME 14. YEARS EXPERIENCE CONTRACT

a. TOTAL b. WITH CURRENT FIRM Kathy Lajo, P.E. Senior Structural 4 Engineer

15. FIRM NAME AND LOCATION (City and State) Lakes Engineering, Inc., Miami, Florida 16. EDUCATION (DEGREE AND SPECIALIZATION)

Professional Engineer: FL #63068 Masters of Information Technology, 2002, American

Intercontinental University

Bachelor of Science in Civil Engineering, 1996.

Florida International University

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

DBIA Florida Big John Monahan Bridge Design-Build Project of the Year 2014

19. RELEVANT PROJECTS

a.(1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED

Indian Creek Bridge Rehabilitation, Miami-Dade County, FL.

SERVICES 2013 - Current **On-Going**

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

 $\overline{\mathbf{A}}$ Check if project performed with current firm

Senior Structural Engineer responsible for the design and construction administration of the rehabilitation of the existing bridge over Indian Creek a pristine navigable waterway. Project includes the design, plans preparation, specifications, and environmental permitting, for the proposed rehabilitation of the existing structure built in 1930. Project goal is to use innovative preservation strategies and actions to extend its useful life and provide the Village with ample time and opportunity to prepare for its eventual replacement. Required heavy coordination with municipality, fire & police, utility coordination, and public involvement for this is the Village's sole means of access.

b.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

PROFESSIONAL

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

Venetian Causeway Bascule Bridge Structural Rehabilitation, Miami-Dade County, FL.

PROFESSIONAL CONSTRUCTION (If applicable)

SERVICES 2014 - 2016

2016

CONSTRUCTION (If applicable)

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Senior Structural Engineer This Design-Build (DB) project includes design and construction to rehabilitate the westernmost portion of the historical Bridge No. 874459 / Venetian Causeway. The project involved the removal of approximately 730 linear feet of the existing bridge (#874459) from the west abutment (begin bridge) to the expansion joint in Span 16. The new bridge was designed to match the cross section and maintain the aesthetics of the existing bridge. The bridge superstructure consisted of a cast-in-place concrete deck supported by precast arched beams. The bridge deck was designed to be 8-inches thick and incorporated an asphalt overlay to match that of the existing bridge riding surface. A total of four precast arched beams, spaced at approximately 11 feet, were designed to preserve the existing cross section and aesthetics of the existing bridge. The bridge was supported by four 42-inch diameter drilled shafts with a cast-in-place concrete cap design. The cap was designed with cantilevered wingwalls to support the new concrete barrier walls and the existing octagonal historic monument concrete towers that were reinstalled on each side of the bridge.

C (1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

Big John Monahan Bridge Replacement Project (Design-Build), Martin County, FL.

PROFESSIONAL

CONSTRUCTION (If applicable)

CONSTRUCTION (If applicable)

SERVICES 2011 - 2014

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

Check if project performed with current firm

Senior Structural Engineer responsible for leading the Structural Design Team in the design and development of complete contract documents for twin high-level bridges over St. Lucie Canal (Okeechobee Waterway). Design-Build Project consists of the replacement of the existing structurally deficient bridge structure with twin bridges each consisting of 6 simple spans (130'-130'-138.67'-185'-185') with an overall length of 953'-8". The skewed span configuration includes spans of 185' which categorizes bridges as Category 2 Structures. Superstructure consists of 63" and 84" Florida I-Beams (prestressed girders) with a composite reinforced concrete deck. Substructure consists of reinforced hammer head piers with approximately 28' cantilevers supported on 24" prestressed concrete piles foundations.

d.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED **PROFESSIONAL**

Ocean Avenue Bridge in Lantana over Intercoastal Waterway, Palm Beach County, FL.

SERVICES

2011 - 2013 2013

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Senior Structural Engineer. Project consisted of the replacement of existing Bascule Bridge over the Intercoastal Waterway in lantana with a new bascule bridge. The bridge consists of 7 spans including one bascule span of 245'-0" (180'-0" c. to c. trunnions); overall bridge length of 785'-0". The bridge will rise 21 feet at its highest point, almost twice the height of the existing bridge, and includes four ornamental 35-foot towers. The wider bridge will allow for separation of pedestrians and traffic by a barrier and wider sidewalks so pedestrians and bicyclists can cross safely. Responsible for the substitution of the approach span Florida Bulb T-beams with FIB-54 prestressed girders and for the final bascule leaf balance calculations and counterweight shop drawings in accordance with the technical specifications.

e.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED		
	N.E. 27th Terrace Bridge Replacement (Design-Build Project), City of Pompano Beach,			
	FL	2011 – 2013	2013	
	Engineer of Record responsible for the design and development of construction documents bridge structure over the Wisteria Canal of this Design-Build Project. Proposed bridge consist width of 36'-0" to accommodate 2-11' lanes, shoulders and raised sidewalk. Superstructure Substructure consists of conventionally reinforced cast-in-place caps supported on shallow permitting coordination, specification, and post design services.	sts of a 38'-4"single s consists of prestressed	pan bridge, with an overall bridge I slab units with concrete overlay.	
f.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED		
	SR-9 / I-95 Interchange at Ives Dairy Road, Miami-Dade County, FL.	PROFESSIONAL SERVICES 2007 - 2009		
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE	Check if project pe	erformed with current firm	
Engineer of Record responsible for the analysis and design of minor bridge widening to connect two parallel AASHTO Girder Project consisted of widening of the parallel 4-span bridge structures involved removal of existing median and portion of exi generation and bridge analysis was developed using STAAD. Existing AASHTO Type II and III girders was conducted using CO additional live loading resulting from widening.				
g.	. (1) TITLE AND LOCATION (City and State)	(2) Y	EAR COMPLETED	
	Miami International Airport Upper Vehicle Drive Rehabilitation Project, Miami-Dade	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
	County, FL.	2009 - 2013		
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE	Check if project pe	erformed with current firm	
	Senior Structural Engineer responsible milling & resurfacing plans, signing and pavement effort. Rehabilitation included replacement of expansion joints, repair and rehabilitation of structural steel elements to protect from further damage. Project consist restoration of the Miami-International Airport Upper Drive Bridge Structure (FDOT B rehabilitation plans, specifications, cost estimate, permitting, and coordination with Miami-Dames and Coor	uctural steel bents and ts of complete profess ridge No. 874635).	frames, repair of spalling wearing ional engineering services for the Project included preparation of	
h.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED		
	Demolition of Rickenbacker Causeway West Fishing Pier, Miami Dade County, FL	PROFESSIONAL SERVICES 2008 - 2010	CONSTRUCTION (If applicable)	
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE		erformed with current firm	
	Structural Engineer Demolition of a 34 span bridge, total length 1,734 feet, constructed of concrete deck. Work includes development of demolition plans for the complete removal of material to be deployed in an artificial reef and coordination with several government agencit SFWMD, ERP, DERM, ACDE and Nation Wide Permit. Responsible for the design and development is lifting details and addressing sensitive environmental issues.	f reinforced concrete p f the existing bridge u es including Environn lopment of a complete	piers, steel girders, and reinforced using a barge mounted crane with mental permitting agencies such as e set of demolition plans, including	
	• (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED		
	SR 5 / US 1 (Jewfish Creek) Structural Component Submittal for Ramps A, B, C & D, Monroe County, FL $$	PROFESSIONAL SERVICES 2005 - 2006	CONSTRUCTION (If applicable)	

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

Structural Engineer responsible for technical review of 90% plans and calculations for the Bridge Ramps A, B, C & D of the Jewfish Creek Bridge Project. Superstructure consisted of simply supported prestressed slab units and 3-span & 4-span continuous modified 72" bulb tee girders (108'-2" and 102'-9", respectively) with a composite cast-in-place concrete deck. End bent and piers supported by 48-inch diameter drilled shaft. Responsibilities assisting in the independent review of generated design loads, analysis of the pre-stressed modified bulb tee and deck design.



(Complete one Section E for each key person)

13. ROLE IN THIS 12. NAME 14. YEARS EXPERIENCE CONTRACT

a. TOTAL b. WITH CURRENT FIRM Romesh Valdes, P.E. Structural Engineer 4

15. FIRM NAME AND LOCATION (City and State)

Lakes Engineering, Inc.

16. EDUCATION (DEGREE AND SPECIALIZATION)

Bachelor of Science, Major: Civil Engineering Florida International University, Miami, FL, April, 2009 Fundamentals of Engineering, October, 2008

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

Professional Engineer: Florida #76168

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

19. RELEVANT PROJECTS

a.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

PROFESSIONAL **SERVICES**

CONSTRUCTION (If applicable)

SR-838 Sunrise Blvd Bridge over Middle River, Fort Lauderdale, FL.

2013 - 2016

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Senior Engineer responsible for the development of construction structural plans, reinforcement bar lists, and quantities. Erection Sequence of a Temporary Detour ACROW Bridge, including bridge frame and foundation elements. The Temporary bridge has an overall length 280 ft. divided in (2) spans of 50 ft and (3) spans of 60ft. The bridge is a double lane ACROW Bridge with single story - double trusses each side.

b.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

Venetian Causeway Bascule Bridge Structural Rehabilitation, Miami-Dade County,

PROFESSIONAL CONSTRUCTION (If applicable)

SERVICES

2014 - 2016 2016

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Structural Engineer. This Design-Build (DB) project includes design and construction to rehabilitate the westernmost portion of the historical Bridge No. 874459 / Venetian Causeway. The project involved the removal of approximately 730 linear feet of the existing bridge (#874459) from the west abutment (begin bridge) to the expansion joint in Span 16. The new bridge was designed to match the cross section and maintain the aesthetics of the existing bridge. The bridge superstructure consisted of a cast-in-place concrete deck supported by precast arched beams. The bridge deck was designed to be 8-inches thick and incorporated an asphalt overlay to match that of the existing bridge riding surface. A total of four precast arched beams, spaced at approximately 11 feet, were designed to preserve the existing cross section and aesthetics of the existing bridge. The bridge was supported by four 42-inch diameter drilled shafts with a cast-in-place concrete cap design. The cap was designed with cantilevered wingwalls to support the new concrete barrier walls and the existing octagonal historic monument concrete towers that were reinstalled on each side of the bridge.

c (1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

State Road 84 at NW 136th Avenue Intersection Improvements, Broward County, FL

PROFESSIONAL SERVICES

CONSTRUCTION (If applicable)

2016 - Current

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Structural Engineer responsible for assisting with the analysis, design and construction plans production of for the structural improvements for the NW 136th Avenue and SR 84 Intersection. The Project consists of the addition of westbound to northbound right turn lane from SR 84 to NW 136 Avenue to provide three right turn lanes, inside and outside widening of bridges over the North New River Canal to provide a third SB thru lane and taper the NB thru lane, reconstruction of the traffic separator under the overpass to correct deflection across the intersection and increase storage for southbound to EB left turn, installation overhead signs on NW 136th Ave to direct southbound traffic to I-595 east and SR-84 east, and converting a northbound thru lane to a northbound left turn lane at SR-84 westbound. Includes coordination with multiple utilities, Broward County, City of Sunrise, City of Davie, and SFWMD for bridges over canal and revetment modification.

${f d}$.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

Big John Monahan Bridge Replacement Project (Design-Build), Martin County, FL.

PROFESSIONAL SERVICES

2011 - 2014

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Structural Engineer responsible for assisting in the Structural Design Team in the design and development of complete contract documents for twin high-level bridges over St. Lucie Canal (Okeechobee Waterway). Design-Build Project consists of the replacement of the existing structurally deficient bridge structure with twin bridges each consisting of 6 simple spans (130'-130'-138.67'-185'-185') with an overall length of 953'-8". The skewed span configuration includes spans of 185' which categorizes bridges as Category 2 Structures. Superstructure consists of 63" and 84" Florida I-Beams (prestressed girders) with a composite reinforced concrete deck. Substructure consists of reinforced hammer head piers with approximately 28' cantilevers supported on 24" prestressed concrete piles foundations.

e. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL	CONSTRUCTION (If applicable)
Rehabilitation of I-75 over Snake Creek, Broward County, FL.	SERVICES	
(a) PRISE PERCENTAGE (B. ()) () () () () () () () ()	2010 - 2012	formed with ourset firm
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE		formed with current firm
Design Engineer responsible for assisting in the design on the widening, deck replacement 75 over the Snake Creek Canal and the design of the proposed barrier installation, proposed along Miramar Parkway over SR 93/I-75. Also responsible for assisting in the design of 2 preparing comprehensive design plans and analysis for the rehabilitation of I-75 Northbound a conventional concrete deck. Provided designs for lighting, utilities, MOT, roadway work, s This Project also required special considerations for a TCP that insured that detours were bridge construction.	bridge fencing and load bridge mounted sign str over Snake Creek: repl signalization (mast arms	rating for Bridge Number 860316 ructures. The project consisted of acing existing precast panels with), and bridge deck reconstruction.
f. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
N.E. 27th Terrace Bridge Replacement (Design-Build Project), City of Pompano Beach,		
FL	2011 – 2013	2013
Design Engineer responsible for assisting in the design and development of construction of deficient bridge structure over the Wisteria Canal of this Design-Build Project. Proposed bribridge width of 36'-0" to accommodate 2-11' lanes, shoulders and raised sidewalk. Super overlay. Substructure consists of conventionally reinforced cast-in-place caps support coordination, permitting coordination, specification, and post design services.	dge consists of a 38'-4"s structure consists of pre	single span bridge, with an overall estressed slab units with concrete
g. (1) TITLE AND LOCATION (City and State)	(2) YI	EAR COMPLETED
Miami International Airport Upper Vehicle Drive Rehabilitation Project, Miami-Dade County, FL.	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2009 - 2013	of a man and a side an
	• •	rformed with current firm
Design Engineer responsible for assisting in the bridge rehabilitation, milling & resurfacing plans for the rehabilitation effort. Rehabilitation included replacement of expansion joints, reprepair of spalling wearing surface, painting of structural steel elements to protect from full engineering services for the restoration of the Miami-International Airport Upper Drive included preparation of rehabilitation plans, specifications, cost estimate, permitting, and services.	pair and rehabilitation of orther damage. Project of Bridge Structure (FDO	f structural steel bents and frames, consists of complete professional T Bridge No. 874635). Project
h. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
D/W Local Government In Depth Bridge Inspection FDOT District 6, Miami-Dade &	PROFESSIONAL SERVICES	
Monroe Counties, FL.	2009 - 2011	
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE	Check if project per	formed with current firm
Engineer responsible for the inspection of a total of 346 local government bridges consisting critical inspections and additional interim inspections. Project consisted of the bridge inspection geographical limits of the Department of Transportation District 6 in compliance with Federa local municipalities such as Miami-Dade County, Miami-Dade Transit, City of Miami, City of M	ction of all Local Gover I and State regulations.	nment bridges located within the Included heavy coordination with
i. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
MDX Load Ratings, Miami-Dade County, FL.	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE	2009 - 2010 ☐ Check if project pe	erformed with current firm
Structural Engineer responsible for preparing and developing load ratings for 25 MD typical Prestressed Concrete AASHTO Girders, Reinforced Concrete Slab Bridges & Stee bridges was diverse so that some required a more elaborate load rating analysis since they girders and continuous steel plate girders for different spans. All bridges were rated in	el Plate and Rolled Shap had skewed supports, w	pes Girders. The geometry of the vith the combination of AASHTO

Evaluation and Load Resistance Factor Rating (LRFR) of Highway Bridges" as amended by the FDOT Structures Manual, Volume 8.



(Complete one Section E for each key person)

13. ROLE IN THIS 12. NAME 14. YEARS EXPERIENCE CONTRACT

a. TOTAL b. WITH CURRENT FIRM Jorge Vazquez, CBI **Lead Bridge Inspector** 34 4

15. FIRM NAME AND LOCATION (City and State)

Lakes Engineering, Inc.

16. EDUCATION (DEGREE AND SPECIALIZATION)

University of Florida, Gainesville, FL

Bachelor of Building Construction Management

School of Building Construction 1982, Dean's List

Bachelor of Design

School of Architecture, 1981, Dean's List

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

Certified Bridge Inspector #448

19. RELEVANT PROJECTS

a.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

PROFESSIONAL CONSTRUCTION (If applicable) **SERVICES**

Indian Creek Bridge Rehabilitation, Miami-Dade County, FL.

2013 - Current

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

 $\overline{\mathbf{Q}}$ Check if project performed with current firm

Project Administrator responsible for the inspection and construction administration of the rehabilitation of the existing bridge over Indian Creek a pristine navigable waterway. Project includes the design, plans preparation, specifications, and environmental permitting, for the proposed rehabilitation of the existing structure built in 1930. Project goal is to use innovative preservation strategies and actions to extend its useful life and provide the Village with ample time and opportunity to prepare for its eventual replacement. Required heavy coordination with municipality, fire & police, utility coordination, and public involvement for this is the Village's sole means of access.

b.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

D/W Local Government In Depth Bridge Inspection, Miami-Dade/Monroe County, FL

PROFESSIONAL CONSTRUCTION (If applicable) SERVICES

2014 - Current

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Certified Bridge Inspector Project consisted of a total of 346 local government bridges consisting of 11 bascules, 243 underwater inspections, 17 fracture critical inspections and additional interim inspections. Project consisted of the bridge inspection of all Local Government bridges located within the geographical limits of the Department of Transportation District 6 in compliance with Federal and State regulations.

c (1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

Venetian Causeway Bascule Bridge Structural Rehabilitation, Miami-Dade County,

PROFESSIONAL SERVICES

CONSTRUCTION (If applicable)

2013 - 2014

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Project Administrator This project consisted of a rehabilitation of the bascule bridge over the Biscayne Bay. Responsible for the preparation of 60% plans and contract documents for the replacement of the main girder track, electrical conduits, boxes, temporary shoring of the bascule leaf and maintenance of traffic plans. Services included field review, permitting (USCG), specifications, quantities and cost estimates.

${f d}_{f ext{-}}$ (1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

Long Key Bridge Florida, Monroe County, FL

PROFESSIONAL CONSTRUCTION (If applicable) **SERVICES**

2006 - 2007

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Certified Bridge Inspector responsible for the inspection of this segmental bridge that included 103 spans for Long Key and 39 Spans for Niles Channel. Duties included coordination and supervision of inspection teams in the field, and the supervision of the preparation of bridge reports for super & substructure in FDOT format in accordance to Volume 1 Bridge and Other Structures Inspection and Reporting Procedures Manual. The bridge is owned by the FDOT and is located in the Florida Keys.

e. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Niles Channel Bridge- Florida, Keys, Monroe County, FL	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2006 - 2006	
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE	☐ Check if project perfor	med with current firm
Certified Bridge Inspector responsible for the inspection of the Channel Five Bridge values bridge over water. Responsible for the complete inspection of the superstructure inside of	- I	2 2

and Structural items for the Niles Channel Bridge in the Florida Keys.

f. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED
	PROFESSIONAL
Palm Beach International Airport (PBIA) Project, Palm Beach County, FL	SERVICES
• • • • • • • • • • • • • • • • • • • •	2000 - 2003
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE	☐ Check if project performed with current firm

Bridge Project Engineer responsible for the administrative and technical aspects of the bridge portion of the project from letting through the submittal of the final estimate and overseeing cost, schedule, quality, contractor/client interface, status/analysis reporting, on-site management of project personnel and engineering expertise. This is a 105-million dollar project under the Florida Department of Transportation District Four.



(Complete one Section E for each key person)

12. NAME 13. ROLE IN THIS CONTRACT 14. YEARS EXPERIENCE

Nadia G. Locke, P.E., LEED AP ND
Lead Environmental a. TOTAL b. WITH CURRENT FIRM
Engineer 27.1 13.1

15. FIRM NAME AND LOCATION (City and State)

E Sciences, Incorporated, Miami, Florida

16. EDUCATION (DEGREE AND SPECIALIZATION)

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

18. EDUCATION (DEGREE AND SPECIALIZATION)

19. Of the investigation of t

B.S., Materials Science and Engineering Professional Engineer: FL-58676

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

City of Fort Lauderdale Continuing Contract for General Environmental Services,

LEED AP Neighborhood Development; Certified FDEP Stormwater, Erosion and Sedimentation Control Inspector #3263 and Instructor #130, OSHA 40 Hour HAZWOPER / 8 Hour Site Supervisor; NAUI/PADI Advanced Open Water Diver. Memberships: ASCE; NCEES; Florida Brownfields Association; Florida Bar Environmental Law and Land Use Section; ASFE / The Geoprofessional Business Association; Florida Redevelopment Association; Smart Growth Partnership

19. RELEVANT PROJECTS

a.(1) TITLE AND LOCATION (City and State)

Fort Lauderdale, Broward County, Florida

(2) YEAR COMPLETED

PROFESSIONAL SERVICES CONSTRUCTION (If applicable)

2007 - 2015

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Ms. Locke served as the contract manager for the consulting contract to conduct miscellaneous environmental services for the City of Fort Lauderdale. Services conducted to date include emergency response during construction of a fire station; environmental reviews to comply with HUD lending requirements; Phase I and Phase II ESAs; Opinion of post landfill closure costs; contamination assessment services; asbestos surveys; development of construction documents for working in contaminated areas; endangered species surveys, permitting and relocation; and indoor air quality completed. Sistrunk Boulevard Streetscape Enhancement: Originally slated as a stimulus project where funds were being disbursed through the FDOT District Four, Ms. Locke conducted a Level 2 assessment of a 1.5-mile corridor streetscape enhancement project located in the heart of the CRA. Data was compiled and reported, and environmental notes/bid specification language was developed for bidding purposes. Ms. Locke also engaged the CRA in avoidance and minimization considerations and assisted the CRA with managing risks associated with environmental issues during construction completed in 2010. Pre-Demolition Asbestos Surveys for Low Level Bridges: Ms. Locke was the project manager for asbestos surveys on three bridges in Fort Lauderdale completed in 2010. The survey scope and reports were coordinated with FDOT District Four PL&EM Department staff in order to satisfy FDOT requirements and project needs, as FDOT was providing funding for the demolition and reconstruction of these bridges. Contract Budget/Fees: \$269,860

b.(1) TITLE AND LOCATION *(City and State)*

(2) YEAR COMPLETED

City of Miami Beach Environmental Engineering Continuing Services, Miami Beach, Miami-Dade County, Florida PROFESSIONAL CONSTRUCTION (If applicable)

SERVICES

2011 – 2015

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Ms. Locke is the contract manager for the consulting contract to conduct miscellaneous environmental services for the City of Miami Beach. Services conducted to date include Groundwater Elevations Monitoring and Mapping Project (Sea Level Rise Study), preparation of spill prevention control and countermeasure plans for 12 facilities including pump stations, fire stations, public works yard, the Convention Center assessment, tree canopy analysis, assessment and regulatory closure of the green waste facility. Contract Budget/Fees: \$313,735

C (1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

Pompano Beach CRA , Continuing Contract for Environmental Engineering Services, Pompano Beach, Broward County, Florida

PROFESSIONAL CO SERVICES

CONSTRUCTION (If applicable)

2010 - Ongoing

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Ms. Locke is the contract manager for E Sciences' continuing services contract with the Pompano Beach CRA. Through this contract, E Sciences has conducted Phase I and Phase II ESAs for several parcels in preparation for the CRA's redevelopment planning. Ms. Locke worked with the CRA to consider options on how to safely manage the identified contamination during the planning stages. Community Gardens: E Sciences evaluated the suitability of three vacant, CRA-owned parcels for use as community gardens for the local school. The community gardens will be used to teach children about agriculture and healthy food choices. Vegetables grown on these lots will be used to provide fresh vegetables for families and children in the community. E Science applied Incremental Sampling Methodology (ISM) to evaluate the potential presence of soil contamination at the site. Broward Community & Family Health Center: E Sciences prepared Environmental Information and Documentation to satisfy Health Resources and Services Administration grant application requirements. The project was conducted to support the potential redevelopment of CRA parcels with a much needed community health care facility. The documentation was required for the grant applicant to comply with NEPA. Contract Budget/Fees: \$153,911

d.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

FDOT District Four Districtwide Environmental Services Contract, Broward, Palm Beach, Martin, St. Lucie and Indian River Counties, Florida PROFESSIONAL CONSTRUCTION (If applicable)
SERVICES

2005 - 2010

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Ms. Locke provided technical support to District Four's Planning and Environmental Management department. In this role, she provided leadership in identifying and resolving environmental issues with the potential to impact design, construction and permitting of transportation-related projects. This included fast-track design of a wetland mitigation to off-set impacts from stimulus projects. She has also conducted Construction Completion Certifications for roadway projects where drainage structures constructed did not meet permit requirements and required extensive coordination to resolve issues. Contract Budget/Fees: \$500,000

e. (1) TITLE AND LOCATION (City and State)		'EAR COMPLETED	
Sullivan Park Expansion Project,		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
City of Deerfield Beach CRA, Broward County, Florida	2	2014 – Ongoing	
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE			formed with current firm
The City of Deerfield Beach CRA received grant funding to improve its Sullivan Park p	property le	ocated on the Intra	acoastal Waterway. Improvements
include upland features (i.e. new bathroom facilities, a splash park, landscaping, etc.) a			
paddle boarding and finger piers for boats. E Sciences was engaged by the project des include conducting a benthic resource survey, coordinating with the permitting agencies			
project manager for this project. Project Budget/Fees: \$35,333	o and pro	paring perinic app	112111111111111111111111111111111111111
f. (1) TITLE AND LOCATION (City and State)		EAR COMPLETED	
River Oaks Preserve Stormwater Park		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
City of Fort Lauderdale, Florida		2014 - 2015	
3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE	☑ Che	ck if project perf	ormed with current firm
The purpose of the project was to create a passive stormwater park with wetland featu			
provide recreational use for local residents. Ms. Locke provided engineering support for			
and permitting for this stormwater park. She also assisted with the development of a sur park was intended to preserve and enhance existing forested wetlands on site and resto			
community that will alleviate flooding in the River Oaks neighborhood. Project Budget/F			to a stormwater pond/inter marsh
g. (1) TITLE AND LOCATION (City and State)			EAR COMPLETED
HUD Environmental Review - Old Pompano Improvements		PROFESSIONAL	CONSTRUCTION (If applicable)
Pompano Beach, Broward County, Florida		SERVICES	
• '		2014	reference and writing assume and firms
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE			erformed with current firm
E Sciences prepared the environmental documents necessary for the City of Pompan improvements for Old Pompano. The purpose of the project is to revitalize the downtown			
comprise the central core of Old Pompano. In addition, the streetscape design and sp			
continue and complement efforts in the Community Redevelopment Area neighboring the		_	
for this project. Project Budget/Fees: \$39,102			
h. (1) TITLE AND LOCATION (City and State)	(2) \	EAR COMPLETED	
Basin Management Plan, Water Quality Improvement Grant and Bank Stabilization	n	PROFESSIONAL	CONSTRUCTION (If applicable)
Project for the North Fork of the New River, Fort Lauderdale, Broward County, Flo		SERVICES	
		2005 – 2010	arformed with ourrent firm
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE			erformed with current firm
E Sciences provided key technical support, field studies and document preparation for Ms. Locke worked with representatives from the City of Fort Lauderdale, Broward Count			
to seek funding through Section 319 of the federal Clean Water Act and develop a basin a			
Lauderdale, Florida. This project involved estimating pollutant loads from the various	non-poin	t sources in Fort	Lauderdale as well as identifying
public outreach and structural projects that would improve the water body's water qualit			
and C-13 canals (upstream), stormwater outfall retrofits and public education to improve Ms. Locke also managed E Sciences' efforts for a bank stabilization project for the North			
of a Broward County school and therefore required coordination and management for sec			
		g-	
i. (1) TITLE AND LOCATION (City and State)	<u>(2)</u>	YEAR COMPLETED)
Gilbert Samson Oceanfront Park Coastal Construction Control Line Permit, City	of	PROFESSIONAL	CONSTRUCTION (If applicable)
Sunny Isles Beach, Broward County, Florida	-	SERVICES	
•		2014 – 2015	

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Ms. Locke provided technical support for this project. E Sciences conducted an ecological assessment and mapped the vegetative communities at the site. E Sciences coordinated with the FDEP, and their commenting agency, the FWC prior to application. The permit was received without requests for additional information from the agencies. Project Budget/Fees: \$6,945



(Complete one Section E for each key person)

12. NAME 13. ROLE IN THIS CONTRACT 14. YEARS EXPERIENCE

Justin Freedman, MS, CA, CLI
Senior Scientist
a. TOTAL
b. WITH CURRENT FIRM
12.9
7.8

15. FIRM NAME AND LOCATION (City and State)

E Sciences, Incorporated, Miami, Florida

16. EDUCATION (DEGREE AND SPECIALIZATION)

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

M.S., Marine Biology B.A., Biology

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

City of Fort Lauderdale Continuing Contract for General Environmental Services,

Certified Arborist, FL 5488A; Tree Risk Assessment Qualification (ISA); FDEP Certified Erosion and Sediment Control Inspector and Instructor; Certified Manatee Observer; PADI Advanced Open Water, Enriched Air Certified Diver; Certified Landscape Inspector; Certified Green Industries Best Management Practices Instructor; Certified in Advanced Maintenance of Traffic. Memberships: Florida Chapter of the International Society of Arboriculture; International Society of Arboriculture; Florida Urban Forestry Council; Landscape Inspectors Association of Florida; South Florida Association of Environmental Professionals; Southeast Florida Coral Reef Initiative

19. RELEVANT PROJECTS

a.(1) TITLE AND LOCATION (City and State)

Fort Lauderdale, Broward County, Florida

(2) YEAR COMPLETED

PROFESSIONAL SERVICES CONSTRUCTION (If applicable)

2007 - 2015

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Fort Lauderdale Executive Airport Burrowing Owl Survey: Mr. Freedman conducted burrowing owl surveys and prepared the permit application. Benthic Surveys for Sylvan Lake Canal & Seminole River Canal: E Sciences conducted benthic resources surveys to support dredging projects in two City-maintained waterways. E Sciences' biologists snorkeled each site to observe the presence of regulated benthic resources (i.e. seagrasses, corals, etc.). E Sciences' staff provided the City reports to accompany their permit applications. Mr. Freedman managed this project task. Contract Budget/Fees: \$269,860

b.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

City of Miami Beach Environmental Engineering Continuing Services, Miami Beach, Miami-Dade County, Florida PROFESSIONAL CONSTRUCTION (If applicable)
SERVICES

2011 - 2015

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Groundwater Elevations Monitoring and Mapping Project (Sea Level Rise Study): The purpose of the study was to evaluate low lying areas vulnerable to sea level rise within the City based on the assumption that the groundwater levels under the City are tidally influenced and therefore flooding may also be influenced or exacerbated by tidal fluctuations. To accomplish this, the E Sciences Team monitored groundwater elevations and other data over a period of seven months. The elevation data collected was used in conjunction with Light Detection and Ranging (LiDAR) topography and tidal data to model vulnerability to provide a basis for the City to determine stormwater priorities. Mr. Freedman assisted on the preparation of the report for the City. He also presented the findings of this study at the 2013 Annual South Florida Association of Environmental Processionals Symposium. Canopy Analysis: Mr. Freedman served as the senior scientist for this canopy analysis project for the City. Using i-Tree Canopy, he and his team estimated the canopy coverage for the City's urban forest, as well as percentage of available space remaining within the City for additional tree planting. Mr. Freedman developed a one-page brochure for public education documenting the information from the study. Street Tree Inventory: Mr. Freedman served as the senior scientist for two phases of street tree inventories for the City. The two phases encompassed the Normandy Shores and Normandy Isles neighborhoods. Contract Budget/Fees: \$313,735

C (1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

Pompano Beach CRA, Continuing Contract for Environmental Engineering Services, Pompano Beach, Broward County, Florida

PROFESSIONAL CONSTRUCTION (If applicable)
SERVICES

2010 - Ongoing

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Martin Luther King Boulevard NEPA Review: E Sciences prepared the Type I and Programmatic Categorical Exclusion Checklist and Memo for this streetscape improvement project between NW 31st Avenue and Powerline Road. This project is one segment of a planned, multi-city education corridor partially funded through the FDOT LAP. The environmental review included coordination with the State Historic Preservation Office regarding a potentially historic site and an inventory of community and cultural resources. Mr. Freedman assisted with the field review and coordination on this project. SW 36th Avenue Pedestrian Bridge Path LAP Project Design and Permitting: In addition to the work conducted under this CRA contract, E Sciences assisted with the environmental permitting for a pedestrian path project for the City. Tasks included conducting field assessments of wetland and tree impacts, assisting with permit application packages and coordinating with the permitting agencies and FDOT. Mr. Freedman managed and provided coordination for this project task. Contract Budget/Fees: \$153,911

d.(1) TITLE AND LOCATION (City and State)

Districtwide NPDES Permit Compliance

(2) YEAR COMPLETED

PROFESSIONAL SERVICES

CONSTRUCTION (If applicable)

FDOT District Four, Florida

2008 - Ongoing

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

This project involves assisting the FDOT implement and maintain their Phase I and Phase II MS4 NPDES permits. Tasks include stormwater facility and outfall inspections, coordination with agencies and co-permittees, and preparing Annual Reports for submittal to the FDEP. In addition, E Sciences provides technical support as the TMDL program is implemented, including attending BMAP meetings, preparing basin GIS layers, compiling treatment inventory, calculating pollution loads and pollution load reductions, and assessing the FDEP TMDL models. Contract Budget/Fees: \$3,500,000

e. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Sullivan Park Expansion Project,	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
City of Deerfield Beach CRA, Broward County, Florida	2014 - Ongoing	
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE	☑ Check if project perf	formed with current firm
The City of Deerfield Beach CRA received grant funding to improve its Sullivan Park proinclude upland features (i.e. new bathroom facilities, a splash park, landscaping, etc.) and paddle boarding and finger piers for boats. E Sciences was engaged by the project design include conducting a benthic resource survey, coordinating with the permitting agencies project manager for this project. Project Budget/Fees: \$35,333	d in-water infrastructure i gn firm to provide permit and preparing permit app	ncluding a dock for kayaking and ting support. E Sciences' services
f. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED PROFESSIONAL	CONSTRUCTION (If applicable)
Gilbert Samson Oceanfront Park Coastal Construction Control Line Permit, City of Sunny Isles Beach, Broward County, Florida	SERVICES	CONSTRUCTION (II applicable)
	2014 - 2015	
3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE	Check if project perform	ormed with current firm
The City of Sunny Isles is improving the Samson Oceanfront Park and hired a firm to design the Coastal Construction Control Line permitting for the project. Tasks included conducting permit applications. Mr. Freedman serves as project manager for this project. Project Budg	g vegetative analysis and	
g. (1) TITLE AND LOCATION (City and State)	(2) Y	EAR COMPLETED
Historic Vizcaya Southern Lagoon & Northern Canal Tidal Swamp Landscape Environmental Restoration Plan, Miami, Miami-Dade County, Florida	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE	2012 – 2014	South Canal – 2014 erformed with current firm
This project involved a multi-disciplinary landscape architecture and environmental res museum's property, which balanced ecological function with creative landscape aesthetiwater quality, and planting designs based on historic flora inventories, including mangrove Freedman served as the project manager for the construction administration portion of thi conducting compliance inspections. Project Budget/Fees: \$123,412	cs, recreational functions es, native hardwood hamm	and values, and improvements to ock and coastal scrub species. Mr.
h. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
FDOT District Four Districtwide Environmental Services Contract	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Broward, Palm Beach, Martin, St. Lucie and Indian River Counties	2005 - 2010	
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE	☐ Check if project pe	erformed with current firm
Mr. Freedman served three days a week as in-house environmental specialist in the FDO Office. Tasks included performing environmental phase reviews and preparing and review projects including field identification of listed species habitat, wetlands, historic resources, \$500,000	wing NEPA documentation	on for over 70 roadway and bridge
i. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED)
River Oaks Preserve Stormwater Park	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
City of Fort Lauderdale, Florida	2008 - 2012	

☐ Check if project performed with current firm

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

The purpose of the project was to create a passive stormwater park with wetland features to relieve flooding in the River Oaks neighborhood and provide recreational use for local residents. Mr. Freedman provided permitting support for this project. Project Budget/Fees: \$22,050



CONSTRUCTION (If applicable)

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person)

13. ROLE IN THIS 12. NAME 14. YEARS EXPERIENCE CONTRACT

a. TOTAL b. WITH CURRENT FIRM **Daniel Checchia Subsurface Utility** 19

Engineering and Utility Coordination Manager

15. FIRM NAME AND LOCATION (City and State)

Keith and Associates, Inc., Pompano Beach, Florida

16. EDUCATION (DEGREE AND SPECIALIZATION) 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

AS Applied Science in Construction Technology, Suffolk

Community College, 2008

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

FDOT Maintenance of Traffic

19. RELEVANT PROJECTS

PROFESSIONAL

a.(1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED

SERVICES FDOT D4 Cobb Bridge Fishing Pier (St. Lucie, Florida)

2016

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm

Keith and Associates is providing utility designation, mapping and utility coordination services for the new observation walk. K&A is working with local UAO's to resolve any conflicts with the new design. Keith and Associates is currently working with the city of Fort Pierce to remove their existing waterline from the bridge prior to construction.

b.(1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED CONSTRUCTION (If applicable) **PROFESSIONAL SERVICES** FDOT D4 St. Lucie West Interchange Improvements (St. Lucie, Florida) On-going

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm

The improvements entail a proposed new 3-lane concrete bridge at the interchange of I-95 at St. Lucie West Boulevard. Within the limits of the project, there are eight Mast Arms and two Overhead Structures, an extensive number of overhead transmission lines to the West of the bridge and seven identified UAOs. As a subconsultant to HDR Engineering, Keith and Associates will provide utility coordination services. Mr. Checchia is managing the utility coordination efforts.

C (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED **PROFESSIONAL** CONSTRUCTION (If applicable) FDOT D4 Ravenswood Bridge Replacement (Fort Lauderdale, Florida) SERVICES 2014 2014

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm Mr. Checchia served as the utility coordination manager. As a sub-consultant to Bolton Perez & Associates, Keith and Associates managed the Utility Coordination for this Bridge Replacement Project on Ravenswood Rd., north of Griffin Rd. Our Design ticket with Sunshine State One Call of Florida identified twelve (12) Utility Agencies and the Broward County Traffic Engineering Dept. Several Utility Meetings were conducted to clarify the construction phasing and Utility involvement. Five (5) Utility Agencies (MCI/Verizon, Buckeye Pipeline, City of Dania Beach, Level 3, and Florida Gas Transmission) had facilities in the area but were not involved in the Project and we negotiated/coordinated six (6) Non-Reimbursable Utility Work Schedules (AT&T, Comcast, FPL Distribution, FPL Transmission, FPL Fibernet, and TECO Peoples Gas). Broward County Water and Wastewater entered into a "Utility Work by Highway Contractor Agreement" for the Engineering and Design of the relocation/adjustment of the water and sanitary lines that were impacted by this bridge replacement project. Utility Certification was completed on

schedule.. **d.**(1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED CONSTRUCTION (If applicable) PROFESSIONAL FDOT D4 Replacement of Little Blue Heron Bridge and Little Lake Worth Bridge SERVICES (Palm Beach County, Florida) 2011 2011

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

To support the design-build of the replacements for the bridges over Little Blue Heron and Little Lake Worth, Mr. Checchia provided utility coordination services to assist with the identification of utilities within the project limits, research and compile all pertinent information (i.e. construction schedules, etc) and facilitate the successful resolution between the Department and the affected Utility Agency Owners over utility and design conflicts. Mr. Checchia also provided designating (ASCE Quality Level B) and locating (ASCE Quality Level A) subsurface utility engineering services to map the precise position of existing underground utilities within the project limits.

☐ Check if project performed with current firm

e. (1) TITLE AND LOCATION (City and State)

S.E. 8th Court Bridge Replacement (Pompano Beach, Florida)

SERVICES

2012

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

Mr. Checchia provided utility location support for the design of the bridge. Utility designation (QL-B) and locates (QL-A) were performed to assist the design team in identifying existing utilities within the proposed footprint.



CONSTRUCTION (If applicable)

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person)

13. ROLE IN THIS 12. NAME 14. YEARS EXPERIENCE CONTRACT

a. TOTAL b. WITH CURRENT FIRM Lee Powers, PSM Project Surveyor/GIS

Specialist

15. FIRM NAME AND LOCATION (City and State)

Keith and Associates, Inc., Pompano Beach, Florida

16. EDUCATION (DEGREE AND SPECIALIZATION) 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

BS Land Surveying & Geomatics Engineering, Purdue

University, 2005

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

Florida Society of Professional Surveyors & Mappers, BIM Smart Foundation, Member, BuildingSMART Foundation Member.

Certifications: Transportation Worker Identification Credential (TWIC), FDOT Maintenance of Traffic

19. RELEVANT PROJECTS

a.(1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED

FDOT D4 Ravenswood Bridge Replacement (Fort Lauderdale, Florida)

SERVICES 2014 2014

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

Check if project performed with current firm

Mr. Powers served as the project surveyor for the replacement of the Ravenswood Bridge over the Dania Cut-Off Canal, on Ravenswood Rd., North of Griffin Rd. As a sub-consultant to Bolton Perez & Associates, Keith and Associates managed the Survey and Utility Coordination. Mr. Powers performed full topographic survey from Right-of-Way to Right-of-Way on the North and South sides of the bridge. He also mapped the utility designations.

b.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

PROFESSIONAL

PROFESSIONAL CONSTRUCTION (If applicable) **SERVICES**

FDOT D4 SR-80 at Forest Hill Boulevard (Palm Beach County, Florida)

On-going

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

Check if project performed with current firm

This project entails intersection improvements at Southern Boulevard SR 80 and Forest Hill Boulevard, including the widening of the bridge over the C-51 canal. As a subconsultant to Inwood Engineers, Keith and Associates is providing surveying, utility designation and coordination and landscape architecture services. The survey includes a topographic survey of the roadway, subsurface utilities, canal cross sections and a detailed bridge survey that resulted in a comprehensive 3D model. Mr. Powers is the project surveyor.

c (1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

FDOT D4 Juanita Avenue Bridge Replacement (Fort Pierce, Florida)

PROFESSIONAL CONSTRUCTION (If applicable)

SERVICES

2012 2012

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Mr. Powers served as the project surveyor in support of the construction-portion of the project. Keith and Associates was responsible for setting new primary and secondary control points as needed to support the survey and construction needs of the project, including recovering the baseline of Juanita Avenue, setting primary and secondary control, topography/DTM survey, detailed bridge survey, canal cross sections and other miscellaneous survey support.

d.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

SERVICES

PROFESSIONAL CONSTRUCTION (If applicable)

S.E. 8th Court Bridge Replacement (Pompano Beach, Florida) 2012

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Mr. Powers was the Project Surveyor for this design and reconstruction project including right of way and design survey, utility location and bathymetric survey for the replacement of an existing substandard municipal bridge. The specific survey work associated with this project included hydrographic, topographic and design survey associated with the proposed design of the replacement bridge and seawall as well as as-builting the required improvements upon completion of construction to provide the necessary final certification documentation to the designer.

e.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

Hillsboro Boulevard Inlet Park & Seawall (Pompano Beach, Florida)

PROFESSIONAL CONSTRUCTION (If applicable)

SERVICES

2010

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

This project consisted of the replacement of the existing seawall for the park adjacent to the Hillsboro Inlet in Pompano Beach, Florida. The project required hydrographic and topographic survey of the inlet cross-section and shoreline to facilitate the design, permitting, and replacement of the existing seawall as well as as-built surveys of existing boat slips. Because much of the project was located seaward of the Coastal Construction Control Line, the surveys were performed in accordance with the requirements of the Florida Department of Environmental Protection-Division of Beaches and Shores as set forth in Section 62B-33.0081.

2012



(Complete one Section E for each key person)

13. ROLE IN THIS 12. NAME 14. YEARS EXPERIENCE CONTRACT

a. TOTAL b. WITH CURRENT FIRM Angela L. Alba, PE **Senior Geotechnical** 3 Engineer

15. FIRM NAME AND LOCATION (City and State) AREHNA Engineering, Inc., Coral Springs, FL 16. EDUCATION (DEGREE AND SPECIALIZATION)

Bachelor of Science, Civil Engineering

University of Puerto Rico

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

Professional Engineer, Florida Registration No. 58538

Master of Science, Civil Engineering (Geotechnical)

Massachusetts Institute of Technology

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

Ms. Alba has provided geotechnical engineering services on numerous geotechnical explorations over the past 18 years, recently serving as the Geotechnical Discipline Lead for the I-595 Corridor Improvement project in Broward County, Florida, which is the first Public-Private-Partnership (P3) projects ever awarded by FDOT. Ms. Alba has been involved in the planning, analysis, execution, and review of geotechnical projects ranging from roadway and railways to complex roadway bridge and tunnel projects to commercial high-rise buildings, school projects, and other local municipality projects. Ms. Alba has performed evaluations for retaining walls, drainage structures, shallow foundations, driven piles, drilled shafts, augercast piles, micropiles, and pressure injected footings. Ms. Alba experience has also included finite element analysis, slope stability evaluations, soil nail wall design, and evaluation of geosynthetics applications, and geotechnical ground improvement techniques.

19. RELEVANT PROJECTS

a.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

PROFESSIONAL SERVICES

CONSTRUCTION (If applicable)

MDX SR 836 Bridge 7 over NW 12th Street

Miami-Dade County, Florida

2016 - Current

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

Check if project performed with current firm

Senior Geotechnical Engineer - Geotechnical explorations for the partial reconstruction of the interchange which includes replacement of all SR 836 bridges over NW 87th Ave and associated ramp improvements. Our scope of work is to support the Cost Savings Initiative (CSI) to redesign the SR 836 Westbound Flyover Ramp (Ramp D-3) over NW 12th Street from two span plate girder bridge to a single span steel box bridge along with redesign of the proposed MSE Walls at the bridge approaches.

b.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

PROFESSIONAL SERVICES

CONSTRUCTION (If applicable)

SR 84/ I-595 at NW 136th Avenue, District Four, Broward County, FL

2016 - Current

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Senior Geotechnical Engineer - Ms. Alba is serving as the Senior Geotechnical Engineer for this off-system bridge widening project that includes new overhead sign structures and turn lanes.

c (1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

PROFESSIONAL

CONSTRUCTION (If applicable)

Jewfish Creek Replacement Bridge, FDOT District Six, Key Largo, FL

SERVICES 2005 - 2008

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Senior Geotechnical Engineer - Ms. Alba provided geotechnical engineering, drilling, laboratory testing and in support of the Granite/Jacobs Design Build Team for the US-1 Highway bridge over Jewfish Creek Bridge in Monroe County, Florida. The project consisted of replacement of Jewfish Creek Bridge, 1 1/2 -mile-long bridge over the Intra-Coastal Waterway, along with the widening of 5 miles of approach road.

d.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

PROFESSIONAL

CONSTRUCTION (If applicable)

5th Street Bascule Bridge Replacement FDOT District 4, FL

SERVICES 2004 - 2010

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Senior Geotechnical Engineer - Ms. Alba also provided geotechnical information related to drainage design, including double ring infiltrometer, corrosivity testing, and borehole exfiltration testing. Mr. Roos was the Chief Engineer for this project.

e.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

PROFESSIONAL SERVICES

CONSTRUCTION (If applicable)

Districtwide Geotechnical Services Contract FDOT District 4, Florida

2014

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Contract Manager - Ms. Alba served as the Contract Manager/ Project Manager responsible of communications with FDOT's Project Manager, scope development, proposal preparation, providing technical oversight, and invoicing. She was responsible of exploring engineering/ design alternatives that could reduce project costs and schedule timeline.



(Complete one Section E for each key person)

12. NAME 13. ROLE IN THIS CONTRACT 14. YEARS EXPERIENCE

Amy L. Guisinger, PE

Geotechnical Engineer

a. TOTAL

b. WITH CURRENT FIRM

16

<1

15. FIRM NAME AND LOCATION (City and State)

AREHNA Engineering, Inc., Coral Springs, FL

Master of Science, Civil Engineering, Geotechnical Focus

16. EDUCATION (DEGREE AND SPECIALIZATION)

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

Professional Engineer, Florida Registration No. 63989

University of South Florida

Bachelor of Science, Civil Engineering

University of Florida

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

Ms. Guisinger is a Senior Professional Engineer at AREHNA Engineering, Inc. Experience includes roadway, bridge, retaining wall, retention ponds and ground subsidence projects where she has performed shallow and deep foundation analyses, retaining wall and soil anchor system design, settlement and slope stability analyses, and pavement evaluation. Ms. Guisinger provided engineering support on District Wide Geotechnical Services Contracts for FDOT District 1 and 7 for 14 years. Ms. Guisinger has also worked on several bridge and roadway projects for the Florida Department of Transportation, Districts 1, 2, 3, 4, and 7.

19. RELEVANT PROJECTS

a.(1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED

MDX SR 836 Bridge 7 over NW 12th Street

Miami-Dade County, Florida 2016 - Current

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

Zi Check if project performed with current firm

Geotechnical Engineer - Geotechnical explorations for the partial reconstruction of the interchange which includes replacement of all SR 836 bridges over NW 87th Ave and associated ramp improvements. Our scope of work is to support the Cost Savings Initiative (CSI) to redesign the SR 836 Westbound Flyover Ramp (Ramp D-3) over NW 12th Street from two span plate girder bridge to a single span steel box bridge along with redesign of the proposed MSE Walls at the bridge approaches.

b.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

PROFESSIONAL SERVICES

PROFESSIONAL

SERVICES

CONSTRUCTION (If applicable)

CONSTRUCTION (If applicable)

SR 710 / Beeline Highway, Palm Beach County, FL

2016 - Current

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Geotechnical Engineer - The project includes five miles of roadway widening, bridge replacement at the Turnpike, intersection improvements, drainage ponds, and miscellaneous signal and overhead sign structures. The Turnpike bridge over SR-710 will consist of an 8-lane section with accommodations for future express lanes with buffers. Intersection improvements are planned at Blue Heron Boulevard, Haverhill Road, Jog Road, and Northlake Boulevard.

C (1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

US 19 from Seville Boulevard to North of SR 60, Pinellas County, FL

PROFESSIONAL SERVICES CONSTRUCTION (If applicable)

2016

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Senior Geotechnical Engineer - Performed subsurface explorations, supervised laboratory testing program and provided recommendations for foundations, pavement, and retention/detention areas for proposed roadway improvements. Planned improvements included constructing six-lane divided urban roadway with two-lane, one-way frontage roads on each side of U.S. 19. Improvements also included a bridge structure over Allen's Creek continuing over Belleair Road along with associated retaining walls, drainage structures and box culvert, and miscellaneous overhead sign, signal and ITS poles.

d.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

US 27 Design-Build from Barry Road to US 192 FDOT District 1, Polk County, FL PROFESSIONAL SERVICES

CONSTRUCTION (If applicable)

2015

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Senior Geotechnical Engineer - The design-build project consisted of widening over four miles of rural roadway to six lanes, including widening of the US 27 bridge over US 192. Ms. Guisinger was responsible for coordination of the subsurface exploration, laboratory testing and foundation design analyses, recommendations regarding appropriate foundation alternatives and providing geotechnical recommendations and analyses for the proposed Walls and miscellaneous structures.



(Complete one Section E for each key person)

13. ROLE IN THIS 12. NAME 14. YEARS EXPERIENCE CONTRACT

a. TOTAL b. WITH CURRENT FIRM **Angel Gardner** Public Involvement,

10 **Public Outreach Public**

Information

15. FIRM NAME AND LOCATION (City and State)

Quest Corporation of America, Inc., Land O' Lakes FL

16. EDUCATION (DEGREE AND SPECIALIZATION) 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

B.S., Journalism, Northwestern University N/A

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

PROFESSIONAL DEVELOPMENT & TRAINING

- **FDOT Public Involvement Training**
- Federal Emergency Management Agency Public Information Officer On-Line Training Course
- **FDOT Contract Plans Reading Course**

19. RELEVANT PROJECTS

a.(1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED

FDOT District Four, Flagler Memorial Bridge Replacement Project West Palm Beach, FL

Current

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm Ms. Gardner serves as the public information officer for this \$105 million project that calls for replacing the aging bascule Flagler Memorial Bridge

with a new bascule bridge over the Lake Worth Lagoon and the Intracoastal Waterway, connecting the City of West Palm Beach and the Town of Palm Beach. For this project, she is responsible for all public outreach and communications and works directly with local media, elected officials and stakeholders to provide detailed information and keep all up-to-date with the various activities on this project. She is part of an interagency coordination team comprised of Town of Palm Beach, City of West Palm Beach, Palm Beach County and emergency response agencies to ensure that the public is fully aware of upcoming activities and events. She is the primary point of contact for all questions and comments and serves as the project spokesperson handling all media requests and interviews.

b.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

FDOT District Four, University Drive Design Project **Broward County, FL**

SERVICES

PROFESSIONAL

SERVICES

PROFESSIONAL CONSTRUCTION (If applicable)

CONSTRUCTION (If applicable)

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

Current ☑ Check if project performed with current firm

Ms. Gardner is part of the public involvement team for the design phase of this capacity project to widen University Drive from four to six lanes between Cardinal Road/NW 40th Street and Sawgrass Expressway. Ms. Gardner provides critical support in reaching out to stakeholders, providing ongoing public outreach and organizing public meetings.

C (1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

FDOT District Four, State Road 84/I-595 at NW 136th Avenue Design Project **Broward County, FL**

PROFESSIONAL

CONSTRUCTION (If applicable) **SERVICES**

2016 - Current

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

City of Coral Springs, Sample Road Water and Sewer Line

☑ Check if project performed with current firm

Ms. Gardner developed the Community Awareness Plan for the design phase of the intersection improvement project at SR 84 and NW 136th Avenue. Ms. Gardner laid out a comprehensive plan to engage and receive input from elected officials, business owners, residents and other key stakeholders at this busy intersection in the heart of western Broward County where three cities - Sunrise, Plantation and Davie - converge. Ms. Gardner identified issues that could arise as turns lanes are added to improve traffic flow and relieve congestion at the intersection. Those issues include access to residences and businesses as well as potential interference with a regional greenway.

d.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

PROFESSIONAL CONSTRUCTION (If applicable) **SERVICES**

Replacement Coral Springs, FL

Current

 $\overline{\mathbf{V}}$ Check if project performed with current firm

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE Ms. Gardner is the public information officer for this Coral Springs project for water and sewer improvements in the downtown area. In this project that will close a busy section of Sample Road from University Drive to Coral Hills Drive, Ms. Gardner is responsible for outreach to nearby businesses, residents and other major stakeholders. She is responsible for coordinating public meetings, attending special events to promote the improvements and developing project specific collateral materials. In addition, Ms. Gardner works closely with the city's communications and marketing director to reach a broader audience through traditional and social media as well as through the city's other communications channels. During construction, Ms. Gardner will be the main point of contact for project issues and regularly provide project updates and advisories to the traveling public as well as local officials.



(Complete one Section E for each key person)

13 ROLF IN THIS 12. NAME 14. YEARS EXPERIENCE CONTRACT

a. TOTAL b. WITH CURRENT FIRM Leigh-Ann Dawes Public Involvement,

Public Outreach Public

Information

15. FIRM NAME AND LOCATION (City and State)

Quest Corporation of America, Inc., Land O' Lakes FL

16. EDUCATION (DEGREE AND SPECIALIZATION)

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

M.S., Global Strategic Communications, 2011, Florida N/A

International University

B.A., English Literature, Minor in Communications,

2006, Florida State University

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

PROFESSIONAL DEVELOPMENT & TRAINING

- **FDOT Contract Plans Reading Training**
- **FDOT Public Involvement Training**
- Federal Emergency Management Agency Public Information Officer On-Line Training Course

19. RELEVANT PROJECTS

(2) YEAR COMPLETED a.(1) TITLE AND LOCATION (City and State)

City of Coral Springs, Sample Road Water & Sewer Replacement Lines Project Coral Springs, FL

PROFESSIONAL CONSTRUCTION (If applicable) **SERVICES**

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Ms. Dawes leads the public information campaign for this project by working closely with the City of Coral Springs, its residents, and businesses. She facilitated a public information meeting for concerned residents and business owners and helped them to understand the nature of the project. Ms. Dawes answers calls from the public and neighboring businesses 24/7 so that all issues or concerns are addressed. While working closely with

the City's contractor she provides the City with weekly updates on the progress of the sewer line installations.

b.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

FDOT District Four, University Drive Design Project **Broward County, FL**

PROFESSIONAL **SERVICES**

Current

CONSTRUCTION (If applicable)

Current

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Ms. Gardner is part of the public involvement team for the design phase of this capacity project to widen University Drive from four to six lanes between Cardinal Road/NW 40th Street and Sawgrass Expressway. Ms. Gardner provides critical support in reaching out to stakeholders, providing ongoing public outreach and organizing public meetings.

c (1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

FDOT District Four, State Road 84/I-595 at NW 136th Avenue Design Project **Broward County, FL**

PROFESSIONAL CONSTRUCTION (If applicable)

SERVICES

2016 - Current

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Ms. Dawes plays a vital role in the support of the State Road 84/I-595 intersection at NW 136th Avenue. During the design phase she has performed outreach to engage and receive input from elected officials, business owners, residents and other key stakeholders at this busy intersection where the cities of Sunrise, Plantation and the Town of Davie meet. Ms. Dawes' role is to liaison with the community and the project team to help the public understand the improvements to the traffic flow and access for residences and businesses.

d.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

FDOT District Four, NW 19th Street Design Project **Broward County, FL**

PROFESSIONAL **SERVICES**

CONSTRUCTION (If applicable)

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

Current

 \square Check if project performed with current firm

Ms. Dawes is providing support to improvements to the FDOT NW 19th Street project. The design project includes four foot bike lanes throughout the project limits with lane reductions. Ms. Dawes is leading the coordination of the public meeting and liaising with community stakeholders to capture consensus to work towards a successful project.

e.(1) TITLE AND LOCATION (City and State)

(2) YEAR COMPLETED

Broward MPO, Broward Mobility Hub **Broward County, FL**

PROFESSIONAL SERVICES

CONSTRUCTION (If applicable)

Current

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE

 \square Check if project performed with current firm

Ms. Dawes is leading public involvement efforts for the Broward MPO's Broward Mobility Hub Planning and Design Project. The Broward Mobility Hub, a low-density suburban development will encompass the Hollywood Boulevard and State Road 7 intersection and link all modes of transportation in this automobile-dominated area. Ms. Dawes is providing insight on the varying concerns of all stakeholders in the area as well as how to reach the multi-ethnic communities within the 30-mile span of the City of Hollywood.

20. Example project key number:

1

21. Title and location: (City and State)
 22. Year completed:
 Design-Build Venetian Causeway Bridge
 Professional service:

Professional services: C

Construction: (If applicable)

2016

2014

23. Project owner's information:

Rehabilitation, Miami-Dade County

A. Project owner:

B. Points of contact name:

C. Point of contact telephone number: 305-371-2777

Miami-Dade County

William Junkin, P.E. – GLF Construction

24. Brief description of project and relevance to this contract (Include scope, size, and cost)

Lakes Engineering, Inc.'s personnel provided structural design services for the rehabilitation of the Venetian Causeway Bridge. This Design-Build (DB) project includes design and construction to rehabilitate the westernmost portion of the historical Bridge No. 874459 / Venetian Causeway. The project involved the removal of approximately 730 linear feet of the existing bridge (#874459) from the west abutment (begin bridge) to the expansion joint in Span 16. The new bridge was designed to match the cross section and maintain the aesthetics of the existing bridge. The bridge superstructure consisted of a cast-in-place concrete deck supported by precast arched beams. The bridge deck was designed to be 8-inches thick and incorporated an asphalt overlay to match that of the existing bridge riding surface. A total of four precast arched beams, spaced at approximately 11 feet, were designed to preserve the existing cross section and aesthetics of the existing bridge. The bridge was supported by four 42-inch diameter drilled shafts with a cast-in-place concrete cap design. The cap was designed with cantilevered wingwalls to support the new concrete barrier walls and the existing octagonal historic monument concrete towers that were reinstalled on each side of the bridge.



25. Firms from Section C involved with this project:

(1) Firm Name (2) Firm Location (City and State) (3) Role

Lakes Engineering, Inc. Miami, Florida Subconsultant

20. Example project key number:

2

21. Title and location: (City and State)

22. Year completed:

Indian Creek Village Bridge, Inndian Creek Village, Florida

Professional services:

Construction: (If applicable)

On-Going

23. Project owner's information:

A. Project owner:

B. Points of contact name:

C. Point of contact telephone number: 305-865-4121

Indian Creek Village Samuel Kissinger

24. Brief description of project and relevance to this contract (Include scope, size, and cost)

Lakes Engineering, Inc. personnel were responsible for the design and construction administration of the rehabilitation of the existing bridge over Indian Creek. Project includes the design and preparation of plans, specifications, environmental permitting, for the proposed rehabilitation of the existing structure built in 1930. This project also includes bridge load rating analysis in order to determine the possible increase of the bridges load limitation and to extend the life of the bridge by improving the foundation and superstructure of the bridge, while retaining the Bridge's existing architectural features. This bridge is the Village's sole means of ingress/egress between the island and the mainland. Given its age, condition, and cost for replacement the goal of the project is to use innovative preservation strategies and actions to extend its useful life and provide the Village with ample time and opportunity to prepare or its eventual replacement. Also responsible for coordination with municipality and public involvement.

2013













25. Firms from Section C involved with this project:

(1) Firm Name

(2) Firm Location (City and State)

(3) Role

Lakes Engineering, Inc.

Miami, Florida

Prime Consultant

20. Example project key number:

3

21. Title and location: (City and State) 22. Year completed:

SR-838 Sunrise Blvd Bridge over Middle
River, Fort Lauderdale, FL.

Professional services:

Construction: (If applicable)

2016

23. Project owner's information:

A. Project owner: B. Points of contact name:

C. Point of contact telephone number: **954-513-3898**

Dragados USA Wayne Otto

24. Brief description of project and relevance to this contract (Include scope, size, and cost)

Lakes Engineering, Inc. personnel were responsible for the development of construction structural plans, reinforcement bar lists, and quantities. Erection Sequence of a Temporary Detour ACROW Bridge, including bridge frame and foundation elements. The Temporary bridge has an overall length 280 ft. divided in (2) spans of 50 ft and (3) spans of 60ft. The bridge is a double lane ACROW Bridge with single story - double trusses each side.







25. Firms from Section C involved with this project:

(1) Firm Name (2) Firm Location (City and State) (3) Role

Lakes Engineering, Inc. Miami, Florida Subonsultant

20. Example project key number:

4

21. Title and location: (City and State)

22. Year completed:

NE 27th Terrace Bridge Replacement Pompano Beach, Florida

Professional services:

Construction: (If applicable)

2011 2013

23. Project owner's information:

A. Project owner:

B. Points of contact name:

C. Point of contact telephone number: **561-727-3939**

Cone & Graham Tim Pristiner

24. Brief description of project and relevance to this contract (Include scope, size, and cost)

This Design-Build project consisted of the replacement an existing single span bridge structure with a single span 2-lane undivided low level bridge over the Wisteria Canal, improvements to the roadway approaches, drainagae and utility relocation. This bridge provides sole access to the island as such phased constrution was necessary to maintain vehicular and pedestrian traffic at all times. Lakes Engineering's personnel were response for project management, client coordination, structural design, specifications, permitting, phased construction of bridge and post design services.



25. Firms from Section C involved with this project:

(1) Firm Name (2) Firm Location (City and State) (3) Role

Lakes Engineering, Inc. Miami, Florida Subconsultant

20. Example project key number:

5

21. Title and location: (City and State) 22. Year completed:

SR-84 at NW 136th Avenue Intersection,
Broward, Florida

Professional services: Construction: (If applicable)
2011

23. Project owner's information:

A. Project owner: B. Points of contact name:

C. Point of contact telephone number: **954-777-4680**

Florida Department of Transportation Rita Bulsara, P.E.,

24. Brief description of project and relevance to this contract (Include scope, size, and cost)

The Project consist of the addition of westbound to northbound right turn lane from SR 84 to NW 136 Avenue to provide three right lanes, widening bridges over the North New River Canal to provide a third SB thru lane and taper the NB thru lane, reconstruction of the traffic separator under the overpass to increase storage for southbound to EB left turn, installation overhead signs on NW 136th Ave. to direct southbound traffic to I-595 east and SR-84 east, and converting a northbound thru lane to a northbound left turn lane at SR-84 westbound and subsurface conditions for use in evaluation the proposed foundation types and design of the planned structures.



25. Firms from Section C involved with this project:

(1) Firm Name	(2) Firm Location (City and State)	(3) Role
Lakes Engineering, Inc.	Miami, Florida	Prime
AREHNA Engineering, Inc.	Coral Springs, Florida	Subconsultant/Geotech
Quest Corporation of America	Land O' Lakes, Florida	Subconsultant/Public Involvement

F. Example projects which best illustrate proposed team's qualifications for this contract: (*Present as many projects as requested by the agency, or 10 projects, if not specified.* Complete one Section F for each project.)

20. Example project key number:

6

21. Title and location: (City and State) 22. Year completed:

Big John Monahan Bridge Replacement
Project (Design-Build), Martin County, Florida

Construction: (If applicable)

2011

23. Project owner's information:

A. Project owner: B. Points of contact name:

C. Point of contact telephone number: **954-777-4466**

2014

Florida Department of Transportation Fausto Gomez, P.E. District Four

24. Brief description of project and relevance to this contract (Include scope, size, and cost)

The Big John Monahan Bridge carries SR-710 over the St. Lucie River Canal and Kanner Highway. The design build of the bridge consists of a twin six span major bridge with main spans of 185 ft. The bridge supports a conventionally reinforced concrete deck that is supported on prestressed Florida I Beams. The span arrangements were skewed for efficiency and aesthetics along the St. Lucie Canal. The substructure consists of reinforced hammerhead piers supported on pile foundations. The cantilevers for the hammerhead piers are approximately 28 ft. from centerline of column. This project required heavy coordination with the following agencies: US Coast Guard, Army Corp, South Florida Water Management, DEP, Martin County, Indian Town, and CSX. The project also included some other notable perspectives: Rail Road Coordination, Existing Bridge Demolition, Lead Paint, Wetland Impacts, and Hydraulic Analysis. This Bridge is Classified as a Category II structure requiring independent peer reviews.

Lakes Engineering, Inc. was responsible for the complete design of this Category 2 Bridge over the St Lucie Canal; including the complete design of all elements of the superstructure and substructure, permits, geometric layout, and load generation for gravity, lateral, longitudinal and time dependent. Provided post-design services, including review of shop drawings, RFI, RFC, and RFM.

Awards:

DBIA Project of the Year Award Transportation DBIA Best Overall Design-Build Project of the Year



25. Firms from Section C involved with this project:

(1) Firm Name (2) Firm Location (City and State) (3) Role

Lakes Engineering, Inc. Miami, Florida Subconsultant

F. Example projects which best illustrate proposed team's qualifications for this contract: (*Present as many projects as requested by the agency, or 10 projects, if not specified.* Complete one Section F for each project.)

20. Example project key number:

7

21. Title and location: (City and State)

22. Year completed:

Pompano Beach CRA Continuing Contract for Professional services:

Construction: (If applicable)

Environmental Engineering

Services, City of Pompano Beach, Broward County, Florida

2010 - Current

County, 1 Ioriaa

23. Project owner's information:

A. Project owner: B. Points of contact name:

C. Point of contact telephone number:

954-786-7834

Pompano Beach Community Redevelopment Agency

Horacio Danovich, PE

24. Brief description of project and relevance to this contract (Include scope, size, and cost)

E Sciences was awarded a contract with the Pompano Beach CRA to conduct environmental engineering services in 2010 and again in 2015. To date, E Sciences has provided tasks for several projects including the following:

Community Gardens Parcels: E Sciences evaluated the suitability of three vacant, CRA-owned parcels for use as community gardens for a local school. The community gardens will be used to teach children about agriculture and healthy food choices. Vegetables grown on these lots will be used to provide fresh vegetables for families and children in the community. Incremental sampling techniques were used at this site resulting in several thousands of dollars in savings for the CRA.

Broard Community & Family Health Center: E Sciences prepared Environmental Information and Documentation to satisfy Health Resources and Services Administration grant application requirements. The project was conducted to support the potential redevelopment of CRA parcels with a much needed community health care facility. The documentation was required for the grant applicant to comply with the National Environmental Policy Act.

Corner of Atlantic Avenue/West Dixie Highway: This is an assemblage of numerous parcels owned by the CRA and adjacent properties owned by others. E Sciences conducted a Phase I and Phase II ESAs on the property. The Phase I ESA revealed recognized environmental conditions related to historical land uses such the following: dry cleaner, gasoline station, historic drainage canal, blueprint and photostat business, auto sales and service center with historic underground storage tanks and a lumber yard. The site was determined to be contaminated from the historic dry cleaner.

E Sciences prepared a site development evaluation for this property providing guidance to the CRA on how the presence of contamination could impact site redevelopment and set forth strategies for minimizing the impact of contamination on the construction; designing the site to minimize the impact of the construction and site development; and to reduce potential risks.

Blanche Ely and Adjacent Parcels: E Sciences assessed this property which consists of 27 parcels in the CRA. Historic land uses such as dry cleaners, automotive repair facility and an UST were identified to be RECs. Phase II testing indicated the presence of chlorinated solvents at this property. We are working with the CRA on the best way to utilize the information in the context of the CRA's plans for future re-development.

Mallek Property: E Sciences performed a Phase I and II ESA of approximately two acres of urban land being purchased by the Pompano Beach CRA to evaluate potential environmental concerns. The Phase I ESA revealed the possible presence of a historic UST and contamination associated with the historical land use. Phase II services included a geophysical survey, and soil and groundwater testing.

Flagler Avenue Property: E Sciences conducted a Phase I ESA of 0.5 acre parcel of land owned by the CRA to prepare for redevelopment. Our approach to performing this assessment included a review of the public records, interviews with appropriate local agencies, a site reconnaissance and preparation of a written report containing findings, opinions and conclusions.

8 Hammondville Road Parcels: E Sciences conducted a Phase I and Phase II ESA for eight parcels within Pompano CRA set for future redevelopment. The Phase I ESA revealed the possible presence of underground storage tanks and buried debris. Buried debris was identified during the Phase II ESA. Guidance was provided to the CRA on handling the buried debris during construction to facilitate redevelopment.

731 Hammondville Road Parcel: E Sciences conducted a Phase I and II ESA for this parcel within Pompano CRA. The Phase I ESA revealed historic land uses that warranted further evaluation (gasoline station and dry cleaners). No contamination of concern was identified during the Phase II ESA that included soil and groundwater evaluation.

Contract Budget/Fees:

\$153,911

25. Firms from Section C involved with this project:

(1) Firm Name (2) Firm Location (City and State) (3) Role

E Sciences, Incorporated Fort Lauderdale, Florida Prime Consultant

F. Example projects which best illustrate proposed team's qualifications for this contract: (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. Example project key number:

8

21. Title and location: (City and State) 22. Year completed:

Ravenswood Bridge Replacement FDOT Professional services: Construction: (If applicable)

District 4

2014

23. Project owner's information:

A. Project owner: B. Points of contact name: C. Point of contact

telephone number:

Bolton Perez and Associates (Prime

Mr. Roberto Vasquez, PE

305-392-3190

Consultant)

24. Brief description of project and relevance to this contract (Include scope, size, and cost)

Keith and Associates handled the Utility Coordination for this Bridge Replacement project on Ravenswood Rd., north of Griffin Rd. Our Design ticket with Sunshine State One Call of Florida identified twelve (12) Utility Agencies and the Broward County Traffic Engineering Dept. Several Utility Meetings were conducted to clarify the construction phasing and Utility involvement. Five (5) Utility Agencies (MCI/Verizon, Buckeye Pipeline, City of Dania Beach, Level 3, and Florida Gas Transmission) had facilities in the area but were not involved in the Project and we negotiated/coordinated six (6) Non-Reimbursable Utility Work Schedules (AT&T, Comcast, FPL Distribution, FPL Transmission, FPL Fibernet, and TECO Peoples Gas). Broward County Water and Wastewater entered into a "Utility Work by Highway Contractor Agreement" for the Engineering and Design of the relocation/adjustment of the water and sanitary lines that were impacted by this bridge replacement project. Utility Certification was completed on schedule.

A full topographic survey was performed from Right-of-Way to Right-of-Way on the North and South sides of the bridge and the utility designations were mapped.



25. Firms from Section C involved with this project:

(1) Firm Name (2) Firm Location (City and State) (3) Role

Keith and Associates, Inc. Pompano Beach, Florida Subconsultant/ Survey and SUE

20. Example project F. Example projects which best illustrate proposed team's qualifications for this key number: contract: (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.) 9 21. Title and location: (City and State) 22. Year completed: Juanita Avenue Bridge Replacement Construction: (If applicable) Professional services: Ft. Pierce, Florida 2012 23. Project owner's information: A. Project owner: B. Points of contact name: C. Point of contact telephone number: 954-777-4434 Florida Department of Transportation James Ford, District IV (FDOT) District IV 24. Brief description of project and relevance to this contract (Include scope, size, and cost) The project is located in St. Lucie County within the City of Fort Pierce. The limits of this project are on Juanita Avenue between North 15th Street and North 13th Street. The facility is a rural minor collector with a posted speed limit of 25 mph. The Department intends to replace the existing bridge #940040 over Taylor Creek and construct a new two lane fixed low level bridge. The justification for the replacement of the bridge is that the existing bridge has become structurally deficient. Keith and Associates, Inc. was the project surveyor in support of the design-portion of the project. Keith and Associates set new primary and secondary control points as needed to support the survey and construction needs of the project including recovering the baseline of Juanita Avenue, setting primary and secondary control, topography/DTM survey, detailed bridge survey, canal cross sections and miscellaneous survey support. The primary control points were set outside of the construction limits to help insure survivability during construction. The primary control points were observed using fast-static GPS methods and the following local National Geodetic Survey (NGS) control points.

(2) Firm Location (City and State)

Pompano Beach, Florida

25. Firms from Section C involved with this project:

(1) Firm Name

Keith and Associates, Inc.

STANDARD4FORM 330

(3) Role

Subconsultant/ Survey

		G. KEY PERSONNEL PARTICIP	OITA	I IN E	XAMPL	E PRC	JECT	S				
P	IAMES OF KEY ERSONNEL om Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	(Fill	in "Ex	amples able. F	Projection Place "X	ts Key' (" unde	' section	TED IN on below ct key r similar	v befor number	e comp	leting
				2	3	4	5	6	7	8	9	10
Eugenio	Ochoa, P.E.	Project Manager/Chief Engineer	+	+	+	+	+	+				
Kathy L	ajo, P.E.	Senior Structural Engineer	+	+		+		+				
Christop	oher Meszler, P.E.	Senior Roadway/Drainage Engineer				+	+	+				
Romesh	Valdes, P.E.	Structural Engineer	+		+	+	+	+				
Jorge V	azquez, CBI	Lead Bridge Inspector		+								
Nadia L	ock, P.E. LEED	Lead Environmental Engineer							+			
Justin F	reeman	Senior Scientist							+			
Daniel Checchia		Subsurface Utility Engineering and Utility Coordination Manager								+		
Lee Pov	vers, PSM	Project Surveyor/GIS Specialist								+	+	
Angela	L. Alba, P.E.	Senior Geotechnical Engineer					+					
Amy L.	Guisinger, P.E.	Geotechnical Engineer										
Angel C	Gardner	Public Involvement					+					
Leigh-A	ann Dawes	Public Involvement					+					
		29. Example	Projec	ts Key	'S							
NO.	TITLE OF EXAME	PLE PROJECT (FROM SECTION F)	NO.	TI	ΓLE OF	EXAM	IPLE P	ROJE	CT (FR	OM SE	CTION	F)
1	Venetian Causew	ay Bridge	6	Bi	g John	Monah	an Brid	dge				
2	Indian Creek Bridge		7	Po	mpano	Beach	CRA					
3	3 Sunrise Bridge		8	Ra	vensw	ood Bri	idge					
4	NE 27 th Terrace I	Bridge	9	Jua	anita A	ve Brid	lge					
5	SR 84 at NW 136 Improvements	oth Avenue Intersection	10									

STANDARD FORM 330



The executive leadership and professionals employed by Lakes Engineering, Inc. (Lakes) are continuing in the tradition of providing quality engineering design and construction administration services to its clients, as they did under New Millennium Design Consultants, Inc., which was incorporated in 2006. Lakes was established in 2013 as a new firm. Lakes

may be a young firm, however, we certainly have extensive experience. We employ a total of 6 licensed professional engineers, 4 engineers in training, 3 designers/CAD, and 5 administrative personnel some of which have worked together for over 9 years.

LAKES is committed to providing the highest quality engineering services to our Clients. We employ skilled and committed team members that use the most current technology available to develop designs that accomplish the objectives of our Clients. Lakes' reputation as a premier provider of cost-effective engineering services is attributable to our ability to provide clients with:

- Integrated Engineering Solutions for Public Infrastructure Projects
 Lakes staff has significant experience providing innovative solutions to improve roadway and pedestrian safety, widen roads, improve intersection operations, and extend the useful life of corridors. We have designed several major urban arterials, as well as many rural roadways. We have completed numerous projects that sought to improve traffic operations, intersections, pedestrian and bicycle facilities. The Lakes Team has strong experience in designing and managing the construction of minor, major, and complex bridges constructed with prestressed, post tensioned, segmental and CIP concrete, steel plate, box, rolled and curved girders, conventional grade-separated bridges, complex multi-level interchanges, long and short span structures, and pedestrian overpasses. Our engineers are experienced in designing all components of roadway construction including horizontal/vertical alignment, temporary traffic control, flexible and rigid pavement, signalization and timing, signing and pavement markings, lighting, utility coordination, environmental permitting, permanent and temporary drainage systems, stormwater pollution prevention, erosion control, water and wastewater components, ADA compliance, and Intelligent Transportation Systems.
- An Experienced Team of Professional Engineers The staff we are assigning to this Project have over 100 years of collective experience. Our senior design engineers are experts in their fields. Their past experiences combined with their knowledge of the most current technology allows them to provide innovative designs that accomplish our Client's goals and provides engineered solutions to constructability issues and impediments.
- <u>An Experienced Technical Support Team</u> Our experienced and well trained designers, CAD Technicians, and Inspectors will support our engineers. These individuals are the backbone of our plans production process and are intensively trained in the application of technological tools to enhance the quality of our final products. The personnel assigned to this Project (engineers and support) have worked together for over 9 years.
- Use of Current Technology, Equipment, and Other Resources

 Lakes uses and is heavily invested in state of the art computer software for design and plans production. Our personnel are skilled at using the most current technological resources available, including: STAAD Pro, Leap Conspan, FB Multi-Pier, MathCAD, LARSA, AutoCAD, civil3D, ETABS, SAFE, RAM Concept, Enercalc, PcaCOL, MWall, HBPILECP, Decon Studrail, ICPR, HEC-HMS, PROFIS Anchor, Microstation, and Geopak, to name a few. Our personnel have also developed proprietary software to be used on iPads and smart phones that is stored/accessed from Dropbox, iCloud, and websites so that team members and the City have access to real-time information about the progress of the project.
- <u>A Team with Local Government Project Experience</u> Our staff has worked on numerous projects that require us to work for and with local governments. We understand the importance of ensuring consistent and effective communication between the local government agency and our Project Team. We've learned how significant it is to work together to ensure design integrity, compliance with all design requirements, and adhere to approved budget and schedule.
- Experience with Stakeholder Involvement Maintaining an open and timely communication system with the City's Project Manager, impacted residents and businesses, utility owners, and regulatory agencies will be the hallmark of our approach to providing engineering services under this contract. Further, our Project Manager will be the single point of contact for the City and all stakeholder communications.
- A Supreme Quality Assurance Plan Lakes believes that Quality Assurance Plans are not simply a necessity, but an obligation: an obligation to our customers so that we ensure the products and services we deliver are precisely what the client expects and an obligation to our Firm's reputation as a premiere provider of engineering consulting services. We assigned Mr. Esen Tokay, P.E. as our QA/QC Engineer for this Project due to his more than 46 years of engineering experience. He will utilize a time-tested QA Plan that will ensure tasks are met consistently to the City's standards and expectations. The Plan will also ensure that we perform the work in conformance to contract requirements.

I.	AUTHORIZED	REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE

32. DATE

2/27/2017

Eugenio Ochga, Principal

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

E Sciences, Incorporated (E Sciences) is an environmental, engineering and ecological consulting firm providing a wide range of services to clients in both the public and private sectors. Our company was formed in 2000, bringing together a team of professional and technical staff members with a long history of successfully executing projects throughout Florida and the Southeastern United States. Our fundamental philosophy is based on responsiveness, expertise and creating value for our clients.

Environmental Consulting Services

E Sciences provides a full range of environmental services to identify, remediate and resolve issues related to contamination of soil and groundwater. We have extensive experience investigating and remediating surface and subsurface environments for a variety of contaminants from petroleum, chlorinated solvents and other hazardous materials and are intimately familiar with geological and hydrogeological systems in Florida and the southeastern United States. Our environmental staff includes registered professional engineers and geologists, and degreed scientists whose expertise provides a comprehensive combined set of skills that support our clients' goals through and even beyond the planning, design and construction phases of projects.

Engineering Consulting Services

Our engineering staff includes professionally licensed engineers with degrees in civil and environmental engineering. E Sciences provides a broad scope of engineering services related to water quality management, stormwater management, transportation support, infrastructure management, hydrologic restoration and preservation, watershed planning and FEMA floodplain management and permitting, and permitting and compliance. We assist clients with major regulatory programs such as NPDES Phase I and Phase II permitting and compliance, Clean Water Act services, and numerous other specialty areas. E Sciences professionals are skilled in facilities engineering, including transaction support services such as Property Condition Surveys and Development Feasibility Studies for industrial and commercial land uses.

Ecological Consulting Services

Our ecological staff includes full-time senior environmental scientists with degrees in soil and water science, ecology, biology, earth science, urban forestry and marine biology. E Sciences' primary ecological services include wetland delineation and evaluation; wildlife surveys and permitting; habitat assessments and conversation plans; marine and coastal ecology; wetland and habitat restoration; urban forestry and tree inventories; land management, and natural systems analysis. We have extensive experience permitting projects with the USACE, USFWS, FDEP, Water Management Districts and local municipalities throughout Florida.

I.AUTHORIZED REPRESENTATIVE	
The foregoing is a statement of facts.	
The foregoing is a statement of facts.	
31. SIGNATURE	32. DATE
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The start of the s	June 8, 2015
CA / ST	
33. NAME AND TITLE	
Peter K. Partlow, P.E., President	
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Keith and Associates is a Woman-owned, multi-disciplined firm comprised of a qualified team of professionals that will work collaboratively with stakeholders to meet the City's goals, budget and timeframe for this contra The firm was founded on the principal of achieving success by combining the latest technology with client oriented business practices and a staff of experienced and talented professionals. With a longstanding history as one of the veteran consulting firms in Broward County, KEITH AND ASSOCIATES, INC. is committed to exceeding the City's expectations for this contract.

The firm's civil engineering, CEI, surveying, planning, landscape architecture and construction management team of experts has extensive past and ongoing experience with both large-scale private and public sector projects. Our staff combines the technical work experience of over 90 professionals, each with an extensive working knowledge of local and regional projects. This convergence of experience has resulted in the development of a tremendous database of knowledge and information concerning local, past and ongoing projects, which is an invaluable asset to any company.

Keith and Associates, Inc. understands the importance of community involvement and the necessity of working with local, state, and federal agencies in a hands-on cooperative manner to build consensus and receive subsequent approval of highly sensitive projects. This approach represents an underlying philosophy of the firm which results in a quality product, with emphasis on scheduling and cost effectiveness through team oriented management and quality control. The professionals of Keith and Associates, Inc. continue to take great pride in the success of their undertakings. We look forward to the opportunity to provide you professional services.

CERTIFICATIONS - Keith and Associates, Inc. is certified as a Disadvantaged Business Enterprise (DBE).

FDOT WORK GROUPS 3, 8, 10, 13, 15 - Keith and Associates, Inc. is certified with the Florida Department of Transportation in

- 3.1 Minor Highway Design
- 8.1 Control Surveying
- 8.4 Right of Way Mapping
- 13.6 Land Planning/Engineering
- 3.2 Major Highway Design
- 8.2 Design, Right of Way & Construction Surveying
- 10.1 Roadway Construction Engineering Inspection
- 15.0 Landscape Architecture

SURVEYING and MAPPING - The expertise of our Land Surveying staff is evidenced by Ms. Dodie Keith-Lazowick, Mr. Lee Powers, Mr. Eric Wilhjelm and Mr. Timothy Gray's combined South Florida surveying experience of over 100 years. This experience has resulted in a tremendous database of knowledge and information. The ability to offer in-house surveying and mapping capabilities provides for a more comprehensive unified team. Services include boundary, topographic, control, wetland, mitigation, route, aviation,



bathymetric, GIS, GPS, as-built, American Land Title and coastal surveys, legal descriptions, right-of-way mapping, design base sheets, title review, DTMs, differential leveling, construction stakeout, platting, expert witness surveying, and mapping services.

The firm maintains eight full-time field crews to provide for our clients on an as-needed basis. Our staff is using the latest 3D laser scanning technology. Our entire field staff has received Maintenance of Traffic (M.O.T.) Safety Training currently required by the Florida Department of Transportation for work within public roadways. Keith and Associates, Inc. is also in full compliance with the current School Board Security Clearance Policies of finger printing and successful background checks in accordance with the State of Florida Jessica Lunsford Act for school access by workforce personnel. We understand the importance of these security requirements and are in 100% compliance for the safety of our staff and the public.

Keith and Associates, Inc. has placed a strong emphasis on quality surveying and mapping practices and procedures. This focus ensures that our surveying personnel are committed to exceeding your expectations.

SUBSURFACE UTILITY ENGINEERING (SUE) - Subsurface Utility Engineering (SUE) provides accurate mapping of existing underground utilities, eliminating the need to "find out the hard way" that plotted utility information was inaccurate. Performed during the project design process, Subsurface Utility Engineering can help utility owners, designers, engineers and contractors avoid conflicts or project delays. To avoid these issues, many clients turn to Keith and Associates, Inc., a recognized leader in Subsurface Utility Engineering. Keith and Associates' staff has the expertise required to deliver accurate utility information needed by clients, engineers, contractors and designers to make informed decisions. Using Keith and Associates' SUE services will result in the enhanced accuracy of project designs and cost estimates by collecting and mapping underground utility data that was primarily unknown.

unknown.	
I. AUTHORIZED REPRESENTATIVE	
The foregoing is a statement of	facts.
31. SIGNATURE	32. DATE
Short Layruck -8Bfor 33. NAME AND TITLE	February 23, 2017
33. NAME AND TITLE	
Eliot Lazowick, Executive Vice President	

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

GEOTEHNICAL ENGINEERING

AREHNA provides comprehensive site analyses and expertise in underground exploration and design. Geotechnical services commence with project planning and design and extend into construction.

Field Exploration

Thorough geotechnical exploration is fundamental to the planning of site development and design structures, utilities and roadways. AREHNA's highly qualified professionals are skilled in a wide variety of exploration techniques including Standard Penetration Testing, Cone Penetration Testing and Geophysical Surveys to characterize sites.

Drilling and Field Services

AREHNA has experienced, in-house drilling capabilities allowing us the flexibility to control the schedule and minimize costs. The following are field services typically performed:

- Soil Boring and Sampling
- Shallow Auger Boring
- Standard Penetration Test borings
- Hollow Stem Auger Borings
- Piezometer Installation
- Borehole Permeability Testing
- Double Ring Infiltration Testing
- Test Pits
- Pavement Coring

We perform in-house drilling and have three drill rigs:

- 1. Tracked-mounted BR-2500 drill rig ideal for tight access.
- 2. Truck-mounted CME 45 with Auto-hammer
- 3. Truck-mounted CME 45.

Groundwater Level Determination

Seasonal high groundwater levels and hydraulic conductivity values of soils are integral to the design process for storm water removal from any site. AREHNA supplies information to design team members for use in development of grading plans relative to soils and topography encountered on-site.

Foundation Analysis

From power plants to commercial high-rises to FDOT bridges, AREHNA's professional staff utilizes their extensive experience to fully evaluate structure load and soil conditions. We perform detailed settlement and bearing capacity analysis for each project. Whether it is for a shallow footing system or a deep foundation system, we provide our clients with a thorough foundation analysis and comprehensive recommendations. Our experience includes a wide range of foundation systems including driven piles, mats, drilled shafts, auger cast piles and multiple ground improvement techniques.

Pavement Analysis

AREHNA personnel have extensive experience providing designs for new and rehabilitated pavements. Pavement thickness designs are developed using standard design methods and the results of laboratory testing. Optimal pavement repair strategies are developed to evaluate special situations where pavement performance has not met expectations and provide objective pavement evaluation to determine the causes of less than desired performance. Our recommendations are based upon AASHTO design methods, and reflect requirements of the Florida Department of Transportation and the Federal Highway Administration.



Slope Stability Analysis

Performing slope analysis requires detailed knowledge of soil strength parameters such as friction angle and cohesion obtained through field exploration and laboratory testing. AREHNA's experienced staff has performed numerous slope stability analyses on natural and fill slopes. We also provide recommendations for stabilization of existing unstable slopes, such as installation of retaining structures, erosion control measures, and soil nailing.

Geosynthetics

AREHNA's engineers have utilized geosynthetics in the stabilization of soft subgrade soils, mechanically stabilized earthen structures, foundation reinforcement, retaining walls, pavement reinforcement, filters, and separation layers.

CONSTRUCTION MATERIALS TESTING AND INSPECTION

Specifications are enforced through quality control in construction. Systematic testing of construction materials is the means by which the architect, engineer, or owner can be sure that materials being used by the contractor are of the quality specified.

AREHNA is staffed and equipped to provide trained engineering technicians at the construction site to perform required tests and inspections related to soils, concrete and pavement systems. Additionally, our in-house, AMRL and CCRL inspected, construction materials laboratory performs laboratory testing on soil, asphalt and concrete samples. All field and laboratory testing is reviewed by engineers who have previous experience with materials testing and inspection services required for the construction of structures, roads, bridges, parking lots, and airfields.

Soil and Rock Testing

Soils are tested in AREHNA's laboratory to define soil properties, characteristics, and to determine the optimum moisture content and maximum dry density of different soils. Findings are used to determine compliance with project specifications, as well as to identify possible constructability issues. We have assembled an outstanding team of technicians, engineers and geologists to provide test results with high regard to quality. Following is a list of soils tests performed by our inhouse laboratory and field technicians:

- Moisture-Density Relationship of Soils (Modified and Standard Proctor Tests)
- In-Place Density testing using Nuclear Density gauges, drive sleeves and/or sand cone method
- Moisture Content of Soils
- Organic Content
- % Finer than a No. 200 Sieve (-200 wash)
- Particle Size Analysis of Soils by Hydrometer
- Liquid and Plastic Limits of Soils (Atterberg Limits)
- Grain-Size Analysis
- Classification of Soils (Unified System)
- Direct Shear
- Consolidation
- Triaxial Testing
- Expansion Index of Soils
- pH Testing of Soils
- Corrosion Series Testing (includes pH, sulfates, chlorides and resistivity testing)
- Splitting Tensile Testing
- Unconfined Compression Testing
- Gradation of Soils Using Sieve Analysis
- Limerock Bearing Ratio
- California Bearing Ratio
- Specific Gravity of Soils
- Sand Equivalent Test





Concrete, Grout and Mortar Testing

Our engineering technicians are ACI and CTQP certified and have inspected, sampled and tested the concrete on numerous public and private sector projects. The concrete testing services our and laboratory currently provides are listed

below:



- Molding, Curing, Capping and Compressive Strength Testing of cylinders, cubes and grout prisms
- Slump and Temperature
- Unit Weight of Freshly Mixed Concrete
- Air Content of Freshly Mixed Concrete by Volumetric Method
- Air Content of Freshly Mixed Concrete by Pressure Method
- Concrete Coring
- Flow testing of grout (flow cone method)

Asphalt Testing

Laboratory services for asphalt include mix design verification, along with other associated tests such as extraction and gradations testing. AREHNA's staff has extensive experience with Superpave and Marshall mix designs. AREHNA provides field and laboratory testing services and is familiar with the requirements of the Florida Department of Transportation,

Federal Aviation Administration, the Federal Highway Administration, as well as local municipalities and agencies. In addition, AREHNA also has CTQP Certified Asphalt Plant Technicians. Our laboratory currently provides the following asphalt concrete testing:

- Asphalt Content by Ignition Method
- Mechanical Analysis of HMA
- Maximum Specific Gravity of Hot Mix Asphalt (RICE testing)
- Bulk Specific Gravity of Compacted Hot Mix Asphalt
- Asphalt Coring

Aggregate Testing

The quality of aggregates can be determined through laboratory testing. The following is a list of the testing performed by AREHNA's laboratory:



- Sampling Aggregates
- Material Finer Than No. 200 Sieve
- Organic Impurities in Sands
- Sieve Analysis of Aggregates
- Fine Aggregate Specific Gravity and Absorption
- Coarse Aggregate Specific Gravity and Absorption
- LA Abrasion Testing
- Moisture Content of Aggregate by Oven Drying

Fireproof and Coating Testing

AREHNA performs visual and physical tests to identify the condition of the substrates, thickness of the application, density, bond strength, adhesion/cohesion, condition of the finished application, inspection of patching for sprayed fiber and cementitious fire-resistive materials. The tests include:

- Thickness and Density of SFRM Applied to Structural Members
- Cohesion/Adhesion of SFRM Applied to Structural Members



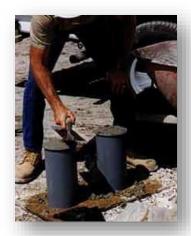
Construction Monitoring and Inspection

When a project enters the construction phase, our team is ready to support the project with inspections, observations, and field testing. Some of these services include:

- Compaction and Chemical Grout Monitoring
- Augercast Pile Monitoring
- Vibroreplacement Monitoring
- Foundation Excavation Inspection
- Drilled Shaft Monitoring
- Pile Driving Monitoring
- Load Test Monitoring
- Soil Anchors/Tie-back Anchor Monitoring
- Vibration Monitoring
- Post-Tensioned Concrete Monitoring

Quality Control

Stringent quality assurance and quality control procedures provide results engineers can rely on as they consider recommendations. A dedicated QA/QC manager is responsible for all quality aspects of work performed under each contract.



Accreditation

AREHNA's laboratory is FDOT approved, US Army Corps of Engineers Validated, AASHTO accredited inspected by AMRL (AASHTO Materials Reference Laboratory), CCRL (Cement and Concrete Reference Laboratory). AREHNA participates in the AASHTO Proficiency Sample Program. Our laboratory is AASHTO R18, ASTM E329, C1077 and D3740 accredited.

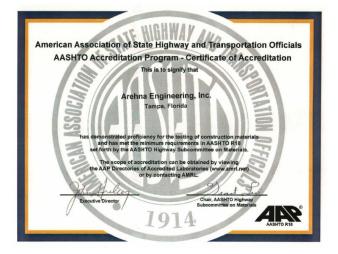












I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE

32. DATE

February 15, 2017

33. NAME AND TITLE

Jessica A. McRory, PE, LEED AP, President



ARCHITECT-ENGINEER QUALIFICATIONS (If a firm has branch offices, complete for each specific branch office seeking work.) 2a. FFRM OR BRANCH OFFICE) NAME Lakes Engineering, Inc. 2b. STREET ARTO SW 72 nd Avenue 2c. CITY 2d. STATE 2a. STREET 2a. FFRM OR OR TO CONTACT NAME AND TITLE Eugenio Ochoa, P. E. 8b. FLEFFHOR NUMBER 305-667-1657 9. EMPLOYEES BY DISCIPLINE 10. FRONTIEL OF FIRM (If block 26 is a branch office) 8b. YR. ESTABLISHED 9. EMPLOYEES BY DISCIPLINE 10. FRONTIEL OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 WEARS 17. NAME OF FIRM (If block 26 is a branch office) 18. PORTIEL OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 WEARS 19. EMPLOYEES BY DISCIPLINE 10. FRONTIEL OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 WEARS 10. Code 11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUE INDEX NUMBER 25. CONSTRUCTION Inspector 2 CTIVI Engineer 3 SOP Structural Design; Special Structures 2 CTIVI Engineer 3 SCHEDURES REVENUES OF FIRM 5 STRUCTURE STRUCTURE STRUCTURE 1 PROFESSIONAL SERVICES REVENUE INDEX NUMBER 1 PROFESSIONAL SERVICES REVENUE INDEX NUMBER 2 TYPE 3 STRUCTURE AND AVERAGE PROFESSIONAL SERVICES REVENUE INDEX NUMBER 3 SCHEDIAL AVERAGE PROFESSIONAL SERVICES REVENUE INDEX NUMBER 4 CADD Technician 7 ROOF REACH AND AVERAGE PROFESSIONAL SERVICES REVENUE INDEX NUMBER 5 STRUCTURE SERVENUES OF FIRM SERVENUE INDEX NUMBER 5 STRUCTURE SERVENUES OF FIRM SERVENUE INDEX NUMBER 6 CADD Technician 7 ROOF STRUCTURE SERVENUE INDEX NUMBER 6 STRUCTURE SERVENUES OF FIRM SERVENUE INDEX NUMBER 7 STRUCTURE SERVENUES OF FIRM SERVENUE INDEX NUMBER 8 SCHADURE 1 ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUE INDEX NUMBER 1 AND NUMBER 2 AND NUMBER 3 SCHADUR	100	ARCHI	TECT-ENGINE	FR OI	ΙΔΙΙ	FICATIO	ONS		1. SOLICITATION		
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2a. STATE 2a. ZPCODE Corporation										. OWNERS	SHIP
Miami FL 33155 B. SMALL BUSINESS STATUS D. SMALL BUSINESS STATUS N/A 7. NAME OF FIRM (If block 20 is a branch affice) 80. TELEPHONE NUMBER 305-667-1657 Sochoa@lakeseng.com 8a. FORMER FIRM NAME(S) (if any) 9. EMPLOYEES BY DISCIPLINE A. Function Code D. Discipline C. No. of Employees a. Function Code (1) FIRM (2) BRANCH BD2 Bridges 4 Captrille Green Bridges 4 Captrille Green Bridges 4 Construction Inspector Code Code Code Code Code Code Code Code	4870 SW 7	72 nd Avenue		727 2070	500				a. ITPE		
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Eugenio Ochoa, P.E.						FL	3	3133			
Structural Engineer	6a. POINT OF C	CONTACT NAME	AND TITLE								
Second S	Eugenio O	choa, P.E.							7. NAME OF FIRM	(If block 2a is a	branch office)
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Sec. DUNS NUMBER Sec. DUNS N							m				
9. EMPLOYEES BY DISCIPLINE a. Function Code b. Discipline c. No. of Employees a. Profile Code (1) FIRM (2) B02 Bridges 4 B02 Bridges 4 Construction Inspector 12 Civil Engineer 3 S09 Structural Design; Special Structures 2 C10 Commercial Building (low rise) 15 Construction Inspector 2 C10 Commercial Building (low rise) 57 Structural Engineer 3 Scheduler 1 Roadways 4 11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUE INDEX NUMBER SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown ot right) 1. Less Than \$100,000 2. \$100,000 to less than \$250,000 3. \$250,000 to less than \$250,000 5. Non-Federal Work 5 4. \$500,000 to less than \$250,000 5. Non-Federal Work 6 5 \$1 million to less than \$50 million or greater 12 AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.	303-007-1	037	90 EODMED EI	A CONTRACTOR	_	_			OL VD ESTABL	IGHED 8	DINC NUMBER
ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS C. No. of Employees A. Profile Code D. Experience C. Revenue Ind. Number (see below)	ALL THE SHOPE STATE		oa. FORWER FIR	TIVI NAIVIE	(3) (1)	iny)		The View	OD. TK. ESTABL	LISTIED OF	. DON'S NOWBER
ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS C. No. of Employees A. Profile Code D. Experience C. Revenue Ind. Number (see below)		9 EMDI	OVEES BY DISC	IDLINE				10 PROI	EILE OE EIRM'S	EXPERIEN	CE AND
C. No. of Employees a. Profile Code b. Experience c. Revenue Ind Number (see below)		3. LIVII 1	LOTELS BT DISC	II CIIVE			AN				
CADD Technician 7	a. Function	b.	Discipline	c. 1	No. of I	Employees					c. Revenue Index
Comparison	Code						Code				
BRANCH B02 Bridges 4	200			(1)	FIRM	(2)					(see below)
12				(,,		BRANCH	B02		Bridges		4
12	08	CAD	D Technician		7		R06		Rehabilitation	n	2
15 Construction Inspector 2 C10 Commercial Building (low rise) 1	12	Civ	il Engineer		3		+	Structur	al Design: Specia	al Structure	s 2
Structural Engineer 3			<u>-</u>								-
Other Employees				_			1010	Colli		(low rise)	
Other Employees Total 21			- X				 	,	Roadways		
Other Employees Total 21 11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUE INDEX NUMBER SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right) 1. Less Than \$100,000 6. \$2 million to less than \$5 million 2. \$100,000 to less than \$250,000 7. \$5 million to less than \$10 million 3. \$250,000 to less than \$250,000 8. \$10 million to less than \$25 million 5. \$1 million to less than \$25 million 9. \$25 million to less than \$50 million 10. \$50 million or greater 12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.											
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Total 21 11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUE INDEX NUMBER SERVICES REVENUE of FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right) 1. Less Than \$100,000 6. \$2 million to less than \$5 million 2. \$100,000 to less than \$250,000 7. \$5 million to less than \$10 million 3. \$250,000 to less than \$500,000 8. \$10 million to less than \$25 million b. Non-Federal Work 5 4. \$500,000 to less than \$1 million 9. \$25 million to less than \$50 million c. Total Work 6 5. \$1 million to less than \$2 million 10. \$50 million or greater 12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.											
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Total 21 11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUE INDEX NUMBER SERVICES REVENUE of FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right) 1. Less Than \$100,000 6. \$2 million to less than \$5 million 2. \$100,000 to less than \$250,000 7. \$5 million to less than \$10 million 3. \$250,000 to less than \$500,000 8. \$10 million to less than \$25 million b. Non-Federal Work 5 4. \$500,000 to less than \$1 million 9. \$25 million to less than \$50 million c. Total Work 6 5. \$1 million to less than \$2 million 10. \$50 million or greater 12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.							 				
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11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right) 1. Less Than \$100,000 2. \$100,000 to less than \$250,000 3. \$250,000 to less than \$500,000 4. \$500,000 to less than \$1 million 5. \$1 million to less than \$50 million 6. \$2 million to less than \$10 million 7. \$5 million to less than \$25 million 8. \$10 million to less than \$25 million 9. \$25 million to less than \$50 million 10. \$50 million or greater 11. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.			Other Employ	yees							
SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right) 1. Less Than \$100,000 6. \$2 million to less than \$5 million 2. \$100,000 to less than \$250,000 7. \$5 million to less than \$10 million 3. \$250,000 to less than \$500,000 8. \$10 million to less than \$25 million b. Non-Federal Work 5 4. \$500,000 to less than \$1 million 9. \$25 million to less than \$50 million c. Total Work 6 5. \$1 million to less than \$2 million 10. \$50 million or greater 12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.			7	otal	21						
FOR LAST 3 YEARS (Insert revenue index number shown at right) 1. Less Than \$100,000 6. \$2 million to less than \$5 million 2. \$100,000 to less than \$250,000 7. \$5 million to less than \$10 million 3. \$250,000 to less than \$500,000 8. \$10 million to less than \$25 million 4. \$500,000 to less than \$1 million 9. \$25 million to less than \$50 million c. Total Work 6 5. \$1 million to less than \$2 million 10. \$50 million or greater 12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.	11. ANN	UAL AVERAC	E PROFESSION	AL		PROF	ESSION	AL SERVI	CES REVENUE I	NDEX NUN	BER
(Insert revenue index number shown at right) 1. Less Than \$100,000 6. \$2 million to less than \$5 million 2. \$100,000 to less than \$250,000 7. \$5 million to less than \$10 million 3. \$250,000 to less than \$500,000 8. \$10 million to less than \$25 million 4. \$500,000 to less than \$1 million 9. \$25 million to less than \$50 million 5. \$1 million to less than \$2 million 10. \$50 million or greater 12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.	SER'										
1. Less Than \$100,000 6. \$2 million to less than \$5 million 2. \$100,000 to less than \$250,000 3. \$250,000 to less than \$500,000 4. \$500,000 to less than \$1 million 5. \$1 million to less than \$50 million 6. Total Work 6 5. \$1 million to less than \$2 million 7. \$5 million to less than \$25 million 9. \$25 million to less than \$50 million 10. \$50 million or greater 12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.											
2. \$100,000 to less than \$250,000 7. \$5 million to less than \$10 million a. Federal Work 5 3. \$250,000 to less than \$500,000 b. Non-Federal Work 5 4. \$500,000 to less than \$1 million 9. \$25 million to less than \$50 million c. Total Work 6 5 5 1 million to less than \$2 million 10. \$50 million or greater 12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.	(insert re	venue index ni	mber shown at righ		Locc	Than \$10	0.000	No.	6 \$2 million	to less than	\$5 million
a. Federal Work 5 3. \$250,000 to less than \$500,000 8. \$10 million to less than \$25 million b. Non-Federal Work 5 4. \$500,000 to less than \$1 million 9. \$25 million to less than \$50 million c. Total Work 6 5. \$1 million to less than \$2 million 10. \$50 million or greater 12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.							-	50.000			
b. Non-Federal Work 5 4. \$500,000 to less than \$1 million 9. \$25 million to less than \$50 million 10. \$50 million or greater 12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.		-		2.	-	•		•			
c. Total Work 6 5. \$1 million to less than \$2 million 10. \$50 million or greater 12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.				(Ž.V					• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •
12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.				200							
The foregoing is a statement of facts.	c. Total Worl	k	6						10. \$50 million	n or greater	-15-5
	THE PARTY.										
	a. SIGNATURE			IN	e lore	going is a	statemen	or lacts.		b. DATE	
		/		and the second second					4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		107/2017
2/27/2017		(/								2	12//201/
C. NAME AND TITLE					A B					Salposed.	PRESIDENT
Eugenio Ochoa, Principal	Eugenio O	cnoa, rinc	ipai '								

ARCHITECT ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any) RFQ 471-11891

PART II - GENERAL QUALIFICATIONS

(II a IIIIII has branch onices,	compiete for eac	n specilic branci	i onice seeking work.)	
2a. FIRM (OR BRANCH OFFICE) NAME			3. YEAR ESTABLISHED	4. DUNS NUMBER
E Sciences, Incorporated – Fort Lauderdale, Florida		ENGINEERING	2000	001998678
2b. STREET	Sciences	ENVIRONMENTAL	5. OWNER	SHIP
224 SE 9th Street		ECOLOGICAL	a. TYPE	
			Corporation	
2c. CITY	2d. STATE	2e. ZIP CODE	b. SMALL BUSINESS STATUS	;
Fort Lauderdale	Florida	33316	Small Business	
6a. POINT OF CONTACT NAME AND TITLE			7. NAME OF FIRM (If block 2	a is a branch office)
Justin Freedman, MS / E Sciences Project Manager / Se	nior Scientist		E Sciences, Incorporated	
6b. TELEPHONE NUMBER	6c. E-MAIL ADDRESS	3	34 East Pine Street	
(954) 484-8500	jfreedman@escie	ncesinc.com	Orlando, FL 32801	
8a. FORMER FIRM NAME(S) (If any)			8b.YR ESTABLISHED	8c. DUNS NUMBER
N/A	·		N/A	N/A

9. EMPLOYEES BY DISCIPLINE					10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS				
a. Function Code	b. Discipline	c. No. of Employees		a. Profile	b. Experience	c. Revenue Index Number			
	b. Discipline	(1) FIRM	(2) BRANCH	Code	b. Experience	(see below)			
02	Administrative	7	1	C18	Cost Estimating	2			
12	Civil Engineer	4	1	E01	Ecological/Archeological Investigations	3			
19	Ecologist	3		E09	Environmental Impact Studies/Assessments or Statements	4			
23	Environmental Engineer	8	3	E10	Environmental and Natural Resource Mapping	1			
24	Environmental Scientist	15	6	E11	Environmental Planning	2			
29	GIS Specialist	2	1	E12	Environmental Remediation	2			
30	Geologist	2	1	E13	Environmental Testing and Analysis	1			
58	Technicians/Interns	2		G04	Geographic Info Systems Development/Analysis	1			
				H07	Highways, Streets, Airfield Paving, Parking Lots	3			
				H11	Housing (Residential, Multi-Family)	1			
				103	Industrial Waste Treatment	1			
				M06	Mining and Mineralogy	1			
				U02	Urban Renewal; Community Development	1			
				S05	Soils & Geologic Studies, Foundations	1			
				S13	Storm Water Handling & Facilities	1			
				W02	Water Resources, Hydrology, Groundwater	1			
	Total	43	13						

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM **FOR LAST 3 YEARS**

(Insert revenue index number shown at right)					
a. Federal Work	1				
b. Non-Federal Work	6				
c. Total Work	6				

Peter K. Partlow, P.E., President

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- Less than \$100,000
- 2. \$100,000 to less than \$250,000
- 3. \$250,000 to less than \$500,000 \$500,000 to less than \$1 million 4.
- \$1 million to less than \$2 million
- \$2 million to less than \$5 million
- \$5 million to less than \$10 million
- \$10 million to less than \$25 million
- \$25 million to less than \$50 million
- \$50 million or greater

		ED REPRESENTATIVE is a statement of facts.
a. SIGNATURE		b. DATE
	the farther	February 21, 2017
c NAME AND TITLE		

ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)

RFQ-471-11891

PART II	- GENERAL	QUALIF	ICATIONS

(If a firm has branch	offices, complete for ea	ach specific branc	h office seeking work.)		
2a. FIRM (OR BRANCH OFFICE) NAME	EITH		3. YEAR ESTABLISHED	4. DUNS NUMBER	
Keith and Associates, Inc.	SOCIATES, INC. ng engineers		1998	N/A	
2b. STREET			5. OWNE	RSHIP	
301 East Atlantic Boulevard			a. TYPE		
2c. CITY	2d. STATE	2e. ZIP CODE	Corporation		
Pompano Beach	FL	33060	b. SMALL BUSINESS STATUS		
6a. POINT OF CONTACT NAME AND TITLE	Dunaidant		DBE		
Adolphine "Dodie" Keith-Lazowick, PLS,	President		7. NAME OF FIRM (if block)	20 in a branch office)	
6b. TELEPHONE NUMBER	6c. E- MAIL ADDRESS		N/A	za is a brancii Unice)	
954-788-3400	dkeith@keith-associa	ates.com			

8a. FORMER FIRM NAME(S) (If any) 8b. YR. ESTABLISHED 8c. DUNS NUMBER N/A N/A N/A

	9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS	
a. Function Code	b. Discipline	c. No. of E	(2) Branch	a. Profile Code	b. Experience	c. Revenue Index Number (see below)
02	Administrative	9		A06	Airports; Terminals and Hangars	6
80	CADD Technician	6	1	B02	Bridges	2
12	Civil Engineer, PE	7	1	C07	Coastal Engineering	2
15	Construction Inspector	7		C10	Commercial Building (Low Rise)	5
16	Construction Manager	2		C11	Community Facilities	6
29	G.I.S. Specialist	2		C15	Construction Management	6
38	Land Surveyor, PLS	5	1	C16	Construction Surveying	4
39	Landscape Architect, RLA	2		E02	Educational Facilities	4
47	Planner: Urban/Regional	2		F02	Field Houses; Gyms; Stadiums	3 .
48	Project Manager	6		G04	G.I.S. Services; Development, Analysis	2
53	Scheduler	1		H07	Highways, Streets, Airfield Paving	4
	Landscape Designer	3		H09	Hospitals & Medical Facilities	3
	Project Surveyor	3		106	Irrigation; Drainage	3
	Survey Field Crew	23	3	L03	Landscape Architecture	5
1.0	Subsurface Utility Engineer	2		P05	Planning (Community, Regional)	3
	Subsurface Utility Field Crew	6		R03	Railroad; Rapid Transit	3
	Utility Coordinator	3		R04	Recreation Facilities (Parks, Marinas, etc)	4
	VDC/BIM	1	1	S10	Surveying; Platting; Mapping; Flood Study	
				S13	Storm Water handling & Facilities	3
				T04	Topographic Surveying & Mapping	4
				W03	Water Supply; Treatment & Distribution	2
	Total	90	7	Z01	Zoning; Land Use Studies	2

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

Less than \$100,000

- \$2 million to less than \$5 million
- \$100,000 to less than \$250,000 \$5 million to less than \$10 million 7. \$250,000 to less than \$500,000

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- \$10 million to less than \$25 million
- 9. \$25 million to less than \$50 million
- 10. \$50 million or greater

b. DATE

(Insert revenue index number shown at right) a. Federal Work N/A b. Non-Federal Work 8 c. Total Work 8

12. AUTHORIZED REPRESENTATIVE

\$500,000 to less than \$1 million

\$1 million to less than \$2 million

The foregoing is a statement of facts.

February 20, 2017

c. NAME AND TITLE

a. SIGNATURE

Eliot Lazowick, Executive Vice President

ARCHITECT ENGINEER QUALIFICATIONS

c. NAME AND TITUE Jessica McRory, President 1. SOLICITATION NUMBER (If any)

471-11891

PART II - GENERAL QUALIFICATIONS (If a firm has branch offices, complete for each specific branch office seeking work.)											
2a. FIRM (OR B			as Dianch Oll	ces, comp	nete for each	i specilic i	orancn	3. YEAR ESTABLISHED	4 DUNS	NUMBER	>
AREHNA E		-						2009		13330	
2b. STREET	ingineer	ing, inc	•					5. OWNE		13330	3
5012 W. L	emon St							a. TYPE	EKSHIP		
2c. CITY					2d. STATE	2e. ZIP C	ODE	Corporation			
Tampa					FL	33609)	b. SMALL BUSINESS STAT	rus		
6a. POINT OF CONTACT NAME AND TITLE			LE					MBE, DBE, WMB	E, DW/	DMBE	
Jessica McR	ory, PE, LE	ED AP, P	resident					7. NAME OF FIRM (If block	2a is a brar	nch office)	
6b. TELEPHONE			6c. E-MAIL ADD					Not Applicable			
813-944-34	64		jmcrory@ar	ehna.com				<u> </u>			
		8a. F	ORMER FIRM N	IAME(S) (If a	any)			8b. YR. ESTABLISHED	8c. DUN	S NUMB	ER
			Not Appli	cable				Not Applicable	Not A	pplicab	le
	a EI	MDI OVEE	S BY DISCIPL	INE				ILE OF FIRM'S EXPER			
	J. LI	WI LOTEL	ES DI DISCII E	-1111		ANNI	JAL AVE	RAGE REVENUE FOR	LAST 5	YEARS	
a. Function		b. Discipli	ine	c. No. of	Employees	a. Profile		b. Experience		evenue Ind Number	dex
Code		b. Discipii		(1) FIRM	(2) BRANCH	Code		b. Experience		ee below,)
27	Found	dation/Geo		9	1						
		Engine				S05	Soils	and Geologic Studies:		6	
57		uctural En	•	3	-			Foundations			
58		chnician/ <i>E</i>		20	2	S09		Structural Design		1	
15		struction I	_	3							
02		Administra	ative	5					_		
									_		
										+	
										 	
	Other Em	ployees									
			Total	40	3						
11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS		PROFESSIONAL SERVICE 1. Less than \$100,000.			ERVICES	6. \$2 million to less that	an \$5 millio				
(Insert revenue index number shown at right)			,000 to less tha ,000 to less tha			7. \$5 million to less than \$10 million8. \$10 million to less than \$25 million					
a. Federal Work 1		1	,000 to less tha			9. \$25 million to less the					
b. Non-Federal Work 6		5. \$1 m	illion to less tha	an \$2 million		10. \$50 million or greate	er				
c. Total Wor	k		6								
					ORIZED REP						
a. SIGNATURE		Jan.		—me foreg	oing is a state	emienii oi tad	บเร.	b. DATE			

CAM 17-0455 Exhibit 2 52 of 79

2/14/2016

ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

PART II -	CENIEDAL	
DADI II —	(=FNFRAI	I AIIINS

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

(If a first has branch offices, complete for each specific branch office seeking work)						
2a. FIRM (OR BRANCH OFFICE) NAME			3. YEAR ESTABLISHED	4. DUNS NUMBER		
Quest Corporation of America, Inc.	1995	140143244				
2b. STREET			5. OWNE	5. OWNERSHIP		
17220 Camelot Court			a. TYPE			
-			Corporation			
2c. CITY	2d. STATE	2e. ZIP CODE	b. SMALL BUSINESS STATUS	S - FDOT DBE / OSD		
Land O' Lakes	FL	34638	W/MBE & SBE			
6a. POINT OF CONTACT NAME AND TITLE			7. NAME OF FIRM (If block 2	a is a branch office)		
Diane Hackney, Senior Vice President						
6b. TELEPHONE NUMBER	6c. E-MAIL AI	DDRESS	1			
866-662-6273 Diane.Hackney@QCAusa.com						
			OF VEAD ECTABLICHED	Oc DUNC NUMBER		
8a. FORMER FIRM NAME(S) (1	8b.YEAR ESTABLISHED	8c. DUNS NUMBER				

9. EMPLOYEES BY DISCIPLINE					10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEAR	S
a. Function	b. Discipline	c. No. of Employees		a. Profile	b. Experience	c. Revenue Index
Code	D. Discipline	(1) FIRM	(2) BRANCH	Code	B. Experience	Number
02	Administrative	20		A05	Airports; Navaids; Airport Lighting; Aircraft Fueling	
06	Architect			A06	Airports; Terminals & Hangars; Freight Handling	
08	CADD Technician			A11	Auditoriums & Theaters	
12	Civil Engineer			B01	Barracks; Dormitories	
15	Construction Inspector			C15	Construction Management	
16	Construction Manager			E02	Educational Facilities; Classrooms	
18	Cost Engineer/Estimator			E09	Environmental Impact Studies, Assessments or Statements	
21	Electrical Engineer			F03	Fire Protection	
23	Environmental Engineer			H04	Heating; Ventilating; Air Conditioning	
24	Environmental Scientist			H07	Highways; Streets; Airfield Paving; Parking Lots	
27	Foundation/Geotechnical Engineer			H08	Historical Preservation	
32	Hydraulic Engineer			H10	Hotels; Motels	
42	Mechanical Engineer			102	Industrial Processes; Quality Control	
47	Planner: Urban/Regional			L04	Libraries; Museums; Galleries	
48	Project Manager			O01	Office Building; Industrial Parks	
56	Specifications Writer			P07	Plumbing & Piping Design	
	Account	4		P12	Power Generation, Transmission, Distribution	
	Public Information	33	5	R04	Recreation Facilities (Parks, Marinas, Etc.)	
	Graphics	4	1	R06	Rehabilitation (Buildings; Structures; Facilities)	
	Website	1	1	S04	Sewage Collection, Treatment and Disposal	
				S13	Storm Water Handling & Facilities	
				W03	Water Supply; Treatment and Distribution	
	Total	62	7			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

Less than \$100,000

- \$2 million to less than \$5 million
- \$100,000 to less than \$250,000 \$250,000 to less than \$500,000 3.
- \$5 million to less than \$10 million
- \$500,000 to less than \$1 million 6
- \$10 million to less than \$25 million 8.
- \$1 million to less than \$2 million
- \$25 million to less than \$50 million 10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE Clans Hacknee b. DATE February 22, 2017

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

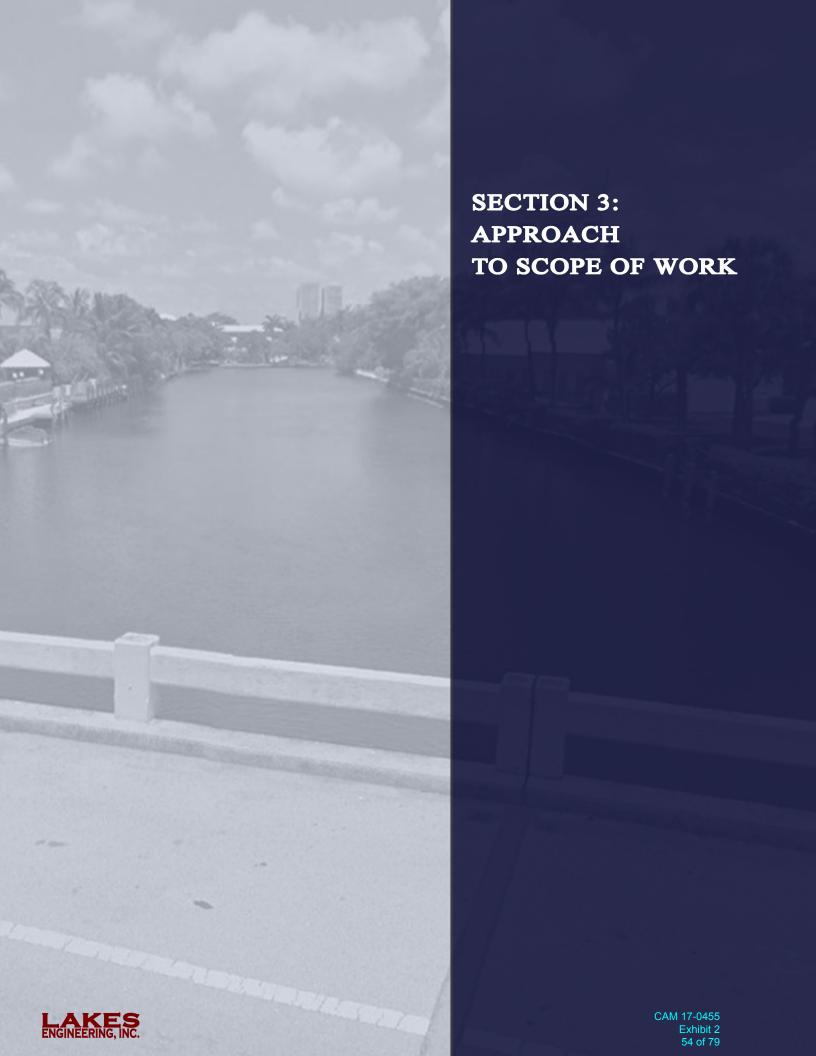
c. NAME AND TITLE

a. Federal Work

c. Total Work

b. Non-Federal Work

Diane Hackney, Sr. Vice President



Approach to Scope of Work

Understanding of Project Scope

Given the age and corrosive environment this Bridge is located, we understand that if selected for this Project, we will be responsible for designing a new structure that is sufficiently durable and resilient to environmental effects (corrosion), rising sea levels/storm surges, is sustainable, mitigates maintenance requirements, and provides a safe, rideable corridor for the traveling public. This Project will require the selected firm to develop plans for demolition of the existing bridge and construction of the new one, assist the City with the procurement process to select a contractor, and then provide construction engineering and inspection services on behalf of the City during construction operations. Recently, Lakes has provided these same services to the Village of Indian Creek (Miami-Dade County) on their historic Bridge Rehabilitation project, which is nearing completion at this time.

For that project, Lakes prepared construction plans for the Bridge (foundation, substructure, and superstructure) and roadway (sidewalks, drainage, traffic control, lighting, etc.), developed comprehensive bid documents, oversaw the evaluation of bids received and selection of a contractor, and is currently providing contractor oversight (shop drawing reviews/approvals, inspection of work in progress, materials certifications, sign-off on contractor invoices, weekly progress meetings, etc.) and inspection services. Thus far, this project has been a resounding success for the Village of Indian Creek. The bridge is now load rated for significantly heavier loads, its useful life has been

extended for an additional 20 years, and the historic architecture of the Bridge has been maintained and revitalized. Our Team is committed to serving the City of Ft. Lauderdale in the same exemplary manner.

Approach to Project Management

Our Project Manager, Mr. Eugene Ochoa, P.E., will work closely with the City's Project Manager and he will be the main point of contact. Mr. Ochoa will work with the City to develop a Project Schedule that meets the Production Date of sometime in 2018, as well as provides sufficient float which will mitigate possible delays due to unforeseen issues. Through close coordination with City staff and a welldefined scope, Mr. Ochoa will monitor project progress, schedule, and budget. He will prepare progress reports, document all meetings (minutes), distribute them, keep a project file, review and maintain the schedule on a monthly basis and ensure that

CONTROL OF BUDGET

- Utilize Earned Value Method to control budget and tie to scheduled production.
- Assemble and provide monthly financial reports.
- Project finances will be handled as individual accounts per line item. Each line item will have a budget. Savings attained in any line item are kept to mitigate any slips that may occur in schedule of another item, or management reserve.
- We utilize SAGE project tracking accounting software to monitor progress including subs.
- Utilize Earned Value Method to support all invoices (3 budget items: Scope, Schedule, and Cost). With each invoice include a progress report detailing progress in producing the work, advancement of coordination items, a payout curve, a payout schedule, and cost to complete estimate.
- Each account will establish monthly production goals.
- Ensure accuracy of invoices.
- Avoid scope creep or rework by developing a well-defined scope.
- Budget will be done in two levels: 1. Design; 2. Construction.
 Design will be monitored monthly. Construction will be updated
 prior to phase submittals: Initial, Constructability, Biddability, and
 Final Production.
- Construction Cost: Look for potential unforeseen conditions, minimize the need for plan revisions, and reduce as many post design efforts as possible. Ensure TTCP are logical; make sure utility coordination is updated in every phase.



the necessary resources are available to deliver the project on time and within the design budget. Eugene will monitor the schedule and budget throughout the design process to ensure the scope is being advanced and mitigate possible delays early-on.

Phase 1 – Design Phase

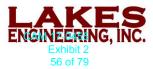
The 80-foot-long Ocean Drive Bridge was constructed in 1952 and reconstructed in 1968. It has four main spans (approximately 20' long) supported on concrete Tee Beams. Our past experience on older bridges that have been reconstructed at some point has taught us that many times the as-built for the past reconstruction may not indicate the existence of old foundation elements that remain, possibly affecting the placement of new foundations. We will investigate this concern prior to initiating foundation design. The typical section of the bridge consists of two travel lanes approximately 10' wide, and paved shoulders approximately 6' wide. There is no raised sidewalk on the west side of the bridge, but the roadway sidewalks lead up to the shoulder on the west side of the bridge. There are no sidewalks on the east side of the bridge or the roadway. The concrete bridge railings do not conform to current standards. There is decorative street lighting on both sides of the southern bridge approach, yet none on the northern side. Unless otherwise indicated during our discussion with the City at the kick-off meeting, Lakes will develop plans for constructing a new bridge with a similar typical section. The new bridge will have two lanes (one in each direction), raised sidewalks (harmonized with roadway sidewalks), paved shoulders, lighting, and railings that meet current standards.

Lakes will begin the design phase of this Project by coordinating with the City's project team and other program areas with a vested interest in the final design of the Bridge to gain a comprehensive understanding of the City's goals for this Project. That will help establish a working dialogue between Lakes and City personnel involved in the Project, as well as allow our design professionals to better understand the City's expectations for the final product. We know that the City is heavily invested in preparing for the impacts of sea level rise, high tides, and storm surge on its public infrastructure and how those impacts will affect residents, private property, and the economy. Recognizing that this Project is one of two Adaptation Action Areas (AAA) capital improvement projects targeted for Harbor Inlet contained in the FY 2017 – FY 2021 Community Investment Plan, Lakes is prepared to assist the City implement this Project in keeping with the City's coastal management element of the comprehensive plan.

In particular, Harbor Inlet is a community that from time to time experiences flooding from high tides, storm surge, and the impacts of rising sea levels. During our early discussions with City staff, Lakes will seek direction from them to determine if it is the City's goal to raise the grade of the bridge, and by default the roadway, in order to make the corridor more resilient to the impacts of high tides and storm surge. Further, our pre-project planning meetings with the City will provide an opportunity to evaluate the possibility of using specific construction materials and methods that are more resilient to the corrosive environment and minimizes deterioration. A good example of that is to use precast elements rather than cast in place. The outcome of decisions on raising the grade of the bridge and roadway will be dependent of cost, material availability, and time.

Plans Production

Upon Notice to Proceed (NTP), we will provide a project work plan, QC plan, schedule, and our public outreach approach. A Project Kickoff Meeting will be held to present the Work Plan and discuss action items. Lakes will immediately initiate geotechnical investigations, as well as confirm any additional survey that may be required. Our



utility coordination will begin immediately to ensure that services are not interrupted and that any utilities that require relocation (if any) will be actively coordinated so as to avoid impacting the construction schedule. We will then develop design packages, including the Typical Section (bridge and roadway), Pavement Design, Variation/Exception Packages and 15% line and grade plans. Once the above items are approved by the City, we will begin a Bridge Development Report (BDR). The BDR will evaluate and compare prestressed concrete slab units versus cast-in-place deck, foundation types, AASHTO girders versus Florida I Beams, and cast-in-place on false work options, as well as provide cost estimates.

The BDR will also include a Hydraulic Report, address canal shoreline protection and evaluate bulkhead alternatives such as post/panel, steel sheet pile, and rip/rap. The BDR will include 30% plans, proposed shoreline protection plans, and proposed canal dredging as determined by the hydraulic/scour analysis. Once the bridge geometry and profile for the roadway are set, we will focus on the reconstruction of the roadway and bridge approaches. As previously noted, the bridge geometry will dictate the limits of roadway work that needs to be done, including the possibility of designing retaining walls to account for the differences in grades between the roadway and adjoining properties. Raising the bridge will impact the roadway from approximately Mayan Lake Drive to the north and Marion Drive to the south. Concurrent with this stage of plans development, the Lakes Team will coordinate with City staff to develop the Maintenance of Traffic (MOT) approach. The Phase II (60%) set of plans will reflect a roadway and bridge typical section consistent with the existing. At this stage, pay items and quantities will be updated at each subsequent phase submittal. Phase III (90%) plans will include completed bridge plans and all proposed changes/additions to the roadway (milling/resurfacing, overbuild, and reconstruction) to ensure that cross slopes meet AASHTO standard criteria and that the drainage is directed to the north and south side of the bridge. Upon resolution of Phase III comments, PS&E Plans and specifications will be delivered 30 days prior to the Plans Production Date. Once all final comments are obtained and cleared, the Bid Package will be prepared and submitted along with signed and sealed Final Plans.

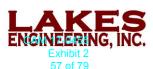
Maintenance of Traffic

While the Ocean Drive Bridge is not the sole ingress and egress for Harbor Inlet residents, it is a heavily traveled corridor with over 9,000 trips per day. Therefore, the temporary traffic control plans (TTCP) we prepare will minimize the impact on residents during construction operations. As we develop the BDR, we will coordinate with City personnel to determine the most effective approach to phased



construction of the Bridge so as to limit inconveniences to the traveling public. For instance, if the City chooses to have the bridge demolished and reconstructed in the shortest time possible (Accelerated Bridge Construction), we will evaluate the use of detours rather than lane closures. If detours are unacceptable to the City, then our staff will develop MOT plans that are based on lane closures consistent with the phased construction approach. The TTCP will also ensure that emergencies and evacuations are accounted for during construction.

We will host regularly scheduled, corridor-wide MOT coordination meetings as a coordinated effort to minimize disruption and maximize traffic control efforts with other on-going projects. Additionally, we will maintain close coordination with the City in regard to changing traffic patterns resulting from MOT shifts, as well as emergencies. Our TTCP will benefit the public by improving traffic safety, reducing the number of incidents, and minimizing inconvenience to the traveling public. Collaboration of technical professionals, local government officials, property owners, the general public, and other stakeholders who live and work near the facility will guarantee a successful and



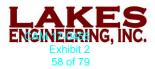
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uneventful operation. During construction, we will implement safety protocols for not only the local residents but also for the waterborne vessels as well as the workers.

Geotechnical

A geotechnical exploration for the design and construction of the South Ocean Drive Bridge Replacement project will be performed in accordance with the Soils and Foundations Handbook (S&FH) and the RFP requirements. AREHNA (our Team's geotechnical subconsultant) is familiar with the subsurface geotechnical conditions at the project site and surrounding areas. A review of the USDA Broward County Soil Survey indicated that the predominant surficial soils along the project limits are classified as Urban Land and Arents-Urban land complex, which are typically characterized as gravelly sands and sands. Based on available subsurface information in the general vicinity of the site, the anticipated subsurface conditions typically consist of gravel/sand/silt mix underlain by alternate layers of sand, cemented sand, shell fragments, and sandstone. In addition, organic material may be encountered at the site. Once a conceptual geotechnical exploration plan has been developed, we will review our proposed exploration plan with the City Engineer for concurrence. Utility clearance and coordination, as well as applicable ROW permits, will be performed prior to field activities. A laboratory testing program will be conducted to verify soil properties and the data will be incorporated into a 'Cross Section Soil Survey' sheet to provide guidance on soil suitability. Report of Core boring sheets will be prepared for all structures. Upon completion of the geotechnical explorations and associated lab testing, geotechnical analyses and recommendations will be presented in geotechnical reports in accordance with the FDOT S&FH and Structures Manual. Based on a review of the available project information and our experience on similar projects, the primary geotechnical considerations that we have identified for this project are as follows:

- Potential impacts due to proximity of the existing residential and seawall structures to the construction
 activities will be evaluated in accordance with FDOT PPM Volume I Chapter 34 and Section 108 of the
 Standard Specifications (Protection of Existing Structures) and RFQ requirements and recommendations for
 settlement and vibration monitoring will be provided.
- Reduction of vibration levels in the selection of bridge foundation system and construction procedures.
- In order to minimize the effects of vibrations during pile driving operations, we plan to analyze various foundation options and installation procedures to minimize the impacts such as: steel piles vs. prestressed concrete piles (smaller pile hammer and initial pile sections can be vibrated in), lower capacity 18-inch piles, preforming of pile holes, use of temporary casing to preform pile holes, and performing dynamic testing on all production piles. Alternatives to be evaluated include augercast piles and drilled shafts using non-vibratory method for temporary steel casing installation, such as rotary or oscillatory methods.
- Mitigation of potential deformations due to roadway compaction operations may include use of static compaction instead of vibratory compaction.
- We will evaluate use of non-vibratory methods for installation of temporary sheetpile walls, if needed, such as the Press-in method, which utilizes static loading to penetrate the sheets instead of vibration.



• Areas of unsuitable soils encountered during the geotechnical exploration will be delineated and recommendations will be provided in accordance with Standard Index Nos. 500 and 505.

Permits/Environmental

Our approach to this bridge replacement project is to identify regulated environmental resources early in the project, shortly after notice to proceed. This will include a benthic resources survey to identify seagrasses or corals that might be located adjacent to or under the bridge. Once resources are identified and mapped using GPS receivers, our biologists will worth with Team designers to avoid and



minimize impacts. Based on preliminary assessments, sea grape trees may be impacted. These impacts will require permits from the City. If possible, we will identify ways to trim trees to avoid the need for full removal. If seagrasses or corals are identified, we will establish protected areas where barges cannot be placed where they will avoid resource impacts. The US Army Corps of Engineers (USACE) and South Florida Water Management District (SFWMD) provide streamlined permitting options for bridge replacements. We will coordinate early with the permitting agencies and utilize the USACE Nationwide Permit and SFWMD General Permit for bridge replacement. Both agencies, as well as Broward County's Environmental Protection and Growth Management Department (EPGMD) will be concerned with potential water quality impacts and impacts to listed marine species such as manatees and sea turtles. Our permit application packages will include a detailed turbidity control plan and protection provisions for marine species. During construction, we will provide permit-required water quality monitoring.

Drainage

Lakes is aware that the City has recently completed a storm water project along NE 18th and we will coordinate with City staff to ensure that the drainage design for this Project integrates with existing drainage systems. Our approach to the storm-water management aspects of this Project begins with extensive and inclusive coordination with the City staff and regulatory agencies. Throughout every stage of design and into construction, our Team will provide the appropriate permit applications, responses to RFI's, and notices to achieve a final product that complies with all applicable local, state, and federal codes and regulations. Currently, the drainage for the bridge is directed to sheet flow to the north and south on the road, where it eventually flows onto grassed shoulders, preventing direct discharge into the waterway. The raised curb along certain sections of the road on either side of the bridge has openings designed to allow the flow to divert to the shoulder at specific intervals. The flow from driveways within the corridor into the roadway increases the amount of stormwater flowing into the roadway. The only observable "stormwater system" within the corridor are the shoulders being used to percolate the water. We will ensure that our drainage design for the Bridge is capable of handling the flows it generates. We will coordinate with the City' stormwater management staff to determine if upgrades to the existing system are expected to be constructed with this Project.

Public Outreach

This design-construction project will affect over 9,000 travelers who use the bridge to access neighborhoods along the Stranahan River in Fort Lauderdale. A project of this magnitude will require a dedicated public involvement expert with a team to support its outreach efforts. QCA will be available to support these efforts 24/7 providing a





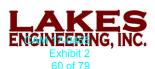
grassroots approach and facilitating two-way open communication. With residents, businesses, and tourists accessing this marine community, QCA will inform the community by making personal contact, delivering flyers, door hangers and sharing the South Ocean Drive Bridge progress via social media. QCA will seek to ensure that the public is informed of related mitigation projects and any possible environmental concerns related to replacing the bridge. Our team will coordinate with neighborhood home owner associations, the Church, intergovernmental agencies, stakeholders and, community groups. While implementing effective media relations and social media strategies, QCA's award-winning, in-house creative services division can create eye-catching, impactful exhibits, presentations, fact sheets, and other tools to help the community understand and become informed about the newly constructed replacement of the South Ocean Bridge.

Survey, Mapping, and Utilities

Survey control, advanced utility exploration, and conflict resolution work is critical to this Project. We will utilize state of the art computer workstations and software applications to help expedite the flow of data from the field to the office, thereby improving the effectiveness and efficiency of services provided. We will use a two- pronged approach to verify and supplement the information used by the design team. First, we will conduct a site visit to review and evaluate field conditions, Project limits, and other conditions that might not have been accounted. We will then perform a comprehensive review of other resources, including information provided by the City (i.e. ROW maps, control surveys, PNC sheets, construction plans and field notes), and if necessary we will review the information contained in other relevant databases. After the field visit and information reviews are completed we will take the additional step of spot checking critical locations, specifically identified by the design team, as a method of augmenting and validating the information they use. If we determine that there are discrepancies in the data, we will perform additional analysis. The information derived from those efforts will help us determine if there are areas that the existing survey data needs to be better populated, or in-filled. If that's the case, then the new data will be blended with the existing survey data to supplement the information provided to the design team.

A Utility Coordination Plan that mitigates impacts to existing utilities will be developed at the onset. All utilities will be identified as an early work activity to ensure minimal impacts to Utility Agency/Owners (UAOs). Our Utility Coordinator will prepare a utility conflict matrix and will communicate with and inform utility organizations of the required adjustments to their existing facilities to respond to improvements impacting utilities. This will occur early in the design phase in order to facilitate proper scheduling for construction and the utility companies. We will assure that the utility coordination process is in accordance with all applicable standards, policies, and procedures. Throughout the course of the project our Team will maintain the conflict matrix and coordinate schedules with UAO's during construction to forecast conflicts and not interfere with the critical path of the project.

Subsurface Utility Engineering (SUE) provides accurate mapping of existing underground utilities, eliminating the need to "find out the hard way" that plotted utility information was inaccurate. These investigations will be performed during the project design process. Our Team understands the value of SUE in helping utility owners, designers, and contractors avoid conflicts or project delays. Therefore, we will perform these services very early in the Project so that our designers have the accurate information required for plans development.



QUALITY CONTROL PROCESS

- Submit project specific QA/QC Plan within 10 days of NTP.
- Project specific QA/QC Plan stems from PPM Chapter 18, and will adhere to FDOT quality assurance design standards.
- Make QA/QC a contractual obligation with all subconsultants.
- Use Pre-Submittal checklist.
- We train all staff working on project including subconsultants on the actual QA/QC process established for the project.
- Our plan will utilize a 5-step process: Check, reconcile, back check, implementation, and QA manager certifies compliance, documents and maintains a log of lessons learned for future submittals.
- Field & Constructability Reviews (CEI Reviews).
- Our firm and subconsultants participate in QA audits for QC compliance.
- Provide mechanism to review all products.
- Provide a well-documented design process & allow feedback from reviews to assist designer to improve.

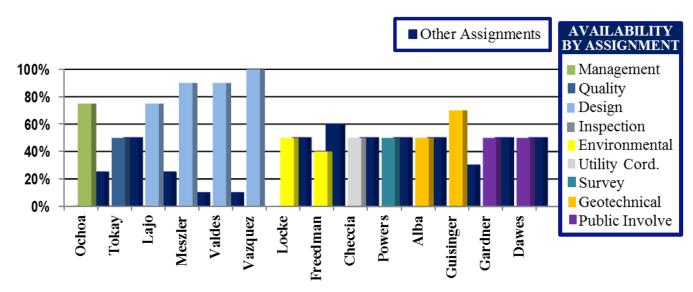
Historic Preservation

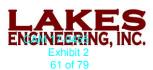
Lakes will coordinate with state and local historical preservation agencies to ensure that all requirements are met for this Project.

Workload and Resources

Our Team for this Project is available and fully committed. Examination of current and projected workloads has confirmed that there will be no difficulty in meeting the scheduled milestones necessary. Upon selection, the Lakes Team key personnel will be ready to start work immediately. Resource loading will be the responsibility of our Project Manager, Mr. Eugene Ochoa. He will ensure that the proposed key personnel remain dedicated for the duration of the assignment and are fully equipped with sufficient technical support to meet all project demands.

Our design resources are available to the City immediately upon award. Lakes uses and is heavily invested in state of the art computer software for design and plans production. Our staff is trained and experienced in the use of all the latest technology and 3D graphical advancements. Our engineers and support staff utilize the latest software such as STAAD Pro, Leap Cons pan, MathCAD, FB Multi Pier, AutoCad Civil 3D, Microstation with PowerGeopak and Revit for BIM.





Phase 2 - Bidding

Our experiences responding to solicitations (RFP, Bids, etc.) for design and design-build services, combined with our experiences developing and managing procurement processes for our clients, has taught us that no matter how well prepared the documents are, there will be questions from potential respondents. The questions will range from clarifications to the procurement process (responded to by City personnel) to questions regarding concept plans (responded to by our staff). The City of Ft. Lauderdale can be certain that Lakes will be by their side during the prebid conference and through approval of a contract for construction of the bridge to answer any questions that may arise. Should questions or clarifications result in an addendum, then Lakes will assist the City provide answers to requests for additional information, general questions, and/or modify plans to address any issues raised that weren't covered in the documents provided to potential respondents. We know how important it is to get it right from the start by providing respondents with comprehensive information so they can make an informed offer and avoid problems down the road. Lakes further commits to reviewing the procurement documentation and providing City personnel with feedback regarding how respondents will perceive the information contained in the documentation.

Phase 3 - Construction Management

Our construction engineers have an in-depth knowledge of construction practices, state-of-the-art technology, and quality assurance processes, as well as the management skills necessary to deliver finished projects to the complete satisfaction of our Clients. More importantly, they have a proven track record of successfully coordinating contractor performance with client expectations. They also have experience preparing purchasing requisitions, processing change orders, preparing monthly budgeting reports, and handling meeting minutes and project documentation.

Preconstruction

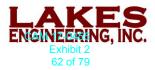
Part of the pre-construction effort includes items such as contract execution, approval of cost loaded project schedule, permitting clears, public involvement, performing GIS inventory, establishing joint survey control, and attend the pre-construction conference. Our goal is to look at every component to be constructed, identify potential pitfalls, and start the problem-solving process before construction commences. Document control (e.g. daily reports, testing data, certifications, RFI's, etc.) is key to re-assuring the City that the bridge was constructed in conformance with all applicable standards.

During Construction

Once construction starts, our Team will administer terms of this contract utilizing the documents, standards, policies, and procedures that govern it. Our team will review and monitor the contractor's CPM schedule, paying particular attention to critical path activities preceding integration and tracking



field progress on these items so that we can effectively and efficiently schedule integration work. Lakes will also ensure construction compliance with plans & specs, assist public involvement, track materials, and hold weekly progress meetings with the Contractor to discuss submittals, issues, and schedule updates. As RFI's and Notice of Intent to Claim are received we will work to expediently resolve issues while keeping the City advised and provide weekly project updates, including current pictures. Our inspection staff will be present at each of the critical construction operations (i.e. demolition, shaft installation, etc.). Our inspectors are also provided with a copy of the contractor's approved work schedule. Each day they assist in tracking the contractor's progress by entering the



schedule activity ID into the daily reports. Upon completion of the day's events, the records will be uploaded and available for review. Our reporting software will immediately prepare a report that will give project stakeholders an instant summary of pay item quantities, material quality dispositions, and enable us to respond electronically to the City Project Manager on a daily basis.

Project Closeout

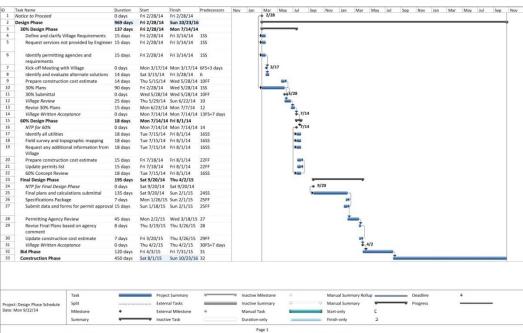
Closeout includes on-time project delivery, final documentation, material certification statement, certified as-built, and punchlist/final acceptance. This process includes submission of a signed final request for payment from the Contractor with all claims settled, delivery of all warranties and equipment manuals, completion and documentation of all testing, completion of all training, completion of all punchlist items, closeout and acceptance of all permits, and coordination of operational turnover to the City.

Schedule

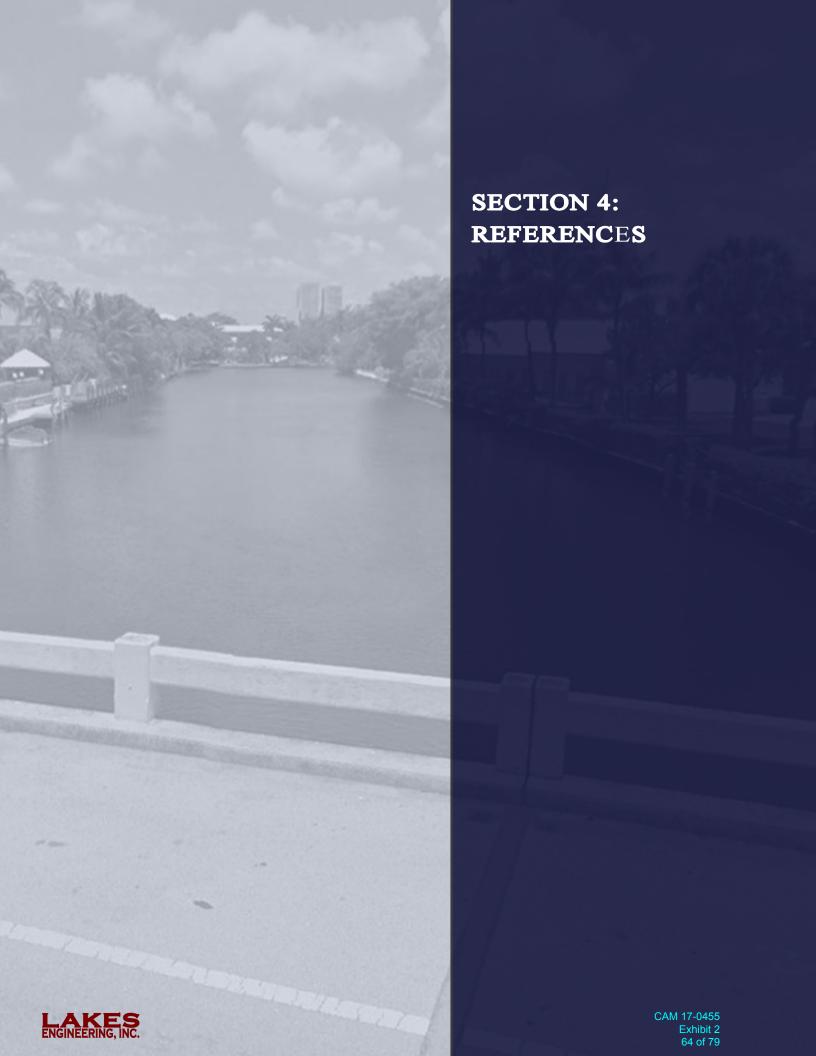
The graphic below is a sample of a schedule we developed for the Indian Creek Village Bridge Rehabilitation Project and is very similar to the schedule we will develop for this Project. With a construction start date in 2018, Lakes will develop an aggressive plans production schedule. The timeline for the solicitation and selection of a contractor will be determined by the established City procurement process (i.e. advertisement, pre-bid conference, bid submission deadline, time for evaluation of submissions, etc.). We understand that construction is scheduled to begin in 2018, so once we receive the contractor's CPM, we will update and correlate it with ours.

CONTROL OF SCHEDULE

- Production date 2018
- Submit a Project Schedule within 5 days of NTP
- Include positive float for long lead items or unforeseen issues
- Develop a project schedule recovery plan
- Clarify the Project Schedule prior to releasing any work tasks
- Update Project Schedule
- Utilize Earned Value Method (Scope, Staff, and Schedule)
- Monitor production vs value on a regular basis
- Track Critical Path Activities
- Accelerate early milestones aggressively to obtain positive float
- Be proactive with Utilities and Permitting
- Respond and Resolve comments quickly
- Maintain 60 day look ahead
- Include Buffer for QA/QC
- Obtain early approval of Typical Section Package /Design Variations







References

Design-Build Venetian Causeway Bridge Rehabilitation, Miami-Dade County, Florida

Project #1 in Standard Form 330

Contact	Description of Work	Year Completed	Construction Cost
GLF Construction Corp. William Junkin 528 North West 7th Avenue Miami, Florida 33136 305-371-2777 wjunkin@glfusa.com	Structural design services for the rehabilitation of the historical Venetian Causeway Bridge.	2016	\$11 M
		LAKES E	NGINEERING

Indian Creek Village Bridge, Indian Creek Village, Florida

Project #2 in Standard Form 330

Contact	Description of Work	Year Completed	Construction Cost
Indian Creek Village Samuel Kissinger 9080 Bay Drive Indian Creek Village, FL 33154 305-865-4121 mlima@icvps.org	Design and construction administration of the rehabilitation of the existing bridge over Indian Creek	On-Going	\$4 M

SR-838 Sunrise Blvd Bridge over Middle River, Fort Lauderdale, Florida

Project #3 in Standard Form 330

Contact	Description of Work	Year Completed	Construction Cost
Dragados USA Wayne Otto 2 Alhambra Plaza Coral Gables, FL 33134 954-513-3898 wotto@Dragados-USA.com	Development of construction structural plans, reinforcement bar lists, and quantities, erection sequence, bridge frame and foundation elements for the Temporary Detour ACROW Bridge.	2016	\$9.5 M

NE 27th Terrace Bridge Replacement, Pompano Beach, Florida

Project #4 in Standard Form 330

Contact	Description of Work	Year Completed	Construction Cost
Cone & Graham Tim Pristiner 5205 McMillan Way Riviera Beach, FL 33407 (561) 727-3939 tpristiner@conegraham.com	Lakes Engineering's personnel were responsible for project management, client coordination, structural design, specifications, permitting, phased construction of bridge and post design services.	2013	\$1 M
		LAKES E	NGINEERING



LAKES ENGINEERING

LAKES ENGINEERING

Exhibit 2 65 of 79

SR-84 at NW 136th Avenue Intersection, Broward, Florida

Project #5 in Standard Form 330

Contact	Description of Work	Year Completed	Construction Cost
Florida Department of Transportation, District 4 Rita Bulsara, P.E. 3400 W Commercial Blvd, Fort Lauderdale, FL 33309 954-777-4680 rita.bulsara@dot.state.fl.us	Design plans for the addition of westbound to northbound right turn lane from SR 84 to NW 136 Avenue to provide three right lanes, widening bridges over the N. New River Canal to provide a third SB thru lane and taper the NB thru lane, reconstruction of the traffic separator under the overpass to increase storage for southbound to EB left turn, installation overhead signs on NW 136th Ave. to direct southbound traffic to I-595 east and SR-84 east, and converting a northbound thru lane to a northbound left turn lane at SR-84 westbound.	On-Going	N/A

LAKES ENGINEERING, ARHNEA (Geotechnical) & Quest Corporation of America (public Involvement)

Big John Monahan Bridge Replacement Project (Design-Build), Martin County, Florida Project #6 in Standard Form 330

Contact	Description of Work	Year Completed	Construction Cost
Fausto Gomez, P.E. Florida Department of Transportation, District 4 3400 W Commercial Blvd, Fort Lauderdale, FL 33309 954-777-4466 fausto.gomez@dot.state.fl.us	Design of a Category 2 Bridge over the St Lucie Canal; including the complete design of all elements of the superstructure and substructure, permits, geometric layout, and load generation for gravity, lateral, longitudinal and time dependent. Provided post-design services, including review of shop drawings, RFI, RFC, and RFM.	2014	\$32 M
-		LAKES E	NGINEERING

Pompano Beach CRA Continuing Contract for Environmental Engineering Project #7 in Standard Form 330

Year Construction Contact **Description of Work** Completed Cost Environmental engineering services for the City of Pompano Beach Community Pompano Beach for multiple projects: Community Redevelopment Agency Gardens Parcels, Broard Community & Family Horacio Danovich, P.E. Health Center, Corner of Atlantic Ave./W. Dixie 100 West Atlantic Boulevard **On-Going** N/A 2nd Floor Suite 276 Hwy, Blanche Ely and Adjacent Parcels, Mallek Pompano Beach, FL 33060 Property, Flagler Ave. Property, 8 Hammondville 954-786-7834 Rd. Parcels, & 731 Hammondville Rd. Parcel. Horacio.Danovich@copbfl.com

Ravenswood Bridge Replacement FDOT D4, Fort Lauderdale, Florida

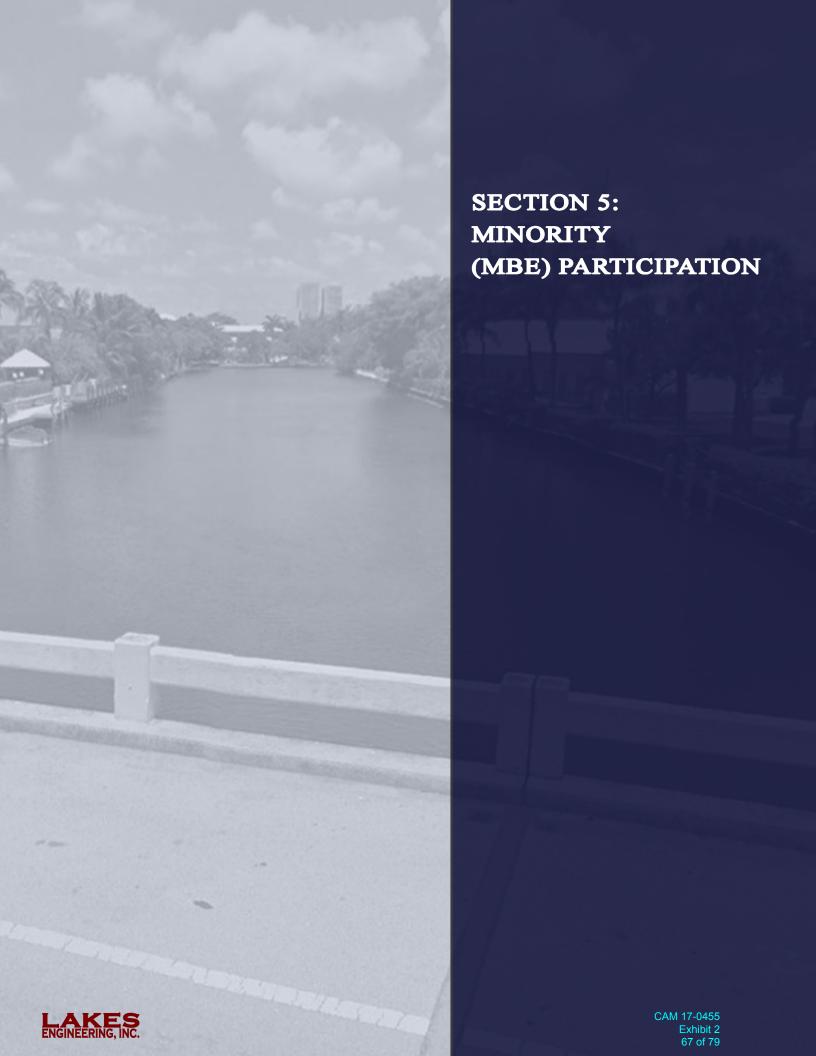
Project #8 in Standard Form 330

Contact	Description of Work	Year Completed	Construction Cost
7205 Corporate Center Dr #201,	Utility Coordination for this Bridge Replacement project on Ravenswood Rd., north of Griffin Rd. Design ticket with Sunshine State One Call of Florida identified twelve (12) Utility Agencies.	Fall 2017	\$4.7 M

Keith & Associates

E SCIENCES





Minority (MBE) Participation

We have partnered with M/WBE Certified firms AREHNA Engineering, Inc. and Quest Corporation of America. Their resources will be an integral component of our Team and will be actively involved in the day-to-day work assignments. Lakes Engineering is also committed to achieve the City's objective in assisting City Certified MBEs and WBEs participate in City contracts. To follow, we have provided the corresponding certificate for both M/WBE firms.



State of Florida

Minority, Women & Florida Veteran Business Certification

AREHNA Engineering, Inc.

Is certified under the provisions of 287 and 295.187, Florida Statutes, for a period from:

01/12/2016 to 01/12/2018







State of Florida

Minority, Women & Florida Veteran Business Certification

Quest Corporation of America,

Is certified under the provisions of 287 and 295.187, Florida Statutes, for a period from:

01/28/2016 to 01/28/2018



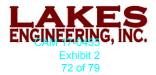






Subconsultants

Subconsultant	Proposed Personnel	Role
E Sciences, Incorporated 224 SE 9th Street Fort Lauderdale, Florida 33316	Nadia G. Locke, P.E., LEED AP ND	Lead Environmental Engineer
	Justin Freedman, MS, CA, CLI	Senior Environmental Scientist
Keith and Associates, Inc. 301 E Atlantic Boulevard		
Pompano Beach, Florida 33060	Daniel Checchia	Subsurface Utility Engineering and Utility Coordination Manager
	Lee Powers, PSM	Project Surveyor/GIS Specialist
AREHNA Engineering, Inc. 1440 Coral Ridge Drive, #116 Coral Springs, Florida		
33071neering, Inc.	Angela L. Alba, PE	Senior Geotechnical Engineer
	Amy L. Guisinger, PE	Geotechnical Engineer
Quest Corporation of America 3105 NW 107th Avenue, Suite 400, Doral, FL 33172		
	Angel Gardner Leigh-Ann Dawes	Public Involvement, Public Outreach Public Information





STATEMENT OF QUALIFICATION CERTIFICATION

Please Note: 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: (Leg	gal Registra	ation)	Lakes En	gineering,	inc.				
Address:	4870 SW	72nd Ave	enue						
City:	Miami					State:	FL	Zip:	33155
Telephone No.	305-667-	1657	FAX No	305-667-	-1790	Email:	eoche	oa@lakese	eng.com
Does your firm	qualify for	MBE or W	BE status:		MBE	_ WBE _			
ADDENDUM A			NT - Prop	oser ackno	wledges t	hat the f	ollowing	addenda I	nave been received
Addend	•	Date Issu 2/27/20			Addendu	m No.	Date Issu	<u>ied</u>	
			_					_	
	our respon	se electro	nically thr	ough BIDS	YNC you i				bid, simply mark N/A
instructions, con all attachments accept a contra bid/proposal. The that in no event expenses, or los conferences, sit	ditions, specincluding the ct if appro- e below signt shall the (at profits arise visits, evaluments)	cifications are specifications aved by the natory also City's liabiliting out of taluations, call not applications are specifications.	addenda, leg tions and fi e City and hereby agre ty for respo his competi oral present y to claims	gal advertise ully understa such acceptes, by virtue ondert's ind tive solicitations, or a arising under	ement, and and what is obtaince cover of submitti irect, incider in process award process.	conditions required. ers all ter ing or atterental, cons , including eedings existed to be considered.	contained By subn ms, condi mpting to s cequential, but not lir xceed the lemnification	in the bid/ nitting this tions, and submit a res special or nited to pul amount o	as stated subject to all proposal. I have read signed proposal I will specifications of this specifications of this specifications of this specifications of the specification of the second se
Submitted by:						1			
Eugenio Ocl					8				
Name (printed	1)			_	Signature	1			
March 6, 20	17				Princip	oal			
Date:					Title				



NON-COLLUSION STATEMENT

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

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

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

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

- 3.3. City employees may not contract with the City through any corporation or business entity in which they or their immediate family members hold a controlling financial interest (e.g. ownership of five (5) percent or more).
- 3.4. Immediate family members (spouse, parents and children) are also prohibited from contracting with the City subject to the same general rules.

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

<u>NAME</u>	<u>RELATIONSHIPS</u>

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.

LOCAL BUSINESS PREFERENCE CERTIFICATION STATEMENT

The Business identified below certifies that it qualifies for the local BUSINESS preference classification as indicated herein, and further certifies and agrees that it will re-affirm it's local preference classification annually no later than thirty (30) calendar days prior to the anniversary of the date of a contract awarded pursuant to this ITB. Violation of the foregoing provision may result in contract termination.

(1)		is a Class A Business as defined in City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. A copy of the City of Fort Lauderdale current year Business Tax Receipt <u>and</u> a complete list of full-time employees and their addresses shall be provided within 10 calendar days of a formal request by the City.
	Business Name	
(2)	Business Name	is a Class B Business as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. A copy of the Business Tax Receipt <u>or</u> a complete list of full-time employees and their addresses shall be provided within 10 calendar days of a formal request by the City.
(3)	Business Name	is a Class C Business as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. A copy of the Broward County Business Tax Receipt shall be provided within 10 calendar days of a formal request by the City.
(4)	Business Name	requests a Conditional Class A classification as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. Written certification of intent shall be provided within 10 calendar days of a formal request by the City.
(5)	Business Name	requests a Conditional Class B classification as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. Written certification of intent shall be provided within 10 calendar days of a formal request by the City.
(6)	Lakes Engineering, Inc. Business Name	is considered a Class D Business as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. and does not qualify for Local Preference consideration.
BIDDE	ER'S COMPANY: Lakes Er	ngineering, Inc.
	ORIZED COMPANY PERSON: E	ugenio Ochoa 2/27/2017 NAME SIGNATURE DATE

CONTRACT PAYMENT METHOD BY P-CARD

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 payment by credit card via MasterCard or Visa. This allows you as a vendor of the City of Fort Lauderdale to receive your payment fast and safely. No more waiting for checks to be printed and mailed.

In accordance with Article 7, item 7.4.3 of the consultant agreement attached herein, payments for all services will be made utilizing the City's P-Card program (MasterCard or Visa). Accordingly, firms must presently have the ability to accept credit card payment or take whatever steps necessary to implement acceptance of a credit card before the commencement of the agreement.

Please indicate with which credit card you prefer	to be paid:
Master Card	
XVisa Card	
Company Name:Lakes Engineering, Inc.	
Eugenio Ochoa	
Name (printed)	Signature
February 27, 2017	Principal
Date:	Title



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 10/12/2016

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

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

CONTACT Marvin Rivas

Madison Insurance Group 15190 SW 136th Street Suite 21					PHONE (A/C, No, Ext): (305) 597-8771 FAX (A/C, No): (305) E-MAIL ADDRESS: mrivas@madisoninsgroup.com					597-8773	
	Miami, FL 33196						NAIC#				
						INSURE	RA: HARTF	ORD CASUA	LTY INS CO		29424
INSL	JRED	Lakes Engineering, Inc.				INSURE	19038				
		4870 SW 72nd Ave				INSURE	RC: Commer	ce and Industr	y Insurance Company		19410
		Miami, FL 33155				INSURER D: Atlantic Specialty Insurance Company					A0412
						INSURE	RE:				
						INSURER F :					
СО	VER	AGES CER	TIFIC	ATE	NUMBER:				REVISION NUMBER:		
THIS IS TO CERTIFY THAT THE POLICIES OF INDICATED. NOTWITHSTANDING ANY REQUESTION OF MAY PERCENCIPE AND CONDITIONS OF SUCH POLICIES.			JIREN RTAII LICIE	IENT, N, THI S. LIN	TERM OR CONDITION OF AI E INSURANCE AFFORDED E	NY CONT BY THE	TRACT OR OTI POLICIES DES CED BY PAID	HER DOCUMEI SCRIBED HERI CLAIMS.	NT WITH RESPECT TO W EIN IS SUBJECT TO ALL	HICH TH	HS
INSR LTR		TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER		POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	Ш	/ITS	
Α		COMMERCIAL GENERAL LIABILITY			21 SMB UF2265		09/01/2016	09/01/2017	EACH OCCURRENCE	\$	1,000,000
		CLAIMS-MADE OCCUR							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$	300,000
									MED EXP (Any one person)	\$	10,000
									PERSONAL & ADV INJURY	\$	1,000,000
	GEN	L AGGREGATE LIMIT APPLIES PER:							GENERAL AGGREGATE	\$	2,000,000
		POLICY PRO- JECT LOC							PRODUCTS - COMP/OP AGG	\$	2,000,000
		OTHER:								\$	
	AUTO	OMOBILE LIABILITY							COMBINED SINGLE LIMIT (Ea accident)	\$	
		ANY AUTO							BODILY INJURY (Per person)	\$	
		OWNED SCHEDULED AUTOS ONLY AUTOS							BODILY INJURY (Per accident) \$	
		HIRED NON-OWNED AUTOS ONLY AUTOS ONLY							PROPERTY DAMAGE (Per accident)	\$	
									,	\$	
		UMBRELLA LIAB OCCUR					09/01/2016	09/01/2017	EACH OCCURRENCE	\$	3,000,000
С		EXCESS LIAB CLAIMS-MADE			EBU-062601488				AGGREGATE	\$	3,000,000
		DED RETENTION \$							Crisis Response Sub	\$	250,000
В		KERS COMPENSATION EMPLOYERS' LIABILITY			XAUB-4627T06-A-16		09/15/2016	09/15/2017	PER OTH STATUTE ER		
	ANY F	PROPRIETOR/PARTNER/EXECUTIVE	 .						E.L. EACH ACCIDENT	\$	1,000,000
	(Man	CER/MEMBER EXCLUDED?	N/A						E.L. DISEASE - EA EMPLOYE	E \$	1,000,000
	If yes	describe under RIPTION OF OPERATIONS below							E.L. DISEASE - POLICY LIMIT	\$	1,000,000
D		essional Liability			DPL-5475-16		06/06/2016	06/06/2017			1,000,000
DES	CRIPTI	ON OF OPERATIONS / LOCATIONS / VEHICLE	S (AC	ORD 1	01 Additional Remarks Schedul	e. may be	attached if mor	e space is requi	ired)		

CERTIFICATE HOLDER	CANCELLATION
ТВА	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 WITHORIZED REPRESENTATIVE

Civil Engineering Firm ENGINEERS PROFESSIONAL LIABILITY INSURANCE POLICY Retroactive date 06/06/2014

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CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 10/12/2016

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).

						NAME:						
Marsh Sponsored Programs				PHONE (A/C, No, Ext): 1-877-320-9393 (A/C, No): 515-365-0895					5-0895			
a division of Marsh USA Inc.					E-MAIL ADDRESS: riskmanagement@marshpm.com				Vendor ID: 31459			
PO Box 14404					INSURER(S) AFFORDING COVERAGE NAIC#							
Des Moines, IA 50306-9686											24147	
INSURED												
		es Engineering Inc.				INSURER B:						
	4870 SW 72nd Ave.						INSURER C:					
	Miar	ni, FL 33155				INSURE						
						INSURER E :						
						INSURER F:						
					NUMBER:	·= 5==			REVISION NUMBER:			
IN	DICA	S TO CERTIFY THAT THE POLICIES ATED. NOTWITHSTANDING ANY RE	QUIR	EME	NT, TERM OR CONDITION	OF AN'	Y CONTRACT	OR OTHER I	DOCUMENT WITH RESPE	CT TO	WHICH THIS	
		FICATE MAY BE ISSUED OR MAY I ISIONS AND CONDITIONS OF SUCH								O ALL	HE TERMS,	
INSR LTR			ADDL	SUBR			POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMIT	rs		
LIK		COMMERCIAL GENERAL LIABILITY	INSD	WVD	POLICT NUMBER		(MIMI/DD/YYYY)	(WIW/DD/TTTT)		\$		
									DAMAGE TO RENTED			
		CLAIMS-MADE OCCUR							PREMISES (Ea occurrence)	\$		
									MED EXP (Any one person)	\$		
									PERSONAL & ADV INJURY	\$		
	GEN	I'L AGGREGATE LIMIT APPLIES PER:							GENERAL AGGREGATE	\$		
		POLICY PRO- JECT LOC							PRODUCTS - COMP/OP AGG	\$		
	ALIT	OTHER: OMOBILE LIABILITY							COMBINED SINGLE LIMIT	\$ 1.000	000	
									(Ea accident)		0,000	
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Α		AUTOS AUTOS NON-OWNED		Х	L252769-16		03/02/2016	03/02/2017	BODILY INJURY (Per accident)	\$		
		HIRED AUTOS AUTOS							PROPERTY DAMAGE (Per accident)	\$		
										\$		
		UMBRELLA LIAB OCCUR							EACH OCCURRENCE	\$		
		EXCESS LIAB CLAIMS-MADE							AGGREGATE	\$		
		DED RETENTION \$								\$		
		KERS COMPENSATION EMPLOYERS' LIABILITY							PER OTH- STAT UTE ER			
	ANY	PROPRIETO R/PARTNE R/EXECUTIVE	N/A						E.L. EACH ACCIDENT	\$		
	(Man	CER/MEMBER EXCLUDED?	N/A						E.L. DISEASE - EA EMPLOYEE	\$		
	If yes	s, describe under CRIPTION OF OPERATIONS below							E.L. DISEASE - POLICY LIMIT	\$		
DESC	RIPT	ION OF OPERATIONS / LOCATIONS / VEHICL	ES (A	CORE	101, Additional Remarks Schedu	le, may b	e attached if mor	e space is requir	red) GPBR: 2QL2			
		vides protection for any & all operations/jobs Subrogation included where required by writ						rtificate holder is	s an Additional Insured where re	quired by	written contract.	
		g,										
	OFFICIAL HOLDER					OANOELL ATION						
CE	CERTIFICATE HOLDER					CANC	ELLATION				1	
						SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE						
	Proc	of of Coverage				THE	EXPIRATION	I DATE THE	EREOF, NOTICE WILL		-	
		<u>-</u>				ACCORDANCE WITH THE POLICY PROVISIONS.						
	4868 SW 72nd Ave.											
	Miami, FL 33155					AUTHO	RIZED REPRESE					

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