



City of Margate RFQ 2018-012 Civil Engineering Services



Prepared for:

**City of Margate
Purchasing Division
5790 Margate Boulevard
Margate, FL 33063
Due Date: October 9, 2018
Time: 11:00 A.M.**

Responsible Office:

**Carnahan, Proctor and Cross, Inc.
814 S. Military Trail
Deerfield Beach, FL 33442
(O) 954.972.3959**

Contact Person:

**Dan Tintner, P.E.
(C) 954.593.8774
DTintner@cpc-eng.com**



SECTION 1

Transmittal Letter



LETTER OF INTEREST

October 9, 2018

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

RE: RFQ 2018-012 Civil Engineering Services

Dear Selection Committee:

Carnahan, Proctor and Cross, Inc., (CPC), is pleased to submit this Letter of Interest to your Request for Qualifications for providing the City of Margate with Professional Civil Engineering Services. ***CPC currently performs under continuing service contracts for Broward County municipalities. We have completed numerous similar local municipalities' projects including the City of Margate, City of Coconut Creek, City of Dania Beach, City of Oakland Park, City of Delray Beach, City of Deerfield Beach and the Town of Lauderdale by the Sea.*** We also have current assignments with the Seminole Tribe of Florida and the Florida Department of Transportation. We are prepared to provide the depth of experienced personnel necessary for each assignment. This contract presents an extraordinary opportunity to provide alternative solutions and multiple design solutions for your individual projects. We always produce the most cost-efficient plans with the lowest feasible construction costs. We provide ways to add value, avoid conflicts, reduce construction costs while simultaneously maintaining constructability, enhancing the overall system and reducing future efforts.

CPC's Team is multi-disciplined, and we are prepared to provide professional services:

- Civil Engineering
- Transportation/Traffic Engineering
- Construction Engineering & Inspection (CEI)
- Surveying and Mapping
- Architecture and Landscape Architecture

We are truly excited about the opportunity and look forward to providing the City of Margate with the benefit of our experience with similar projects. Established in 1977 in the City of Margate, Broward County, CPC has been providing professional consulting services for over 40 years. We maintain in-house divisions with a team of 85, including registered and licensed Professionals Engineers and Surveyors who focus on design, land planning, transportation and traffic engineering, civil engineering, construction management and construction engineering and inspection (CEI) services, surveying, mapping (including 3D laser scanning) and other design services.



We are prepared to provide the services as outlined in the RFQ, providing design, plan review, permitting, specification development, process evaluation, cost estimation, bid assistance, bid and construction documents, construction management, inspections, etc., on an as-needed basis. Professional services contemplated include cost studies, feasibility studies, traffic studies, planning, and capital needs assessments, regulatory permitting and compliance, design, and various services, including but not limited to survey and topography, site development, landscape architecture, traffic analysis, and project management, during construction. We will work closely as an extension of the City's staff to deliver successful projects on time and within budgets.

CPC has included ACAI Associates Inc. (ACAI) Broward County DBE/MBE as an Architectural subconsultant to our team. We carefully selected ACAI based on their knowledge and expertise in performing services for local governments. Their experience includes the City of Sunrise Passive Parks, City of Parkland Fire Station 42, and Town of Davie Vista View Park among others. ACAI also will support CPC providing Landscaping Architecture services and with general contractors, architects, project managers and permit expeditors on staff, ACAI/CPC Team knows all of the critical questions to ask. By blending innovative problem-solving skills, solid research methodology, quality construction techniques, and a collaborative approach, the ACAI/CPC Team consistently completes projects on time and within budget. CPC was part of the Margate's Road Bond Project and is currently serving several other municipalities.

Thank you for the opportunity to present our qualifications for this contract. The entire CPC Team is ready to start immediately on your next planning, construction, civil, site development or infrastructure improvement project. Dan Tintner, PE will be the official corporate contact.

We are committed to the highest level of technical professionalism and integrity in the delivery of our services. Our Team has extensive experience and has carefully reviewed the scope of services for this contract. CPC has assembled a team of highly qualified personnel for this project. The Team is experienced in all aspects of the proposed work, possesses a successful record of performance, and is committed to providing the highest quality of service from the start of the project until submittal of the final closeout documents.

Sincerely,

Carnahan Proctor and Cross, Inc.

Dan Tintner, P.E.
Senior Vice President
DTintner@CPC-eng.com
954.593.8774

Carnahan Proctor and Cross, Inc.

Gregory M. Proctor, P.E.
President/CEO
GProctor@CPC-eng.com
954.972.3959





SECTION 2

Corporate History



CORPORATE HISTORY

Carnahan Proctor Cross (CPC) is a multi-disciplined professional service consulting firm established in Broward County in 1977. Since its inception, CPC has broadened and refined its services and is proud to have grown both in size and leadership. The firm's team includes a broad combination of highly skilled and well-respected professionals that are dedicated to building strong client partnerships and identifying ways in which residents, businesses, and public agencies can successfully plan, design and construct their sustainable future.

CPC realizes that governments face a challenge of planning new infrastructure that must meet the needs of their communities and enhance the overall quality of life for years to come. As a continuing professional services consultant for cities, counties and other local governments, we routinely perform design and engineering services in the public sector. Having served as both owner's rep and prime consultant, CPC can anticipate challenges from both sides of any development issue.

CPC maintains divisions that focus on design, planning, civil engineering, geomatics, 3D laser scanning and BIM, land surveying & mapping and construction engineering inspection services (CEI). The technical expertise and practical knowledge of our staff allow CPC to offer customized solutions that are a step beyond conventional problem-solving. CPC's corporate philosophy is to provide exemplary professional services with an emphasis on quality, cost efficiency and exceptional personal service to our clients. After over 40 years the success of the firm rests clearly on management, competence, and expertise of our professional staff. CPC provides a strong framework regardless of the size, scope or phase of a project. CPC is committed to providing value to our clients through professional, timely and cost-effective services.

CPC ranks among the Top 25 Engineering firms in Central and South Florida. With regional offices in both locations, CPC has the resources, experience, and capacity to successfully complete assignments of any size and complexity. Our engineers are leaders in the Florida consulting industry. CPC manages more than 80 professional and technical team members in-house who work together to service clients' project needs, and are fully equipped with state-of-the-art technology and design software. True to CPC's reputation and practice, we strive to fill the role of trusted advisor for our clients, providing a long-lasting reciprocal relationship that can solve today's development challenges, and plan strategically for a sustainable future.

CORPORATE LEADERSHIP

GREG PROCTOR, PE, Principal-In-Charge

Mr. Proctor has been with CPC for over 30 years and has been responsible for heading up many significant projects for the firm. Since 1980, Mr. Proctor has risen through the ranks from design engineer to President to lead the company's expansion as he became a partner in 1992 overseeing the growth of the engineering and surveying divisions. Responsibilities in his professional career included all aspects of Civil Engineering; design, permitting, estimating and construction management. Mr. Proctor has administered the design and management of private and public projects along highways, waterways, beachfront, and conservation areas. Projects have included rural/urban roadway, water and wastewater transmission lines and treatment, earthwork operations including canal/lake excavations, site investigation, wetland evaluations, site development, planning, land use/rezoning representation and platting, utility/drainage engineering, implementation for residential subdivisions, commercial, industrial projects and utility district operations.





CPC serves multiple governmental agencies on professional services contracts on an as-needed basis. To accomplish projects of this nature, we dedicate a client manager to serve as an extension of your staff to coordinate the planning, engineering and surveying resources needed.

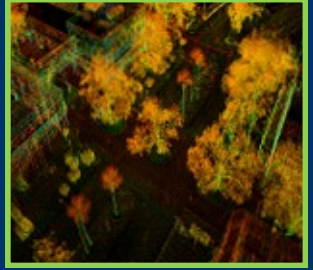
DAN A. TINTNER, PE, Vice President of Government Services

Mr. Tintner will serve the role of Program Manager / Senior Project Engineer. Dan has been providing professional engineering services in South Florida for over 28 years. He has successfully managed multiple continuing professional engineering contracts simultaneously with great success. Dan is very knowledgeable of local, Broward County, and FDOT codes and ordinances, which will ensure a smooth process for any projects that may be assigned. Some of his recent experience includes Broward County Roadway Design, CEI projects, and Broward County Neighborhood Improvement Projects, including North Andrews Gardens Neighborhood Improvement Project, a 730-acre community that has been annexed to the City of Oakland Park. Dan's tenacity at maintaining good stakeholder relations and his excellent issue resolution skills when dealing with contractors are just two key areas that have helped pave the way to his success. His responsibility has included managing roadway and transportation projects, utility and infrastructure projects, sanitary sewer rehabilitation studies, pump station evaluation studies, downtown redevelopment studies, and stormwater management studies.

We have included ACAI Associates Inc., as our subconsultant. Founded in 1985, offering a wide range of services including Planning, Architecture, Engineering, Landscape Architecture, Roof Consulting, and Construction Management. ACAI has provided services on virtually all types of projects. Their design work runs the gamut from Master Planning through Construction Administration (CA) services for municipalities, medical, educational, residential, industrial and commercial facilities. ACAI believes that good architecture is the physical manifestation of good ideas. We strive to create facilities that reflect a unique synthesis of their mission, functional purpose and, appropriately, express the spirit and personality of their ownership. Our design work is delivered through Building Information Modeling (BIM) and we're quite knowledgeable in BIM. Our commitment as skilled advisors to our client remains as it has been in the past -- answering needs with creative ideas, innovative solutions and well-executed, professional services. ACAI understands that all good Design-Build projects should have a Design Criteria. They are highly experienced in both areas. ACAI is also the Broward County BIM/VDC Laser Scanning Architect.

CPC and ACAI believe in the incorporation of traditional design and drafting techniques with the latest advances in 3D modeling and CAD drawings, BIM and document management impart a greater level of accuracy into each project. Our cutting-edge technology is utilized for scanning and modeling throughout the pre-design, design and post-design phases to provide each project with greater efficiency, imagination, and success; whether acting as third-party consultants or design professionals.

The changing needs of communities and the economic base needed to maintain infrastructure continues to be an ongoing challenge for governmental agencies today. Working to understand our clients' goals, CPC has developed a division solely devoted to cities, counties and other local governments. From project commencement through completion, CPC provides innovative solutions to our municipal clients and communities at large.



SECTION 3

Corporate Qualifications, Methodology & SF330



CORPORATE QUALIFICATIONS & SF330

TECHNICAL METHODOLOGY

CONTRACT UNDERSTANDING & PROJECT APPROACH:

CPC understands the need to respond in an accelerated mode to the priorities identified by the City Capital Improvement Program (CIP). Based on this project understanding CPC evaluated the RFP requirements and determined that it is one of the most qualified firms to assist the City in accomplishing the implementation of the CIP. CPC is qualified and experienced in the required work types.

Project Approach/Management Plan

CPC is aware that these contracts are often produced as simultaneous work orders with short turnaround times. As a result of CPC's extensive experience with continuing services contracts, we have developed a strong project management/staff coordination structure designed to ensure systematic timely progress on the assigned work orders. This system is designed to ensure the immediate assignment of staff to work orders, continuous progress monitoring during the work, and immediate aggressive coordination to resolve outstanding issues without delay. This promotes timely completion of work orders regardless of the usual hurdles and common sources of delay.

We have put together a strong Team that is able to accommodate the numerous work orders the City may issue. Each work order will be led by a registered professional engineer who has extensive experience in managing similar contracts themselves. As with our previous continuing engineering contracts, schedules, communication, quality control cost considerations have been key issues in completing these projects. CPC will use the proven methods from these contracts to ensure that the work orders are completed for the City on time and under budget with an emphasis on quality.

There will be constant communication between CPC's project manager and the City's project manager. We have developed status charts that include schedule information, various project details, comments, and projected final submittal date. This chart will be used as a tool and will be updated and provided to the City's Team members. Additionally, CPC's PM will hold progress meetings with the Team members and City staff every month, or as required, to provide progress of assignments and to discuss project issues, schedules and action items. Meetings held both with the City's staff and other agencies (Utilities, FDOT, etc.) will be documented through meeting minutes and distributed accordingly.

CPC is a state of the art company with full IT and Graphics capabilities that enable the company to provide and develop sophisticated data management and graphics to be used in the management of the project including scheduling, public involvement and accounting. Our electronic system allows the PM's to track project expenses and time for an effective budget control. Several report formats are available to track the project performance to ensure on time delivery and within budget. CPC team is committed to keep the projects within the agreed budget and completion time.

The initiation of the contract will include a project kick off meeting to identify the City team that will be involved in the project/contract. From this kick off meeting several parameters will be defined including the following:



- Communication process:
 - We propose a communication process that include channelizing all contract issue through the City PM.
 - The City PM will delegate contract functions according to the contract needs.
 - All public and or media communication needs will be managed by the City PM unless otherwise delegated to the Consultant.
 - Work order approval will be in writing approved by the City PM.
 - The City PM will define the project communication hierarchy.
 - If requested by the City PM and based on the specific assignment subconsultants will communicate with the City PM or designee.
- Work order Team Members
 - CPC will identify the most experienced professionals to complete the assignment from the pool of professionals.
 - A WO lead engineer will be appointed and responsible and accountable for the completion of the WO.
- Develop a scope of services
 - The scope of services will be developed from the information obtained and presented to the City for approval
- Design Elements:
 - a. Plans to be prepared in City format and in accordance to current standards and criteria.
 - b. Phase submittals.
 - c. Cost estimates.
 - d. Respond to comments.
 - e. Provide utility coordination which will include: initial utility contacts, utility design meeting with various utilities, reviewing markups and schedules versus SUE information, follow-up with utilities to obtain schedules for utility relocations.
 - f. Provide post design services for shop drawing review, attendance to construction meetings and response to Request for Information (RFI).
- Design submittal process:
 - After initial kick off meeting and the approval of scope and fee, CPC will initiate the design process and will develop 30% plans for an initial submittal.
 - From the initial submittal and comments the CPC team will move to develop 60%, 90% and 100% plans.
 - Based on the type of assignment the City may skip any plans submittal as needed in coordination with the Consultant.
 - The City PM will identify the reviewing agencies or entities based on the type of assignment.
 - CPC Team will respond to all comments receive in writing and will share internally to avoid similar comments as part of other submittals. Comments will be maintained in a data base for future reference.
 - Detailed cost estimates will be prepared at the 60% and 100% deliverable.
 - CPC will conduct an office review using current video technology and aerial photography. The office field review will identify the most significant issues that will require to be verified by conducting a field review. Items that can be evaluated from the office review include:



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- Approximate R/W by searching into the City property appraiser site for parcel information and property lines
 - Exiting above ground utilities and approximate location of drainage inlets and potential outfall
 - Current land use
 - Existing access control
 - Major traffic generators
 - ADA level of compliance
 - Pedestrian features
 - Potential conflict with existing utilities (aerial or underground)
 - Identify maintaining agency for permitting and or maintenance issues
 - A field review then will be conducted with a list of findings from the office field review to verify and obtain details that will allow the CPC Team to up-date the scope of services.
 - CPC will bring to the field a field review check list to ensure that most items will be identified. Of course, we know that no human being is perfect, so there could be the need for a second fields review to rectify any information not properly obtained the first time.
 - A list of finding will be completed for future reference.
- Survey:
 - a. The City or other entity may provide full topographic survey of the project area including right-of-way. In some cases, our team will be able to complete the plans without survey information and using scaled aerial photography and field information.
 - b. The City or other entity may provide baseline information and Project Network Control Sheets.
 - ✓ CPC internal Survey crews will be used to obtain survey data as needed.
 - ✓ Geotechnical information, report and boring sheets may be required based on assignments.
- Develop a completion schedule
 - The scheduled will be prepared using City approved schedule software or using Microsoft Projects schedule system.
 - The schedule will consider project management time, City reviewing time and any anticipated public involvement that may arrive.
 - Identify the need for surveying and or additional data based on the particulars of the project and develop a fee proposal.
 - Develop a fee proposal
 - A fee schedule will be prepared following the scope of services and the task identified on it.
 - The fee proposal will include the staff level and rates planned to be used in the proposal
 - The staff level rates will be previously agreed during the contract negotiation process
 - The fee schedule will be submitted together with the scope of services and completion schedule for approval by the City PM.
 - The scope and fee proposal will also include the sub consultant that fit the project. CPC PM will identify and coordinate with subconsultants to identify the most experienced team to complete the assignment.



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- Quality Control will be implemented through the whole design process. Our construction engineering inspection (CEI) team will perform a constructability review at the 30% plans completion to identify major construction issues and will provide recommendations to the design team.
- Invoicing
 - Frequency and invoice details will be provided by the City PM.
 - Progress reports will be include for all invoices.
 - CPC will develop a tracking chart for each work order to identify contract funding balances, delivery time, on time performance and other accounting information beneficial to the City PM in keeping the contract funds and payments flowing expeditiously. This tracking chart will be updated monthly and submitted to the City PM.

Sub-consultant Team Utilization

CPC is proposing ACAI & Associates to provide Architecture and Landscape Architecture services for this contract.

UNDERSTANDING OF CONTRACT SCOPE

The City of Margate has a series of capital improvements projects that will require developments of constructions drawings and documents. CPC will coordinate with the City PM to identify the project's details and goals. Our implementation approach was previously described and CPC will conform to the Contract requirements.

CPC is fully aware about the Work Order (WO) type contract. Our Team is equipped to conduct multiple assignment concurrently and the importance to produce results on time and on budget. We have developed a WO tracking chart to assist our Team and the City in keeping track about the progress of each assignment.

The City is planning to implement Park & Recreation projects such as A Dog Park, Firefighters Park Improvements and other renovation and park enhancement. The Public Works Department also have identified several projects including neighborhood signing program, New Fire Station, and refurbishing of the Veterans Park Marina parking. Our CPC Team has previously completed similar tasks as described in our SF 330 form included in this proposal.

TEAM CAPABILITIES

CPC Team members are experienced in the following areas:

- Civil Engineering
- Transportation and Traffic Engineering
- Land development
- Surveying
- Construction Management and Inspection
- Drainage
- Architectural Services
- Landscaping

The SF330 and organizational chart included in this proposal depicts the company key staff members for each discipline.



ARCHITECT-ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

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

City of Margate, 5790 Margate Blvd., Margate, FL 33069

2. PUBLIC NOTICE DATE

September 14, 2018

3. SOLICITATION OR PROJECT NUMBER

RFQ No. 2018-012 Civil Engineering Services

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Dan Tintner, P.E.

5. NAME OF FIRM

Carnahan, Proctor and Cross, Inc.

6. TELEPHONE NUMBER

954-593-8774

7. FAX NUMBER

954-972-4178

8. E-MAIL ADDRESS

dtintner@cpc-eng.com

C. PROPOSED TEAM

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

<i>(Check)</i>				9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J-V PARTNER	SUBCON- TRACTOR			
a	X			Carnahan, Proctor and Cross, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	814 S. Military Trail Deerfield Beach, FL 33442	Prime Consultant
b				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
c				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
d				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
e				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
f				<input type="checkbox"/> CHECK IF BRANCH OFFICE		

D. ORGANIZATIONAL CHART OF PROPOSED TEAM

☒ *(Attached)*



Project Manager

Quality Assurance/ Quality Control

John Hart, P.E.

Program Manager/ Senior Project Engineer

Dan Tintner, P.E.

Principal-in-Charge

Gregory Proctor, P.E.

Construction Engineering & Inspection (CEI)

Dan Tintner, P.E. (Lead)

Civil Engineering

Dan Tintner, P.E. (Lead)

Geomatics/BIM Surveying and Mapping

Judd French, PSM (Lead)

Senior Project Engineer

John Hart, P.E.

Senior Project Manager

Bill Barbaro, P.E.

Senior Project Surveyor

Landon "Alfie" Cross, PSM

Senior Project Engineer

Harold Dubon, P.E.

Transportation/ Traffic Engineer

Freddie Vargas, P.E.

3D Laser Scanning / BIM Specialist

Jeremy Jones

ACAI - Architects

Adolfo J. Cotilla, Jr. AIA

Galen Vongleich, RA, LEED AP

Donald M. Wilkin, RA, CPTED

Senior Project Engineer

Regina Bobo-Jackson, P.E.

Project Engineer

Lakshmi Kuttiparambil, P.E.

Project Engineer

Terence Castillo, E.I.

ACAI - Landscape

Thomas Vageline, RLA



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	
Dan Tintner, P.E.	Program Manager / Senior Project Engineer	a. TOTAL 38 years	b. WITH CURRENT FIRM 5 years
15. FIRM NAME AND LOCATION (City and State) Carnahan, Proctor and Cross, Inc. Deerfield Beach, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) MBA, University of Houston		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Professional Engineer - Florida 39656	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) MOT-Advance Work Zone Traffic Control - CTQP-QC Manager - CTQP-Final Estimates Level 1 and Level 2 - CTQP-Asphalt Paving Inspector Level 1 and 2 - FDEP Stormwater Inspector			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
a City of Delray Beach, Florida, Police Headquarters Evaluation for Renovation or Replacement	PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
	2018-Ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE CPC is providing professional services under a continuing services contract for the evaluation of the police headquarters. Services include boundary and topographic survey, existing structural assessment elements, material review and needs assessment, preparing a building program, conceptual building plans, conceptual site plans, conceptual draft and final elevations and a budget estimated for the cost of construction.	
b City of Dania Beach, Florida. LAP Multimodal Enhancements, Transportation Alternative Project (TAP)	PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
	2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project proposes multimodal enhancements in the South-East, North-West and North-East areas located within the City of Dania Beach. CPC will perform Engineering & Design, Surveying, and Mapping Services. CPC has been contracted by the City to engineer the design of the improvements, which include enhanced crosswalks, curbing, concrete sidewalks, raised intersections, and flashing solar-powered LED traffic signs at the project locations.	
c City of Oakland Park, Florida, Andrews Avenue Roadway Improvements from Oakland Park to Prospect Road	PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
	2018-Ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE CPC is providing Construction Engineering and Inspection (CEI) services for the Andrews Avenue from Oakland Park to Prospect Road Local Agency Participation (LAP) project. Planned improvements include: landscape and irrigate medians, installation of new bike lanes, mid-block crossings for pedestrians, upgrading existing lighting to LED, new sidewalks in coordination with the County.	
d City of Coconut Creek, Florida, Education Corridor, Coconut Creek Parkway, East of Banks Rd to West of Turnpike Overpass	PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE CPC is providing Construction Management services for this LAP project. The main purpose of this project is for drainage improvements, swale, and lighting improvements landscape beautification as well as ADA, of the Coconut Creek Parkway corridor from East of Banks to West side of Florida's Turnpike overpass. Additional work includes sidewalk construction along both sides of the roadway, installation of bus shelters and bus benches, guardrail installation, underground signal interconnect installation, lighting improvements as well as landscape installation (small and large plants), hardscape features (paver installation), irrigation and performance turf (sod).	
e Town of Lauderdale by the Sea, Florida, Commercial Boulevard Drainage Improvements	PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
	2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided CEI Construction Management services for this Town/FDOT JPA project. The main purpose is for drainage and landscaping improvements, swale and lighting improvements of Commercial Boulevard from West Tradewinds Avenue on the East side of the Causeway Bridge to East of El Mar Dr. The improvements for the project consist of milling and resurfacing, sidewalk construction, drainage and swale improvements for stormwater collection, lighting improvements as well as landscape installation (small and large plants), hardscape features (paver installation), irrigation and performance turf (sod).	

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	
Gregory Proctor, P.E.	Principal in Charge	a. TOTAL 38 years	b. WITH CURRENT FIRM 38 years
15. FIRM NAME AND LOCATION (City and State) Carnahan, Proctor and Cross, Inc. Deerfield Beach, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) B.S. Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Professional Engineer - Florida 36866	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Affiliations: National Society of Professional Engineers - Florida Engineering Society - Florida Institute of Consulting Engineers (FICE) - American Society of Highway Engineers (ASHE) - Greater Orlando Builders Association (GOBA) - Florida Home Builders Association (FHBA) - National Association of Home Builders (NAHB) - Florida Chamber of Commerce - Professional Services Management Association (PSMA) - Broward County Parks Advisory Board (Past Member)			

19. RELEVANT PROJECTS

a	(1) TITLE AND LOCATION (City and State) City of Delray Beach, Florida, Police Headquarters Evaluation for Renovation or Replacement	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2018-Ongoing	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm CPC is providing professional services under a continuing services contract for the evaluation of the police headquarters. Services include boundary and topographic survey, existing structural assessment elements, material review and needs assessment, preparing a building program, conceptual building plans, conceptual site plans, conceptual draft and final elevations and a budget estimated for the cost of construction.			
b	(1) TITLE AND LOCATION (City and State) City of Dania Beach, Florida. LAP Multimodal Enhancements, Transportation Alternative Project (TAP)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2018	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm The project proposes multimodal enhancements in the South-East, North-West and North-East areas located within the City of Dania Beach. CPC will perform Engineering & Design, Surveying, and Mapping Services. CPC has been contracted by the City to engineer the design of the improvements, which include enhanced crosswalks, curbing, concrete sidewalks, raised intersections, and flashing solar-powered LED traffic signs at the project locations.			
c	(1) TITLE AND LOCATION (City and State) City of Oakland Park, Florida, Andrews Avenue Roadway Improvements from Oakland Park to Prospect Road	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2018-Ongoing	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm CPC is providing Construction Engineering and Inspection (CEI) services for the Andrews Avenue from Oakland Park to Prospect Road Local Agency Participation (LAP) project. Planned improvements include: landscape and irrigate medians, installation o new bike lanes, mid-block crossings for pedestrians, upgrading existing lighting to LED, new sidewalks in coordination with the County.			
d	(1) TITLE AND LOCATION (City and State) City of Coconut Creek, Florida, Education Corridor, Coconut Creek Parkway, East of Banks Rd to West of Turnpike Overpass	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2014	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm CPC is providing Construction Management services for this LAP project. The main purpose of this project is for drainage improvements, swale, and lighting improvements landscape beautification as well as ADA, of the Coconut Creek Parkway corridor from East of Banks to West side of Florida's Turnpike overpass. Additional work includes sidewalk construction along both sides of the roadway, installation of bus shelters and bus benches, guardrail installation, underground signal interconnect installation, lighting improvements as well as landscape installation (small and large plants), hardscape features (paver installation), irrigation and performance turf (sod).			
e	(1) TITLE AND LOCATION (City and State) Town of Lauderdale by the Sea, Florida, Commercial Boulevard Drainage Improvements	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2014	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm Provided CEI Construction Management services for this Town/FDOT JPA project. The main purpose is for drainage and landscaping improvements, swale and lighting improvements of Commercial Boulevard from West Tradewinds Avenue on the East side of the Causeway Bridge to East of El Mar Dr. The improvements for the project consist of milling and resurfacing, sidewalk construction, drainage and swale improvements for stormwater collection, lighting improvements as well as landscape installation (small and large plants), hardscape features (paver installation), irrigation and performance turf (sod).			

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	
Bill Barbaro, P.E.	Senior Project Manager	a. TOTAL 15 years	b. WITH CURRENT FIRM 3 years
15. FIRM NAME AND LOCATION (City and State) Carnahan, Proctor and Cross, Inc. Deerfield Beach, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) B.S., Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Professional Engineer Florida 64761	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Certifications: FDEP Stormwater Inspector. Organizations: American Society of Civil Engineers (ASCE) - Broward County League of Cities			

19. RELEVANT PROJECTS

a	(1) TITLE AND LOCATION <i>(City and State)</i> Senior Project Engineer, City of Dania Beach, Engineering Review Services for the Rezoning, Plat, and DRC Site Plan Review for Dania Pointe Development, Dania Beach Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>
		2017	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE X Check if project performed with current firm As Project Manager and Lead Engineering Reviewer Mr. Barbaro lead CPC Survey, Traffic Engineering, and Civil Engineering staff to serve as an extension of the City's Engineering Department to conduct multiple reviews of Rezoning Design Development Guidelines (DDG), Survey, Plat, and DRC Site Plan Submittals for the Dania Pointe Project. Reviews were conducted through concurrent multiple cycles of phased submittals by the developer under an accelerated submittal and review schedule.			
b	(1) TITLE AND LOCATION <i>(City and State)</i> Senior Civil Engineer, Sullivan Park Redevelopment City of Deerfield Beach CRA Deerfield Beach, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>
		2015	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm As Engineer of Record - part of a multi-disciplined design team hired by the City of Deerfield Beach Community Redevelopment Agency, Mr. Barbaro, P.E. provided professional services as the Engineer of Record for the design, and permitting of the redevelopment of Sullivan Park located on the Intracoastal Waterway in Deerfield Beach, Florida. The redevelopment of this 3-acre underutilized waterfront park included new landscaping and parking, two playgrounds, restrooms, a picnic pavilion, an interactive water feature, marina, a waterfront promenade and a new stair tower to connect the site to the bridge leading over to the City's beachfront area.			
c	(1) TITLE AND LOCATION <i>(City and State)</i> City of Lake Worth Utility Engineer, Lake Worth, Palm Beach County, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>
		2014	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Under a continuing services contract Bill assumed role as fulltime City of Lake Worth utility Engineer for management of capital improvement project as well as: Perform Building Department Review – As the sole Civil Engineering reviewer for the City of Lake Worth (COLW) Building Department on behalf of the COLW Utilities Department and Public Works Department performed review of commercial, and residential site development projects for water, sewer, paving, and stormwater management, in compliance with City, County, and State permitting and land development regulations. Perform Site Plan Reviews - Also provided engineering review services for the City of Lake Worth Department for Community Sustainability Planning, Zoning, and Historic Preservation (PZHP) Department. Provide engineering services on behalf of the City for the review of Minor, and Major Site Plan applications, and Zoning Modifications.			
d	(1) TITLE AND LOCATION <i>(City and State)</i> Site Development Permit Review Engineer - North Springs Improvement District (NSID), Parkland, Broward County, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>
		2014	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm As NSID's consulting engineer, review other engineering consultants civil water, wastewater, paving, and drainage plans, applications, stormwater management calculations submitted to NSID for site development permit approval. Evaluate design for conformance with NSID minimum standards by authority delegated from SFWMD and FDEP. Successful performance of this role required a firm understanding of stormwater management practices, state and local regulatory requirement, allowable drainage calculation and parameters, drainage design, and constructability.			
e	(1) TITLE AND LOCATION <i>(City and State)</i> Site Development Permit Review Engineer Coral Springs Improvement District (CSID), Coral Springs, Broward County, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>
		2015	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm As CSID's consulting engineer, review other engineering consultants civil water, wastewater, paving, and drainage plans, applications, stormwater management calculations submitted to CSID for site development permit approval. Evaluate design for conformance with CSID minimum standards by authority delegated from SFWMD and FDEP. Successful performance of this role required a firm understanding of stormwater management practices, state and local regulatory requirement, allowable drainage calculation and parameters, drainage design, and constructability.			

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	
Freddie Vargas, P.E.	Transportation / Traffic Engineer	a. TOTAL 36 years	b. WITH CURRENT FIRM 1 year
15. FIRM NAME AND LOCATION (City and State) Carnahan, Proctor and Cross, Inc. Deerfield Beach, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) M.S., Civil Engineering (Transportation)		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Professional Engineer Florida 35941	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Affiliations: Institute of Transportation Engineers - member - Florida Engineering Society - Certified Public Managers Society			

19. RELEVANT PROJECTS

a	(1) TITLE AND LOCATION (City and State) Planner, Strategic Intermodal System (SIS) Connector Assessment, Florida Department of Transportation, District 4, Districtwide, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Planner responsible for performing site reviews, documentation of key issues, and developing planning concepts and solutions. A multimodal system planning study covering Palm Beach and Broward Counties, FL, to inventory the Strategic Intermodal System (SIS) connector highways between the backbone SIS facilities and the SIS hubs. The goal is to identify deficiencies and develop short-term and long-term roadway modifications to improve the economic sustainability of the region.		
b	(1) TITLE AND LOCATION (City and State) City of Dania Beach LAP Multimodal Enhancements, Transportation Alternative Project (TAP)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project proposes multimodal enhancements in the South-East, North-West and North-East areas located within the City of Dania Beach. CPC will perform Engineering & Design, Surveying, and Mapping Services. CPC has been contracted by the City to engineer the design of the improvements, which include enhanced crosswalks, curbing, concrete sidewalks, raised intersections, and flashing solar-powered LED traffic signs at the project locations.		
c	(1) TITLE AND LOCATION (City and State) Project Manager, Florida Department of Transportation, District 6, District Wide Traffic Operations Safety Studies, Miami-Dade County, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager responsible for the completion of traffic safety studies including fatal crash studies, safety reviews, representing the District Safety Engineer for the District Railroad diagnostic review for the development of the railroad crossings safety program, evaluation of safety features for railroad crossings, optimization of existing signal timing, and phasing parameters to improve safety.		
d	(1) TITLE AND LOCATION (City and State) Project Manager, Florida Department of Transportation, District 6, District Wide Corridor Planning Studies, Miami, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager responsible for the completion of corridor studies, action plans, level of service analysis, multimodal studies, and safety evaluations. Completed two corridor analyses and a district-wide level of service study, action plan Level V for SR 25 (Okeechobee Road), and a corridor study for US 1 in Marathon. Completed innovative operations approach for the traffic congestion problem at the intersection of NW 122nd Avenue and southbound off-ramp from the Palmetto Expressway.		
e	(1) TITLE AND LOCATION (City and State) Project Manager, Florida Department of Transportation, District 4, District Wide Safety Contract, Broward County, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager responsible for conducting intersection safety reviews, corridor safety analysis, benefit-cost analysis, fatal crashes reviews, and collision diagram analysis.		

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	
Regina Bobo-Jackson, P.E.	Senior Project Engineer	a. TOTAL 33 years	b. WITH CURRENT FIRM 4 years
15. FIRM NAME AND LOCATION (City and State) Camahan, Proctor and Cross, Inc. Deerfield Beach, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) B.S. Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Professional Engineer - Florida 38550	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Organizations: American Society of Civil Engineers (ASCE) - Florida Engineering Society. Certifications: Advanced MOT Designer - Stormwater, Erosion and Sedimentation Control Inspector and Trainer			

19. RELEVANT PROJECTS

a	(1) TITLE AND LOCATION (City and State) A1A Transportation Site	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2016	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm The project elements included environmental permits for filling the lake, paving, drainage and utilities. Other key services were site development plans, traffic modeling, engineering data collection, surveying, roadway design, utility design, drainage and stormwater modeling, permitting, and coordination of site retaining walls.			
b	(1) TITLE AND LOCATION (City and State) STOF Headquarters Building and 64 th Avenue Drainage Study, Hollywood Reservation	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2017	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm Performed a drainage and stormwater study that models the drainage basins surrounding and including the STOF Headquarters Building and the adjacent roadway. The study recommends a cost-effective solution for lowering the peak stages for the stormwater elevations and relieving the standing water in the adjacent 64 th avenue swales.			
c	(1) TITLE AND LOCATION (City and State) City of Miramar Wastewater Flow Diversion Project	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2012	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm From west of Flamingo Road to west of University Drive for the installation of 29,000 linear feet of 30 and 24-inch DIP pipe. With Gator Engineering as a sub-consultant to Malcolm Pirnie, Inc. was responsible for preparing all presentation material, i.e. mailers, brochures, and presentations. Started in October 2003 and completed in October 2004.			
d	(1) TITLE AND LOCATION (City and State) Project Engineer, Replacement Parking, and Temporary Road, Ft. Lauderdale-Hollywood Airport	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2014	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Provided MOT design and signing, lighting, and pavement marking design			
e	(1) TITLE AND LOCATION (City and State) Project Engineer, Chartwell Memory Care Site	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2015	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm Project elements included surveying, site development plans, stormwater management plans and permits, construction engineering and inspection services and project close-out documents.			

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	
Lakshmi Kuttiparambil, P.E.	Project Engineer	a. TOTAL 11 years	b. WITH CURRENT FIRM 5 years
15. FIRM NAME AND LOCATION (City and State) Carnahan, Proctor and Cross, Inc. Deerfield Beach, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) B.S., Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Professional Engineer - Florida 71628	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS

a	(1) TITLE AND LOCATION (City and State) A1A Transportation Site	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2016	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm The project elements included environmental permits for filling the lake, paving, drainage and utilities. Other key services were site development plans, traffic modeling, engineering data collection, surveying, roadway design, utility design, drainage and stormwater modeling, permitting, and coordination of site retaining walls.			
b	(1) TITLE AND LOCATION (City and State) City of Dania Beach LAP Multimodal Enhancements, Transportation Alternative Project (TAP)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2016	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm The project proposes multimodal enhancements in the South-East, North-West and North-East areas located within the City of Dania Beach. CPC will perform Engineering & Design, Surveying, and Mapping Services. CPC has been contracted by the City to engineer the design of the improvements, which include enhanced crosswalks, curbing, concrete sidewalks, raised intersections, and flashing solar-powered LED traffic signs at the project locations.			
c	(1) TITLE AND LOCATION (City and State) Bergeron Distribution Center, Pembroke Pines	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2017	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm Project consists of approximately 170,000 square feet of commercial warehouse with associated parking lots and roadway improvements. Involved in the design of water and sewer improvements. Also, involved in the stormwater management calculations and permitting phase of the project.			
d	(1) TITLE AND LOCATION (City and State) South Florida Logistics Center, City of Miami	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2012	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project consists of developing 60-acre site for proposed warehouse facility. Per the site development, project proposes to construct site perimeter road on the east, west and south side of the project site. Perimeter road is proposed to include water, sewer and drainage improvements with connection points for future development. Project proposes approximately 5000 LF of 12" DIP WM, 1500 LF of 4" FM and drainage system along the new road. Tasks included design and preparation of civil plans.			
e	(1) TITLE AND LOCATION (City and State) Fort Lauderdale-Hollywood Airport Runway Expansion – NE 10 th St & NE 7 th Ave Utility Improvements, Dania Beach	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2013	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project consists of extension of NE 10 th Street to the east to intersect with NE 7 th Avenue and reconstruction of NE 7 th Avenue from this intersection to the north to the intersection of Taylor Road. Project proposes 2925 LF of 12" PVC WM along NE 10 th street, 1300 LF of 10" PVC WM along NE 7 th Ave, 1400 L.F. of 10" Gravity Sewer along NE 10 th St, 1250 L.F. of 10" Force main along NE 7 th Ave. & 1300 LF of 10" Force main along NE 10 th St. Involved in the design of proposed Water & Sewer system for the project. Tasks included design and preparation of Civil plans, Utility coordination and worked with Broward County Environmental Regulation Division, Broward County Health Department and City of Dania Beach for Project permitting.			

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	
Terence Castillo, EI	Project Engineer	a. TOTAL 4 years	b. WITH CURRENT FIRM 3 years
15. FIRM NAME AND LOCATION (City and State) Carnahan, Proctor and Cross, Inc. Deerfield Beach, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Florida Engineering Intern #1100014652	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS

a	(1) TITLE AND LOCATION (City and State) City of Delray Beach, Police Headquarters Evaluation for Renovation or Replacement	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2018-Ongoing	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm CPC is providing professional services under a continuing services contract for the evaluation of the police headquarters. Services include boundary and topographic survey, existing structural assessment elements, material review and needs assessment, preparing a building program, conceptual building plans, conceptual site plans, conceptual draft and final elevations and a budget estimated for the cost of construction			
b	(1) TITLE AND LOCATION (City and State) Seminole Tribe of Florida Headquarters Building and 64 th Avenue Drainage Study, Hollywood Reservation	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2017	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm A drainage and stormwater study that models the drainage basins surrounding and including the STOF Headquarters Building and the adjacent roadway. The study recommends a cost-effective solution for lowering the peak stages for the stormwater elevations and relieving the standing water in the adjacent 64 th avenue swales.			
c	(1) TITLE AND LOCATION (City and State) Coral Springs Municipal Complex, Coral Springs, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2015	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Mr. Castillo assisted with the preparation of the civil engineering plans for the municipal complex located in the southwest corner of Sample Rd and NW 94 th Ave. This project required the filling of an existing canal and rerouting via box culverts. This municipal complex required an onsite lift station and force main to be designed by others. Mr. Castillo assisted in preparing civil engineering drawings which included drainage, water and sewer, fire access plan, signage and marking plan, and canal realignment plan.			
d	(1) TITLE AND LOCATION (City and State) Coral Springs Fire Station No. 95 Signalization, Coral Springs, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2017	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm Mr. Castillo assisted in preparing the emergency signal design plans and specifications for the Fire Station No. 95. He also assisted in determining mast arm tabulation and pay item quantities using FDOT design standards.			
e	(1) TITLE AND LOCATION (City and State) East Dania Beach Blvd Lane Elimination Feasibility Study, Dania Beach, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2016	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm Mr. Castillo assisted in developing a feasibility study report that involved evaluation of reducing a through lane in each direction of travel along a portion of E Dania Beach Blvd between E. 1st Ave and Gulfstream to accommodate 7 ft. buffered bike lanes and wider sidewalks to promote bikability and walkability. A field visit was essential in determining existing drive lane, bicycle lane, and sidewalk geometry. Crash data was also researched along this corridor to determine if eliminating a lane would be prone to accidents. A capacity analysis was also developed using Synchro traffic analysis software. The project also involved providing a detailed feasibility study report along with conceptual plans. Furthermore, the process also included submitting a formal application to FDOT District 4 lane elimination.			

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	
Harold Dubón, P.E.	CEI Senior Project Engineer	a. TOTAL 26 years	b. WITH CURRENT FIRM 2 years
15. FIRM NAME AND LOCATION (City and State) Carnahan, Proctor and Cross, Inc. Deerfield Beach, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) B.S. Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: State of Florida # 48114	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Quality Control Manager - Asphalt Paving Level 1 - Asphalt Paving Level 2 - Pile Driving Inspection - FDOT Construction Academy - Nuclear Gauge Safety Training - Radiation Safety Officer - Stormwater, Erosion & Sediment Control - Signalization Level I, IMSA - Advanced MOT - Trainer Course Standards for the Construction Industry, OSHA 500 - Standards for the Construction Industry, OSHA 510 - FDOT Leadership Academy - FDOT Project Engineers School			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a	Senior Project Engineer, Florida Turnpike Enterprise, Resurface and Roadside Improvements MP 178 to 190.5, Okeechobee and Indian River Counties	2018-Ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This \$ 26,000,000.00 million project consists of milling and resurfacing, cross slope corrections, super-elevation corrections, base construction, bridge deck joint replacements and box culvert gunite spill repairs. This project also featured safety and design improvement which included drainage, shoulder gutter, guardrail, signage for the Turnpike Mainline (SR 91) from Mile Post 178 – 190 in Indian River and Okeechobee Counties.		
b	Senior Project Engineer, FDOT District 4: Andrews Avenue Extension, Broward County	2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This 0.70-mile reconstruction project, was centrally located within a commercial area of the City of Pompano Beach. It included widening from the existing two undivided lanes to four brand new divided lanes, as well as bike lanes and sidewalk. These new lanes will have a much smoother alignment than the existing one, eliminating the current 90-degree bends. This project entailed extensive R/W acquisition, utility relocation and construction of retention ponds with outfalls into the Pompano Canal.		
c	I-75 Reconstruction Project, Florida Department of Transportation (FDOT) District 1, Port Charlotte, Florida	2016	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Project Engineer for this 24 million-dollar re-construction of approximately nine miles of I-75 from four to six lanes in Charlotte County. The work includes bridge widening, roadway reconstruction, milling and resurfacing, storm drainage pipe, pond construction, and signing and pavement markings. On this assignment, Mr. Dubon is in responsible charge of the construction engineering and inspection (CEI) services. He is responsible for reviewing the contractor's CPM schedule, claims review and analysis, Supplemental Agreements and work order processing, project and inspection staff management.		
d	Group 123 CEI Contract, Florida Department of Transportation (FDOT) District 5, Sanford, Florida	2016	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Project Engineer for this 33 million-dollar re-construction of approximately three miles of SR 415 from two to four lanes in Seminole and Volusia County. The construction work includes a new southbound two-lane bridge, retrofitting the existing two-lane bridge (northbound), roadway reconstruction from two to four lanes, milling and resurfacing, extensive storm drainage pipe, box culvert extensions, pond construction, surcharge construction, pedestrian trail, reinforced soil slopes, navigation lighting, signalization, and signing and pavement markings. Mr. Dubon is in responsible charge of the construction engineering and inspection (CEI) services. He is responsible for reviewing the contractor's CPM schedule, claims review and analysis.		
e	SR 559 Extension CEI Contract, Florida Department of Transportation (FDOT) District 1, Auburndale, Florida	2012	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Project Engineer for this 5 million-dollar project which included a CSX railroad bridge overpass and connected to SR 655 (Recker Highway). This project includes construction of a new bridge over the CSX RR tracks, MSE Walls, roadway widening, milling and resurfacing, storm drainage pipe, pond construction, and utility relocations. On this assignment, Mr. Dubon is in responsible charge of the construction engineering and inspection (CEI) services. He is responsible for reviewing the contractor's CPM schedule, claims review and analysis, Supplemental Agreements and work order processing, project and inspection staff management.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME John Hart, P.E.	13. ROLE IN THIS CONTRACT CEI Senior Project Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 27 years	b. WITH CURRENT FIRM 20 years
15. FIRM NAME AND LOCATION (City and State) Carnahan, Proctor and Cross, Inc. Deerfield Beach, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) B.S. Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: State of Florida # 49476	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) QC Manager - Asphalt Paving Level 1 & 2 - Final Estimates Level 1 & 2 - Final Estimates Preparation (FDOT) - MOT Advance Work Zone Traffic Control - WZTC Level 2 Traffic Safety Certification #ZZ23920 - Nuclear Surface Moisture Density #903 - Traffic Control Plan Design - Long Range Estimates - Project Engineers School - DCE Critical Structures Course			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State) Senior Project Engineer, District 4 Lighting Project: S.R. 9/I-95 from North of CR-708 to South of High Meadow Road, Martin County	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2017	
a	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm This \$10 million project installs new highway lighting along both sides of the I-95 corridor, including the bridge over the St. Lucie Canal. Bridge work will require minor demolition (deck and railing) to support eight new, bridge-mounted, lighting pedestal foundations. The proposed lighting system will consist of 201 new aluminum poles (standard 50') with 400-watt, high pressure, sodium luminaires. The lighting system will be fed through a series of four service points with 16 separate circuits		
	(1) TITLE AND LOCATION (City and State) Senior Project Engineer, District 4: Dania Beach Blvd. from U.S. 1 to Cambridge. Ocean Drive (SRA1A) from Cambridge to Sheridan St.	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2008	
b	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm This project involved widening, reconstruction, milling & resurfacing, drainage, lighting, signalization, and landscaping. John's project administration in this densely populated residential / business corridor involved aggressive public involvement and exhaustive municipal coordination. This project was awarded an FTBA Best in Construction Award.		
	(1) TITLE AND LOCATION (City and State) Resident Engineer, District 6 CEI Residency	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2006	
c	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm This project involved the oversight and management of a 5-yr Consultant CEI Super Residency contract consisting of multiple simultaneous FDOT construction projects in Miami-Dade County. During this contract over 100 projects were completed. As Resident Engineer, John reported directly to the DCE and manage D-6 work program through the CEI organization consisting of 2 Senior Project Engineers, 3 Project Administrators, 2 Contract Support Specialist, 4 Senior Inspectors, and 6 Inspectors. John oversaw and certified all projects while running several high-profile projects directly.		
	(1) TITLE AND LOCATION (City and State) Senior Project Engineer, FDOT District 4, CEI Services for SR-710/SW Warfield Blvd from East of SR-76 to the Palm Beach/Martin County Line.	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2018	
d	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm This \$28M project involves the 5-mile reconstruction of a principal rural arterial from Palm Beach county line to SR76, from a 2-lane undivided roadway to a 4-lane divided roadway. SR710's design will utilize a Plain Cement Pavement (PCP) design: 10" PCP over a 4" asphalt base with adjoining edge-drains and paved asphalt shoulders. Additional improvements for this project will include extensive drainage upgrades, subsoil excavation, construction of a new box culvert with 1000' of MSE walls. The project is located within a highly sensitive environmental area with numerous wetlands and wildlife.		
	(1) TITLE AND LOCATION (City and State) Senior Project Engineer, FDOT District 4: SR-70 from 900' West of Jenkins Rd. to 2000' East of Jenkins Rd.	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2015	
e	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm This rural project, centrally located within a highly congested section of SR-70, features improvements intended to increase the capacity of the SR-70 corridor in Fort Pierce at a critical juncture to both I-95 and the Florida Turnpike. The scope of work includes the widening of SR-70 to provide four through-lanes, right turn lanes for both approaches of SR-70, dual left turn lanes on SR-70 eastbound and a single left turn lane on SR-70 westbound.		

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	
Jeremy Jones	3D Laser Scanning / BIM Specialist	a. TOTAL 21 years	b. WITH CURRENT FIRM 3 years
15. FIRM NAME AND LOCATION (City and State) Carnahan, Proctor and Cross, Inc. Deerfield Beach, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) Technical College of the Lowcountry Surveying, 2000-2002 University of South Carolina-Aiken Civil Engineering Tech., 1994-2000		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS

a	(1) TITLE AND LOCATION (City and State) <i>City of Delray Beach, Police Headquarters Evaluation for Renovation or Replacement</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2018	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE CPC is providing professional services under a continuing services contract for the evaluation of the police headquarters. Services include boundary and topographic survey, existing structural assessment elements, material review and needs assessment, preparing a building program, conceptual building plans, conceptual site plans, conceptual draft and final elevations and a budget estimated for the cost of construction.		X Check if project performed with current firm	
b	(1) TITLE AND LOCATION (City and State) <i>Miami Judicial Campus</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2012	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Delivered 3D laser scan data "as-is" elevation drawings, site maps, and 3D models of the five buildings and surrounding two city blocks in AutoCAD. The project required intense collaboration and technical writing for the NIST and Harvard team that was tasked with monitoring our process and writing the draft chapter/addendum of the guide. These building housed The US Marshall's Office, Federal Prison, and Federal Court House.		<input type="checkbox"/> Check if project performed with current firm	
c	(1) TITLE AND LOCATION (City and State) <i>City of Orlando Police Department, Orange County, Florida</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2017	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided 3D Laser Scanning in support of CSI Teams as related to officer-involved shootings with Orange County Sheriff and City of Orlando Police Department.		X Check if project performed with current firm	
d	(1) TITLE AND LOCATION (City and State) <i>City of Orlando, Campers World, Orange County, Florida</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2017	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Campers World assisted the City of Orlando with 3D Laser Scanning for breach & blast analysis scenarios.		X Check if project performed with current firm	
e	(1) TITLE AND LOCATION (City and State) <i>City of Orlando, Red Bug Lake Elementary - Active Shooter, Orange County, Florida.</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2018	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Red Bug Lake Elementary - Active Shooter Orange County and City of Orlando, assisted the City of Orlando with 3D Laser Scanning for breach & blast analysis scenarios.		X Check if project performed with current firm	

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	
Judd French, PSM	Survey Department Manager	a. TOTAL 13 years	b. WITH CURRENT FIRM 1 year
15. FIRM NAME AND LOCATION (City and State) Carnahan, Proctor and Cross, Inc. Deerfield Beach, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Marine Science/Geology		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Professional Surveyor & Mapper, FL, LS7095	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Hypack Certified Hydrographer. - Florida Surveying & Mapping Society, Central Florida Chapter Member. National Society of Professional Surveyors. Society of Military Engineers, Space Coast Chapter			

19. RELEVANT PROJECTS

a	(1) TITLE AND LOCATION (City and State) <i>Cape Canaveral Air Force Station Overall Survey</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2017	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Mr. French was the Project Manager for an overall survey of Cape Canaveral Air Force Station. He was tasked with collecting all above ground infrastructure, pavement, buildings, and utility indications covering just over 13,000 acres of the installation. On top of the vast area of polygons, polylines, and point features, this task had a performance period of 12 months. Through the use of terrestrial LiDAR, Mr. French was able to collect, register and process all of the data to complete this project. Over 5,200 scans were collected over the initial 8 months of the project and the last four months was utilized to finalize the database. The end deliverable for this project was an updated GIS database containing all features correctly located. The project was completed in just over 12 months with minor delays due to massive events (hurricanes) shutting down production throughout the state and the Air Force.			
b	(1) TITLE AND LOCATION (City and State) <i>Patrick Airforce Base Airfield Lighting</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2016	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Mr. French was the supervisor to multiple field crews who located all runway lighting, signage, and designations at Patrick Air Force Base in Brevard County, FL. Locations of runway improvements were performed on all runways, taxiways, and staging areas of the airfield. All data was compiled into a single CAD drawing for an updated design of the airfields lighting and signage.			
c	(1) TITLE AND LOCATION (City and State) <i>Patrick Air Force Base Jurisdictional Boundary Survey</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2015	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Mr. French performed a boundary and right-of-way survey of Patrick Air Force Base. Mr. French utilized extensive research on the various right-of-way maps along US-1 and Patrick Air Force base to conduct this survey. All data collected and surveyed was utilized to write a legal description for local, state, and federal jurisdictional boundaries. The findings were presented to the various departments and approved.			
d	(1) TITLE AND LOCATION (City and State) <i>Valkaria Airport Runway 14-32</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2015	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm The project is located at Valkaria Airport in Valkaria, Florida, on the east side of the airfield. The overall project primarily involves the topographical survey of asphalt pavements on Runway 14-32. In addition, several taxiways were surveyed to be modified, relocated, or removed in accordance with FAA standards. The existing 4,000-foot-long asphalt Runway 14-32 is marked at 75 feet wide. For much of the length of the runway, the total pavement width is approximately 180 feet. The Topographical Survey was to aid in design efforts to mill and overlay and updated the existing runway and drainage structures.			
e	(1) TITLE AND LOCATION (City and State) <i>Patrick Air Force Base Repair Water Distribution</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2014	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Mr. French provided construction layout and final as-builts for the repair of the water distribution system at Patrick Air Force Base. Mr. French worked with Integrated Construction Management, Inc. for the repair/replacement of the existing water main on the base.			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Landon "Alfie" Cross, P.S.M.	13. ROLE IN THIS CONTRACT Senior Project Surveyor	14. YEARS EXPERIENCE <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-bottom: 1px solid black;">a. TOTAL 45 years</td> <td style="width: 50%; border-bottom: 1px solid black;">b. WITH CURRENT FIRM 31 years</td> </tr> </table>		a. TOTAL 45 years	b. WITH CURRENT FIRM 31 years
a. TOTAL 45 years	b. WITH CURRENT FIRM 31 years				
15. FIRM NAME AND LOCATION (City and State) Carnahan, Proctor and Cross, Inc. Deerfield Beach, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION) Land Surveying, Palm Beach Junior College, 1982		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Professional Surveyor and Mapper - Florida No. 3348			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) MOT-Intermediate - CSX Roadway Worker Protective Contactor Safety. Affiliations: ASTM International E-57 Committee "3D Imaging Systems". - ASTM International E-57.04 Sub-Commit. "Data Interoperability" - ASTM International, E-57.03 Sub-Commit. "Best Practices". - FSMS-Florida Surveying and Mapping Society, Broward County Chapter, President and FSMS Chairman Education Committee, 1982-1984 - NSPS-National Society of Professional Surveyors since 1982 (formerly ACSM)					

19. RELEVANT PROJECTS

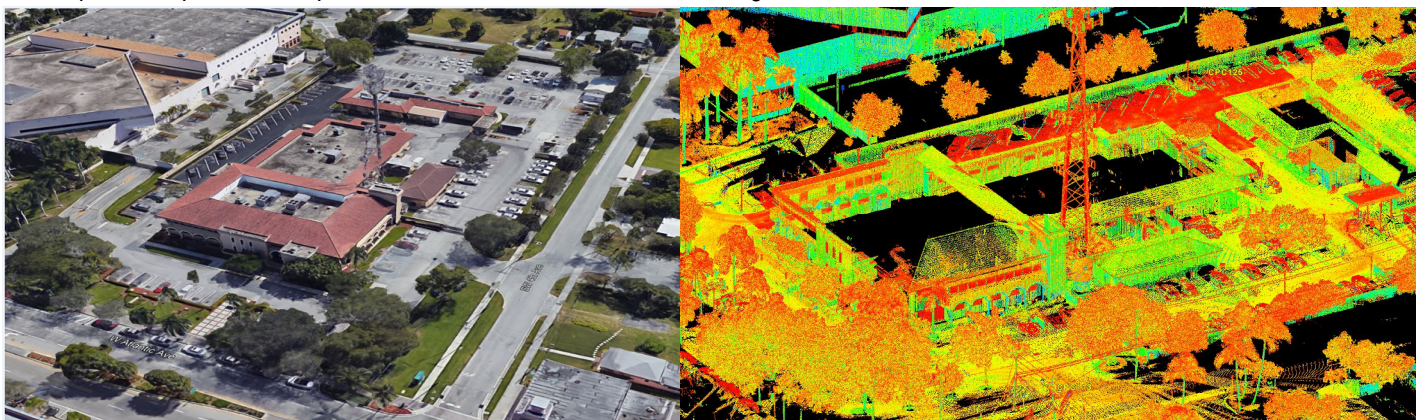
	(1) TITLE AND LOCATION (City and State) <i>Miami Airport, Five (5) Gate Station surveys: Cutler Ridge, South Miami, West Miami and Medley, Miami-Dade County (MDC)</i>	(2) YEAR COMPLETED <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-bottom: 1px solid black;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border-bottom: 1px solid black;">CONSTRUCTION (If Applicable)</td> </tr> <tr> <td style="text-align: center;">2013</td> <td></td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)	2013	
PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)						
2013							
a	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE These local sites were chosen by FCG for possible emergency power/generator setups to meet new FEMA standards. Tasks included: Special Purpose Boundary and Topo surveys covering complete sites and adjacent roadway access. Locations were made for all above ground improvements, including FCG on-site piping and other utilities on or near the projects. Property descriptions were provided or derived from county clerk's records files. Vertical control was established and monumented for FCG future generator slab construction. Elevation certificates were issued for any existing structures. <div style="text-align: right;">X Check if project performed with current firm</div>						
	(1) TITLE AND LOCATION (City and State) <i>Florida Power and Light, Continuing Surveying Services, Senior Project Surveyor</i>	(2) YEAR COMPLETED <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-bottom: 1px solid black;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border-bottom: 1px solid black;">CONSTRUCTION (If Applicable)</td> </tr> <tr> <td style="text-align: center;">2018-Ongoing</td> <td></td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)	2018-Ongoing	
PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)						
2018-Ongoing							
b	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Boundary, location topographic, hydrographic, and as-built surveys, construction staking, and occasional special projects on an as-needed basis for five of FPL's eight Florida regions, covering Florida's East Coast. <div style="text-align: right;">X Check if project performed with current firm</div>						
	(1) TITLE AND LOCATION (City and State) <i>City of Dania Beach, Elevation Certificates, Senior Project Surveyor</i>	(2) YEAR COMPLETED <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-bottom: 1px solid black;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border-bottom: 1px solid black;">CONSTRUCTION (If Applicable)</td> </tr> <tr> <td style="text-align: center;">2017</td> <td></td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)	2017	
PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)						
2017							
c	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This project involved over 75 City-owned buildings/lots that required FEMA Elevation Certificates for insurance and property coverage. This project was completed through the City's Public Services Department. <div style="text-align: right;">X Check if project performed with current firm</div>						
	(1) TITLE AND LOCATION (City and State) <i>Florida City Gas/AGL, Master Services Agreement, 3.5 miles of 8" gas main extension to serve the Miami Dade County Solid Waste Management landfill, Senior Project Surveyor</i>	(2) YEAR COMPLETED <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-bottom: 1px solid black;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border-bottom: 1px solid black;">CONSTRUCTION (If Applicable)</td> </tr> <tr> <td style="text-align: center;">2018-Ongoing</td> <td></td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)	2018-Ongoing	
PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)						
2018-Ongoing							
d	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The gas main extension includes NW 89th Ave from NW South River Drive to NW 93rd Street to NW 87th Avenue then to NW 74th Street along the north 35 feet of the 58th Street Landfill then on NW 97th Avenue. Extensive permitting and topographic survey were required along NW 89th Street to route the pipe so as to not interfere with the storm drainage improvements the City was planning in the near future, and a modification of Conditions under DEP Permit #0065435-004-SF along the property line on NW 74th Street in a dedicated easement. The Natural Gas will be used by Miami-Dade County Resource Recovery Facility (PA77-08) for start-up, shut-down and carbon monoxide control in lieu of propane. <div style="text-align: right;">X Check if project performed with current firm</div>						
	(1) TITLE AND LOCATION (City and State) <i>Bergeron Park of Commerce & Industrial Parks</i>	(2) YEAR COMPLETED <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-bottom: 1px solid black;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border-bottom: 1px solid black;">CONSTRUCTION (If Applicable)</td> </tr> <tr> <td style="text-align: center;">2017</td> <td></td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)	2017	
PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)						
2017							
e	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This commerce park consists of two major sections and includes Auto Insurance Auctions, Bergeron Distribution Center, Bergeron Office & Retail Plaza and Florida Self Storage. Park North 130-acres, which is primarily zoned for heavier industrial uses; and Park South for more general industrial or commercial uses. While Park North is ideally suited for Build-To-Suit tenants, particularly those requiring outdoor storage, the Master Plan for Park South, 170-acres with over 80 contiguous acres. The Park South plan called for the development, over a projected ten-year period, of an additional one million square feet of dock-height and grade-level industrial/office warehouse buildings. CPC is contracted to provide surveying services for this multi-use Industrial site in West Broward County. <div style="text-align: right;">X Check if project performed with current firm</div>						

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 1
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21. TITLE AND LOCATION (City and State) City of Delray Beach, Police Headquarters Needs Assessment	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES March 2018	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER City of Delray Beach	b. POINT OF CONTACT Isaac Kovner, Principal Engineer	c. POINT OF CONTACT TELEPHONE NUMBER 561.322.5052

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*
CPC provided consulting services under our Professional Services Continuing Services Contract to the City of Delray Beach for the evaluation of the police headquarters. Services included boundary and topographic survey & 3D Laser scanning, existing structural assessment elements, material review and needs assessment, preparing a building program, conceptual building plans, conceptual site plans, conceptual draft and final elevations and a budget estimated for the cost of construction.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Carnahan, Proctor and Cross, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Deerfield Beach, FL	(3) ROLE Engineer of Record
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 2
21. TITLE AND LOCATION (City and State) Seminole Tribe of Florida Headquarters-Lighting & CCTV Project	22. YEAR COMPLETED PROFESSIONAL SERVICES: 2017 CONSTRUCTION (If applicable):	

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Seminole Tribe of Florida	b. POINT OF CONTACT Brandon Vallozzi	c. POINT OF CONTACT TELEPHONE NUMBER 954.966.6300 x 13317

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

CPC developed engineering design plans & specifications for permitting for CCTV camera installation utilizing existing light poles for 23 new camera locations. Engineering Plans included CCTV conduit and cabling schematics, associated hardware, equipment and installation details (CCTV Equipment Specifications to be provided by STOF). CPC shall coordinate with CCTV vendor and provide CCTV Equipment Specifications analysis to determine optimal site Lighting conditions and requirements. CPC will develop Site Lighting Plan with Photometrics in accordance with the optimal lighting requirements to accommodate new CCTV Camera System as the basis for site lighting engineering of retro-fit lighting upgrades. CPC developed and prepared engineering design plans and specifications for site lighting upgrades suitable for permitting and competitive bidding. CPC provided project administration during the bid process and throughout construction. CPC reviewed and responded to RFIs; and provided review and approval of submittals. CPC reviewed the contractor's work and communicated to the owner for compliance with the Contract Documents. CPC prepared a punch list and provided inspection of punch list items for any required corrective actions. CPC issued a letter of substantial completion and certify final completion.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Carnahan, Proctor and Cross, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Deerfield Beach, FL	(3) ROLE Engineer of Record
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 3
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21. TITLE AND LOCATION (City and State) Florida Turnpike Enterprise Regional Traffic Management Centers	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES On-Going	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Florida Turnpike Enterprise	b. POINT OF CONTACT Michael Werner	c. POINT OF CONTACT TELEPHONE NUMBER 407.264.3998

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

CPC serves as an extension of staff for Jacob's Engineering on our Professional Services Continuing Services Contract for Florida's Turnpike Enterprise (FTE). FTE operates two Regional Traffic Management Centers (RTMC) located in Florida. Pompano Beach Turnpike Operations Center at Mile Post 65, and in Orlando at the Turkey Lake Headquarters complex at Mile Post 263. The RTMC's are the central facilities for the control, monitoring, operation, and management of Turnpike traffic and are operational 24/7. Our dedicated staff is trained to operate nearly 2,000 ITS devices to monitor and respond to the changing conditions on the 460 miles of the Turnpike system.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Carnahan, Proctor and Cross, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Deerfield Beach, FL	(3) ROLE Sub to Jacob's Engineering
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 4
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21. TITLE AND LOCATION (City and State) Corrections Corporation of America Detention Center	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Corrections Corporation of America	b. POINT OF CONTACT Timothy Aebie	c. POINT OF CONTACT TELEPHONE NUMBER 615.263.3000

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

This project consisted of a 19.38-acre detention facility and 2,300 linear feet of two-lane access road (SW 202nd Avenue) located north of Sheridan Street, west of SW 196th Avenue, south of Stirling Road and east of US Hwy 27 in the Town of Southwest Ranches in Broward County, Florida. The site is adjacent to the existing Broward Correctional Institution.

Carnahan Proctor & Cross (CPC) served as the engineer of record for the construction of the two-lane access roadway to the site. CPC had previously designed and permitted the site improvements and development plans for the Detention Facility. The regulatory agencies having jurisdiction over the project included the City of Pembroke Pines, Town of Southwest Ranches, South Broward Drainage District, Broward County Health Department and South Florida Water Management District.



The existing site is currently vacant. Based on preliminary soil boring information, within the limits of construction, there exists a layer of sandy organic silt at the surface to an average depth of 3-feet. Below the layer of organic silt exists a limestone stratum. The organic silt will need to be removed completely to the full extent of depth and disposed of in an appropriate manner. The limits of removal shall be backfilled with the clean granular material. The proposed site improvements will consist of the parking lot, fire access road, perimeter patrol road, walkways, storm drainage system, water distribution and wastewater collection, and underground utilities.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.	Carnahan, Proctor and Cross, Inc.	Deerfield Beach, FL	Engineer of Record
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 5
21. TITLE AND LOCATION (City and State)		22. YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (If applicable)
AIA Transportation Parking Project		2016
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER AIA Transportation Systems, Inc	b. POINT OF CONTACT Henry Hernandez	c. POINT OF CONTACT TELEPHONE NUMBER 954.584.5877

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>	
	<p>CPC provided the site development for this five-acre site for AIA Transportations Systems to park, operate and maintain 90 school buses, along with employee parking. The company, provides third-party transportation for private and charter school field trips and athletic trips. Improvements included design and permitting to fill an existing lake and create retention areas in order to provide the required parking facilities. The project elements included environmental permits for filling the lake, paving, drainage and utilities. Other key services were site development plans, traffic modeling, engineering data collection, surveying, roadway design, utility design, drainage and stormwater modeling, permitting, and coordination of site retaining walls.</p>

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Carnahan, Proctor and Cross, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Deerfield Beach, FL	(3) ROLE Engineer of Record
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 6
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21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED	
Dania Pointe Engineering & Surveying Review	PROFESSIONAL SERVICES On-Going	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER City of Dania Beach	b. POINT OF CONTACT Ronnie Navarro, PE	c. POINT OF CONTACT TELEPHONE NUMBER 954.924.3742

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i> CPC provided Survey, Traffic Engineering, and Civil Engineering staff to serve as an extension of the City's Engineering Department to conduct multiple reviews of Rezoning Design Development Guidelines (DDG), Survey, Plat, and DRC Site Plan Submittals for the Dania Pointe Project. Reviews were conducted through concurrent multiple cycles of phased submittals by the developer under an accelerated submittal and review schedule. Based on the size, density, and schedule of the proposed project the City has chosen to utilize the cost recovery option as stipulated in the City's code. The CPC team provided timely review comments to the City and applicant's consultants in order to meet stringent deadlines for Planning & Zoning Board and City Commission meetings and coordinated with the Applicant and Applicants consultant to expedite outstanding comments. Responsibilities also included attending DRC and City Commission meetings.	
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25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Carnahan, Proctor and Cross, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Deerfield Beach, FL	(3) ROLE Engineer of Record
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 7
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21. TITLE AND LOCATION (City and State) Fire Station Signalization & Modifications-Various Locations	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Various	b. POINT OF CONTACT Sub to Thomas A. Hall	b. POINT OF CONTACT TELEPHONE NUMBER 954.288.4447

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>
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Fire Station No. 95 / City of Coral Springs, FL
The scope of this project included a design of a new emergency vehicle signal for a new fire station located northeast of the Coral Ridge Dr and Riverside Dr. intersection in the City of Coral Springs, Florida. The design comprised of two mast arm supports with signals facing eastbound and westbound traffic on Coral Ridge Drive. Additional signals also faced the southbound traffic. This project also included pavement markings and signage.

Fire Station No. 8 / City of Ft. Lauderdale, FL
The scope of this project included a design of a new emergency vehicle signal for a new fire station located on the southwest corner of SW 1st Avenue and SW 17th Street in the City of Fort Lauderdale, Florida. The new signal included a mast arm support with signal heads facing eastbound traffic on SW 17th Street west of the FEC Railroad tracks and a hard wire connection to the existing traffic signal at the intersection of Andrews Avenue and SW 17th Street where a fire station preemption was added. This project also included pavement marking and signage relocation.


Fire Station No. 36 / City of Tamarac, FL
The scope of this project includes a traffic signal modification for the existing intersection on University Drive and NW 72nd Street in the City of Tamarac, Florida, as well as installation of a new flashing beacon assemblies on NW 72nd Street to accommodate a new fire station. A design of a new emergency vehicle signal preemption will be implemented to the existing traffic signal at this intersection. Flashing beacons will be added to warn of emergency vehicles entering and existing the new fire station.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Carnahan, Proctor and Cross, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Deerfield Beach, FL	(3) ROLE Engineer of Record
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 8
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21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED	
FDOT D4 Interstate I-95 Lighting Project	PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER FDOT District 4	b. POINT OF CONTACT Jose Kandarappallil, PE	c. POINT OF CONTACT TELEPHONE NUMBER 772.519.2348

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i> This \$10 million project installs new highway lighting along both sides of the I-95 corridor, including the bridge over the St. Lucie Canal. Bridge work required minor demolition (deck and railing) to support eight new, bridge-mounted, lighting pedestal foundations. The proposed lighting system will consist of 201 new aluminum poles (standard 50') with 400-watt, high pressure, sodium luminaires. The lighting system will be fed through a series of four service points with 16 separate circuits.	
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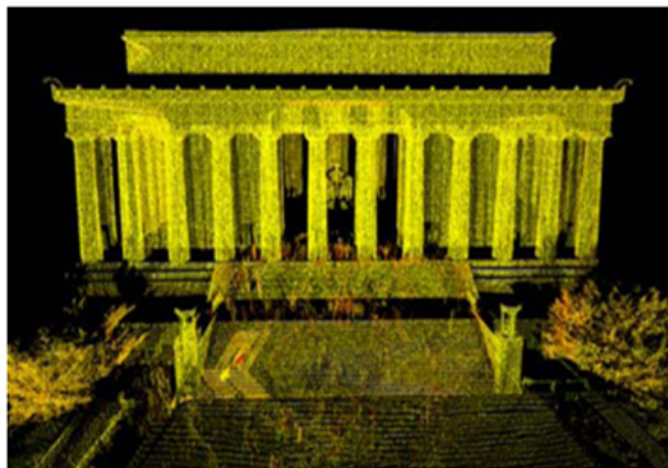
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Carnahan, Proctor and Cross, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Deerfield Beach, FL	(3) ROLE CEI Consultant
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 9
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21. TITLE AND LOCATION (City and State) Miami Judicial Campus	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2007	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER General Service Administration	b. POINT OF CONTACT Calvin Kam	c. POINT OF CONTACT TELEPHONE NUMBER 202.536.8150

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



Mr. Jeremy Jones delivered 3D laser scan data "as-is" elevation drawings, site maps, and 3D models of the five buildings and surrounding two city blocks in AutoCAD. The project required intense collaboration and technical writing for the NIST and Harvard team that was tasked with monitoring our process and writing the draft chapter/addendum of the guide. Buildings included the US Marshalls, Federal Prison and a Federal County Court.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
a.	(1) FIRM NAME Individual Experience	(2) FIRM LOCATION <i>(City and State)</i> (3) ROLE 3D Laser Scanning & BIM Specialist
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i> (3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i> (3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i> (3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i> (3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i> (3) ROLE


F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 10
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21. TITLE AND LOCATION (City and State) Cape Canaveral Air Force Station	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER US Airforce 45 th Space Wing	b. POINT OF CONTACT Sheldon Buttman	c. POINT OF CONTACT TELEPHONE NUMBER 321.494.2772

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

Mr. Judd French, PSM was the Project Manager for an overall survey of Cape Canaveral Air Force Station. He was tasked with collecting all above ground infrastructure, pavement, buildings, and utility indications covering just over 13,000 acres of the installation. On top of the vast area of polygons, polylines, and point features, this task had a performance period of 12 months. Through the use of terrestrial LiDAR, Mr. French was able to collect, register and process all of the data to complete this project. Over 5,200 scans were collected over the initial 8 months of the project and the last four months was utilized to finalize the database. The end deliverable for this project was an updated GIS database containing all features correctly located. The project was completed in just over 12 months with minor delays due to massive events (hurricanes) shutting down production throughout the state and the Air Force. The database is currently updated, QA/QC, and delivered. This project received all Very Good Ratings on the Contractor Performance Assessment Report (CPAR) through the Air Force.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Individual Experience	(2) FIRM LOCATION <i>(City and State)</i> Brevard County	(3) ROLE Surveyor of Record
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. EXAMPLE PROJECTS (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)									
		1	2	3	4	5	6	7	8	9	10
Dan Tintner, PE	Project Manager	X	X	X		X	X	X			
Gregory Proctor, PE	Principal	X	X	X	X	X	X	X			
Bill Barbaro, PE	SPM						X				
Freddie Vargas, PE	Traffic Engineer						X				
Regina Bobo-Jackson, PE	SPE					X					
Lakshmi Kuttiparambil, PE	Project Engineer	X	X			X					
Terence Castillo, PE	Project Engineer	X	X					X			
Harold Dubón, PE	CEI SPE			X							
John Hart, PE	CEI SPE								X		
Jeremy Jones	3D Laser Scanning/BMI	X								X	
Judd French, PSM	Survey Dept. Mngr.	X									X
Landon "Alfie" Cross, PSM	Sr. Project Surveyor	X			X						

29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	City of Delray Beach, Police Headquarters Needs Assessment	6	Dania Pointe Engineering & Surveying Review
2	Seminole Tribe of Florida Lighting & CCTV Project	7	Fire Station Signalization & Modifications-Various Locations
3	Florida Turnpike Enterprise Regional Traffic Management Centers	8	FDOT D4 Interstate I-95 Lighting Project
4	Corrections Corporation of America Detention Center	9	Miami Judicial Campus
5	AIA Transportation Parking Project	10	Cape Canaveral Air Force Station

H. ADDITIONAL INFORMATION

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

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE



32. DATE

10/9/2018

33. NAME AND TITLE

Dan Tintner, PE



SECTION 4

Project Team



PROJECT TEAM

DAN TINTNER, P.E., MBA, Program Manager / Senior Project Engineer

Masters in Business Administration, Bachelors of Science in Civil Engineering, Broward County League of Cities, Florida Engineering Society, Leadership Training: ACEC Senior Executive Institute, American Society of Civil Engineers, Florida Section-Past President, Broward Section Past President, CPC's Primary Contact and Project Manager is Dan Tintner, who brings over 30 years of broad experience in public sector projects with a proven track record for successfully completing projects, which are similar in scope to the City of Miramar contract. Dan has over 33 years of experience in serving municipal clients. Our Team has significant knowledge and experience working with various municipalities in providing engineering services, including City of Dania, City of Coconut Creek, City of Coral Springs, City of Delray Beach, City of Oakland Park, City of Deerfield Beach, Town of Lauderdale-By-The-Sea, Town of Hillsboro Beach and several others. Dan served as the senior project manager for the Broward County North County Neighborhood Improvement Project and the Broward County North Andrews Gardens Neighborhood Improvement Projects.

BILL BARBARO, P.E., Civil Engineering Team Leader / Senior Project Manager

Bachelors of Science in Civil Engineering, Broward County League of Cities, Florida Engineering Society, American Society of Civil Engineers, FDEP Stormwater Inspector, CPC's Team leader for this category is Bill Barbaro, PE. Bill has 16 years of experience in the Civil Engineering field. His experience includes new and redevelopment site plans and related infrastructure. He also has vast experience in Municipal services. His project experience includes large-scale residential and mixed-use land development, large-scale earthwork projects including marina and ocean inlet design, water resource, and stormwater management systems. County, city and private projects for paving, and drainage design, new and retrofit utility infrastructure improvements. He is adept at preparing project specifications packages, as well as completing construction document packages for bidding. He is located in our Deerfield Office.

FREDDIE VARGAS, P.E., Transportation/Traffic Engineer

Masters in Civil Engineering, Bachelors in Civil Engineering, Institute of Transportation Engineers

Freddie's 36 years of professional engineering experience includes project management in: NEPA (PD&E) and roadway design projects, Transportation Planning, Long Range Transportation Plans, Growth Management, Public Involvements, Traffic and Transportation Engineering, Geometric Conceptual Design for intersections and corridors, roadway Capacity Studies, Parking Studies, Traffic Safety Evaluations, Access Management, Multimodal and Transit Studies, LAP and CSLIP projects. He is located in our Deerfield Office.

LAKSHMI KUTTIPARAMBIL, P.E., Project Engineer

Bachelors of Science in Civil Engineering

Lakshmi has more than 12 years of experience in land development and municipal engineering. Her professional experience includes the design of new drainage systems or drainage improvements to the existing systems, project permitting and certification with different municipalities throughout Southeast Florida, designing pavement markings and signage and the maintenance of traffic for projects, and design of potable water and sanitary sewer systems. She is experienced in AutoCAD, Hydraflow Storm Sewer, HTML, and JavaScript. She is located in our Deerfield Beach office.



HAROLD DUBON, P.E., Senior Project Engineer / QA/QC

Bachelors of Science in Civil Engineering, Florida Engineering Society, FDOT Leadership Academy, American Society of Civil Engineers, TEAMFL, FICE Transportation Committee, CEI Liasion, OSHA 510

Harold, our Senior Vice President of Construction Services, will ensure Quality Assurance and Quality Control for this project. He has over 28 years of CEI experience on FDOT and municipal projects. He will perform reviews of our team's processes to ensure they meet the FDOT/LAP requirements. He will perform these QA/QC reviews on a quarterly basis to ensure the team is documenting the project progress as required. He has extensive experience in program and contract management for all phases of construction including Design-Build projects.

JOHN HART, P.E. Senior Project Engineer / QAQC

Bachelors of Science in Civil Engineering

John's 27 years of experience reflect a proven track record of Construction Engineering and Inspection projects. Recently, his SR 60 project was completed 200+ days ahead of schedule (returning \$750,000 of unused CEI funds), was awarded a Davis Award for a \$250,000 cost savings proposal, had an error-free FE package and achieved MC six days before FA. Prior to that project, he managed a 5-year Residency Contract in District 6 as the CEI Resident Engineer, where his team completed over 100 roadway and bridge projects. John also completed serving as SPE on the \$20 million SR 70 reconstruction project in Ft. Pierce. Four of John's recent projects earned FTBA awards.

LANDON "ALFIE" CROSS, PSM, SENIOR PROJECT SURVEYOR

Alfie has managed an extensive list of projects in his 45 years as a Professional Land Surveyor and Mapper (PSM) throughout the state of Florida for both private and governmental clients such as Florida Department of Transportation, AGL/Florida City Gas and Florida Power and Light Company. He has successfully completed survey and mapping work for AGL/Florida City Gas (FCG) projects that included: field data collection of Boundary, Topo, including aboveground and underground utilities, roadway X-Sections, cross-sections (soundings) of canals and ditches. He has also used state-of-the-art GPS systems to as-built horizontal and vertical information for post-construction.

JUDD FRENCH, PSM, SENIOR PROJECT SURVEYOR

Bachelors of Science in Marine Science/Biology

He has over 13 years of experience surveying and mapping industry and over six years utilizing Terrestrial LiDAR Systems. Mr. French has worked all over the country collecting survey data for various types of projects in both the public and private sectors. His experience includes collecting GIS database attribute field investigations, Boundary, ALTA/NSPA Land Title Surveys, Construction Layout and As-Built, Subdivision Platting, 3D Laser Scanning, Control Network establishment, Topographic and Hydrographic surveys.

JEREMY JONES, 3D LASER SCANNING/BIMM SPECIALIST

Mr. Jones' 21 years of experience includes niche expertise in the geospatial industry that includes 3D laser scanning and building information models. He was part of a Harvard/NIST team that created the chapter and addendum to the Building Information Model Guide for the GSA. In addition to being a leader in the geospatial industry, he is also well versed in all aspects of construction. Experience includes GIS, topographic surveys, boundary surveys, ALTA surveys, construction surveys, and due diligence reports. These skill sets have been tested in multiple industry sectors ranging from design survey data collection to complex construction as-built verification.



ADOLFO J. COTILLA, JR., AIA SENIOR ARCHITECT- ACAI

Adolfo Cotilla has over 39 years of diverse experience in the field of Architecture. Mr. Cotilla earned his Master of Fine Arts in Architecture from the University of Florida. He is a Florida Registered Architect (License number 8011) and a Florida Certified General Contractor (License number CGC010769). He has been consulting, designing and delivering projects since 1979. As Principal in Charge, Mr. Cotilla oversees the management of all assignments for which he is responsible and maintains direct contact with Clients throughout the project duration. His responsibilities include overseeing the project team, reviewing financial project goals, meeting with the Project Managers & project teams, reviewing the schedule and maintaining relationships with the client contacts as well as with the Developer's Project Manager and construction team. Florida Registered Architect License #8011

DONALD M. WILKIN, RA, CPTED, LANDSCAPE ARCHITECT PROJECT MANAGER- ACAI

Donald Wilkin has over 35 years of diverse experience in the field of architectural design, including educational, commercial, medical, recreational, office, industrial and transportation facilities. Mr. Wilkin has been responsible for various management and technical duties for all architectural projects, including planning, working drawing production and design. Registered Architect in Florida (AR0011619).

GALEN VONGLEICH, RA, LEED AP- ACAI

Mr. VonGleich has over 13 years of diverse experience in the field of architectural design, including governmental, educational, commercial, medical, office and residential facilities. Mr. VonGleich has been responsible for various management and technical duties for all architectural projects, including planning, working drawing production and design. He also reviews the design budget on a bi-weekly basis to verify that the progress being made is consistent with the time charges and will constantly monitor the team's production rate and determine if additional staff is needed to meet the target milestone dates. Galen earned his Master of Architecture Degree from the Montana State University and is a Florida Registered Architect (License number 97234). Additionally, Mr. VonGleich is a LEED AP.

THOMAS J. VAGELINE, ASLA Landscape Architect

Thomas J. Vageline has over 35 years of diverse experience in the field of Landscape Architecture including seven years with ACAI. Mr. Vageline has been involved in a broad range of land planning projects in South Florida. Having worked in both the public and private sectors, Mr. Vageline is familiar with a wide range of client needs, project requirements, and processes. He is responsible for preparation and processing of landscape plans; utilizing his knowledge of local, state and federal regulations. He has direct client contact to obtain project input and approvals, responsible for completion of projects on time and within budget. Registered Landscape Architect: Florida LA0000662



Project Manager

Quality Assurance/ Quality Control

John Hart, P.E.

Program Manager/ Senior Project Engineer

Dan Tintner, P.E.

Principal-in-Charge

Gregory Proctor, P.E.

Construction Engineering & Inspection (CEI)

Dan Tintner, P.E. (Lead)

Civil Engineering

Dan Tintner, P.E. (Lead)

Geomatics/BIM Surveying and Mapping

Judd French, PSM (Lead)

Senior Project Engineer

John Hart, P.E.

Senior Project Manager

Bill Barbaro, P.E.

Senior Project Surveyor

Landon "Alfie" Cross, PSM

Senior Project Engineer

Harold Dubon, P.E.

Transportation/ Traffic Engineer

Freddie Vargas, P.E.

3D Laser Scanning / BIM Specialist

Jeremy Jones

ACAI - Architects

Adolfo J. Cotilla, Jr. AIA

Galen Vongleich, RA, LEED AP

Donald M. Wilkin, RA, CPTED

Senior Project Engineer

Regina Bobo-Jackson, P.E.

Project Engineer

Lakshmi Kuttiparambil, P.E.

Project Engineer

Terence Castillo, E.I.

ACAI - Landscape

Thomas Vageline, RLA





SECTION 5

Proposed Personnel

Experience

34 Years Total

Education

B.S. Civil Engineering
University of Florida,
1980

MBA, University of
Houston, 1986

Leadership Training:
ACEC Senior Executive
Institute

Registration

Registered Professional
Engineer - Florida
39656

Organizations

American Society of Civil
Engineers (ASCE)

Florida Section ASCE
President 2003-2004

Broward Branch ASCE
President 1997-1998

Florida Engineer Society

National Society of
Professional Engineers

Broward County
League of Cities

Mr. Tintner brings over 34 years of broad experience as a Professional Engineer managing Broward County Transportation, Roadway, Site Development and Neighborhood Improvement Projects, with a proven track-record for successful public-sector client and stakeholder relations and negotiations. His responsibility has included managing roadway and transportation projects, utility and infrastructure projects, sanitary sewer rehabilitation studies, pump station evaluation studies, downtown redevelopment studies and stormwater management studies.

City of Delray Beach, Police Headquarters Evaluation for Renovation or Replacement: CPC is providing professional services under a continuing services contract for the evaluation of the police headquarters. Services include boundary and topographic survey, existing structural assessment elements, material review and needs assessment, preparing a building program, conceptual building plans, conceptual site plans, conceptual draft and final elevations and a budget estimated for the cost of construction. Reference: Isaac Kovner, Principal Engineer, 561.322.5052

City of Delray Beach, CRA Sidewalk Projects: CPC is providing CEI Construction Management services for this CRA project. The project includes construction of concrete sidewalks, clearing, grubbing, swale grading and sodding along the following streets; SW 3rd Street from I-95 to SW 3rd Avenue, NW 8th Avenue from Atlantic Avenue to NW 2nd Street, NW 6th Avenue from NW 3rd Street to NW 2nd Street, SW 6th Avenue from SW 2nd Street to SW 3rd Street, SW 5th Avenue from SW 2nd Street to SW 3rd Street. Reference: Begonia Krane, Project Manager, 561.243.7299

City of Oakland Park, Andrews Avenue Roadway Improvements from Oakland Park to Prospect Road: CPC is providing Construction Engineering and Inspection (CEI) services for the Andrews Avenue from Oakland Park to Prospect Road Local Agency Participation (LAP) project. Planned improvements include: landscape and irrigate medians, installation o new bike lanes, mid-block crossings for pedestrians, upgrading existing lighting to LED, new sidewalks in coordination with the County. Reference: Lori Dourvis, Project Manager, 954.630.4479

City of Dania Beach LAP Multimodal Enhancements, Transportation Alternative Project (TAP), The project proposes multimodal enhancements in the South-East, North-West and North-East areas located within the City of Dania Beach. CPC will perform Engineering & Design, Surveying, and Mapping Services. CPC has been contracted by the City to engineer the design of the improvements, which include enhanced crosswalks, curbing, concrete sidewalks, raised intersections, and flashing solar-powered LED traffic signs at the project locations.
Reference: Ronnie Navarro, Deputy Director/City Engineer, 954.924.6808

City of Coconut Creek, Education Corridor, Coconut Creek Parkway, East of Banks Rd to West of Turnpike Overpass: CPC is providing Construction Management services for this LAP project. The main purpose of this project is for drainage improvements, swale, and lighting improvements landscape beautification as well as ADA, of the Coconut Creek Parkway corridor from East of Banks to West side of Florida's Turnpike overpass. Additional work includes sidewalk construction along both sides of the roadway, installation of bus shelters and bus benches, guardrail installation, underground signal interconnect installation, lighting improvements as well as landscape installation (small and large plants), hardscape features (paver installation), irrigation and performance turf (sod). Reference: Osama Elshami, Director of Utilities and Engineering Department, 954.973.6786

Town of Lauderdale by the Sea, Commercial Boulevard Drainage Improvements: Provided CEI Construction Management services for this Town/FDOT JPA project. The main purpose is for drainage and landscaping improvements, swale and lighting improvements of Commercial Boulevard from West Tradewinds Avenue on the East side of the Causeway Bridge to East of El Mar Dr. The improvements for the project consists of milling and resurfacing, sidewalk construction, drainage and swale improvements for stormwater collection, lighting improvements as well as

landscape installation (small and large plants), hardscape features (paver installation), irrigation and performance turf (sod). Reference: Albert Carbon, Project Manager, 954.292.5075

Spring Valley: A 587-acre residential community in Pembroke Pines, which included the design of a 35-acre nature center and freshwater wetland mitigation park for passive public utilization. Services provided included: complete engineering design and permitting; planning assistance; plat amendment; vacations of rights-of-way and underlying easements; dredge and fill permitting, master planning and conceptual design of the park. Also included was a detailed mitigation plan for 63 acres of on-site mitigation and the transfer of 62 acres of mitigation to the Florida Wetlands Bank; negotiation of permits for Broward County Department of Planning and Environment Protection, South Florida Water Management District and U.S. Army Corps of Engineers.

North Andrews Gardens Neighborhood Improvement Project: A 730-acre community, containing approximately 30 miles of roadway, located in unincorporated Broward County. Services provided in the first phase of the project included: a Basis of Design Report (BODR) that evaluated the existing conditions and recommended engineering and landscape architecture solutions. The design and construction administration portions of the project include the design, modeling of water distribution system, sanitary sewer transmission system and stormwater system, construction/contract administration and public information, permitting of the water, sanitary sewer, drainage and roadway improvements, preparation of bidding documents, as well as the design of landscaping, irrigation and entry sign features for the neighborhood. Services provided by Miller Legg also include control surveys for aerial photography-tied United States geological survey (USGS) monumentation, right-of-way surveys, topographic surveys, South Florida Water Management District and Broward County Department of Urban Planning and Redevelopment surface water permitting, Florida Department of Transportation permitting and design of traffic calming elements. Miller Legg assisted Broward County in obtaining approval for \$4 million in grants from the Federal Emergency Management Agency (FEMA) for the drainage improvement portion of the project.

North County Neighborhood Improvement Project

A 2,900-acre project located in unincorporated Broward County that consists of water, sewer, drainage, urban and rural roadway pavement, and landscaping services. The project first included a Basis of Design Report (BODR) for the entire 2,900-acres that evaluated the existing conditions and provided recommendations for improvements and actual project design and administration of construction. This 20-year project involves stormwater, water and sewer system modeling, permitting and design of the water, sewer, drainage, and roadway improvements, public awareness, preparation of contract and bid documents, field monitoring, surveying, landscaping designs, and entrance feature designs. Surveying services for this project included: horizontal and vertical global positioning systems (GPS) control networks for aerial photography, research and field surveys to establish approximately 105 miles of existing rights-of-way, and horizontal and vertical locations of existing improvements within the rights-of-way. During the contract administration of the southeast quadrant of the project, the County has allowed Miller Legg to complete construction of this portion on a fast-track schedule.

Margate CRA Traffic Engineering Analysis/Study

Conducted a traffic engineering study to evaluate the traffic operations at the intersection of Margate Blvd. and NW 58th Avenue. The study included the analysis of crash history review for the most recent three-year period and included signalized and unsignalized intersection analysis. The study also determined what problems currently exist, and identified a proposed plan(s) that will mitigate operational issues. The analysis considered the effect that additional traffic associated with the redevelopment of the commercial center at the northwest quadrant of the intersection of Margate Boulevard and SR-7 will have on the operation of the subject intersection.

Pine Island Road from Stirling Road to Sheridan Street

Senior Project Manager for the design and CEI services of this One-mile, new Broward County roadway alignment. The project included preparation of a study, subsequent final design and construction plans. Services provided include; roadway and landscaping design and associated drainage, lighting, adjacent intersection improvements, signalization, pavement marking, utility relocation, public involvement, maintenance of traffic and cost estimates. This Broward County Highway Construction and Engineering roadway project served as a new corridor through a surrounding new 500-acre master planned community and also implemented many of the same concepts and principals as provided in Broward County Complete Streets Guidelines.

Pine Island Road Improvements (from Stirling Road to Sheridan Street)

A one-mile new roadway alignment project included preparation of BODR, a traffic engineering study, subsequent final design and construction plans. Services provided included; roadway design, associated drainage, lighting, intersection improvements, a traffic

engineering study, signalization, pavement marking, utility adjustment, public involvement, maintenance of traffic, cost estimates, wetland permitting and negotiations with U.S. Army Corps of Engineers, the South Florida Water Management District, and wetland and tree permitting with Broward County Department of Planning and Environmental Protection, Surveying services for this project included: horizontal and vertical control, right-of-way and topographic surveys, and legal descriptions for right-of-way acquisitions.

Nova Elementary Traffic Signal Improvements

Examined the ability of the intersection, under traffic signal control, to perform at a reasonable service quality during existing and future peak hour traffic demands. Performed a capacity and queuing analysis to submit to the School Board of Broward County. In addition, this project in Davie includes route and specific purpose surveys, underground utility designation, traffic signal design and layout, master arm school flasher, as well as geometric intersection improvements including additional school zone signing and pavement markings

Pioneer Middle School Turn Lane Improvements

This School Board of Broward County project was performed in response to serious operational deficiencies associated with traffic generated by the school. Field observations and traffic volume/maximum queue data identified the extent of the problem. The high volume of parents' cars and school buses on two-lane undivided SW 90th Avenue serving the school resulted in queues that extended to/through the signalized intersection at Griffin Road (SR 818) to the north. Miller Legg designed an extended left turn lane and on-site improvements which corrected the problems.

Broward County Traffic Congestion Improvements

Broward County has implemented a Congestion Management System (CMS) Plan to monitor and analyze the magnitude of congestion on the local roadway systems. As part of this plan, corridor studies were performed to identify, develop, prioritize and implement enhancement strategies for a selected corridor and the intersections with that corridor. Three of the intersections that we analyzed are located in Pembroke Pines, Davie, Southwest Ranches, Oakland Park and Margate. These three intersection improvement projects required geometric intersection improvements, roadway widening, signalization upgrades, signing, and pavement marking. Two of the three intersections are located at FDOT State-maintained highways. Services provided include traffic engineering and operations analysis, crash analysis, the design of new lane configuration, signal timing modifications, signal design and layout, intersection geometric improvements, lighting, pavement marking, utility adjustment, landscape architecture, irrigation, cost estimating, and maintenance of traffic plans. The firm also implemented a public awareness program for each of the three intersection projects.

Pines Boulevard/Flamingo Road Analysis

Managed intersection analysis for the City of Pembroke Pines. Analyzed existing and future travel demand at the intersection and the ability of various at-grade and grade-separated interchange options to accommodate projected 2025 traffic volumes. A single point urban interchange was recommended. The analysis was presented to the City Commission, the Broward County TCC, and the MPO, resulting in the programming of a PD&E study.

St. Andrews @ Winston Park Traffic Study

Evaluated traffic impacts of a major planned townhouse development located at the northwest corner of Lyons Boulevard and Winston Park Boulevard in the City of Coconut Creek. Obtained daily Automatic Traffic Recorder (ATER) and peak-hour Turning Movement Counts at key road segments and intersections in the area and analyzed existing operation. Utilized HCS to evaluate alternative improvements that would mitigate the impacts of the proposed project. ML designed left and right turn lanes to serve the project's two driveways and the modification (lengthening) of turn lanes at the intersection of Lyons Road and Winston Park Boulevard.

Sheridan Street Widening Project

As a result of the development of the Waldrep Parcel, Sheridan Street (from Pine Island Road to University Drive) is to be widened from a four-lane to six-lane sections. This project includes geometric improvements and drainage design. Analyzed and coordinated with Broward County Engineering and Traffic Engineering Divisions regarding specific corridor and intersection design requirements.

Sheridan Street Improvements

An urban roadway improvement project in Pembroke Pines. Services provided included: turn lane and sidewalk improvements to proposed Sheridan Street from Dykes Road to 172nd Ave.



Qualifications Search

Qualifications			
TRAINEE	MATERIAL GROUP	QUALIFICATION	EXPIRATION DATE
T53516156	Asphalt	Asphalt Paving Technician - Level 1	2/1/2021
T53516156	Asphalt	Asphalt Paving Technician - Level 2	4/14/2021
T53516156	Management	Final Estimates - Level 1	4/7/2021
T53516156	Management	Final Estimates - Level 2	6/2/2021
T53516156	Management	QC Manager	Does Not Expire

[Back](#)

134215

Experience

15 Years

Education

B.S., Civil Engineering,
Florida State University,
2001

Registration

Registered Professional
Engineer
Florida 64761

Certifications

FDEP Stormwater
Inspector

Organizations

American Society of Civil
Engineers (ASCE)

Broward County League of
Cities

Mr. Barbaro has more than 15 years of experience in land development, master planning, roadway design, the design of infrastructure utilities, computer modeling, permitting, project management and construction services focused in projects for both private and municipal sector clients. His responsibilities have included dual roles as both Project Manager, and Senior Civil Engineer, for projects including large-scale residential and mixed-use land development, large-scale earthwork projects including marina and ocean inlet design, water resource, and stormwater management systems. County, city and private projects for paving, and drainage design, new and retrofit utility infrastructure improvements. He is adept at preparing project specifications packages, as well as completing construction document packages for bidding.

Senior Project Engineer, City of Dania Beach, Engineering Review Services for the Rezoning, Plat, and DRC Site Plan Review for: Dania Pointe Development, Dania Beach Florida: As Project Manager and Lead Engineering Reviewer Mr. Barbaro lead CPC Survey, Traffic Engineering, and Civil Engineering staff to serve as an extension of the City's Engineering Department to conduct multiple reviews of Rezoning Design Development Guidelines (DDG), Survey, Plat, and DRC Site Plan Submittals for the Dania Pointe Project. Reviews were conducted through concurrent multiple cycles of phased submittals by the developer under an accelerated submittal and review schedule. Based on the size, density, and schedule of the proposed project the City has chosen to utilize the cost recovery option as stipulated in the City's code. Mr. Barbaro led his team to provide timely review comments to the City and applicant's consultants in order to meet stringent deadlines for Planning & Zoning Board and City Commission meetings. As lead engineering reviewer, Mr. Barbaro coordinated with the Applicant and Applicants consultant to expedite outstanding comments. Responsibilities also included attending DRC and City Commission meetings.

Engineer of Record, NW 2nd Avenue Water Main Replacement Project, City of Dania Beach, Florida: CPC was requested by the City of Dania Beach to prepare Construction plans and obtain the necessary regulatory approvals to address an emergency health hazard condition due to a failing potable water main. The City of Dania Beach received complaints from the residents of NE 2nd Avenue, near the intersection of NE 2nd Avenue with NE 1st Street, that the potable water serving their area was the quality of the drinking water was very poor and contained visible rusty. Residents approached the City of Dania Beach City Commission to demand a solution to this issue be expedited as quickly as possible. It was determined that the existing 2" water main located along NE 2nd Avenue between NE 2nd Street and NE 1st Street be replaced with a larger 6" water main to address the poor quality of potable water and increase fire protection for the area. The City of Dania Beach Utility Director requested that CPC address the potable water issue in an expedited manner. As Project Manager and Engineer of Record, Bill Barbaro, P.E. lead the CPC team to provide professional surveying, engineering, permitting and construction phase services based upon a very aggressive project schedule. In a period of one months' time of receiving a notice to proceed, Mr. Barbaro led his team to perform the topographic survey, designed the replacement of the failing water main, fire hydrants, and utility services, and obtained the Construction permit for extension of a water main from the Broward County Health Department. Also, upon completion of construction by the City of Dania Beach, and under the direction of the City Engineer, Bill coordinated with the Broward County Health Department and City Staff to perform an expedited certification of the water main from Health Department in a span of one business day.

Acting City Engineer, City of Lake Worth, Palm Beach County, Florida: Under a continuing services contract to accommodate his Client in a time of need, Mr. Barbaro, P.E. was able to assume the role as full-time in-house City Engineer. This role required the management of ongoing grant-funded Capital Improvement Projects which may serve as experience similar to management of SRF funded projects, Coordination with consultants for the development of capital improvement project budgets for the year 2015/2016 for water main replacement projects to be utilized by the City for **State Revolving Funds (SRF) financial**

assistance applications. As the sole Civil Engineering reviewer for the City of Lake Worth (COLW) Building Department on behalf of the COLW Utilities Department and Public Works Department, Mr. Barbaro P.E. performed engineering review of water, sewer, paving, and drainage design for commercial, and residential site development projects for compliance with City, county, and state permitting and land development regulations. Mr. Barbaro provided engineering services on behalf of the City for the review of site plan applications, and zoning modifications for the City of Lake Worth Department for Community Sustainability Planning, Zoning, and Historic Preservation (PZHP).

Senior Civil Engineer, the City of Lake Worth 2020 Master Plan Year One Projects 2, 4, & 7, Lake Worth, Palm Beach County, Florida: Engineer of Record (EOR), for three of the eight Lake Worth 2020 YR one infrastructure improvement projects. These major infrastructure improvement projects required design services for potable water main, sanitary sewer, stormwater management, and roadway paving improvements. As EOR performed design and management roles for the (3) three projects concurrently. Combined, the projects called for the relocation and upgrade of 17,200 linear feet of potable water main, the in-situ lining of 6,640 linear feet of deteriorating Vitrified Clay Pipe (VCP) gravity sewer main and the lining of roughly 150 existing VCP sewer laterals. Roadway Improvements totaled 31,762 square yards of roadway reconstruction and resurfacing. Project No. 2 (Tropical Drive and Barton Road) in addition to water main, sanitary sewer, and road improvements included the design of a 12" master meter and vault for connection to the Town of Lantana. The project area for Project No. 2 centered on the Barton Elementary School to increase fire protection and available water pressure to the school and surrounding residential community. Project No. 4 (15th, 16th, 17th, 18th, Avenue North and Terrace Drive) was designed to provide increased water pressure and fire protection coverage through the residential areas; design highlights included the design of jack and bore crossing of the CSX railroad, and installation of water main under I-95. Project No. 7 (22nd Avenue North and Park Street) was designed to provide increased stormwater management protection and provide connectivity and increased public safety through traffic calming, roadway improvements, and signing and striping improvements. Project No. 7 centered on the City of Lake Worth's North Park. Permitting for the project required coordination and a firm understanding of regulatory requirements and procedures for the following regulatory and permitting procedures agencies: Palm Beach County Health Department, Florida Department of Environmental Protection, FDOT, and CSX railroad right-of-way Permitting Division.

Senior Project Manager/ Senior Civil Engineer, City of Ft. Lauderdale ICWW Marina Dredge Project, Ft. Lauderdale, Florida:

Lead a multi-discipline team of engineers and biologists to perform a biological assessment, dredge design, turbidity control, permitting, grant funding coordination, and seagrass mitigation design. As the City of Ft. Lauderdale's coastal engineering consultant, providing services to allow for the deepening of three of the City's Marinas in conjunction with the Florida Inland Navigational Districts (FINO) Intracoastal Marina Dredge Project. This project is currently in progress and includes the following tasks: benthic and bathymetric survey, geotechnical testing, seagrass mitigation design, and dredge permit and license acquisition through the following local, state, and federal regulatory agencies Broward County Environmental Protection and Growth Management Department (EP&GMD), U.S. Army Corp of Engineers (USACE), National Marine Fisheries Service (NMFS), Florida Department of Environmental Protection (FDEP).

Senior Civil Engineer, Hallandale Beach Redevelopment, City Parks, South City Beach Front Park, B.F. James Park, and Joseph Scavo Park, Hallandale Beach, Broward County, Florida: Through coordination with a multi-discipline team, developed new paving grading, drainage, signing, and striping plans as well as design of water, and sewer plans for three existing city parks based on a completely redeveloped park master planning effort completed by B&A in 2011. The parks range in size from 3 to 7 acres and are planned for total redevelopment. To minimize construction costs for the proposed stormwater management system, while maintaining a high level of public safety, two of the three parks were designed utilizing only site grading for stormwater management. Tasks included close coordination with regulatory agencies and the development of varying approaches to stormwater design. Permitting for the projects included surface water management licensing for all three parks through the Broward County Environmental Protection and Growth Management Department. South City Beach Park which is located east of Ocean Avenue required permitting through FDOT to maintain the existing site drainage patterns which outfall from the site to the (A1A) Ocean Ave. right-of-way, which by identifying early in the design process was able to dramatically reduced potential construction costs. The overall design approach was to create a fun safe park environment to meet the needs and expectations of the community while maintaining within the City's project budget.

Senior Civil Engineer, Sullivan Park Redevelopment City of Deerfield Beach CRA Deerfield Beach, Florida: As Engineer of Record - part of a multi-disciplined design team hired by the City of Deerfield Beach Community Redevelopment Agency, Mr. Barbaro, P.E. provided professional services as the Engineer of Record for the design, and permitting of the redevelopment of Sullivan Park located on the Intracoastal Waterway in Deerfield Beach, Florida. The redevelopment of this 3-acre underutilized waterfront park included new landscaping and parking, two playgrounds, restrooms, a picnic pavilion, an interactive water feature, marina, a waterfront

promenade and a new stair tower to connect the site to the bridge leading over to the City's beachfront area. One of the primary goals for the park's redevelopment was to increase public access to the waterfront. This was accomplished by allowing uninterrupted waterfront access and incorporating a small marina and floating docks into the Master Plan. As Civil Engineer for the project, it required close coordination with the City of Deerfield Engineering, Public Works, and CRA staff, FDOT, Broward County, and Army Corp of Engineers. Civil design for the project performed by Mr. Barbaro included stormwater management modeling, paving, drainage, water, and sewer design based on detailed knowledge of the City of Deerfield Engineering Standards.

Senior Civil Engineer, 95th Street Beach Access Redevelopment, Town of Surfside, Florida: Based on a limited construction budget, develop paving grading, drainage design as part of a team to redesign and update the existing 95th Street from Collins Ave. east to the beach, a beachfront plaza, and beach access area under a very aggressive schedule to allow for the completion of work to coincide with a neighboring condominium proposed certification of occupancy. The project required close coordination and permitting through FDOT to allow for a physical drainage connection to an existing FDOT drainage catch basin located in the R/W of Collins Avenue. Design challenges included match existing grades on three of the four sides of the roadway while maintaining positive drainage, and connection to the Collins Avenue drainage system without violating FDOT's Moratorium on Collins Avenue.

Senior Civil Engineer, Oasis Hallandale, Hallandale Beach, Broward County, Engineer of Record for this major development project designed site civil engineering plans, calculations and supporting documentation for water, fire, sewer, paving and stormwater management for the development of two 3-story commercial buildings totaling 74,190 sq. ft. containing retail, restaurant, and office space, a 26-story residential building attached to a six-story 938-space parking garage. As the civil leaders of a multi-discipline team, we were able to obtain a major site plan approval from the City of Hallandale Development Review Committee (DRC), Planning and Zoning Board, and City Commission.

Project Manager/ Senior Civil Engineer, City of Boynton Beach, Lake Boynton Estates Utility Improvements, Boynton Beach, Palm Beach County, Florida Provide professional services for design, permitting, bidding and construction oversight as the Engineer of Record (EOR) for the replacement of 10,000 LF of undersized water main, the extension of gravity sanitary sewer, and the rehabilitation of the stormwater management system for the existing 200 home community. Paving and grading efforts involved the repaving of affected roadways and the replacement of removed driveways. As EOR, take part in Public meetings to inform the community and address individual issues with residents. Handle day to day issues during construction for field adjustments, verification of as-built drawings, review of shop drawings, test results, and pay requests. Coordinate with community and school board for the relocation of bus stops and mass transit bus stop locations. Review and comment on contractor Maintenance of Traffic (MOT) during construction.

Senior Civil Engineer - Hallandale Beach Redevelopment of (3) City Parks - South City Beach Front Park, B.F. James Park, and Joseph Scavo Park, Hallandale Beach, Broward County, Florida - B&A Partners, Inc. (2014):

Through coordination with the multi-discipline team, develop new paving grading, drainage, signing, and striping plans as well as the design of water, and sewer plans for three existing city parks based on a completely redeveloped park master planning effort completed by B&A in 2011. The parks range in size from 3 to 7 acres and are planned for total redevelopment. To minimize construction costs for the proposed stormwater management system, while maintaining a high level of public safety, two of the three parks were designed utilizing only site grading for stormwater management. Tasks included close coordination with regulatory agencies and the development of varying approaches to stormwater design. Permitting for the projects included surface water management licensing for all three parks through Broward County Environmental Protection and Growth Management Department. South City Beach Park which is located east of Ocean Avenue required permitting through FDOT to maintain the existing site drainage patterns which outfall from the site to the (A1A) Ocean Ave. right-of-way, which by identifying early in the design process was able to dramatically reduced potential construction costs. The overall design approach was to create a fun safe park environment to meet the needs and expectations of the community while maintaining the City's project budget.

36 Years Total	<i>Experience</i>
	<i>Education</i>
	M.S., Civil Engineering (Transportation) - University of Cincinnati, 1990.
	Certified Public Manager - Florida State University, 1995.
	Supervisory Management - Florida State University, 1992.
	B.S., Civil Engineering - University of Puerto Rico at Mayaguez, 1976.
	<i>Affiliations</i>
	Institute of Transportation Engineers - member
	Florida Engineering Society
	Certified Public Managers Society

Mr. Vargas' 36 years of professional engineering experience includes project management in: NEPA (PD&E) and roadway design projects, Transportation Planning, Long Range Transportation Plans, Growth Management, Public Involvements, Traffic and Transportation Engineering, Geometric Conceptual Design for intersections and corridors, roadway Capacity Studies, Parking Studies, Traffic Safety Evaluations, Access Management, Multimodal and Transit Studies.

City of Dania Beach LAP Multimodal Enhancements, Transportation Alternative Project (TAP), The project proposes multimodal enhancements in the South-East, North-West and North-East areas located within the City of Dania Beach. CPC will perform Engineering & Design, Surveying, and Mapping Services. CPC has been contracted by the City to engineer the design of the improvements, which include enhanced crosswalks, curbing, concrete sidewalks, raised intersections, and flashing solar-powered LED traffic signs at the project locations.
Reference: Ronnie Navarro, Deputy Director/City Engineer, 954.924.6808

Assistant Project Manager, Florida Department of Transportation, SR 997 (Krome Avenue) Homestead, Florida: Assistant Project manager for the RRR improvements along Krome Avenue as part of the Truck By-pass. Correction of a crowned cross section and trench drain increased the degree of difficulty of the project. Additionally, historic Palm Trees next to the road created design challenges.

Assistant Project Manager, Florida Department of Transportation, University Drive, Coral Springs, Florida: Assistant Project manager for the widening of University Drive from 4 lanes divide to six lanes divided complete street system from NW 40th Street (Cardinal Road) to the Sawgrass Expressway.

Project Manager, Florida Department of Transportation, Pines Boulevard and SW 145th Avenue, Pembroke Pines, Florida: Project Manager for the development of construction plans for improvements along SW 145th Avenue. The project included intersection operational analysis and development of initial conceptual plans. The project was completed under a LAP program with Broward County and FDOT.

Planner, Strategic Intermodal System (SIS) Connector Assessment, Florida Department of Transportation, District 4, Districtwide, Florida: Planner responsible for performing site reviews, documentation of key issues, and developing planning concepts and solutions. A multimodal system planning study covering Palm Beach and Broward Counties, FL, to inventory the Strategic Intermodal System (SIS) connector highways between the backbone SIS facilities and the SIS hubs. The goal is to identify deficiencies and develop short-term and long-term roadway modifications to improve the economic sustainability of the region. Twenty-six (26) SIS connector highways were evaluated and ranked by specific criteria and prioritized for implementation. Improvements range from Transportation Systems Management (TSM), Transportation Demand Management (TDM), and Intelligent Transportation Systems (ITS).

Project Manager, Florida Department of Transportation, District 4, SR 5 PD&E Re-evaluation, Fort Pierce, Florida: Project Manager responsible for conducting the overall reevaluation; leading the traffic engineering and preparing the Design Traffic Memorandum.

Florida Department of Transportation, I-95 PD&E Study Martin/St. Lucie Counties, Florida: Responsible for the completion of the Design Traffic Technical Memorandum, completion of the traffic analysis to develop short-term and long improvements including the development of conceptual plans. A safety study was conducted for the rest areas and completion of interchanges operational analysis. Ramp merge and diverge LOS was also completed.

Project Manager, Clifton Hill Connector PD&E / Design Clifton Hill Connector Road, US VI

Assistant Project Manager, Florida Department of Transportation, District 6, NW 47th Avenue PD&E, Miami, Florida: Assistant project manager for the development of a PD&E study along NW 47th Avenue. Responsible for the development of alternatives, traffic technical memorandum, public involvement, and PE Report.

SW 7th/8th Street Parking Study: from SW River Drive to SW 27th Avenue - This study identified the parking characteristics/needs along Flagler Street between NW 27th Avenue to NW 5th Avenue, including a parking inventory and parking utilization for the corridor.

I-95 Origin-Destination Study: The study corridor for the O/D Survey includes the interchanges of SR706/Indiantown Road (Exit 87) in Palm Beach County, CR509/Wickham Road (Exit 191) in Brevard County, Florida, and all interchanges in between. The corridor's approximate length is 104 miles and includes 20 interchanges. GIS analysis was completed to identify trip patterns, trip lengths, and to assess the propensity of drivers on I-95 to shift modes from drive-alone to other modes.

I-75 Interchange request evaluation: Area residents requested implementation of a new interchange for the Town of Weston, Florida. The analysis included a feasibility location and development of conceptual plans for a new interchange and the impact to the freeway system for the region. Current rules and codes were analyzed to demonstrate the need for the project. Meetings with elected officials were conducted to establish political jurisdiction and consistency.

I-95 and Ives Dairy Road Interchange, Miami-Dade County, Florida: Development of operations improvements and evaluation of operations using CORSIM and SYNCHRO. Existing conditions model calibration was performed from field data and observation. Various alternatives were modeled and analyzed.

US 1 Corridor, Marathon, Florida: A corridor study was completed to identify short-term improvements to enhance the safety of pedestrians and access management strategies for roadway safety.

SR 25, Okeechobee Road: Development an action plan Level V. From this study, a PD&E is currently in progress to identify additional alternatives for the improvement of this corridor.

Project Manager, Florida Department of Transportation, District 6, District Wide Traffic Operations Safety Studies, Miami-Dade County, Florida: Project manager responsible for the completion of traffic safety studies including fatal crash studies, safety reviews, representing the District Safety Engineer for the District Railroad diagnostic review for the development of the railroad crossings safety program, evaluation of safety features for railroad crossings, optimization of existing signal timing, and phasing parameters to improve safety.

Project Manager, Florida Department of Transportation, District 6, District Wide Corridor Planning Studies, Miami, Florida: Project manager responsible for the completion of corridor studies, action plans, level of service analysis, multimodal studies, and safety evaluations. Completed two corridor analyses and a district-wide level of service study, action plan Level V for SR 25 (Okeechobee Road), and a corridor study for US 1 in Marathon. Completed innovative operations approach for the traffic congestion problem at the intersection of NW 122nd Avenue and southbound off-ramp from the Palmetto Expressway.

US 41/CR 951 Intersection Improvement Study, Collier County Government, Naples, Florida: Engineer responsible for the development of design Traffic Technical Memorandum for at-grade interim and future grade separation overpass improvements and projections for years 2025-2035.

Project Manager, Florida Department of Transportation, District 2, District Wide Traffic Operations Safety Studies, Lake City, Florida: Project Manager responsible for the completion of traffic safety studies including fatal crash studies, optimization of existing signal timing and phasing parameters to improve safety, signal warrant analysis, fatal crash reviews and database update, and safety corridor studies.

Project Manager, Florida Department of Transportation, District 4, District Wide Access Management Contract, Broward County, Florida: Project Manager responsible for developing access management master plans, access management level of compliance assessments, and review of the site plan for access issues.

Project Manager, Florida Department of Transportation, District 4, District Wide Safety Contract, Broward County, Florida: Project Manager responsible for conducting intersection safety reviews, corridor safety analysis, benefit-cost analysis, fatal crashes reviews, and collision diagram analysis.

Traffic Operations Engineer, Florida Department of Transportation, District 4 & The City of Lake Worth: Lake Worth Road and Avenue A, City of Lake Worth, Florida: Traffic Operations Engineer responsible for providing preliminary design and justification for this five-leg roundabout. As the entrance to the City of Lake Worth, safety and aesthetic enhancements were the primary concerns. Area traffic volumes ranged from 30-35,000 vehicles per day on Lake Worth Road. Located at the end of a one-way pair, this FDOT project fell under state highway jurisdiction requiring a justification study of the area. Chapter 2 of the Florida Roundabout Guidelines was used as a basis for the justification and design of this two-lane roundabout.

Project Manager, Miami-Dade MPO Consultant Contract, Miami-Dade County, Florida: Project Manager responsible for completing work assignments within Miami-Dade County such as developing alternatives for the connectivity of the Don Shula Expressway, and identification of potential bus contra-flow lane operations to enhance Miami-Dade Transit system, updating the Miami-Dade Congestion Management System process. Evaluation and financial analysis for I-395 alternatives.

Traffic Operations Engineer, Florida Department of Transportation, District 4, Public Involvement, Broward County, Florida: Traffic Operations Engineer responsible for the development and implementation of community awareness plans to obtain public input for the implementation of roadway safety, access management, and enhancements.

Project Manager, Florida Department of Transportation, District 4, Districtwide ETDM and PD&E Support-Little Lake Worth Canal Bridge Replacement Feasibility Study: Project Manager to complete a bridge feasibility study along 0.5 miles section of SR A1A in Palm Beach County, including the development of alternatives and environmental impact assessment. Project Manager for the I-95 Origin-Destination Study.

Traffic Impact Studies – completed several private development traffic impact studies to obtain cities and counties development orders approvals.

North Carolina Department of Transportation - The study includes the US 74 (Andrew Jackson Highway) from Graham Street to SR 1749 (Allen Pond Road). Development of access management plan, operational analysis for existing and future conditions and Identify potential improvements.

St. Lucie County Growth Management Support – Review of traffic impact studies prepared by developers, review of Development of Regional Impact Studies, estimation of proportional fair share for projects submitted to the County Growth Management Office.

City of Parkland Traffic Engineering services – providing technical support for the City of Parkland related to traffic engineering.

Project Manager, Indian River County, Florida: Project manager for the completion of the revenues forecasting and cost estimates for the needs plan as part of the 2035 Long Range Transportation Plan. Completing of the Indian River Transit Development Plan Updates, Thompson Elementary Pedestrian, and Bike Route Evaluation.

Transit Development Plan, Indian River County, Florida: Responsible for the development of the Indian River County Transit Development plan for 2010 to 2020. The Plan included transit analysis for ridership, ridership forecast, onboard surveys, transit level of services analysis, the cost estimate for maintenance, and operational cost. Responsible for the completion of the 2008 TDP.

Project Manager, 4th Avenue, and Palmetto Road, Intersecting Roadway Design, City of Boca Raton, Florida: City of Boca Raton design implementation and cost estimate for the improvements at the intersection.

Comprehensive Transportation Study Municipality of Villalba, Puerto Rico. The study included origin-destination study, transit route analysis, parking inventory and analysis, roadway level of service and cost estimate for the acquisition of new Trolleys.

Municipality of Juana Diaz, Puerto Rico Comprehensive Transportation Study – The study included socioeconomic analysis, development of a transit system, origin-destination study, ridership estimates, routes analysis, transit operation plan, and transit operational cost, the recommendation of technology and stop locations.

Municipality of Aguadilla, Puerto Rico Comprehensive Transportation Study - The study included socioeconomic analysis, origin-destination study, development of a transit system, ridership estimates, routes analysis, transit operation plan, and transit operational cost. Additionally, a feasibility study for the implementation of a Teleferic System was completed. A parking study was completed for the Downtown area including recommendations for park and ride lots.

Municipality of Coamo, Puerto Rico Transportation Study - The study included socioeconomic analysis, development of a transit system, origin-destination study, transit ridership estimates, routes analysis, transit operation plan, and transit operational cost, the recommendation of technology for bus stop locations. Identified roadway improvements and traffic signal improvements.

Congestion Management Corridor Study; Broward County MPO, Broward County, Florida: Responsible for the Hollywood/Pines Boulevard corridor study to identify congestion management strategies for 22 miles of SR 820. Public involvement and outreach program was completed including presentations to the City's and County's board of commissioners. Evaluation of transit bus routes including development of limited stops concept and feasibility cost estimates.

Project Manager, Miami-Dade MPO Consultant Contract: Access to SW 137th Avenue to and from SR 874 (Don Shula Expressway), Miami-Dade County, Florida: Project Manager responsible for the evaluation of existing alternatives from a previous PD&E study, identification of potential bus contra-flow lane operations to enhance Miami-Dade Transit system, updating the Miami-Dade Congestion Management System process. I-395 alternatives evaluation and financial analysis. Kendall Drive from SW 137th Avenue to SW 147th Avenue, optimization of existing signal timing, and phasing parameters to reduce delay and improve safety.

Assistant Project Manager, Alico Road Design Traffic Technical Memorandum, Access Management Plan, and PD&E, Lee County, Florida: The study developed the future traffic analysis and proposed a corridor Access Management Plan as part of the NEPA (PD&E) study along the corridor in Lee County Florida.

City of Boca Raton Pay Parking System – The study included data collection, parking utilization analysis, development of a pay parking system, and the implementation plans and specifications.

Congestion Management Corridor Study, Broward County MPO, Broward County, Florida: Responsible for the Hollywood/Pines Boulevard corridor study to identify congestion management strategies for 22 miles of SR 820. Public involvement and outreach program was completed including presentations to the City's and County's board of commissioners.

Project Manager, Cooper City, Continuing Traffic Engineering and Transportation Planning Services, Cooper City, Florida: Project Manager responsible for continuing traffic engineering and transportation planning services to Cooper City. The primary role was making sure developments adhere to city traffic requirements and concurrency standards.

City of Mount Dora: Main reviewer for traffic impact studies submitted by Developers.

US 41/CR 951, Intersection Improvement Study, Collier County Government, Naples, Florida: Engineer responsible for the development of design Traffic Technical Memorandum for at-grade interim and future grade separation overpass improvements and projections for years 2025-2035.

Project Manager, Traffic Impact Study Home Depot, St. Croix USVI: Project manager for the Development of traffic impact study as part of the proposed Home Depot Store abutting Route 66 (Melvin Evans Highway).

Experience

33 Years Total

Education

B.S. Civil Engineering
University of Florida,
1983

Registration

Registered Professional
Engineer - Florida
38550 (1987)

Organizations

American Society of
Civil Engineers (ASCE)

Florida Engineering
Society

Certifications

Advanced MOT
Designer

Stormwater, Erosion
and Sedimentation
Control Inspector and
Trainer

Ms. Bobo-Jackson has over 33 years of experience in civil engineering. She began her professional career with the Department of Transportation (FDOT) where she gained extensive experience while working on a wide range of projects with an emphasis on highway design. Following her tenure with FDOT, she served as project manager with a few South Florida engineering firms where she provided consulting services to the FDOT, counties, municipalities and other clients.

The majority of the projects completed by her have been roadway design including geometry, maintenance of traffic, pavement design, signing and marking, lighting and signalization. She has been responsible for civil/site development projects which included paving, grading, signing and pavement marking, drainage sanitary sewer, and lift station design and permitting. Ms. Bobo-Jackson has conducted corridor analyses by evaluating existing and future/projected traffic data relative to multi-modal interrelationship, land use, egress and ingress, available right-of-way, environmental and socio-economic impacts to the neighborhoods and surrounding areas to determine the need for roadway improvements and/or changes. She has also served on several Value Engineering Teams to determine project economics and employs the value engineering concepts in all projects.

Project Engineer, Gables Aventura Multi-family: This 16.3-acre, mixed-use development, will include 400 units, a recreational building with a community swimming pool, a commercial building, a lake system and other amenities. Design services included the widening and improvements to approximately 1 mile of West Dixie Highway and NE 202 Street and NE 26 Avenue, as well as the Traffic Signal and Intersection Modification of Ives Dairy Road and West Dixie Highway. An area-wide Traffic Impact Study was conducted and construction of offsite sidewalks and offsite parking facilities will be included. Other work elements included in the project were traffic modeling; engineering data collection; surveying; platting; roadway, signing and marking, utility, water, and sewer, drainage, the drainage well, pump station and maintenance of traffic design; coordination of site retaining walls and bridge structures design; permitting and construction services.

Project Engineer, Hickory Place Multi-family: This 3.62-acre townhome development will include 46 units. Services included surveying, site plan processing, roadway, signing and marking, water and sewer, drainage and pump station design, permitting and construction services.

Project Engineer, A1A Transportation Site: The project elements included environmental permits for filling the lake, paving, drainage and utilities. Other key services were site development plans, traffic modeling, engineering data collection, surveying, roadway design, utility design, drainage and stormwater modeling, permitting, and coordination of site retaining walls.

Project Engineer, Pine Island Road from Sheridan Street to Stirling Road: Provided MOT design and signing, lighting, and pavement marking design.

Project Engineer, Replacement Parking, and Temporary Road, Ft. Lauderdale-Hollywood Airport: Provided MOT design and signing, lighting, and pavement marking design.

Project Engineer, Chartwell Memory Care Site: Project elements included surveying, site development plans, stormwater management plans and permits, construction engineering and inspection services and project close-out documents.

Specific Signing & Marking and Lighting Projects Include:

- Douglas Road from County Line to Pembroke Road
- S.W. 100th Avenue from Griffin Road to SR 84
- State Road 7 from County Line Road to Palmetto Park Rd.
- NW 25th Street Interchange with the Palmetto Expressway

- NE 2 Ct/NE 185 St./NE 6 Avenue from NE 181 St. to Snake Creek Canal
- Broward Boulevard from Pine Island Road to University Drive
- Pine Island Road from SR 84 to Sunrise Boulevard
- I-95 From Cypress Creek Road to Atlantic Boulevard

Specific MOT Projects Include:

- Madeira Beach Landscape and Irrigation Installation
- Cypress Creek Road Water Main Installation
- Douglas Road from County Line to Pembroke Road
- State Road 7 from County Line Road to Palmetto Park Rd.
- NW 25th Street Interchange with the Palmetto Expressway
- NW 72nd Avenue from NW 12th St. to NW 25th St.
- I-95 From Cypress Creek Road to Atlantic Boulevard
- Other FDOT Safety Projects

Specific Projects Requiring Community Outreach:

- **City of Lauderdale Lakes Street Resurfacing Project Phase I** – Westgate and Northgate Neighborhoods was responsible of preparing informational material, i.e. brochure mailers. Started January 2005 and completed December 2005
Contact: Author Bain – (954) 535-2815
- **City of Miramar Wastewater Flow Diversion Project** from west of Flamingo Road to west of University Drive for the installation of 29,000 linear feet of 30 and 24-inch DIP pipe. With Gator Engineering as a sub-consultant to Malcolm Pirnie, Inc. was responsible for preparing all presentation material, i.e. mailers, brochures, and presentations. Started in October 2003 and completed in October 2004. Contact: Nigel Grace (954) 761-3461
- **Douglas Road from County Line to Pembroke Road, Miramar, Florida**
With Gator Engineering as a sub-consultant to Miller Legg and resident of Miramar assisted in the presentation of the proposed aligned, project scheduling and facilitated questions from the public. Contact: Dan Tintner (now with CPC - (954) 972-3959).

Projects conducted more than five years ago:

US 1 Upfront Mitigation Project - Florida City to Key Largo, Florida

Regina Bobo-Jackson as an employee of HJ Ross & Associates conducted formal and informal meetings and hearings to introduce proposed alignments and to determine consensus concerning the most viable alternatives. 1993 - 1994

US 1 Sub Connector – Fort Lauderdale, Florida

Regina Bobo-Jackson as an employee of the Department of Transportation conducted formal and informal meetings and hearings to introduce proposed alignments and to determine consensus concerning the most viable alternatives. 1988 Outreach conducted from 1987 to 1988.

State Road 7 From State Road 84 to Broward Boulevard, City of Plantation, Florida

As an employee of the Department of Transportation conducted formal and informal meetings and hearings to introduce proposed alignments and to determine consensus concerning the most viable alternatives. Outreach conducted from 1987 to 1988.

Port St. Lucie Boulevard from Florida's Turnpike to US 1 in St. Lucie County

As an employee of the Department of Transportation conducted formal and informal meetings and hearings to introduce proposed alignments and to determine consensus concerning the most viable alternatives. Outreach conducted from 1987 to 1988.

Lakshmi Kuttiparambil, P.E.

Project Engineer



Experience

12 Years Total

Education

B.S., Civil Engineering,
University of Calicut,
Kerala, India, 1999

Registration

Registered Professional
Engineer - Florida 71628

Lakshmi has more than 12 years of experience in land development and municipal engineering. Her professional experience includes, the design of new drainage systems or drainage improvements to the existing systems, project permitting and certification with different municipalities throughout Southeast Florida, designing pavement markings and signage and the maintenance of traffic for projects, and design of potable water and sanitary sewer systems. She is experienced in AutoCAD, Hydraflow Storm Sewer, HTML, and JavaScript.

1200 Hillsboro Mile in Hillsboro Beach, Florida: A residential development consisting of two 3-story buildings each containing 18 Townhouse units on a 2.5-acre site. Involved in the design of drainage, water, and sewer main system. Tasks included coordination with Broward County Surface Water Management Division, Town of Hillsboro Beach, FDOT, FDEP Coastal Construction Control Line Program, and Florida Health Department for permitting purposes.

Gables Aventura, Miami-Dade County: Project consists of 16 acres of a residential development containing Townhouses and Condominiums located in unincorporated Miami. Involved in the Lift station design and Stormwater management calculations. Permitting tasks involved coordination with DERM, WASD, Florida Department of Health and Miami Dade Public works. Also involved in the internal quality assurance plan review of drainage, water, and sewer/force main plans.

Boca Royale, Boca Raton: The project consists of the modification of the existing South Florida Water Management District's (SFWMD) Environmental Resource Permit for the 323-acre Hidden Valley area to reflect a change in land use for the existing 55-acre golf course to a residential single family project with a proposed lake. Involved in the pre-development and post-development stormwater management calculations for the 323-acre overall site using ADICPR.

Bergeron Distribution Center, Pembroke Pines: Project consists of approximately 170,000 square feet of commercial warehouse with associated parking lots and roadway improvements. Involved in the design of water and sewer improvements. Also, involved in the stormwater management calculations and permitting phase of the project.

South Florida Logistics Center, City of Miami: Project consists of developing the 60-acre site for a proposed warehouse facility. Per the site development, the project proposes to construct site perimeter road on the east, west and south side of the project site. Perimeter road is proposed to include water, sewer and drainage improvements with connection points for future development. Project proposes approximately 5000 LF of 12" DIP WM, 1500 LF of 4" FM and drainage system along the new road. Tasks included design and preparation of civil plans.

Fort Lauderdale-Hollywood Airport Runway Expansion – NE 10th St & NE 7th Ave Utility Improvements, Dania Beach: Project consists of an extension of NE 10th Street to the east to intersect with NE 7th Avenue and reconstruction of NE 7th Avenue from this intersection to the north to the intersection of Taylor Road. Project proposes 2925 LF of 12" PVC WM along NE 10th street, 1300 LF of 10" PVC WM along NE 7th Ave, 1400 L.F. of 10" Gravity Sewer along NE 10th St, 1250 L.F. of 10" Force main along NE 7th Ave. & 1300 LF of 10" Force main along NE 10th St. Involved in the design of proposed Water & Sewer system for the project. Tasks included design and preparation of Civil plans, Utility coordination and worked with Broward County Environmental Regulation Division, Broward County Health Department and City of Dania Beach for Project permitting.

New Hope Church Expansion Project, Southwest Ranches: The New Hope Church site is located on Dykes Road just south of Sterling Road on a 4-acre site. The project involved expansion of New Hope Church site by adding new parking area, 12,000 square feet of worship center space and 5,000 square feet of classroom space for Sunday school. Involved in the design of Water main, preparation of Water main plans and worked with the City of Sunrise, Town of Southwest Ranches and Broward County Health Department for project permitting.

Fort Lauderdale-Hollywood Airport Runway Expansion – Perimeter Road Joint Utility Corridor Design, Fort Lauderdale: Project involved the design of 32 Way 4" Joint Utility Corridor along the proposed Perimeter Road. As part of the project, approximately 3000 L.F. of Joint Utility Duct Corridor comprising of 32 – 4" Utility ducts was designed to be encased in a 2.58' wide and 5.5' deep concrete encasement. The Utility corridor consisted of 12-4" ATT ducts, 6-4" BCAD ducts, 4-4" FAA Ducts, 2-4" Comcast ducts, 2-4" FPL Fibernet ducts, 2-4" XO communications duct and 2-4" Spare ducts for future use. Tasks involved Utility co-ordination, identifying existing Utilities, Utility relocation and design of the new Joint Utility Corridor.

WO-156A Design of BCT Bus Stops, North Lauderdale: Project consists of a redesign of existing 12 Broward County Transit Bus Stops in North Lauderdale. Scope of the work includes providing new 3', 5' or 7' Bus Shelters with Shelter Pad and Landing Pad with Type 'F' curb & Gutter, making Sidewalk & Bus Stop ADA accessible, reconfiguring existing Sidewalk, adding 2' or 5' Asphalt shoulder, providing Bus Stops with all amenities like Bike Rack, ADA Bench, Solar Panel Battery & Pull Box, Trash Can etc. per BCT recommendations, re-grading existing Swale area to match existing elevations. Worked on the Existing / Demolition Plan, Proposed Plan and Cross Sections plan for the Bus Stop plans. Involved in analyzing the existing Bus Stop location and finalizing the proposed Bus Stop location taking into account BCT requirements and existing site conditions.

WO-112S-A, B & C Design of BCT Bus Stops, Sunrise: Project consists of redesign/relocation of existing 21 Broward County Transit Bus Stops in Sunrise. Work includes providing new Bus Shelters with Shelter Pad and Landing Pad with Type 'F' curb & Gutter, making Sidewalk & Bus Stop ADA accessible, re-grading existing Swale area, providing Bus Stops with all amenities like Bike Rack, ADA Bench, Solar Panel Battery & Pull Box, Trash Can etc. per BCT recommendations. Worked on the Demolition Plan, Proposed Plan and Cross Sections for the Bus Stop plans.

Plymouth Church Water Main Extension, Coconut Grove: Project proposes approximately 400 L.F. of 8" D.I.P. Water main extension to connect to existing Miami-Dade Water & Sewer Department Water main located at the intersection of Hibiscus Street & Devon Road to serve the Plymouth Chapel. Worked on the design and preparation of Water Main Plan and Profile plans for the project.

Fairchild Tropical Botanical Garden, Coral Gables: Project involves the addition of La Galleria building to the existing Tropical Garden building. Worked on preparing Paving & Drainage plans and Sewer & Water main extension plan to serve the new La Galleria building in the Fairchild Tropical Garden site.

Palm Lakes Mobile Home Sewer Improvements, Hialeah: Worked on the conceptual design of the proposed sanitary sewer system to connect to the existing Miami Dade Water and Sewer Department system. The project involves designing new sanitary sewer system comprising of gravity sewer main, lift station and force main to connect to existing MD-WASD system.

Shady Oaks Mobile Home Park Drainage Improvements, North Miami: Worked on preparing preliminary paving and drainage plans. The project proposes drainage system consisting of exfiltration trenches to improve the existing flooding condition in the project site.

Roundabout at Bonaventure Boulevard and Blatt Boulevard, City of Weston: Project involved the construction of a roundabout at the intersection of Bonaventure Boulevard and Blatt Boulevard. Prepared MOT plan and construction phasing plan for the project.

Traffic Circle at SW 168th Street and SW 87th Avenue, Palmetto Bay: Project consisted of construction of traffic circle at the intersection of SW 168th Street and SW 87th Avenue. Tasks involved preparation of MOT plan and construction phasing plan for the project.

Raintree Golf Course Re-development, Pembroke Pines (Engineer): Worked on the layout of proposed mitigation area and reconfiguration of the existing lake in the Raintree Golf Course per the new site plan. Prepared earthwork cut and fill calculations for the new site layout. Prepared proposed lake cross-sections. Worked on permits from South Florida Water Management District, South Broward Drainage System and U.S. Army Corps of Engineers for the project. Worked on the layout of the proposed entrance road to the development from Pembroke Road and prepared paving, drainage and pavement marking and signage plans for the proposed turn lanes in Pembroke Road.

Pines City Center, Pembroke Pines (Engineer): The Pembroke Pines City Center is a lifestyle center on a 115-acre site that is located on Pines Boulevard west of Palm Avenue. Involved in the onsite paving, grading and drainage, and water and sewer plans. Worked on the offsite improvements including the design of three turn lanes and two driveway connections to Pines Boulevard. Turn lane design included offsite drainage improvements, swale reconfigurations, sidewalk modifications and bike lane reconfiguration. Also, prepared pavement marking and signage plans for the onsite development and proposed turn lanes, engineer's estimate of the cost of quantities, earthwork calculations, and flood routing calculations. Worked on the permitting and certification of the project with permitting agencies.

Experience

4 Years Total

Education

Bachelor of Civil
Engineering, Florida
International University,
Miami, Florida
December, 2009

Associate in Arts Miami-
Dade College
Miami, Florida
June 2007

Registration

Florida Engineering Intern
#1100014652

Mr. Castillo has over four years of experience as a Project Engineer working on private and public sector projects. His experience includes traffic study analysis using Synchro traffic analysis software, onsite and offsite engineering inspections, drainage inspections, sanitary and sewer inspections, plans preparation, design calculations, client and sub-contractor coordination, sanitary and sewer design and drainage design using SFWMD Cascade Flood Routing, and Interconnected Channel and Pond Routing Modeling (ICPR). In addition, Mr. Castillo has experience permitting throughout multiple counties and district agencies including West Palm Beach County, Broward County EPD, SFWMD, CBWCD, Miami-Dade RER, etc. Furthermore, Mr. Castillo has the knowledge to prepare reports, proposals, cost estimates, and visual presentations using software such as Microsoft Office, Adobe Photoshop, and AutoCAD Mcolor. Mr. Castillo also has the capability of converting plan drawings to 3D renderings and animations using Google Sketchup and Lumion which can be used for presentations and demonstrations.

Seminole Tribe of Florida Headquarters Building and 64th Avenue Drainage Study, Hollywood Reservation: A drainage and stormwater study that models the drainage basins surrounding and including the STOF Headquarters Building and the adjacent roadway. The study recommends a cost-effective solution for lowering the peak stages for the stormwater elevations and relieving the standing water in the adjacent 64th avenue swales.

Coral Springs Municipal Complex, Coral Springs, FL

Mr. Castillo assisted with the preparation of the civil engineering plans for the municipal complex located in southwest corner of Sample Rd and NW 94th Ave. This project required the filling of an existing canal and rerouting via box culverts. This municipal complex required an onsite lift station and force main to be designed by others. Mr. Castillo assisted in preparing civil engineering drawings which included drainage, water and sewer, fire access plan, signage and marking plan, and canal realignment plan.

Coral Springs Fire Station No. 95 Signalization, Coral Springs, FL

Mr. Castillo assisted in preparing the emergency signal design plans and specifications for the Fire Station No. 95. He also assisted in determining mast arm tabulation and pay item quantities using FDOT design standards.

East Dania Beach Blvd Lane Elimination Feasibility Study, Dania Beach, FL

Mr. Castillo assisted in developing a feasibility study report that involved evaluation of reducing a through lane in each direction of travel along a portion of E Dania Beach Blvd between E. 1st Ave and Gulfstream to accommodate 7 ft. buffered bike lanes and wider sidewalks to promote bikability and walkability. A field visit was essential in determining existing drive lane, bicycle lane, and sidewalk geometry. Crash data was also researched along this corridor to determine if eliminating a lane would be prone to accidents. A capacity analysis was also developed using Synchro traffic analysis software. The project also involved providing a detailed feasibility study report along with conceptual plans. Furthermore, the process also included submitting a formal application to FDOT District 4 lane elimination.

Bergeron Commerce Center, Pembroke Pines, FL

Mr. Castillo assisted with the preparation of the civil engineering plans and details for the Bergeron Commerce Center located in the southwest corner of Stirling Rd and SW 196th Ave. Mr. Castillo assisted in preparing civil engineering drawings which included drainage, water, and sewer, fire access plan, signage and marking plan, sections, etc.

Boca Raton Innovation Campus, City of Boca Raton, FL

Mr. Castillo assisted with the preparation of the striping and seal coating plans for the Boca Corporate Center located in the northeast of N Military Trail and Spanish River Blvd. This project involved restriping the existing parking lots F1, F & G with the goal of meeting Boca Raton standards and gaining additional parking spaces.

Coral Springs Municipal Complex, Coral Springs, FL

Mr. Castillo assisted with the preparation of the civil engineering plans for the municipal complex located in southwest corner of Sample Rd and NW 94th Ave. This project required the filling of an existing canal and rerouting via box culverts. This municipal complex required an onsite lift station and force main to be designed by others. Mr. Castillo assisted in preparing civil engineering drawings which included drainage, water and sewer, fire access plan, signage and marking plan, and canal realignment plan.

Christ the Rock Community Church, Cooper City, FL

Mr. Castillo assisted with proposing additional parking area to the existing Church. The design included: paving, grading, and drainage design for the reconstruction of the parking lot. This project is permitted through the City of Cooper City and Central Broward Water Control District (CBWCD).

Broward College South Campus Master Plan Update, Pembroke Pines, FL

Mr. Castillo assisted with updating the overall master plan for the south campus using ICPR to model the surface water throughout the campus with future development accounted for. This project is permitted through South Florida Water Management District (SFWMD) and South Broward Drainage District (SBDD).

Broward Schools & Broward College Water Use Compliance, Broward County, FL

Mr. Castillo was in charge of renewing and updating SFWMD Water Use division of several Broward Schools' water use permits including elementary, middle and high school through a continuing contract. Mr. Castillo was also in charge of renewing and updating SFWMD Water Use division of Broward College' water use permits including central, south and north campus through a continuing contract. Their water use permits were renewed through SFWMD Water Use permitting website.

FAU Parking Lot 7 Improvement, Ft. Lauderdale, FL

Mr. Castillo assisted in preparing civil engineering drawings for the parking lot 7 reconstruction project which included paving, grading and drainage, pavement markings and signage and demolition plan.

Paragon Charter School Classroom Addition, Hollywood, FL

Mr. Castillo assisted with the proposed classroom addition to the existing Charter School. The design included paving, grading, and drainage design for the new addition. Water and sewer were designed for the addition as well. The new 4" water main connected with the existing 8" PVC water main along Fillmore Street. The proposed 6" sanitary sewer connected to an existing lift station located along Fillmore Street.

30" Force Main Extension Project, Hallandale Beach, FL

Mr. Castillo was the project engineer for the proposed 30" force main from NE 14th Street to Moffet Street. Mr. Castillo investigated all existing water, sewer, and drainage as-builts from NE 14th Street to Moffet Street to assist in the preparation of the preliminary engineering drawings for the force main plans. He assisted in providing the City of Hallandale Beach detailed plan and profile force main plans and met with City of Hallandale Beach Water Utilities Engineer to review plans. Mr. Castillo also provided maintenance of traffic plans to divert traffic away from the construction area.

Hallandale Beach Sidewalk Inventory, Hallandale Beach, FL

Mr. Castillo was the project engineer for accounting the entire sidewalks in the City of Hallandale Beach. He was responsible for accounting all missing and non-compliant ramps throughout the city limit and accounting for thousands of linear feet of sidewalk. He also accounted for utility poles and trees that may be in the sidewalk right of way. Mr. Castillo prepared a master plan sidewalk inventory for the City of Hallandale Beach.

Experience

26 Years Total

Education

B.S. Civil Engineering

University of Miami, 1989

Registrations

Professional Engineer:

State of Florida # 48114

Certifications

CTQP:

TIN # D15034966

Quality Control Manager

Asphalt Paving Level 1

Asphalt Paving Level 2

Pile Driving Inspection

FDOT Construction
Academy

Nuclear Gauge Safety
Training

Radiation Safety Officer

Stormwater, Erosion &

Sediment Control

Signalization Level I, IMSA

Advanced MOT

Trainer Course Standards
for the Construction
Industry, OSHA 500

Standards for the
Construction Industry,
OSHA 510

FDOT Leadership Academy
FDOT Project Engineers
School

Mr. Dubon is a fully bilingual professional that has over 26 years of experience in the construction industry. He has extensive experience in program and contract management for all phases of construction including Design-Build projects. His expertise includes building/ facility construction, interstate, roadway and bridge CEI construction. His duties have included overall CEI services management, office management including profit and loss, business development, contract management, project management, personnel recruitment, threshold inspections and Environmental Site Assessments

Senior Project Engineer, Florida Turnpike Enterprise, Resurface and Roadside Improvements MP 178 to 190.5, Okeechobee and Indian River Counties; FIN: 43516516201, 43516536201, 43516716201, 43516736201, 43516616201, 43516636201, 43516816201, 43516836201, (May 2017 – Present). This \$ 26ML project consists of milling and resurfacing, cross slope corrections, super-elevation corrections, base construction, bridge deck joint replacements and box culvert gunite spall repairs. This project also featured safety and design improvement which included drainage, shoulder gutter, guardrail, signage for the Turnpike Mainline (SR 91) from Mile Post 178 – 190 in Indian River and Okeechobee Counties.

Reference: Todd Kelly, P.E., FDOT Project Manager (407) 286-8520

Senior Project Engineer, FDOT District 4: Andrews Avenue Extension, Broward County, FM 230724-1-62-01: This 0.70-mile reconstruction project, was centrally located within a commercial area of the City of Pompano Beach. It included widening from the existing two undivided lanes to four brand new divided lanes, as well as bike lanes and sidewalk. These new lanes will have a much smoother alignment than the existing one, eliminating the current 90-degree bends. This project entailed extensive R/W acquisition, utility relocation and construction of retention ponds with outfalls into the Pompano Canal. Other improvements included new curb and gutter, an improved drainage system, signalization upgrades at SW 3rd Street and Andrews Avenue, and at the Atlantic Blvd., and Andrews Avenue intersection, new street lighting installation, improved sidewalk ramps at intersections to comply with ADA standards, pavement markings and updated signs, landscaping and irrigation improvements. Reference: Angela Lietz, P.E, FDOT Project Manager (954)940-7523

I-75 Reconstruction Project, Florida Department of Transportation (FDOT) District 1, Port Charlotte, Florida: Senior Project Engineer for this 24 million-dollar re-construction of approximately nine miles of I-75 from four to six lanes in Charlotte County. The work includes bridge widening, roadway reconstruction, milling and resurfacing, storm drainage pipe, pond construction, and signing and pavement markings. On this assignment, Mr. Dubon is in responsible charge of the construction engineering and inspection (CEI) services. He is responsible for reviewing the contractor's CPM schedule, claims review and analysis, Supplemental Agreements and work order processing, project and inspection staff management.

Reference: Mr. Nikesh "Nik" Patel, PE, Interstate Resident, Interstate Construction D1 (941) 465-0411 (01/2015 – 2/2016)

Group 123 CEI Contract, Florida Department of Transportation (FDOT) District 5, Sanford, Florida: Senior Project Engineer for this 33 million-dollar re-construction of approximately three miles of SR 415 from two to four lanes in Seminole and Volusia County. The construction work includes a new southbound two-lane bridge, retrofitting the existing two-lane bridge (northbound), roadway reconstruction from two to four lanes, milling and resurfacing, extensive storm drainage pipe, box culvert extensions, pond construction, surcharge construction, pedestrian trail, reinforced soil slopes, navigation lighting, signalization, and signing and pavement markings. Mr. Dubon is in responsible charge of the construction engineering and inspection (CEI) services. He is responsible for reviewing the contractor's CPM schedule, claims review and analysis, Supplemental Agreements and work order processing, project and inspection staff management.

Reference: Tyler Malmborg, P.E., Construction Project Manager (386) 8464149 (08/2012 – 2/2016)

I-75 Reconstruction Project, Florida Department of Transportation (FDOT) District 1, Fort Myers, Florida: Senior Project Engineer for this 17 million-dollar re-construction of approximately six miles of I-75 from four to six lanes in Lee County. The work includes bridge widening at the SR 78 interchange, roadway reconstruction, milling and resurfacing, storm drainage pipe, underdrain, pond construction, high mast lighting, drilled shafts, and signing and pavement markings. On this assignment, Mr. Dubon is in responsible charge of the construction engineering and inspection (CEI) services. He is responsible for reviewing the contractor's CPM schedule, claims review and analysis, Supplemental Agreements and work order processing, project and inspection staff management. Reference: Mr. Nikesh "Nik" Patel, PE, CPM, Interstate Construction D1 (941) 465-0411 (06/2012 – 01/2015)

SR 559 Extension CEI Contract, Florida Department of Transportation (FDOT) District 1, Auburndale, Florida: Senior Project Engineer for this 5 million-dollar project which included a CSX railroad bridge overpass and connected to SR 655 (Recker Highway). This project includes construction of a new bridge over the CSX RR tracks, MSE Walls, roadway widening, milling and resurfacing, storm drainage pipe, pond construction and utility relocations. On this assignment, Mr. Dubon is in responsible charge of the construction engineering and inspection (CEI) services. He is responsible for reviewing the contractor's CPM schedule, claims review and analysis, Supplemental Agreements and work order processing, project and inspection staff management. Reference: Mr. Doug McClintock, CPM, Bartow Ops D1 (863) 272-4559 (12/2010 – 03/2012)

Group 97 CEI Contract, Florida Department of Transportation (FDOT) District 5, Ocala and Wildwood, Florida: Senior Project Engineer for three Design Build CSX railroad bridge overpass construction projects totaling approximately 50 million dollars in construction. These projects included construction of new bridges over the CSX RR tracks with side Service Roads, MSE Walls, storm drainage, utility relocations and new signalization within the project limits. On this assignment, Mr. Dubon is in responsible charge of the construction engineering and inspection (CEI) services. He is responsible for reviewing the contractor's CPM schedule, claims review and analysis, Supplemental Agreements and work order processing, project and inspection staff management. Reference: Mr. Ed Petersen, CPM, Leesburg Ops D5 (352) 326-7729 (11/2007 – 12/2010)

District Wide Verification Contract, Florida Department of Transportation (FDOT) District 2, Lake City, Florida: Contract Manager responsible for coordinating inspection staff with Project Manager and Lab Manager. Reviewing inspector's time sheets, invoices before submitting to FDOT, contractual documents such as contract amendments and personnel action requests. Coordinated with Materials office staff including the Project Manager and the District Materials Engineer on a regular basis for the project issues. Reference: Leslie Bloomfield, D2 (800) 749-2967 (12/2005 -04/2007)

District Wide Signalization CEI Contracts, District 2 - Jacksonville, Florida: Senior Project Engineer for three consecutive \$1.5MM District Wide CEI Contracts. Duties included overall project management from pre-construction meetings through final estimates. Performed project schedule reviews on a regular basis. Also, coordinated with Project Engineers and inspectors on a daily basis for project updates, reviewed supplemental agreements, monthly estimates, and final estimates before submitting to FDOT. Reference: Jessica Reese, PE, D2 (904) 360-5400 (11/1998 - 05/2004)

Overhead Signs at SR-9A (I-295) at US-17 and SR 21: Interchanges. The project consisted of replacing and adding several overhead signs along I-295 in Jacksonville, Florida. Work included installation of drilled shafts, overhead sign structures, and cantilever signs. The project required nighttime operations to minimize traffic disruption along the I-295 corridor. The project required close attention to night-time MOT for rolling road-blocks facilitated by FHP and close coordination with the Public Information Office.

SR - 15 (US 17) at SR-224 (Kingsley Boulevard) Major Intersection Improvements: Project consisted of widening the existing intersection to accommodate existing traffic during peak rush hour flow. Work included widening, milling and resurfacing, adding turn lanes, installation of overhead cantilever signs, installation of new signalization, landscaping, striping and included the installation the construction of a park-and-ride lot.

SR - 104 Dunn Avenue at I-95 Interchange Improvements: Project consisted of widening Dunn Avenue at I-95 to accommodate existing traffic during peak rush hour flow. Work included widening, milling and resurfacing, installation of new signalization, striping and the replacement of concrete slope pavement with new RE walls, landscaping and sidewalk construction.

FDOT Interstate Residency Office, Florida Department of Transportation (FDOT) District 2, Lake City, Florida (01/1996 – 11/1998)



Qualifications Search

Qualifications			
TRAINEE	MATERIAL GROUP	QUALIFICATION	EXPIRATION DATE
D15034966	Asphalt	Asphalt Paving Technician - Level 1	7/29/2020
D15034966	Asphalt	Asphalt Paving Technician - Level 2	7/29/2020
D15034966	Geotech	Pile Driving Inspection	8/28/2020
D15034966	Management	QC Manager	Does Not Expire

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134215

Experience

27 Years Total

Education

B.S. Civil Engineering
University of Florida, 1990

Registrations

Professional Engineer:
State of Florida # 49476

Certifications

CTQP:
TIN H63046164

QC Manager

Asphalt Paving Level 1 & 2

Final Estimates Level 1 & 2

MOT - Advance Work
Zone Traffic Control

Final Estimates
Preparation (FDOT)

WZTC Level 2 Traffic
Safety Certification
#ZZ23920

Nuclear Surface Moisture
Density #903

Traffic Control Plan Design

Long Range Estimates

Project Engineers School

DCE Critical Structures
Course

John's 27 years of experience reflect a proven track record on CEI projects. Recently, his SR 60 project was completed 200+ days ahead of schedule (returning \$750,000 of unused CEI funds), was awarded a Davis Award for a \$250,000 cost savings proposal, had an error-free FE package and achieved MC six days before FA. Prior to that project, he managed a 5-year Residency Contract in District 6 as the CEI Resident Engineer, where his team completed over 100 roadway and bridge projects. John also completed serving as SPE on the \$20 million SR 70 reconstruction project in Ft. Pierce. Four of John's recent projects earned FTBA awards.

Senior Project Engineer, FDOT District 4, CEI Services for SR-710/SW Warfield Blvd from East of SR-76 to the Palm Beach/Martin County Line. FIN # 432705-1-62-01 (February 2017 – Present): This \$28M project involves the 5-mile reconstruction of a principal rural arterial from Palm Beach county line to SR76, from a 2-lane undivided roadway to a 4-lane divided roadway. SR710's design will utilize a Plain Cement Pavement (PCP) design: 10" PCP over a 4" asphalt base with adjoining edge-drains and paved asphalt shoulders. Additional improvements for this project will include extensive drainage upgrades, subsoil excavation, construction of a new box culvert with 1000' of MSE walls. The project is located in a highly sensitive environmental area with numerous wetlands and wildlife.

Reference: Chad Rucks, FDOT PM (772) 321-9025

Senior Project Engineer, FDOT District 4: SR-70 from 900' West of Jenkins Rd. to 2000' East of Jenkins Rd., FIN#'s: 42898416201 (April 2015 – Present): This rural project, centrally located within a highly congested section of SR-70, features improvements intended to increase the capacity of the SR-70 corridor in Fort Pierce at a critical juncture to both I-95 and the Florida Turnpike. The scope of work includes the widening of SR-70 to provide four through-lanes, right turn lanes for both approaches of SR-70, dual left turn lanes on SR-70 eastbound and a single left turn lane on SR-70 westbound. Project features include construction of a 36" outfall with wet detention pond, a box culvert extension, installation of dual 60" NSLRWCD culverts, installation of 2 large conflict structures (separating FDOT & NSLRWCD storm-water), construction of a 16' deep sheet pile wall at the perimeter of the NSLRWCD canal, lighting and signalization upgrades and landscaping. Reference: John Spivey, FDOT PM (772) 216-4273

Senior Project Engineer, District 4: S.R. 9/I-95 from North of CR-708 to South of High Meadow Road, Martin County, FIN#: 42973716201 (September 2014 – May 2016): This \$10 million project installs new highway lighting along both sides of the I-95 corridor, including the bridge over the St. Lucie Canal. Bridge work will require minor demolition (deck and railing) to support eight new, bridge-mounted, lighting pedestal foundations. The proposed lighting system will consist of 201 new aluminum poles (standard 50') with 400-watt, high pressure, sodium luminaires. The lighting system will be fed through a series of four service points with 16 separate circuits. Reference: Kandarappallil Jose, PE, FDOT P.M. 772-519-2348.

Senior Project Engineer, District 4: S.R. 70 from Okeechobee County Line to MP 5.871 FIN#: 230262-2-62-01 (12/10 – 10/14): This \$19 million project involves the reconstruction of 6 miles of S.R. 70 to a 4-lane divided roadway. The scope of the project includes extensive earthwork (1.5 mill cy), drainage, excavation of a SFWMD canal and fabric form canal lining. Reference: Chloann Lawrence, P.E., FDOT P.M. 772-201-7907

Senior Project Engineer, District 4: S.R. 60 from 82nd Ave. to 66th Ave., FIN# 228627-1-62-01 (4/08 – 12/10): This \$18 million project involved the reconstruction of the roadway from a 4-lane divided section to a 6-lane divided section of SR 60 in Indian River County. The scope of work on this project involved the construction of 2 large retention ponds (15 acre & 9 acre), extensive drainage upgrades including the piping of the IRFWMD canal with 82" RCP, signalization and lighting upgrades and decorative landscaping. Reference: Dale Walker, FDOT P.M. 772-201-8518

Senior Project Engineer, District 4: Dania Beach Blvd. from U.S. 1 to Cambridge. Ocean Drive (SRA1A) from Cambridge to Sheridan St. (4/07 – 12/08): This project involved widening, reconstruction, milling & resurfacing, drainage, lighting, signalization, and landscaping. John's project administration in this densely populated residential / business corridor involved aggressive public involvement and exhaustive municipal coordination. This project was awarded an FTBA Best in Construction Award. Reference: Maria Connolly, FDOT P.M. 954-776-4300

Resident Engineer, District 6 CEI Residency (2/02 – 4/07): This project involved the oversight and management of a 5-yr Consultant CEI Super Residency contract consisting of multiple simultaneous FDOT construction projects in Miami-Dade County. During this contract over 100 projects were completed. As Resident Engineer, John reported directly to the DCE and manage D-6 work program through the CEI organization consisting of 2 Senior Project Engineers, 3 Project Administrators, 2 Contract Support Specialist, 4 Senior Inspectors, and 6 Inspectors. John oversaw and certified all projects while running several high-profile projects directly. Two of John's notable high-profile projects included: (1) the Verona Bridge Reconstruction in Golden Beach which included the complete reconstruction / replacement of a new bridge. This project included 2 JPAs and a VECP; (2) 79th Street bascule project that includes replacement of both leafs, new motors, full electrical, sub cable replacement, painting. Reference: FDOT Project Manager Isa Nunez, P.E.: 305-986-2551, Mark Croft, PE 305-216-4959

Senior Project Engineer, District 4: SR A1A, Commercial Boulevard (2/01 – 1/02): This two-mile, reconstruction project involves widening, reconstruction, milling & resurfacing, drainage, lighting, signalization, paver brick crosswalks, and landscaping. John's project administration in this densely populated residential / business corridor has involved aggressive public involvement and exhaustive municipal coordination. His proactive problem-solving management style was directly responsible for this project completed ahead of schedule. **Project was awarded an FTBA Best in Construction Award.** Reference: Alaa El-Halwagy, P.E., Resident Engineer 954-958-7632

Senior Project Engineer, District 4: SR A1A from Bougainvillea to Sheridan St. (10/99 – 11/00): The \$6.2 million construction project scope included two miles of widening & resurfacing, drainage, signalization mast arms, decorative street lighting, landscaping, seawall reconstruction and paver brick cross walks. This project was completed 110 days ahead of schedule and achieved a "no-excuse" bonus date. **This project was awarded an FDOT "Team Achievement Award" an FTBA "Best in Construction" Urban Category Award and a final CEI performance grade of 99.0.** The CEI savings realized from early completion was \$100,000. Reference: Melvin Finch, Area Engineer 954-931-6804

Senior Project Engineer, District 4: Claims Review Services (3/99 – 8/99) The CEI contract characteristics included the analysis and negotiation of a claim related to a Broward County project. Reference: Jennifer Olson, P.E., Construction Engineer 945- 486-1400

Senior Project Engineer, District 4: I-75 Alligator Alley Recreational Areas (7/98 – 3/99): This \$3.8 million construction project included extensive earthwork, drainage, picnic pavilions, boat ramps, retaining walls, floating docks, asphalt paving and landscaping. Reference: James Jeffers, P.E., FDOT P.M. 954-958-7632

Senior Project Engineer, District 4: SR 7, from Boulevard of Champions to C-14 Canal (6/96 - 6/98), This SR 7 \$6 million construction project involved two miles of roadway reconstruction and bridge reconstruction, drainage VECP, and extensive landscaping throughout two cities, signalization mast arms, and lighting. Reference: Melvin Finch, Area Engineer 954-931-6804

Project Engineer, District 4: University Dr. Peters Road / SR 84 (6/95 - 6/96)

This project involved one mile of roadway widening and resurfacing, the addition of turn lanes, and signalization. Reference: Mike Schawe, P.M. 954-485-1223

Project Engineer, District 4: Pines Blvd. from Turnpike to University Dr. (1994 - 1995) This \$10 million construction project includes two miles of roadway reconstruction, drainage value engineering cost proposal, numerous joint participation agreement with other agencies involving water and force main installation, grout-injected fabriform lining for SFWMD canal, and replacement/extension of a 96" double-barrel culvert under University Drive. Reference: Mike Schawe, P.M. 954-485-1223



Qualifications Search

Qualifications			
TRAINEE	MATERIAL GROUP	QUALIFICATION	EXPIRATION DATE
H63046164	Management	Final Estimates - Level 1	4/9/2021
H63046164	Management	Final Estimates - Level 2	4/9/2021
H63046164	Management	QC Manager	Does Not Expire

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Experience

45 Years Total,
With CPC since 1983

Education

Land Surveying
Palm Beach Junior
College, 1982

Business Studies,
Broward
Community College, 1979

Certifications

Registered Professional
Surveyor and Mapper
Florida No. 3348

MOT-Intermediate

CSX Roadway Worker
Protective Contactor Safety

Affiliations

ASTM International
E-57 Committee
"3D Imaging Systems"

ASTM International
E-57.04 Sub-Commit.
"Data Interoperability"

ASTM International,
E-57.03 Sub-Commit.
"Best Practices"

FSMS-Florida Surveying
and Mapping Society,
Broward County
Chapter, President and
FSMS Chairman
Education Committee,
1982-1984

NSPS-National Society
of Professional
Surveyors since 1982
(formerly ACSM)

Mr. Cross has managed an extensive list of projects in his 45 years as a Professional Land Surveyor and Mapper (PSM) throughout the state of Florida for both private and governmental clients such as Florida Department of Transportation, AGL/Florida City Gas and Florida Power and Light Company. He has successfully completed survey and mapping work for AGL/Florida City Gas (FCG) projects that included: field data collection of Boundary, Topo, including aboveground and underground utilities, roadway X-Sections, cross-sections (soundings) of canals and ditches. He has also used state-of-the-art GPS systems to as-built horizontal and vertical information for post-construction.

Forum Aventura, This project site is located on West Dixie Highway in the OJUS district in Miami Dade County. The site area is 37,913 square feet (.87 acres) and has a twelve-story office tower, the gross building area is 95,759 square feet. The seven-story parking garage (125,736 sf) has 335 parking spaces. The project consists of residential and commercial space as well. As the engineer of record, CPC provided surveying services, required site planning services, civil engineering permit plans for on-site and off-site improvements, associated permitting and construction phase services for the project.

Gables Aventura, This 16-acre, mixed-use development, includes 400 units, a recreational building with a community swimming pool, a commercial building, a lake system and other amenities. CPC provided design services that included the widening and improvements to approximately 1-mile of West Dixie Highway, NE 202 Street, and NE 26 Avenue. and construction of offsite sidewalks and offsite parking facilities. Scope included data collection, surveying, platting, and construction staking.

Dania Pointe, This 103-acre mixed-use project is located on the East side of I-95 between Stirling Road and Griffin Road in Dania Beach, Florida. This development project consists of almost a million square feet of multi-story retail, restaurants, office, hotel and residential units. The site has multiple parking garages. CPC is providing survey services for Hoar Construction.

Bergeron Park of Commerce & Industrial Parks, This commerce park consists of two major sections and includes Auto Insurance Auctions, Bergeron Distribution Center, Bergeron Office & Retail Plaza and Florida Self Storage. Park North 130-acres, which is primarily zoned for heavier industrial uses; and Park South for more general industrial or commercial uses. While Park North is ideally suited for Build-To-Suit tenants, particularly those requiring outdoor storage, the Master Plan for Park South, 170-acres with over 80 contiguous acres. The Park South plan called for the development, over a projected ten-year period, of an additional one million square feet of dock-height and grade-level industrial/office warehouse buildings. CPC is contracted to provide surveying services for this multi-use Industrial site in West Broward County.

City of Margate Road Bond Project, Broward County, FL. Services provided included planning, engineering, surveying, and construction engineering services for this project. The City of Margate encompasses approximately 9.2 square miles and is located roughly 15 miles north-west of Fort Lauderdale. They are home to nearly 105 acres of parks and operate their own bus transportation system. The City maintains over 100 lane-miles of roads. The City of Margate Roadway Improvement Project is an extensive \$35,000,000 road bond project consisting of three phases for the roadway improvements throughout the City boundaries. Due to the size and complexity of the project scope, the City of Margate decided to phase the project into three specific areas.

SFWMD Levee L-8 Canal and SR-80 (Southern Blvd.), West Palm Beach. Proposed 12" gas main crossing, 7/2015. This project has the widest canal body of water (300') and rights-of-way (500') we have ever worked on for Florida City Gas. Tasks included: Topo for 1500' north and south of the canal along SR-80 and cross-section/soundings the full 500'+ width of the L-8 canal extending beyond the right-of-way. Construction is scheduled to begin this year.

City of Dania Beach, Elevation Certificates, Senior Project Surveyor: This project involved over 75 City-owned buildings/lots that required FEMA Elevation Certificates for insurance and property coverage. This project was completed through the City's Public Services Department.

City of Dania Beach, SW 3rd Avenue and SW 1st Street, Topographic Survey, Senior Project Surveyor: This project involved a topo survey of the intersection of SW 3rd Avenue and SW 1st Street: roadway, above ground improvements, utilities (above and below) for Engineering drainage design.

City of Coconut Creek, Senior Project Surveyor: Zoning site changes for future medical sites along the SR-7/441 corridor. Zoning descriptions entailed boundary research, coordination with Broward County Property Appraisers office along with Senior City Planner for the City of Coconut Creek.

Florida Power and Light, Continuing Surveying Services, Senior Project Surveyor: Boundary, location topographic, hydrographic, and as-built surveys, construction staking, and occasional special projects on an as-needed basis for five of FPL's eight Florida regions, covering Florida's East Coast. Over 130 projects have been completed in the last three (3) years.

Florida City Gas/AGL, Master Services Agreement, 3.5 miles of 8" gas main extension to serve the Miami Dade County Solid Waste Management landfill, Senior Project Surveyor: The gas main extension includes NW 89th Ave from NW South River Drive to NW 93rd Street to NW 87th Avenue then to NW 74th Street along the north 35 feet of the 58th Street Landfill then on NW 97th Avenue. Extensive permitting and topographic survey were required along NW 89th Street to route the pipe so as to not interfere with the storm drainage improvements the City was planning in the near future, and a modification of Conditions under DEP Permit #0065435-004-SF along the property line on NW 74th Street in a dedicated easement. The Natural Gas will be used by Miami-Dade County Resource Recovery Facility (PA77-08) for start-up, shut-down and carbon monoxide control in lieu of propane.

Miami Airport, Five (5) Gate Station surveys: Cutler Ridge, South Miami, West Miami and Medley, Miami-Dade County (MDC), 1/2015. These local sites were chosen by FCG for possible emergency power/generator setups to meet new FEMA standards. Tasks included: Special Purpose Boundary and Topo surveys covering complete sites and adjacent roadway access. Locations were made for all above ground improvements, including FCG on-site piping and other utilities on or near the projects. Property descriptions were provided or derived from county clerk's records files. Vertical control was established and monumented for FCG future generator slab construction. Elevation certificates were issued for any existing structures.

Cutler Ridge PRIM, SFWMD Black Creek Canal (C-1N) and SW-184th Street, and SW 137th Avenue, Miami-Dade County. Proposed 4" PE gas main crossing, 7/2015. This project is unusual because of the right-angle turns needed to connect to the existing gas line along SW 184th Street. Tasks included: Topo along both SW 184th Street and SW 137th Avenue. Cross-section/soundings were taken for the full width of the C-1N canal, and construction is scheduled to begin later this year.

Homestead Southern Expansion, Miami-Dade County (MDC), 12/2014. Proposed 2" gas lines thru-out city. Tasks included: Staking of plat boundaries, block and lot lines between Krome Avenue, NE Washington Avenue and 6th and 8th streets. Locations/as-builts were made for underground gas lines and other adjacent utilities. Easement lines were staked and monumented for existing and future gas line projects.

Miami River Crossing SFRTA/FDOT, Miami-Dade County. Proposed 6" gas main crossing, 12/2014. This project is one of the most complicated projects we have worked on for FCG, in that it crosses a canal, is adjacent to FDOT/CSX railroad and the Miami-Metro mover. Topo/locations were made along the CSX railroad between NW New River Drive and South New River Drive, and cross-sections/soundings were made thru three (3) different lines for the Miami-River, C-4 canal.

Florida Power and Light, Continuing Surveying Services, Senior Project Surveyor: Boundary, location topographic, hydrographic, and as-built surveys, construction staking, and occasional special projects on an as-needed basis for five of FPL's eight Florida regions, covering Florida's East Coast.

FDOT D6, FIN # 24961435201 SR 997 / Krome Ave.; from Kendall Drive to SW 8 ST. (02/2015 – Present), Senior Project Surveyor: This \$60 million job is the largest project within all the planned upcoming jobs for Krome Ave. The total length of the project is about 6 miles and it includes full reconstruction and new construction along Krome Ave.; as well as Tamiami Trail (SW 8 ST). The scope of work is to widen the Krome corridor from an undivided 2 lane road to a 4 lane divided facility (2 lanes each way) and a 40' median as well as a multi-use shared path. The list of activities includes both major roadway and structural components such as: C-4 channel excavation, installation of over 370 new drainage structures, 15,000+ linear feet of French drain, 17,000+ linear feet of solid pipe construction, reconstruction of 2 intersections, new signal and lighting systems with over 260 new light poles and 9 mast arms, 700,000+ CY of surcharge, over 1.1 million CY of embankment, settlement monitoring efforts, geogrid installation, full pavement reconstruction, FDOT PM Jackie Sequeira, PE 305-640-7432.

FDOT D6, SR-907(Alton Rd) from 5th Street to Michigan Avenue and at 5th Street, 10th Street and 14th Street, Miami Beach, FIN# 249911-1-52-01 (January 2013 – Present), Senior Project Surveyor: This 1.3-mile project is one of the most complicated survey drainage-construction projects we have ever worked on. Surveying tasks included control recovery, stationing of baseline, staking of the roadway, bridge, and drainage, as well as related as-builts. Staking of Water-line and Sewer related as-built information and signalization and lighting. Tamayo Engineering is prime and the project engineer is Enrique Tamayo, P.E., (305) 534-5330

FDOT D4, I-95/SR-9, from North of SR-60, Osceola Blvd (MP 6.611) to the Indian River/Brevard County Line, FIN# 413049-2-52-01, MP 19.198 (February 2013 – Present), Senior Project Surveyor: This project is over 12.5 miles long, the longest CEI survey project to date, with 1 minor bridge for reconstruction, roadway widening, milling and resurfacing and drainage. Reference: Karina Enrico-Jackson, P.E., GBFJMT (772) 489-8410

FDOT D4, SR 70 from Okeechobee County line to MP 5.871, FIN# 421695-1-6201, 23062-2-6201 (December 2010 – January 2015), Senior Project Surveyor: This \$4 mill project involves the reconstruction of 6 miles SR 70 to a 4-lane divided roadway. The scope of the project includes extensive earthwork (1.5 mill CY), drainage, excavation of an SFWMD canal and fabricform canal lining. Reference: ChloAnn Lawrence, FDOT Project Manager (772) 201-7907

FDOT D4, I-95/SR 9, from Okeechobee Rd. to South of SR 614 (Indrio Rd.) FIN# 413046-1-62-01, 410717-1-62-01 (March 2011 – 2013), Senior Project Surveyor: This project has 5 bridges for reconstruction, 9 miles of roadway widening, milling and resurfacing and drainage. Reference: Mel Pollock, P.E., Corradino (772) 489-8410

FDOT D4, Senior Project Surveyor / District 4: I-95/SR 9, from South of SR 614 (Indrio Rd) to St. Lucie/Indian River County line, FIN# 413047-1-62-01 (February 2012 – 2013): This project had 1 bridge for major reconstruction, 4 miles of roadway widening, milling and resurfacing, and over a mile of sound walls. Special survey tasks were additional bridge control and deck elevations and sound wall offset control for prime inspectors. Reference: Randall Scott, P.E., AECOM (772) 219-2807

Florida's Turnpike Enterprise, Turnpike and Indiantown Bridge replacement, FIN# 422350-1-62-01, 427709-1-62-01 (November 2011 – 2013), Senior Project Surveyor: This was a bridge replacement project in Palm Beach County over the Turnpike. The scope of the project included toll plaza conversion, new decks, earthwork, and drainage. Special survey tasks related to new bridge height clearance and canal widening. Reference: Joel L. Kauppila, P.E., RS&H (754) 224-0009

FDOT D4, SR5 (US-1) from Indiantown Road to A-1-A, FIN# 417506-1-62-01 (June 2010 – 2012), Senior Project Surveyor: This was a bridge replacement project in Jupiter, Florida over the Lake Worth Creek. The scope of the project included new decks, earthwork, drainage, and re-excavation of the creek. Reference: Timothy R. Barry, P.E., RS&H (561) 745-1061

FDOT D4, Senior Project Surveyor / District 4: SR 60 from 82nd Ave. to 66th Ave., FIN# 22862716201 (April 2008 –December 2010), Senior Project Surveyor: This \$18 million project involved the reconstruction to 6 lanes of SR60 in Indian River County and included extensive drainage, lighting, landscaping and the construction of two off-site 10-acre retention ponds. Reference: Dale Walker, FDOT Project Manager (772) 201-8518

FDOT D4, Dania Beach Blvd from US1 to Cambridge and Ocean Drive (SR A1A) from Cambridge to Sheridan St., FIN# 411432-1-62-01, 228158-1-62-01, 404759-1-62-01 (April 2007-December 2008), Senior Project Surveyor: This project group involved widening, reconstruction, milling & resurfacing, drainage, lighting, signalization, and landscaping. ***The project was awarded an FTBA Best in Construction award.***

References: Tony Piedra P.E., FDOT PM (954) 868-5215; James Jeffers, P.E. (954) 444-5318

FDOT D4, SR A1A, Commercial Boulevard, FIN# 228114-1- 62-01, 228249-1-62-02 (February 2001 – January 2002), Senior Project Surveyor: This two-mile, reconstruction project involved widening, reconstruction, milling and resurfacing, drainage, lighting, signalization, paver brick crosswalks, and landscaping. The project was awarded an **FTBA Best in Construction Award**.

Reference: Alaa El-Halwagy, P.E., FDOT Resident Engineer (954) 958-7632

FDOT D6, Biscayne Boulevard 2 Grouping, FIN# 414624-1-62-01 (June 2008 – November 2001), Senior Project Surveyor: This was a multi-phased project covering several miles; reconstruction project involved widening, reconstruction, milling and resurfacing, drainage, lighting, signalization, paver brick crosswalks, and landscaping.

Reference: Ivan Hay, P.E., FDOT Resident Engineer (305) 470-5457

Turnpike Enterprise: Lake Worth Interchange, FIN# 406144-4-62-01 (October 2009 – December 2010), Senior Project Surveyor: This was an Interchange improvement project covering several miles, reconstruction project involves widening, reconstruction, milling & resurfacing, drainage, lighting, signalization, paver brick crosswalks, and landscaping.

Reference: Adam S. Gosselin, P.E., RS& H (954) 868-1286

Experience

13 Years Total

Education

Bachelor of Science,
Marine Science/Geology
Eckerd College, 2006

License:
Registered Professional
Surveyor & Mapper, FL,
LS7095

Hypack Certified
Hydrographer

Professional & Civic Activities

Florida Surveying &
Mapping Society, Central
Florida Chapter Member

National Society of
Professional Surveyors

Society of Military
Engineers, Space Coast
Chapter

Judd French is the Survey Department Manager at Carnahan Proctor and Cross, Inc. He has over 13 years of experience surveying and mapping industry and over six years utilizing Terrestrial LiDAR Systems. Mr. French has worked all over the country collecting survey data for various types of projects in both the public and private sectors. ***His experience includes collecting GIS database attribute field investigations,*** Boundary, ALTA/NSPA Land Title Surveys, Construction Layout and As-Builts, Subdivision Platting, 3D Laser Scanning, Control Network establishment, Topographic and Hydrographic surveys. In 2016, Mr. French became a licensed Professional Surveyor and Mapper in the State of Florida. Mr. French has given numerous presentations, webinars and training sessions on some of the best practices for Terrestrial LiDAR. Mr. French has successfully conducted thousands of scan positions on various large-scale projects while maintaining a high level of efficiency and meeting the high demands of shortened performance periods.

Cape Canaveral Air Force Station Overall Survey: Mr. French was the Project Manager for an overall survey of Cape Canaveral Air Force Station. He was tasked with collecting all above ground infrastructure, pavement, buildings, and utility indications covering just over 13,000 acres of the installation. On top of the vast area of polygons, polylines, and point features, this task had a performance period of 12 months. Through the use of terrestrial LiDAR, Mr. French was able to collect, register and process all of the data to complete this project. Over 5,200 scans were collected over the initial 8 months of the project and the last four months was utilized to finalize the database. ***The end deliverable for this project was an updated GIS database containing all features correctly located. The project was completed in just over 12 months with minor delays due to massive events (hurricanes) shutting down production throughout the state and the Air Force. The database is currently updated, QA/QC, and delivered. This project received all Very Good Ratings on the Contractor Performance Assessment Report (CPAR) through the Air Force.***

Port Canaveral North Terminal Roadway Survey: Mr. French was the Project Manager who was tasked with updating all locations and topographical data of the roadways at the north cruise terminals at Port Canaveral, Florida. Improvement locations and topographical data was collected at Cruise Terminal 6, 8, and 10. Previously located data from cruise terminal 5 was verified and integrated into the survey. All data was utilized to create a design criteria package for new traffic patterns throughout the 4 terminals to better serve the increasing number of guest departing from Port Canaveral.

Valkaria Airport Runway 14-32: The project is located at Valkaria Airport in Valkaria, Florida, on the east side of the airfield. The overall project primarily involves the topographical survey of asphalt pavements on Runway 14-32. In addition, several taxiways were surveyed to be modified, relocated, or removed in accordance with FAA standards. The existing 4,000-foot-long asphalt Runway 14-32 is marked at 75 feet wide. For much of the length of the runway, the total pavement width is approximately 180 feet. The Topographical Survey was to aid in design efforts to mill and overlay and updated the existing runway and drainage structures.

Patrick Airforce Base Airfield Lighting: Mr. French was the supervisor to multiple field crews who located all runway lighting, signage, and designations at Patrick Air Force Base in Brevard County, FL. Locations of runway improvements were performed on all runways, taxiways, and staging areas of the airfield. All data was compiled into a single CAD drawing for an updated design of the airfields lighting and signage.

Patrick Air Force Base Repair Water Distribution: Mr. French provided construction layout and final as-builts for the repair of the water distribution system at Patrick Air Force Base. Mr. French worked with Integrated Construction Management, Inc. for the repair/replacement of the existing water main on the base.

NASA Kennedy Space Center Revitalize Water and Wastewater: Mr. French provided construction layout and final as-builts for the NASA KSC water and wastewater systems in various portions of the property. Mr. French worked with Core Construction for the installation of the waterline system and wastewater system.

Merritt Square Mall Boundary Survey: Mr. French performed a boundary survey for the Merritt Square Mall. This survey was utilized to subdivide the mall into various outparcels for future development.

Publix, Cocoa Beach ALTA/NSPS Land Title Survey: Mr. French performed an ALTA/NSPS Land Title Survey for the Publix in Cocoa Beach. This survey was utilized for the design/demolition and rebuild of a new 46,000 square foot Publix as well as modifications to the parking and drainage.

Patrick Air Force Base Jurisdictional Boundary Survey: Mr. French performed a boundary and right-of-way survey of Patrick Air Force Base. Mr. French utilized extensive research on the various right-of-way maps along US-1 and Patrick Air Force base to conduct this survey. All data collected and surveyed was utilized to write a legal description for local, state, and federal jurisdictional boundaries. The findings were presented to the various departments and approved.

Brevard County School Security Upgrades: Mr. French performed various boundary surveys at Brevard County schools for security upgrades and fence installations. School: Creel Elementary, Croton Elementary, Ocean Breeze Elementary, Kennedy Middle School, Hans Christian Anderson Elementary, Gemini Elementary,

Rockledge High School Topographic Survey: Mr. French performed a topographic survey of Rockledge high school to assist in resolving stormwater drainage issues throughout the campus.

Palm Bay Regional Park Boundary and Topographic Survey: Mr. French performed a boundary and topographic survey on a portion of Palm Bay Regional Park. The topographic survey was utilized for the design of a new campground area with various utilities throughout the site.

NE 16th Avenue Miami, Florida Topographic Survey: Mr. French performed a topographic and right of way survey of $\frac{3}{4}$ of a mile along Northeast 16th Avenue in Miami, Florida from Northeast 135th street south to Northeast 123rd street. All existing improvements were located along with trees and cross-sections every 50 feet.

NASA Kennedy Space Center Gas Line Repair: Mr. French performed construction staking and as-built services for the repair and re-routing of the new gas lines at NASA's Kennedy Space Center along the crawler way.

Jeremy Jones
3D Laser Scanning/BIM Specialist

Experience

21 Years Total
With CPC since 3/2014

Education

Technical College
of the Lowcountry
Surveying, 2000 - 2002

University of South
Carolina-Aiken
Civil Engineering Tech.,
1994 - 2000

BHS
High School, 1990 – 1993

Mr. Jones' 21 years of experience includes niche expertise in the geospatial industry that includes 3D laser scanning and building information models. He was part of a Harvard/NIST team that created the chapter and addendum to the Building Information Model Guide for the GSA. In addition to being a leader in the geospatial industry, he is also well versed in all aspects of construction. Experience includes GIS, topographic surveys, boundary surveys, ALTA surveys, construction surveys and due diligence reports. These skill sets have been tested in multiple industry sectors ranging from design survey data collection to complex construction as-built verification.

Florida Mall Renovations, Cuhaci & Peterson, CPC was retained to provide our cutting-edge 3D laser scanning services to assist with the interior renovation of the common areas. Utilization of our 3D Scanning will help provide the exact location and dimensions of each storefront, as well as the existing conditions in the common areas of the mall. A much brighter mall with more than a dozen enhanced or newly designed sitting area's will be added to the property, as well as a newly designed experiential children's play area. With over 1.8 million square feet of retail space, CPC's portion of the project is broken up into 5 phases. Field scanning of the entire area consisted of 100's of individual scan locations. All of these scan locations were registered together into a single point cloud model. This information was used to create 3-dimensional models of the floor, storefronts and reflected ceiling plan in AutoCAD format.

Miami Judicial Campus, Delivered 3D laser scan data "as-is" elevation drawings, site maps, and 3D models of the five buildings and surrounding two city blocks in AutoCAD. The project required intense collaboration and technical writing for the NIST and Harvard team that was tasked with monitoring our process and writing the draft chapter/addendum of the guide.

ORMC South Seminole Hospital, The hospital was looking to perform maintenance and also replace several blowers in the MEP rooms. The scan data was used to do a spatial analysis of the proposed areas as well as the ingress/egress of the new equipment to allow for proper pre-fabrication and mobilization. CPC provided Truview for the engineer and owners representative so that they could collaborate and virtually visit the site during team meetings. In addition to the online portal, CPC furnished a detailed 3D model showing structural supports, piping, and mechanical elements.

Water Treatment Facilities, Various FL, CPC was tasked with providing a design survey and boundary survey. Utilizing conventional and laser scanning technologies these sites were completed within a week. The model was then used for facility management planning. Our scan technicians accurately and efficiently captured data in locations where accessibility is difficult and areas are unsafe. The smallest details were captured in highly congested areas. Tanks and basins must be drained, but can be scanned from the exterior. CPC can provide reliable, accurate as-built information for facility upgrades and expansions. 3D laser scanning can aid in the design, construction sequencing, and scheduling, plus reduce change orders. CPC provided a hybrid 2D/3D deliverable in AutoCAD format.

U.S.V.I. Water and Power Authority, St. Thomas & St. Croix, The Water and Power Authority on the islands was in the process of shifting from diesel-fueled generators to natural gas. This process required to design and construction of mounds that would house the tanks along with thousands of feet of piping tie-ins and reroutes. The process also included a state of the art boiler room and gas "burn off" turbine. CPC provided all the georeferenced scan data for the various project teams and worked with local survey vendors to ensure a complete deliverable that met the needs of multiple design disciplines. CPC was retained to provide 3D Laser Scanning services to capture as-built conditions for two (2) of Vitols terminals in the islands. Mr. Jones scanned both terminals utilizing control points that were provided by the Client. Dozens of targets were captured and registered to the point cloud. For our Clients convenience, CPC hosts an online tool that allows the Client to live time access to the project from various viewpoints

Jeremy Jones, Page 2

Sunoco Butane Blending Team, Sunoco has a patented butane blending process that they are selling to their partners in the industry. Firms such as Kinder Morgan, Phillips & Marathon are embracing this process. Our team was tasked with developing corridor surveys for the design of future tanks and piping that would enable Butane to be distributed on these sites. The CPC team would capture the onsite conditions in typically 1-2 days. The scan was requested to rule out tank deformation and the following artifacts of 2" and larger included: piping, pipe supports, bracing, stairs, pipe racks, dike walls, buildings, tanks, concrete pads, light poles and bollards. The data were georeferenced using OPUS observations while onsite. Immediately following the field scans and registration, CPC delivered a TruView solution for the project teams to begin their review and isolate areas for detailed CAD modeling. Once these parameters were relayed, the CPC team modeled and extracted 3D objects for use in Autodesk Civil 3D. The scan data was delivered in a 2D/3D Autodesk hybrid deliverable.

Kennedy Space Center, NASA Mobile Launch Pad 39B, One of the final upgrades to Kennedy Space Center's Pad 39B was contracted to J. P. Donovan. The contract for a new Flame Detector and associated flame trench work was required to help upgrade the pad to deal with the immense thrust of the Space Launch Systems (SLS). Our team was tasked with measuring the Flame Trench Wall surface with required accuracy within 1/4 inch contours. The CPC team would capture the onsite conditions typically in several days. Extensive security, health, and safety training was required and adhered to while on these sites. Immediately following the field scans and registration, CPC delivered a TruView solution for the project teams to begin their review and isolate areas for detailed CAD modeling. Once these parameters were relayed, the CPC team modeled and extracted 3D objects for use in Autodesk Civil 3D. The model also enabled additional work to be captured without revisiting the site.

Kennedy Space Center, Mobile Launch Platform for Ares I-X Rocket Series, NASA, CPC used a 3D HDS, High Definition Laser, for its accuracy and density capabilities to scan the Blast Hole walls of NASA's Mobile Launch Base (MLB) platform for future rocket launches. CPC scanned the 24' x 24' walls at its highest resolution and density, identifying hundreds of prefabricated bolt holes for Met-con, Inc. aerospace project. Detailed CAD drawings of the four walls, some 3D, were generated for Met-Con to fabricate stainless-steel heat shield plates that would insulate its walls during rocket launches. These measurements and drawings assisted the client in drilling the bolt holes in the insulation plates to match the existing steel structure. This met NASA's extremely accurate requirements, three decimal places, for the precision of the placement of the bolts, brackets and insulation plates. This was the first time NASA had used or allowed laser scanning as a data collection solution for measurements on their site. It was not only innovative but it also translated into cost savings for the client for their quality control of the final product.

City of Ormond Beach Water Main Replacement: Mr. Jones provided 3D laser scanning and QA/QC for a survey of approximately 24,500 feet of the proposed City of Ormond Beach water main replacement project. The project included a Control Survey and the determination of apparent Right of way lines. Additionally, a topographic survey was performed locating all drives, sidewalks, hydrants and other features along the route. Fifty-foot cross sections were collected along with additional intersection details. All manholes, invert elevations and sizes were included in the survey.

Florida City Gas/AGL, Master Services Agreement, 3.5 miles of 8" gas main extension to serve the Miami-Dade County Solid Waste Management landfill: The gas main extension includes NW 89th Ave from NW South River Drive to NW 93rd Street to NW 87th Avenue then to NW 74th Street along the north 35 feet of the 58th Street Landfill then on NW 97th Avenue. Extensive permitting and topographic survey were required along NW 89th Street to route the pipe so as to not interfere with the storm drainage improvements the City was planning in the near future, and a modification of Conditions under DEP Permit #0065435-004-SF along the property line on NW 74th Street in a dedicated easement. The Natural Gas will be used by Miami-Dade County Resource Recovery Facility (PA77-08) for start-up, shut-down and carbon monoxide control in lieu of propane.

Merritt Island Pressure Improvement Project, Florida City Gas/AGL: Performed 3D laser scans, registration, cloud clean up, and created a model of major vertical features and a topographic mesh of the North Atlantic Avenue and US A1A intersection. CPC is providing route selection, route surveying and design plans for the installation of an 8-inch steel High-Pressure gas main to be located on North Atlantic Avenue and US A1A from George King Boulevard to SR 520. This project includes close coordination with the City of Cape Canaveral, Brevard County, the City of Cocoa, FDOT and both private and public utilities in the area.

Sunoco Butane Blending Team, Various U.S. Locations, Provided 3D laser scanning support and modeling to document existing site conditions for purposes of re-engineering sites to include the proprietary butane blending process. Digital deliverables included 3D models of piping, supports, buildings, topography, and subsurface features. As the sub-contractor, Jeremy was also responsible for coordination of subsurface crews, soil boring coordination and all matters of health & safety related to these teams.

Jeremy Jones, Page 3

Volume Analysis, Various U.S. Port Locations, Provide ongoing volume analysis of assets for various chemical companies bi-annually along the east and west coast. 3D laser scanning at these facilities allows for a non-contact safer approach and also reduces any facility process downtime. The captured volumes and densities are reported back to the marine insurer and logged for SOX compliance. Reference: John Monticello, Marine Inspection & Logistics (908) 489-5208.

Merritt Island Pressure Improvement Project, Florida City Gas/AGL: Performed 3D laser scans, registration, cloud clean up, and created a model of major vertical features and a topographic mesh of the North Atlantic Avenue and US A1A intersection. CPC is providing route selection, route surveying and design plans for the installation of an 8-inch steel High-Pressure gas main to be located in North Atlantic Avenue and US A1A from George King Boulevard to SR 520. This project includes close coordination with the City of Cape Canaveral, Brevard County, the City of Cocoa, FDOT and both private and public utilities in the area.

YYZ, Toronto Pearson International Airport, Responsible for modeling the terminals baggage handling process area from existing laser scan data. The 3D model was created from over 350 laser scans and included catwalks, MEP, and major supports. The information was to be used in the retrofit of existing baggage handling lines, decommissioning and space analysis for expansion.

Lady Luck Casino, Las Vegas, NV, Performed 3D laser scans of six high-rise buildings. Situated on one city block for proposed renovation/expansion. Scans were both interior and exterior. The deliverable consisted of 2D drawings and 3D models of floor plans, roof details, architectural elevations and reflected ceilings. Reference: Scott Stone, CIM Group (704) 544-5412.

Seelbach Hilton, Louisville, KY, Performed 3D laser scans of the street side facades. The deliverable consisted of two-dimensional drawings of the building elevations with detail dimensioning of several window types. In addition to the exterior facades, the lobby's interior skylight was scanned with no interruption to guests. The intent of the deliverables was to provide a window replacement plan that reflected current style, quantity, and sizing. The deliverables also provided a visual sense of the proposed windows versus existing for review by the historic committee and the general public.

U.S. Customs House, Philadelphia, PA, Performed 3D laser scans of a 17 story building for the purposes of providing an accurate current condition record of the building to aid in repair and alteration. Scans were performed from multiple roof levels to document windows and other architectural elements in greater detail. The deliverable consisted of a BIM and 2D elevation drawings. Reference: Peggy Ho, General Services Administration (202) 208-3256.

Nueces Bay Power Plant, Corpus Christi, TX, Responsible for documenting 800 of 8' diameter cooling tunnels, classified as confined spaces. One day of field scanning produced a 6 mm accurate 3D Model of the tunnel for use in deformation studies as well as plan location horizontally and vertically for use in the engineering documents. Reference: Trisha Elizondo, Topaz Power Group (720) 344-3719.

Dragline #19, Mulberry FL, Responsible for performing 3D laser scans, documenting all booms, cables, and attachment points on the dragline. The purpose of the scans was to create a 3D model for the maintenance team and manufacturer to review. This highly detailed model allowed them to check dimensions and compare to manufacturer specifications for deviations. This process assisted in troubleshooting a vibration concern while isolating downtime to 4 hours for the field scans. The final deliverable was a 3D model in AutoCAD, 2D profile drawings, and a presentation of findings to the team in PowerPoint format.

EGWW River Legend Sculpture, Portland, OR, Responsible for providing laser scan as-built and analysis of existing sculpture. Coordinated structural engineer's analysis of the sculpture. Generate exhibits for art conservator and public involvement. The purpose of this project was to aid in generating a plan for the movement of the sculpture to allow for building renovations. The artist had passed and there were limited notes available on the piece. The move is not expected to go without challenges as it is estimated that the sculpture weighs nearly 5 tons and is carved from 5 separate basalt rocks. One day of field scanning produced precise topography, joint location, crack analysis and sculpture dimensioning that was used to deliver a volume analysis of the sculpture and 3D model. Reference: Story Swett, AIA, General Services Administration (202) 208-3256.

Toll Plaza As-built, Florida's Turnpike Enterprise, Sunrise, FL Pilot project to provide laser scan as-built of existing toll plazas that did not have accurate or up to date drawings. One field day was required to scan an existing toll plaza. No lane closures were required to complete the work and no interruption of service to the public. The final product was a complete 3D model of the plaza along with 2D elevations and cross sections were cut at multiple locations for the client. Reference: Greg Griffin, Florida Turnpike Enterprise (407) 482-6618.

Jeremy Jones, Page 4

FDOT I-4 Ultimate, SGL contracted CPC to verify existing bridge pedestals for this fast-paced construction project. The data allowed the client to check for any inconsistencies from the legacy data. This early exercise allowed them to confront design issues well in advance of material or labor arrival. Deliverable: CPC hosted live meetings where the data was reviewed and analyzed by the entire project team. From these meetings, exhibits were developed and RFI's generated. Providing 3D Laser Scanning services allowed the team to eliminate the possibility of bridge deformation and proper alignment prior to the bridge structure being finalized. In addition to scanning, CPC has also been tasked with processing bridge calculations to produce civil 3D and 2D drawings for end bents, columns, and piers. Reference: Steve Langley, PSM, (813) 493-5651

Florida Turnpike Enterprise (FTE): Resurface and Roadside Improvements MP 181.1 to 185.0 Okeechobee County, MP 178.3 to 181.1 Indian River County, FIN: 43516516201, 43516536201, 43516716201, 43516736201, 43516616201, 43516636201, 43516816201, 43516836201 (July 2017 – On-going): As Senior Project Manager for this Florida Turnpike Enterprise project, Mr. Jones manages surveying services for this project consisting of milling and resurfacing, cross slope corrections, super-elevation corrections, base construction, bridge deck joint replacements and box culvert gunite spall repairs. This project also features safety and design improvement which included drainage, shoulder gutter, guardrail, signage for the Turnpike Mainline (SR 91) from Mile Post 178 – 190 in Indian River and Okeechobee Counties.

Reference: Harold Dubón, P.E., CPC Senior Project Engineer (407) 690-7910.

Florida Turnpike Enterprise (FTE): Widen Beachline (SR 528) from I-4 to Turnpike Mainline, Orange County, FIN# 24060905301 (June 2016 – On-going): As Senior Project Manager for this Florida Turnpike Enterprise project, Mr. Jones manages surveying services for this 4.3-mile project that includes the widening of the Beachline Expressway (SR528) from I-4 to the Turnpike. Construction activities include 2 express lanes and 2 general lanes in both directions to include a 4-ft. buffer, I-4/SR528 widening, and installation of a Mainline Tri-Chord Non-accessible gantry, toll equipment buildings and coordination with toll system equipment contractor. Survey tasks include: the recovery and verification of project survey control and issuing a report to the CEI prime contractor detailing our findings; performing pre-construction cross-sections on 1,000' intervals; issuing sketches and a report on our findings to the prime contractor for their use in confirming quantities; performing cross-section surveys after construction to verify quantities in place. CPC was originally tasked with providing a conventional survey for this highway corridor. We were requested to establish baseline control points, benchmarks, and cross sections at appropriate intervals along the beachline project. This section of roadway had additional structures being added to the corridor and our firm was retained to perform 3D laser scanning of the bridge camber to ensure proper placement.

Reference: Josh Carter, Senior Project Engineer, RK&K (863) 370-9682

Florida Turnpike Enterprise (FTE): Widen Beachline (SR 528) between Florida's Turnpike and McCoy Road, Orange County, FM: 437156-1-62-01 (January 2017 – On-going): As Senior Project Manager for this Florida Turnpike Enterprise project, Mr. Jones performs surveying services for this 4.1-mile project that includes the widening of the Beachline Expressway from McCoy Road to FTE. Survey tasks include verifying control points, set and processed TBM's for all three bridges and one (1) entry ramp.

Reference: Laiquddin Mohammed, P.E., Mehta Consulting (407) 826-1878

FDOT District 5: CEI Group 148-SR 48 E of I-75 FM: 240418-2-62-01 & 433959-1-62-01, Sumter County, 2016 – Ongoing, CPC was retained to provide conventional survey services for this CEI miscellaneous structures contract. Our firm was charged with establishing control of the area and recovering points that were not previously established. In addition to this task, we were also tasked with providing final cross sections of the project.

References: Dan Sokol, PE, Hill International (904) 838-6752

FDOT District 5, I-4 Ultimate, Orange County (August 2017 – On-going): As Senior Project Manager for this project, Mr. Joes manages survey services various Areas including 2 Downtown segments. The downtown Orlando Area 2 stretch of I-4 is home to eight interchanges, including State Road 408. CPC verified existing bridge pedestals for this fast-paced construction project. The data allowed the client to check for any inconsistencies from the legacy data. This early exercise allowed them to confront design issues well in advance of material or labor arrival. Deliverable: CPC hosted live meetings where the data was reviewed and analyzed by the entire project team. From these meetings, exhibits were developed and RFI's were generated. Jeremy is providing on-call 3D Laser Scanning services for various portions of the I-4 Ultimate project including bridges such as; the Kirkman Road Flyover and the 408 Interchange. These services are being provided to assist with design variations and proper alignment prior to the structure being finalized. In addition to scanning, CPC has also been tasked with processing bridge calculations to produce civil 3D and 2D drawings for end bents, columns, and piers.

Reference: Chris Sullivan, SGL (301) 520-0271

ADOLFO J. COTILLA, JR., AIA *Principal-in-Charge/President*

EDUCATION	Master of Fine Arts in Architecture, University of Florida
REGISTRATIONS	Florida Registered Architect License #8011 Florida Certified General Contractor License #CGC010769 New York Registered Architect License #040282 Puerto Rico Registered Architect License #19882 Georgia Registered Architect License #RA012877
PROFESSIONAL	AIA - American Institute of Architects RCI - Roofing Consultants Institute NRCA - National Roofing Contractors Association NTHP - National Trust for Historic Preservation

EXPERIENCE

Adolfo Cotilla has over 39 years of diverse experience in the field of Architecture. Mr. Cotilla earned his Master of Fine Arts in Architecture from the University of Florida. He is a Florida Registered Architect (License number 8011) and a Florida Certified General Contractor (License number CGC010769). He has been consulting, designing and delivering projects since 1979. As Principal in Charge, Mr. Cotilla oversees the management of all assignments for which he is responsible and maintains direct contact with Clients throughout the project duration. His responsibilities include overseeing the project team, reviewing financial project goals, meeting with the Project Managers & project teams, reviewing the schedule and maintaining relationships with the client contacts as well as with the Developer's Project Manager and construction team.

The following is a list of selected project experience:

BROWARD MEDICAL CENTER FACILITY ASSESSMENT

Broward County, Florida

Broward Health Medical Center (North Broward Hospital District) awarded ACAI a contract to perform a facility assessment and facility deficiency correction cost budgets forecast, address general code compliance as of the date built, capacity, conditions and remaining useful life of major infrastructure components based on industry standards. The scope also involved identifying unit costs for significant equipment replacement that does not include a general renovation of the facility to replace the equipment.

The assessment was completed in two phases (A and B). Phase A included assessments on the hospital, Atrium addition, MOB, and CEPs. Phase B was the assessment of the Outpatient Clinics and parking garages on the main site.

The scope of work for this contract consisted of:

- Performing system assessment services to develop current facility condition information that can be used by BHMC facility staff to support timely funding decisions;
- Identifying facility deficiency correction cost budgets that can be prioritized and categorized to maximize repair and replacement efficiencies;
- Developing facility system cost forecast for site infrastructure and building systems through facility's component life-cycle analysis and predictions for a period of ten years; and
- Reviewing code compliance, capacity, condition, useful life, effective maintenance program.

OAKLAND PARK LIBRARY AND FARMERS MARKET FACILITIES ASSESSMENT

Oakland, Florida

The City of Oakland Park needed an architectural firm to perform an assessment the current physical condition and functionality of their existing library and farmers market. ACAI was awarded the contract to perform this task. The goal was to provide the City with a report of our findings including an estimate of probable cost that the City can use to determine whether to renovate, renovate and expand or replace these facilities and how to fund the improvements including a possible bond. The project included meetings with City personnel to obtain current functionality issues and a walkthrough survey to determine the age and physical condition of the buildings including MEP and communication systems. There was also an assessment to see if structural or site conditions warranted a review by a structural and/or civil engineer.

MARQUIS HEALTH SERVICES ALF SURVEYS

Miami-Dade County, Florida

ACAI was contracted by Marquis Health Services to conduct property condition assessment on three of their assisted living centers. The scope of services included reviewing architectural, roofing and programmatic conditions, mechanical, plumbing, fire protection and electrical systems to determine their present conditions and identify items of concern. The work included survey and condition reports.

OAKLAND PARK CITY HALL FACILITY ASSESSMENT

Oakland Park, Florida

ACAI was selected by the City of Oakland to assess the current physical condition and functionality of the existing City Hall building. The goal was to provide the City with a report of our findings including an estimate of probable cost that the City can use to determine whether to renovate, renovate and expand or replace these facilities and how to fund the improvements including a possible bond. The project included meetings with City personnel to obtain current functionality issues and a walkthrough survey to determine the age and physical condition of the building including MEP and communication systems.

OAKLAND PARK PARK FACILITIES AND FIRE STATIONS ASSESSMENT

Oakland Park, Florida

ACAI was selected by the City of Oakland Park to assess the current physical condition and functionality of three (3) existing fire stations and five (5) park facilities. The goal was to provide the City with a report of our findings including an estimate of probable cost that the City can use to determine whether to renovate, renovate and expand or replace these facilities and how to fund the improvements including a possible bond. The project included meetings with the fire marshal and parks/recreation dept personnel to obtain current functionality issues and a walkthrough survey to determine the age and physical condition of the buildings, MEP and communication systems.

TOWN OF MIAMI LAKES PARK BUILDING DAMAGE ASSESSMENT

Miami Lakes, Florida

ACAI was engaged to perform an assessment of hurricane related damages to three buildings located in Miami Lakes Park. The buildings consist of two maintenance buildings and one restroom building. ACAI and its consultants performed non-destructive assessments and reported on the findings. This report served as the basis for the scope of work for the remediation work.

NMB TECHNOLOGY BUILDING ASSESSMENT

North Miami Beach, Florida

ACAI provided architectural pre-design services for the assessment of the existing Technology Building at NSU's NMB campus. Architecture, and MEP/F protection systems facilities assessments were completed. The scope included site visitations and, documentation and schematic drawings.

BROWARD COLLEGE CAMPUS ARCHITECT ADA IMPROVEMENTS

Davie, Florida

As the Campus Architect ACAI provided a variety of services ranging from renovations and additions to a campus-wide ADA review and retrofit.

Projects included the following assignments:

- ADA improvements-Central Campus
- Interior renovation of Building #5, Central Campus
- Feasibility Study to expand existing bookstore service warehouse
- Criminal Justice Department: alterations to outdoor driving course
- Interior finishes to Physical Fitness Training Center
- Site Planning and basic design for Pit Stop
- Exterior improvements to Bailey Hall
- Non-destructive roof survey of Building #5, Central Campus
- Feasibility Study to expand buildings number 18 and 19
- Renovations to Stage Pit, Building #6
- Paint and exterior repairs to Bailey Hall auditorium

NSU ARCHITECTURE/ENGINEERING CONTINUING SERVICES

Multiple Campus Locations

As Campus Architect, ACAI is currently serving in wide repair projects, assessment reports, sketches, re-roofing projects in numerous buildings throughout all of NSU's Campuses through Contract Administration of all vertical construction. Projects include the \$44MM, 800,000 gsf medical campus complex in Davie, Florida. This project had a "Fast-Track", CM with a GMP delivery system and ACAI ensured that this project was delivered two weeks ahead of schedule. Other facilities locations include North Miami Beach, Dania, Fort Lauderdale, Palm Beach Orlando, Tampa, Jacksonville, Ft. Myers and Puerto Rico.

CITY OF PARKLAND FIRE STATION AND PUBLIC WORKS FACILITY

Parkland, Florida

ACAI has been commissioned to provide programming, design, construction documents, specifications, bidding and contract administration services for remodeling of a 3,850 sf one story building and expansion to a 7,500 sf facility to house a Public Works and Fire Station Facility designed as a Category III essential facility. The project will implement LEED design elements only - No certification will be required.

PARKLAND PUBLIC WORKS AND FIRE STATION FACILITY

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BROWARD COLLEGE CENTRAL CAMPUS BUILDING 3 RENOVATIONS

Davie, Florida

ACAI was selected by Broward College to plan and reconfigure some of the existing art studios, photo labs and exhibit spaces in the existing 12,650 sf Fine Arts Building, located on the school's Central campus, to convert them into classrooms. Services include Architectural, Structural, Mechanical, Electrical, Plumbing and Construction Administration. Our original scope of work was then expanded to include renovations to the existing restrooms, ceiling replacement, window replacement, addition of ADA restrooms, redesigning the core building area restrooms, revisions to the outside patio and renovation of the existing lecture hall.

DONALD M. WILKIN, RA, CPTED *Project Manager*

EDUCATION

B.A. Architecture, University of Tennessee, 1983
B.S. Resource Development, University of Rhode Island, 1975
Landscape Design Major, University of Massachusetts

REGISTRATION

Registered Architect in Florida (AR0011619), and North Carolina

CERTIFICATIONS

NCARB Certified
CPTED Certified
Professional Liability Education Program Certificate
Certificate of Wind Load Calculations and Other Wind Issues, University of Florida
Certificate of Wind Load Calculations-Structural Applications, University of Florida

PROFESSIONAL

Former City of Fort Lauderdale Historic Preservation Advisory Board Chair
Tau Sigma Delta Honor Society in Architecture and Allied Arts

EXPERIENCE

Donald Wilkin has over 35 years of diverse experience in the field of architectural design, including educational, commercial, medical, recreational, office, industrial and transportation facilities. Mr. Wilkin has been responsible for various management and technical duties for all architectural projects, including planning, working drawing production and design.

The following is a list of selected project experience:

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cost that the City can use to determine whether to renovate, renovate and expand or replace these facilities and how to fund the improvements including a possible bond. The project included meetings with the fire marshal and parks/recreation dept personnel to obtain current functionality issues and a walkthrough survey to determine the age and physical condition of the buildings, MEP and communication systems.

MALCOLM PIRNIE BCWWS DANIA BEACH ASSESSMENT

Dania Beach, Florida

ACAI proved an assessment and recommendations for the temporary repairs to an existing pre-engineered metal building for Broward County.

RAVENSWOOD BUS MAINTENANCE FACILITY

Dania Beach, Florida

ACAI Associates provided programming, design and construction administration services for the replacement of their Broward County's Ravenswood Bus Maintenance Facility in Dania Beach. The 9-acre site was reconfigured, replacing the existing 1970's structures with new state-of-the-art facilities for current and future needs. When completed, the 214,789 sf facility will accommodate up to 150 fleet vehicles including (130) 40-foot buses and (20) 60-foot articulated buses along with staff and visitor parking, the majority of which will be provided by a new 250 - space multi-level parking garage.

MIAMI-DADE COUNTY FIRE RESCUE STATION 70

Homestead, Florida

ACAI was selected by the Miami-Dade Fire Rescue Department to provide LEED process management services in achieving a LEED silver certification for Fire Station 70. Work included a LEED Credit Assessment, the development of a LEED Implementation Plan, monitoring the documentation process & providing guidance, monitoring design review credits, supervising the contractor with regards to Construction Administration credits, monitoring Construction Administration credits and modeling.

NSU ARCHITECTURE/ENGINEERING CONTINUING SERVICES

Multiple Campus Locations

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Parkland, Florida

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PARKLAND PUBLIC WORKS AND FIRE STATION FACILITY

Parkland, Florida

ACAI provided programming, design, construction documents, specifications, bidding, contract administration and construction management services for remodeling of a 3,850 sf one story building and expansion to 7,500 sf facility to house a Public Works and Fire Station Facility designed as a Category III essential facility.

DONALD M. WILKIN, RA, CPTED *Project Manager*

BROWARD COLLEGE CENTRAL CAMPUS BUILDING 3 RENOVATIONS

Davie, Florida

ACAI was selected by Broward College to plan and reconfigure some of the existing art studios, photo labs and exhibit spaces in the existing 12,650 sf Fine Arts Building, located on the school's Central campus, to convert them into classrooms. Services include Architectural, Structural, Mechanical, Electrical, Plumbing and Construction Administration. Our original scope of work was then expanded to include renovations to the existing restrooms, ceiling replacement, window replacement, addition of ADA restrooms, redesigning the core building area restrooms, revisions to the outside patio and renovation of the existing lecture hall.

GALEN VONGLEICH, RA, LEED AP *Project Architect*

EDUCATION	Master of Architecture, Montana State University Bachelor of Arts in Environmental Design, Montana State University
REGISTRATION	Florida Registered Architect No. 97234
PROFESSIONAL	National Council of Architectural Registration Boards LEED Accredited Professional

EXPERIENCE

Mr. VonGleich has over 13 years of diverse experience in the field of architectural design, including governmental, educational, commercial, medical, office and residential facilities. Mr. VonGleich has been responsible for various management and technical duties for all architectural projects, including planning, working drawing production and design. His focus is providing the utmost satisfactions to the client by ensuring projects are functional, code compliant and that they are completed on time and within the budget. He conducts weekly staff meetings to set production goals on a task-by-task basis. He also reviews the design budget on a bi-weekly basis to verify that the progress being made is consistent with the time charges and will constantly monitor the team's production rate and determine if additional staff is needed to meet the target milestone dates. Additionally, he is responsible for reviewing the project schedule and making periodic updates to reflect milestones & deadlines and control work efforts and budget. Galen earned his Master of Architecture Degree from the Montana State University and is a Florida Registered Architect (License number 97234). Additionally, Mr. VonGleich is a LEED AP.

The following is a list of selected project experience:

MIAMI-DADE COUNTY FIRE RESCUE STATION 70

Homestead, Florida

ACAI was selected by the Miami-Dade Fire Rescue Department to provide LEED process management services in achieving a LEED silver certification for Fire Station 70. Work included a LEED Credit Assessment, the development of a LEED Implementation Plan, monitoring the documentation process & providing guidance, monitoring design review credits, supervising the contractor with regards to Construction Administration credits, monitoring Construction Administration credits and Energy modeling.

RAVENSWOOD BUS MAINTENANCE FACILITY

Dania Beach, Florida

ACAI Associates was selected by Broward County, Florida to provide programming, design and construction administration services for the replacement of their facilities at the Ravenswood Bus Maintenance Facility in Dania Beach, Florida. The 9-acre site will be reconfigured, replacing the existing 1970's structures with new state-of-the-art facilities for current and future needs. When completed, the 214,789 sf facility will accommodate up to 150 fleet vehicles including (130) 40-foot buses and (20) 60-foot articulated buses along with staff and visitor parking, the majority of which will be provided by a new 250 - space multi-level parking garage.

BROWARD MEDICAL CENTER FACILITY ASSESSMENT

Broward County, Florida

Broward Health Medical Center (North Broward Hospital District) awarded ACAI a contract to perform a facility assessment and facility deficiency correction cost budgets forecast, address general code compliance as of the date built, capacity, conditions and remaining useful life of major infrastructure components based on industry standards. The scope also involved identifying unit costs for significant.

equipment replacement that does not include a general renovation of the facility to replace the equipment.

The assessment was completed in two phases (A and B). Phase A included assessments on the hospital, Atrium addition, MOB, and CEPs. Phase B was the assessment of the Outpatient Clinics and parking garages on the main site.

The scope of work for this contract consisted of:

- Performing system assessment services to develop current facility condition information that can be used by BHMC facility staff to support timely funding decisions;
- Identifying facility deficiency correction cost budgets that can be prioritized and categorized to maximize repair and replacement efficiencies;
- Developing facility system cost forecast for site infrastructure and building systems through facility's component life-cycle analysis and predictions for a period of ten years; and
- Reviewing code compliance, capacity, condition, useful life, effective maintenance program.

FXE AIR RESCUE FIRE FIGHTING FACILITY (ARFF)

Fort Lauderdale, Florida

The ARFF is a consolidation of the city's multiple Fire Fighting activities under one roof. Housed in 24,000 square feet of space the facility includes apparatus area, the City's west Emergency Operations Center, and Fire and Rescue Training Facilities. The two-story structure contains fire department related offices, kitchen facilities, and sleeping quarters for 12 firefighters. The facility has been designed to handle airport runway emergencies as well as land side and City fire emergencies and is serviced by an emergency generator to prevent any disruption of service to the community.

CITY OF PARKLAND FIRE STATION AND PUBLIC WORKS FACILITY

Parkland, Florida


ACAI provided programming, design, construction documents, specifications, bidding and contract administration services for remodeling of a 3,850 sf one story building and expansion to a 7,500 sf facility to house a Public Works and Fire Station Facility designed as a Category III essential facility. The project will implement LEED design elements only - No certification will be required.

PARKLAND PUBLIC WORKS AND FIRE STATION FACILITY

Parkland, Florida

ACAI provided programming, design, construction documents, specifications, bidding, contract administration and construction management services for remodeling of a 3,850 sf one story building and expansion to 7,500 sf facility to house a Public Works and Fire Station Facility designed as a Category III essential facility.

THOMAS J. VAGELINE, ASLA *Landscape Architect*



POSITION	Senior Landscape Architect
EDUCATION	Masters Landscape Architecture, University of Illinois Bachelor Landscape Architecture, State University of New York College of Environmental Sciences and Forestry at Syracuse University
REGISTRATION	Registered Landscape Architect: Florida LA0000662
PROFESSIONAL AFFILIATIONS	Member: ASLA American Planning Association Member Florida Planning and Zoning Associations

EXPERIENCE

Thomas J. Vageline has over 35 years of diverse experience in the field of Landscape Architecture including seven years with ACAI. Mr. Vageline has been involved in a broad range of land planning projects in South Florida. Having worked in both the public and private sectors, Mr. Vageline is familiar with a wide range of client needs, project requirements, and processes. He is responsible for preparation and processing of landscape plans; utilizing his knowledge of local, state and federal regulations. He has direct client contact to obtain project input and approvals, responsible for completion of projects on time and within budget.

The following is a list of selected project experience:

PLANNING AND ZONING STUDIES

Miami Beach, Florida

Responsible for the massing studies and graphics for the South Point rezoning efforts of Miami Beach, Florida, generating prototypical plans showing the potential development of the area under the proposed zoning regulations, which were subsequently adopted.

SOUTH POINT PARK

Miami Beach, Florida

Played key role in the site planning of South Point Park in Miami Beach, Florida, involving some 17.5 acres of active and passive recreational land.

SR AIA - ST. LUCIE COUNTY LA CONCEPT DESIGN

Florida Dept. of Transportation District Four

ACAI provided Landscape Architectural services for the Florida Department of Transportation through a prime consulting firm. This project entails providing site inventory/analysis of the existing site and provide a conceptual design.

PINES BOULEVARD CORRIDOR STUDY AND MANUAL OF DESIGN GUIDELINES

Pembroke Pines, Florida

THOMAS J. VAGELINE, ASLA *Landscape Architect*



Responsible for the design character development and public participation process for their 14-mile-long urban/suburban corridor, involving the creation of the image statement for the City of Pembroke Pines, Florida.

DOWNTOWN REVITALIZATION

Hollywood, Florida

In charge of the site planning and landscape architecture of this major renovation of downtown of Hollywood, Florida. The project comprised the total reconstruction of the right-of-way of Hollywood Boulevard from Young Circle west to 21st Avenue. The plan combined the modern day requirements of the area, with the historical character of its founding in the 1920's, with new pavements, lighting, signage, banners, plantings, traffic signals, and parking. A State Route was diverted off of this portion of Hollywood Boulevard to provide a more pedestrian friendly area for the local merchants and citizens.

COMMERCIAL LAND DEVELOPMENT

Fort Lauderdale, Florida

Led the Landscape architectural efforts of the NTS Company in their first two phases of the Lake Shore Plaza Business Center facilities in the Fort Lauderdale Commerce Center. The construction of two buildings on the lake afforded a unique opportunity to blend planting and structure into a site which has several commanding views. With berming, special arrangements of shrubs and trees, and patterned paving, the site take on a prestigious character in keeping with the desires of the client.

BROWARD COUNTY LANDFILL PARK

Davie, Florida

Project Manager for the park conversion of the Broward County landfill in Davie, Florida. Assembled staff from the Town of Davie and the Broward County Parks and Recreation Department to define the goals and objectives of the park. The park is now in operation.

BROWARD COUNTY LANDFILL DISTRICT COURT CASE

Davie, Florida

Provided consulting assistance to the Town of Davie, Florida, in their successful efforts to prevent the expansion of, and close, the 200-acre Broward County Landfill with its jurisdiction.

PUBLIC PARTICIPATION PROCESS: NOMINAL GROUP TECHNIQUE

Lee County, Florida

Responsible for development and conducting the public participation portion of the Kelly Road Park project in Lee County, Florida, using the Nominal Group Technique. The results of this process gained consensus for design of the facility, in keeping with the wishes of area residents.



SECTION 6

Professional Registrations

State of Florida Department of State

I certify from the records of this office that CARNAHAN, PROCTOR AND CROSS, INC. is a corporation organized under the laws of the State of Florida, filed on September 26, 1977.

The document number of this corporation is 547587.

I further certify that said corporation has paid all fees due this office through December 31, 2018, that its most recent annual report/uniform business report was filed on April 10, 2018, and that its status is active.

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

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Sixth day of July, 2018*



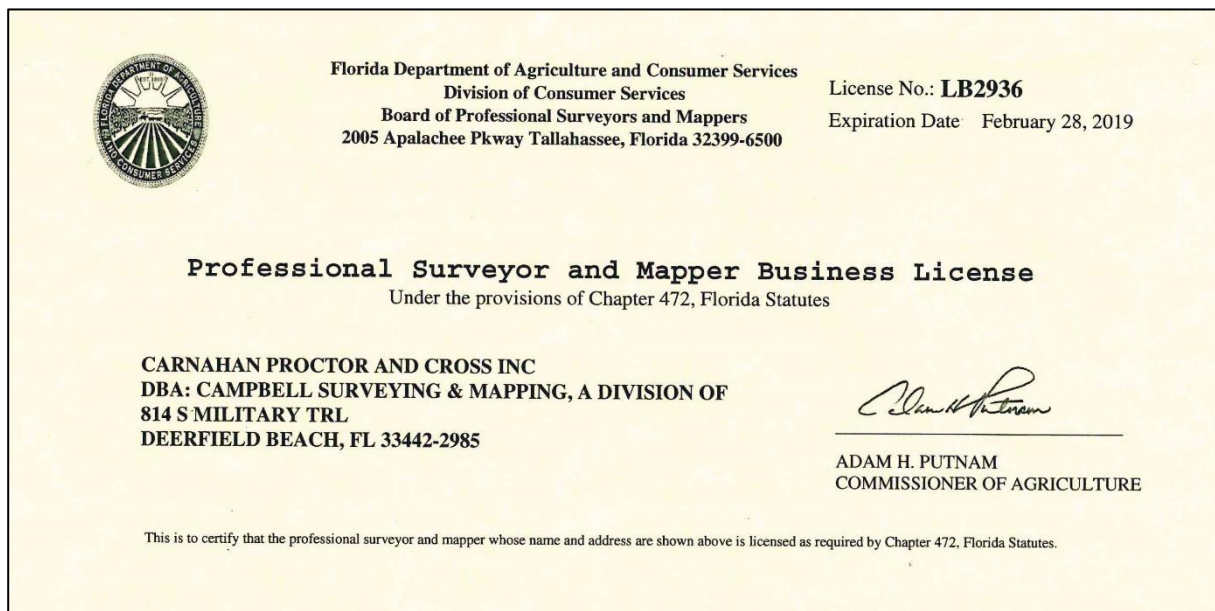
Ken Detjen
Secretary of State

Tracking Number: CU1625131207

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

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

PROFESSIONAL REGISTRATIONS



**BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT**

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-831-4000

VALID OCTOBER 1, 2018 THROUGH SEPTEMBER 30, 2019**DBA:**
Business Name: CARNAHAN PROCTOR & CROSS INC**Receipt #:** 319-3170
Business Type: ALL OTHERS (CORPORATION OFFICE)**Owner Name:** GREGORY M PROCTOR
Business Location: 814 S MILITARY TRL
DEERFIELD BEACH
Business Phone: 954-972-3959**Business Opened:** 07/12/2007
State/County/Cert/Reg: EB2936
Exemption Code:

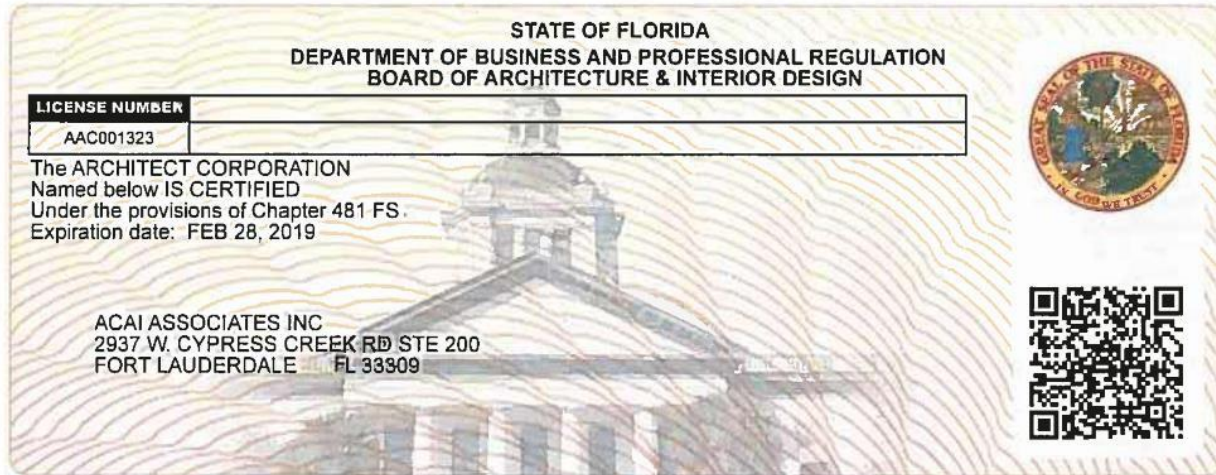
Rooms	Seats	Employees	Machines	Professionals
		8		

For Vending Business Only						
Number of Machines:				Vending Type:		
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
37.50	0.00	0.00	0.00	0.00	0.00	37.50

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS**THIS BECOMES A TAX RECEIPT
WHEN VALIDATED**

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

Mailing Address:CARNAHAN PROCTOR & CROSS INC
814 S MILITARY TRL
DEERFIELD BEACH, FL 33442**Receipt #** 1CP-17-00010459
Paid 07/06/2018 37.50**2018 - 2019**





State of Florida

Minority Business Certification

ACAI Associates, Inc

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

12/22/2016 to 12/22/2018

Chad Poppell, Secretary
Florida Department of Management Services



Office of Supplier Diversity • 4050 Esplanade Way, Suite 380 • Tallahassee, FL 32399 • 850-487-0915 • www.dms.myflorida.com/osd



GREEN BUILDING CERTIFICATION INSTITUTE

HEREBY CERTIFIES THAT

Galen VonGleich

HAS ACHIEVED THE DESIGNATION OF

LEED® ACCREDITED PROFESSIONAL

BY DEMONSTRATING THE KNOWLEDGE OF GREEN BUILDING PRACTICE
REQUIRED FOR SUCCESSFUL IMPLEMENTATION OF THE LEADERSHIP IN ENERGY
AND ENVIRONMENTAL DESIGN (LEED®) GREEN BUILDING RATING SYSTEM™.



Chairman

June 6, 2009

Date Issued

Peter Templeton, President

Printed on 50% bamboo fibers / 50% post-consumer fibers with vegetable based inks.

**BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT**

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-831-4000
VALID OCTOBER 1, 2017 THROUGH SEPTEMBER 30, 2018

DBA:
Business Name: COTILLA ADOLFO JR

Receipt #: 316-389
Business Type: ARCHITECT (ARCHITECT CORP)

Owner Name: ACAI ASSOCIATES INC
Business Location: 2937 CYPRESS CREEK RD 200
FT LAUDERDALE
Business Phone: 954-484-4000

Business Opened: 03/01/1987
State/County/Cert/Reg: AR0008011
Exemption Code:

Rooms

Seats

Employees

8

Machines

Professionals

For Vending Business Only						
Number of Machines:				Vending Type:		
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
37.50	0.00	0.00	0.00	0.00	0.00	37.50

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

**THIS BECOMES A TAX RECEIPT
WHEN VALIDATED**

AUG 17
RECEIVED
ACAI ASSOC.
INC.

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

Mailing Address:

ACAI ASSOCIATES INC
2937 CYPRESS CREEK RD #200
FORT LAUDERDALE, FL 33309

Receipt # 1CP-16-00016725
Paid 07/27/2017 37.50
07/26/2017 Effective Date

2017 - 2018



SECTION 7

Required Forms & Addenda



RFQ 2018-012 Civil Engineering Services

REQUIRED FORMS, PROOF OF INSURANCE and ADDENDA



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
10/5/2018

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

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

PRODUCER Keyes Coverage Insurance 5900 Hiatus Road Tamarac FL 33321		CONTACT NAME: Pam Harding PHONE (A/C No. Ext): 954-724-7000 FAX (A/C No.): 954-724-7010 E-MAIL ADDRESS: pharding@keyescorverage.com															
INSURED Carnahan Proctor & Cross Inc 814 S. Military Trail Deerfield Beach FL 33442		INSURER(S) AFFORDING COVERAGE <table border="1"> <tr> <th>INSURER</th> <th>NAIC #</th> </tr> <tr> <td>INSURER A : Hanover Insurance Company</td> <td>22292</td> </tr> <tr> <td>INSURER B : Admiral Insurance Company</td> <td>24856</td> </tr> <tr> <td>INSURER C : Hanover Amer Ins Co</td> <td>36064</td> </tr> <tr> <td>INSURER D : Bridgefield Employers Ins Co</td> <td>10701</td> </tr> <tr> <td>INSURER E :</td> <td></td> </tr> <tr> <td>INSURER F :</td> <td></td> </tr> </table>		INSURER	NAIC #	INSURER A : Hanover Insurance Company	22292	INSURER B : Admiral Insurance Company	24856	INSURER C : Hanover Amer Ins Co	36064	INSURER D : Bridgefield Employers Ins Co	10701	INSURER E :		INSURER F :	
INSURER	NAIC #																
INSURER A : Hanover Insurance Company	22292																
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INSURER C : Hanover Amer Ins Co	36064																
INSURER D : Bridgefield Employers Ins Co	10701																
INSURER E :																	
INSURER F :																	

COVERAGES		CERTIFICATE NUMBER: 1163881888		REVISION NUMBER:		
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.						
INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC OTHER:	Y Y	ZZJ A804762-02	12/31/2017	12/31/2018	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COM/OP AGG \$ 2,000,000 Ded. None \$
C	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS	Y Y	AZJ A804818-02	12/31/2017	12/31/2018	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 50	Y Y	UJH A804765-03	12/31/2017	12/31/2018	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000 \$
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y N/A	083056388	3/8/2018	3/8/2019	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
B	Professional Liability Claims Made Basis		EO000026443-05	8/19/2018	8/19/2019	Aggregate Each Claim 2,000,000 Retention 25,000
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) Re: RFQ 2018-012						

CERTIFICATE HOLDER	CANCELLATION 30 Days Notice/10 Days for Non-Pay
City of Margate Purchasing Division 5790 Margate Boulevard Margate FL 33063	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

ACORD 25 (2014/01)

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OFFEROR'S CERTIFICATION

WHEN OFFEROR IS A CORPORATION

IN WITNESS WHEREOF, the Offeror hereto has executed this Proposal Form this 8th day of October, 2018.

Carnahan, Proctor and Cross, Inc.

Printed Name of Corporation

Florida

Printed State of Incorporation

By: Greg Proctor

Signature of President or other authorized officer

(CORPORATE SEAL)

GREG PROCTOR

Printed Name of President or other authorized officer

ATTEST:

By _____
Secretary

814 S. Military Trail

Address of Corporation

Deerfield Beach, FL 33442

City/State/Zip

954.972.3959

Business Phone Number

State of Florida

County of Broward

The foregoing instrument was acknowledged before me this 8th day of October,

2018, by Greg Proctor (Name), President (Title) of

Carnahan, Proctor and Cross, Inc. (Company Name) on behalf of the corporation, who is personally known to me or who has produced as identification and who did (did not) take an oath.

WITNESS my hand and official seal.

Mariela Vasquez

NOTARY PUBLIC

Mariela Vasquez

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




OFFEROR'S
QUALIFICATION STATEMENT

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

SUBMITTED TO: City of Margate (Purchasing Manager)

ADDRESS: 5790 Margate Boulevard
Margate, Florida 33063

SUBMITTED BY: 
NAME: Greg Proctor
ADDRESS: 814 S. Military Trail, Deerfield Beach, FL 33442
PRINCIPAL OFFICE: Same as above

CIRCLE ONE

Corporation
Partnership
Individual
Other

1. State the true, exact, correct and complete name of the partnership, corporation, trade or fictitious name under which you do business and the address of the place of business.

The correct name of the Offeror is: Carnahan, Proctor and Cross, Inc.

The address of the principal place of business is: 814 S. Military Trail, Deerfield Beach, FL 33442

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

- a. Date of Incorporation: September 26, 1977
- b. State of Incorporation: Florida
- c. President's name: Greg Proctor
- d. Vice President's name: Greg Proctor
- e. Secretary's name: Greg Proctor
- f. Treasurer's name: Greg Proctor
- g. Name and address of Resident Agent: Greg Proctor
814 S. Military Trail
Deerfield Beach, FL 33442

3. If Offeror is an individual or a partnership, answer the following:
- a. Date of organization: N/A
- b. Name, address and ownership units of all partners:
- N/A
-
-
- c. State whether general or limited partnership: N/A
4. If Offeror is other than an individual, corporation or partnership, describe the organization and give the name and address of principals:
- N/A
-
-
-
5. If Offeror is operating under a fictitious name, submit evidence of compliance with the Florida Fictitious Name Statute. N/A
6. How many years has your organization been in business under its present business name? 20 YEARS
- a. Under what other former names has your organization operated?
- Carnahan, Proctor and Associates, Inc.
- Carnahan and Associates, Inc.
- Daniel Carnahan Consulting Engineers, Inc.
-
7. Indicate registration, license numbers or certificate numbers for the businesses or professions which are the subject of this RFQ. Please attach certificate of competency and/or state registration.
- State of Florida Board of Professional Engineers CA Lic. No. 2936
- Professional Surveyor and Mapper License LB2936
-
-
-

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

NO

9. State the names, telephone numbers and last known addresses of three (3) owners, individuals or representatives of owners with the most knowledge of work which you have performed or goods you have provided, and to which you refer (government owners are preferred as references).

Ronnie Navarro, Deputy Public Services Director, City of Dania Beach, 1201 Stirling Rd, Dania Beach, FL 33004
(name) (address) (phone number) 954.924.6808

Asaad Akar, Sr. Project Manager, City of Coconut Creek, 4800 West Copans, Coconut Creek, FL 33063
(name) (address) (phone number) 954.956.1504

Abert Carbon, Public Works Director, City of Oakland Park, 3650 NE 12th Avenue, Oakland Park, FL 33334
(name) (address) (phone number) 954.630.4458

10. List the pertinent experience of the key individuals of your organization (continue on insert sheet, if necessary).

Site Civil, design, plans review, permitting, cost estimation, bid assistance and construction documents,

construction management and inspections, feasibility studies, traffic engineering, traffic studies,

traffic analysis, Complete Street Local Initiative planning, Public Involvement, Traffic Control Plans,

platting, boundary & topographic survey, as-builts, right-of-way surveying & mapping, 3D laser scanning
& modeling, BIM, in-house FAA certified drone pilot.

11. State the name(s) of the individual(s) who will have personal supervision of the work:

Dan Tintner, P.E., Vice President Government Service/Senior Project Manager

Freddie Varga, P.E. Senior Transportation/Traffic Engineering

CONTRACT.

State of Florida

WITNESS my hand and official seal.

Harold Vasquez B.

 **MARIELA VASQUEZ**
State of Florida-Notary Public
Commission # GG 186522
My Commission Expires
June 10, 2022

Mariela Vasquez

23



NON-COLLUSIVE AFFIDAVIT FOR RFQ 2018-012

State of Florida)

County of Broward) ss:

Greg Proctor, being first duly sworn,
deposes and says that:

He/she is the President (Owner, Partner, Officer, Representative or Agent) of Carnahan, Proctor and Cross, Inc., the Offeror that has submitted the attached Proposal;

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

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

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

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

Signed, sealed, and delivered in the presence of:

Donna D. Magda
Witness

[Signature]
Witness

By [Signature]

Gregory Proctor
Printed Name

President

Title

ACKNOWLEDGMENT
NON-COLLUSIVE AFFIDAVIT FOR RFQ 2018-012

State of Florida)
) ss:
County of Broward)

BEFORE ME, this 8th day of October, 2018, personally
appeared Greg, Proctor, President, (Name(s) of individual(s)
who appeared before notary), and who did/ did not take an oath, and acknowledged
before me that he/she/it executed same.

WITNESS my hand and official seal.

Mariela Vasquez A.
Notary Public
State of Florida at Large

My commission expires:





CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

10/5/2018

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

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

PRODUCER Keyes Coverage Insurance 5900 Hiatus Road Tamarac FL 33321	CONTACT NAME: Pam Harding PHONE (A/C, No, Ext): 954-724-7000 E-MAIL ADDRESS: pharding@keyescoverage.com FAX (A/C, No): 954-724-7010												
INSURED Carnahan Proctor & Cross Inc 814 S. Military Trail Deerfield Beach FL 33442	INSURER(S) AFFORDING COVERAGE <table><tr><td>INSURER A: Hanover Insurance Company</td><td>NAIC # 22292</td></tr><tr><td>INSURER B: Admiral Insurance Company</td><td>24856</td></tr><tr><td>INSURER C: Hanover Amer Ins Co</td><td>36064</td></tr><tr><td>INSURER D: Bridgefield Employers Ins Co</td><td>10701</td></tr><tr><td>INSURER E:</td><td></td></tr><tr><td>INSURER F:</td><td></td></tr></table>	INSURER A: Hanover Insurance Company	NAIC # 22292	INSURER B: Admiral Insurance Company	24856	INSURER C: Hanover Amer Ins Co	36064	INSURER D: Bridgefield Employers Ins Co	10701	INSURER E:		INSURER F:	
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INSURER C: Hanover Amer Ins Co	36064												
INSURER D: Bridgefield Employers Ins Co	10701												
INSURER E:													
INSURER F:													

COVERAGES**CERTIFICATE NUMBER:** 39682458**REVISION NUMBER:**

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC OTHER:	Y	Y	ZZJ A804762-02	12/31/2017	12/31/2018	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 Ded: None \$
C	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS	Y	Y	AZJ A804818-02	12/31/2017	12/31/2018	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ \$0	Y	Y	UHJ A804765-03	12/31/2017	12/31/2018	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000 \$
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N <input type="checkbox"/> N/A	Y	083056388	3/8/2018	3/8/2019	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
B	Professional Liability Claims Made Basis			EO000026443-05	8/19/2018	8/19/2019	Aggregate 2,000,000 Each Claim 2,000,000 Retention 25,000

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

CERTIFICATE HOLDER**CANCELLATION** 30 Days Notice/10 Days for Non-PayLake Worth Drainage District
13081 S. Military Trail
Delray Beach FL 33484

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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ADDENDUM NO. 1

RFQ NO. 2018-012 CITY OF MARGATE CIVIL ENGINEERING SERVICES

October 4, 2018

TO ALL PROPOSERS:

Please incorporate the following clarifications, amendments, deletions, revisions and modifications into the specification packet for the above referenced project. Clarifications, amendments, deletions, revisions, and modifications form part of the Contract Documents and change the original documents only in the manner and extent stated.

QUESTIONS/CLARIFICATIONS

1. For the section **Corporate Qualifications**: How many pages are the limit for the narrative?

Response:

The City has not specifically set a page limit for the narrative. However, the narrative shall be limited to relevant corporate experience within the last five years and a "short description" of the qualifications of personnel to be assigned.

2. Organizational Chart is to be included under the **Project Team** section. Is this chart also part of the Corporate Qualifications section? Part I, item D includes the Organizational Chart as part of the SF330 Forms.

Response:

The Project Team section does stipulate the required submission of an organizational chart. However, the organizational chart, if included as part of the SF330 forms, is not required to be duplicated in the Project Team section.

3. Section **Professional Registrations** include copies of Certificate of Authorization for the Prime and Subconsultants. Could we include under this section the professional licenses and certifications for the team, including proof of M/WBE certificates?

Response:
Yes

4. City Forms: Are City Forms going to be part of the Corporate Qualification section or as a section by itself?

Response:
The submitter shall have the discretionary option of submitting the required City forms under a separate forms tab or in the Corporate Qualifications section.

5. Can we include subconsultant qualifications as part of our submission for purposes of survey and landscape architecture?

Response:
Yes. You may provide qualifications for subconsultants.

6. In the evaluation criteria there are 25 points for references and recent experiences. Will these references be pulled from the SF330 project sheets or would the City like a separate list of references and if so how many?

Response:
Please refer to item 9 on page 22 of the RFQ packet. Additionally, the Selection and Evaluation Committee may at its discretion choose to contact project owners referred to on the SF330 project sheets.

7. In the evaluation criteria there are 30 points for the Technical approach and Methodology. Which section of the RFQ submission would the City like this to be cover? Or would the City like this to be a separate section?

Response:
Information relative to this topic can be included in the Transmittal Letter and/or Corporate Qualifications sections.

Spencer L. Shambray

Spencer Shambray, CPPB
Purchasing Manager
10/4/2018

The RFP submission deadline remains Tuesday, October 9, 2018 at 11:00 A.M. local time.

Please sign and return the acknowledgment page of this addendum by email or by fax. The original acknowledgement page is to be included with your RFQ response.

ACKNOWLEDGEMENT FORM

ADDENDUM NO. 1

RFQ NO. 2018-012

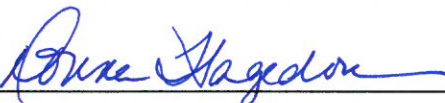
CITY OF MARGATE CIVIL ENGINEERING SERVICES

I acknowledge receipt of Addendum No. 1 for RFQ No. 2018-012, City of Margate Civil Engineering Services. This addendum contains three (3) pages. Please include the original of this form in your RFQ response.

Company Name: Carnahan, Proctor and Cross, Inc.

Address: 814 S. Military Trail, Deerfield Beach, FL 33442

Name of Signer Donna Hagedorn
(please print)

Signature:  Date: 10/5/2018

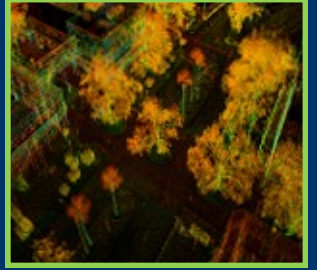
Telephone: 954.972.3959 Facsimile: 954.972.4178

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

Spencer L. Shambray
Spencer Shambray, CPPB
Purchasing Manager
10/4/2018

The RFQ submission deadline remains Tuesday, October 9, 2018 at 11:00 A.M. local time.

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



SECTION 8

References & Other Considerations



REFERENCES & OTHER CONSIDERATIONS



City of Margate, Road Bond Project, Margate, Florida

Total Cost of Project was approximately \$35,000,000

Owner of the Project: City of Margate

Name and telephone number of Contact Person: Samuel A. May, Public Works Director, 954.972.8126



Education Corridor Improvements Phase III on Coconut Creek Parkway, City of Coconut Creek, Florida

Total Cost of Project (CPC's fees) was approximately \$202,295

Owner of the Project: City of Coconut Creek

Name and telephone number of Contact Person: Assad Akar, Sr. Project Manager 954.956.1504



SR AIA Landscaping and Hardscaping Improvements, Town of Lauderdale by the Sea, Florida

Total Cost of Project (CPC's fees) was approximately \$55,000

Owner of the Project: Town of Lauderdale-by-the-Sea

Name and telephone number of Contact Person: Ralph "Bud" Bentley, Town Project Manager, 954.292.5075



Andrews Avenue Extension, Florida

Total Cost of Project (CPC's fees) approximately \$200,000

Owner of the Project: City of Oakland Park

Name and telephone number of Contact Person: Albert J Carbon III, PE, 954.640.4229



West Commercial Boulevard Improvements, Town of Lauderdale by the Sea, Florida

Total Cost of Project (CPC's fees) was approximately \$35,000

Owner of the Project: Town of Lauderdale-by-the-Sea

Name and telephone number of Contact Person: Albert J Carbon III, PE, 954.640.4229



January 6, 2016

To Whom It May Concern

It is my pleasure to provide this letter of recommendation for the services of Carnahan Proctor Cross Inc. (CPC) have provided to the City of Margate. I have known and worked with CPC for many years and found their staff to be well qualified and expedient in providing Engineering, Surveying and Construction Inspection services.

CPC was selected by the City of Margate to perform a diversity of work (Engineering, Surveying and Construction Inspection) in order to assist the City in overseeing the Margate Road Bond Resurfacing Project. This Project was a \$30,000,000 project that included 90 miles of Roadway resurfacing, 20 miles of hot in place road resurfacing, 19 miles of curbing, 15 miles of sidewalk and 400 handicap accessible ramps. CPC was a "perfect fit" to assist us through this complex and lengthy project over a 30 month period. We were very pleased with CPC as an extension of our staff through the complex phases of this project.

I highly recommend CPC to provide Engineering, Surveying and/or Construction Engineering Inspection services to any public or private entity in need of a reputable, responsive and flexible engineering Firm.

Sincerely

Sam May
Public Works Director
City of Margate, Florida

City Commission

Mayor Tommy Ruzzano

Vice Mayor Joyce W. Bryan

Lesa Peerman

Joanne Simone

Frank B. Talerico

City Manager

Douglas E. Smith

City Attorney

Eugene M. Steinfeld

City Clerk

Joseph J. Kavanagh

Public Works Department

102 N. Rock Island Road, Margate, FL 33063 • Phone: (954) 972-8126 • Fax: (954) 972-7586

www.margatefl.com • pwdirector@margatefl.com



OSAMA ELSHAMI, PE, CFM
DEPARTMENT DIRECTOR

March 28, 2016

Re: Letter of Reference for Carnahan Proctor and Cross, Inc.

To Whom It May Concern,

On behalf of the City of Coconut Creek, it is my pleasure to provide this letter of recommendation to Carnahan Proctor Cross (CPC) for Construction Engineering Inspection (CEI) services. I have known and worked with CPC for two years and find their staff to be well qualified and responsive to their client's needs.

In 2013, CPC was selected by the City of Coconut Creek to provide Construction Engineering and Inspection (CEI) services for the Education Corridor Improvements Phase III within the Coconut Creek Parkway right of way. The Project was a Resurfacing, Restoration and Rehabilitation (RRR) project funded by the FDOT through the Local Agency Program (LAP). The construction cost of the project was over \$2,000,000 and it included landscaping, irrigation, sidewalk, drainage, lighting, and signage elements.

In addition to the capable and responsive inspection services provided, the CPC team was also instrumental in assisting us with the complexities of the FDOT's reimbursement process, as well as interfacing with the Broward County Engineering Division on meeting their permit requirements and permit closeout. We were very pleased with CPC in representing the City's interest and attribute their commitment in large for the successful delivery of our project.

I feel confident in highly recommending CPC to provide Construction Engineering Inspection services for similar work. If you need more information or have any questions regarding this reference for CPC, please do not hesitate to contact me at 954-956-1504.

Sincerely

Asaad Akar, P.E.
Senior Project Manager



City of Dania Beach

Department of Public Services

1201 Stirling Road · Dania Beach, FL 33004 · (954) 924-3742 · (954) - 923-1109 (fax)

January 5, 2016

To Whom It May Concern:

I am pleased to provide this letter of recommendation for the services Carnahan, Proctor and Cross, Inc. (CPC), has provided to the City of Dania Beach under their Continuing Services Contract for Engineering Services. As a part of this contract, CPC staff has been expedient and turned around quality deliverables on fast-track projects. Notably, CPC staff has done excellent work for the Dania Beach Blvd lane elimination project (between US1 and SR A1A), wherein CPC staff is working proactively with the City, FDOT and Broward MPO to implement complete streets initiatives to accommodate 7' buffered bike lanes, wider pedestrian sidewalks and bus bays.

Recently, CPC staff has provided quality survey and site civil design permitting and deliverables for two projects involving replacement of deteriorating water main and a second for roadway drainage improvements. CPC prepared a special purpose survey and final design and construction plans for the drainage improvements on SW 3rd Avenue located in the City of Dania Beach. This project included the retrofit design of paving, grading, and drainage improvements to alleviate localized flooding and allow for pedestrian connectivity within downtown Dania Beach. The water main improvement project recently designed and permitted by CPC for NE 2nd Avenue located in the City of Dania Beach required the expedited survey, design, and permitting of a new 6" water main to replace an existing deteriorating iron water main which was under scrutiny from outcry by residents and monitoring by Health Department. CPC has consistently provided timely and accurate services. I enjoy working with the CPC team and strongly recommend their firm for future work.

If you have any questions, please feel free to contact me.

Sincerely,

Ronnie S. Navarro, PE
Deputy Director/City Engineer
954-924-3742



Professional Organizations & Affiliations

*CPC actively supports various professional and community organizations.
We proudly support our industry and the communities we live, work and play.*

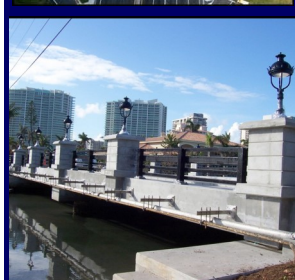
2018 TOP ENGINEERING FIRMS SOUTH FLORIDA

Ranked by South Florida Business Journal

2018 TOP ENGINEERING FIRMS CENTRAL FLORIDA

Ranked by Orlando Business Journal

- ◆ NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS
- ◆ ASCE-AMERICAN SOCIETY OF PROFESSIONAL ENGINEERS
- ◆ ITE-INSTITUTE OF TRANSPORTATION ENGINEERS
- ◆ FES-FLORIDA ENGINEERING SOCIETY
- ◆ ASHE-AMERICAN SOCIETY OF HIGHWAY ENGINEERS
- ◆ FICE-MEMBER OF FLORIDA INSTITUTE OF CONSULTING ENGINEERS
- ◆ PEPP-MEMBER OF PROFESSIONAL ENGINEERS IN PRIVATE PRACTICE
- ◆ ACEC-MEMBER OF AMERICAN COUNCIL OF ENGINEERING COMPANIES
- ◆ FICE-TRANSPORTATION COMMITTEE MEMBER
- ◆ FICE- 3D MODELING DESIGN SUBCOMMITTEE MEMBER
- ◆ FLORIDA SURVEYING AND MAPPING SOCIETY MEMBER
- ◆ FLORIDA CHAMBER OF COMMERCE MEMBER
- ◆ BROWARD LEAGUE OF CITIES ASSOCIATE MEMBER
- ◆ TEAMFL-TRANSPORTATION & EXPRESSWAY AUTHORITY MEMBERSHIP OF FLORIDA
- ◆ FTBA/FDOT CONSTRUCTION CAREER DAYS





Awards and Successful Project Achievements

Our Construction Engineering & Inspection (CEI) Division continues to be acknowledged for their innovative and costs savings initiatives, delivering successful projects on time and within budget.

“Best Urban Project” and “ACAF District Pavement Award”

\$10 million urban roadway grouping SR 834 (Sample Rd.)/SR 7 (441)/ SR 814/(Atlantic Avenue) is located within the municipalities of Margate, Coconut Creek, Coral Springs and Pompano Beach

Nominated for “Prudential Productivity Award” for cost savings

\$4.8M Orange Avenue project consists of shoulder widening and drainage improvements

“Prudential Productivity Award” for cost savings

This \$38 million grouping SR 823 (Red Road / NW 57th Ave) grouping from W 23 ST to W 54 St., located within the City of Hialeah.

“Davis Productivity Award” for cost-saving concepts

\$19 million SR 70 from Okeechobee County Line to MP 5.871

FTBA AWARD “Best in Construction - Major Bridge”

\$30 million Dixie Flyover, CR 811/Dixie Highway from SR 810 to SW 18th St.

“Davis Productivity Award” for cost-saving concepts

\$21 million SR 60 from 82nd Ave to 66th Ave completed 200 days ahead of schedule & within budget, achieved full bonus contractor achieved a full bonus.

FTBA AWARD “Best in Construction”

\$4.5 million A1A Lauderdale By the Sea – completed early, under budget, Final Estimates submitted in 5 days without errors.

FTBA AWARD “Best in Construction”

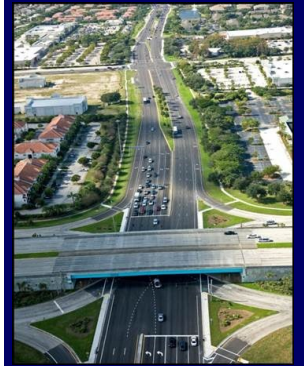
\$6 million US 27 resurfacing project – completed early, under budget and no straightedge penalties.

FTBA AWARD “Utility Coordination”

\$4.7 million A1A from Hollywood Blvd. to Sheridan – completed early, under budget, full bonus; also completed \$6 million A1A from Dania Beach Blvd. to Sheridan – completed early, full bonus.

FTBA AWARD “Best in Construction”

\$5 million US1 from Hollywood to I-595 – completed early





Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

MIKE DEW
SECRETARY

June 26, 2018

Gregory Proctor, President
CARNAHAN, PROCTOR AND CROSS, INC.
814 South Military Trail
Deerfield Beach, Florida 33442

Dear Mr. Proctor:

The Florida Department of Transportation has reviewed your application for prequalification package and determined that the data submitted is adequate to technically prequalify your firm for the following types of work:

- Group 3 - Highway Design - Roadway
 - 3.1 - Minor Highway Design
 - 3.2 - Major Highway Design
- Group 6 - Traffic Engineering and Operations Studies
 - 6.1 - Traffic Engineering Studies
 - 6.2 - Traffic Signal Timing
- Group 7 - Traffic Operations Design
 - 7.1 - Signing, Pavement Marking and Channelization
 - 7.2 - Lighting
 - 7.3 - Signalization
- Group 8 - Survey and Mapping
 - 8.1 - Control Surveying
 - 8.2 - Design, Right of Way & Construction Surveying
 - 8.4 - Right of Way Mapping
- Group 10 - Construction Engineering Inspection
 - 10.1 - Roadway Construction Engineering Inspection
 - 10.3 - Construction Materials Inspection
 - 10.4 - Minor Bridge & Miscellaneous Structures CEI
- Group 13 - Planning
 - 13.3 - Policy Planning
 - 13.4 - Systems Planning

Your firm is now technically prequalified with the Department for Professional Services in the above referenced work types. The overhead audit has been accepted, and your firm may pursue in the referenced work types with fees of any dollar amount. This status shall be valid until June 30, 2019 for contracting purposes.

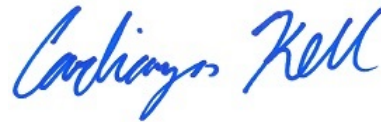
Approved Rates

Home/ Branch Overhead	Field Overhead	Facilities Capital Cost of Money	Premium Overtime	Reimburse Actual Expenses	Home Direct Expense	Field Direct Expense
131.71%	111.06%	0.398%	Reimbursed	No	8.12%	21.99%*

*Rent and utilities excluded from field office rate. These costs will be directly reimbursed on contracts that require the consultant to provide field office.

Should you have any questions, please feel free to contact me by email at carliayn.kell@dot.state.fl.us or by phone at 850-414-4597.

Sincerely,



Carliayn Kell
Professional Services
Qualification Administrator