



CITY OF DELRAY BEACH
100 NW 1st AVENUE, DELRAY BEACH, FL 33444

AGREEMENT FOR PROFESSIONAL SERVICES
RFQ 2017-048 (918-42, 918-89, 906-56)

CARNAHAN, PROCTOR AND CROSS, INC.

**AGREEMENT
FOR
PROFESSIONAL SERVICES (CCNA)**

AGREEMENT NO. RFQ 2017-048 (918-42, 918-89, 906-56)

THIS AGREEMENT is made and entered into this 31st day of August, 2017 (the "effective date"), by and between the **City of Delray Beach**, a Florida municipal corporation (hereinafter referred to as "City"), whose address is 100 NW 1st Avenue, Delray Beach, Florida, 33444, and **Carnahan, Proctor and Cross, Inc.**, a Florida corporation (hereinafter referred to as "Consultant"), whose principal address is 814 S. Military Trail, Deerfield Beach, Florida 33442.

WHEREAS, the City desires to retain the services of the Consultant to provide certain Professional Services in accordance with the City's Request for Qualifications RFQ 2017-048, Continuing Engineering, Surveying, and Landscaping Architectural Consulting Services (918-42, 918-89, 906-56), and the Consultant's response thereto, which are attached hereto and incorporated herein as Exhibit "A".

NOW, THEREFORE, in consideration of the mutual covenants and promises hereafter set forth, the Consultant and the City agree as follows:

ARTICLE 1. INCORPORATION OF REQUEST FOR QUALIFICATIONS

The terms and conditions of this Agreement shall include and incorporate the terms, conditions, and scope of services set forth in the City's Request for Qualifications, RFQ 2017-048, and the Consultant's response to the Request for Qualifications, including all addenda and documentation required thereunder.

ARTICLE 2. SCOPE OF SERVICES

The Consultant shall provide Professional Services to the City, under the following categories of work as defined in the Request for Qualifications:

- a. Category(s)
 - i. Engineering Services
 - ii. Surveying/Mapping Services
 - iii. Landscape Architectural Services

The Consultant shall provide the services on an as-needed and project-by-project basis, based on work requests from City departments through the issuance of Service Authorizations.

ARTICLE 3. COMPENSATION

The City shall pay the Consultant for performing the Services based on the Prices and Rates shown in Exhibit "B", which is attached hereto and incorporated herein.

ARTICLE 4. TERM

The term of this Agreement shall be from the effective date until August 30, 2022, unless terminated beforehand as provided for in Article 5. Nothing contained in the Request for Qualifications or this Agreement shall be construed by the Consultant as a guarantee of work from the City. The City reserves the right to extend the Agreement for one, two-year term, providing all terms conditions and specifications remain the same, both parties agree to the extension, and such extension is approved by the City.

At the City's request, the Consultant shall continue services beyond the final expiration date. This extension period shall not extend for more than one year beyond the final expiration date of the Agreement. The Consultant shall be compensated at the rate in effect when this extension period is invoked by the City.

ARTICLE 5. TERMINATION

a. This Agreement may be terminated by the City, with or without cause, upon providing written notice to the Consultant. This Agreement may be terminated by the Consultant upon thirty (30) days' prior written notice to the City. Upon any such termination, the Consultant waives any claims for damages from such termination, including, but not limited to, loss of anticipated profits. Unless the Consultant is in breach of this Agreement, the City shall pay the Consultant for services rendered through the date of termination in accordance with the terms of this Agreement.

b. The continuation of this Agreement beyond the end of any fiscal year shall be subject to both the appropriation and the availability of funds in accordance with Florida law.

ARTICLE 6. LAW, JURISDICTION, VENUE, WAIVER OF JURY TRIAL

This Agreement shall be interpreted and construed in accordance with and governed by the laws of the state of Florida. All Parties agree and accept that jurisdiction of any controversies or legal problems arising out of this Agreement, and any action involving the enforcement or interpretation of any rights hereunder, shall be exclusively in the state courts of the Fifteenth Judicial Circuit in Palm Beach County, Florida, and venue for litigation arising out of this Agreement shall be exclusively in such state courts, forsaking any other jurisdiction which either party may claim by virtue of its

residency or other jurisdictional device. **BY ENTERING INTO THIS AGREEMENT, SECOND PARTY AND CITY HEREBY EXPRESSLY WAIVE ANY RIGHTS EITHER PARTY MAY HAVE TO A TRIAL BY JURY OF ANY CIVIL LITIGATION RELATED TO THIS AGREEMENT. IF A PARTY FAILS TO WITHDRAW A REQUEST FOR A JURY TRIAL IN A LAWSUIT ARISING OUT OF THIS AGREEMENT AFTER WRITTEN NOTICE BY THE OTHER PARTY OF VIOLATION OF THIS SECTION, THE PARTY MAKING THE REQUEST FOR JURY TRIAL SHALL BE LIABLE FOR THE REASONABLE ATTORNEYS' FEES AND COSTS OF THE OTHER PARTY IN CONTESTING THE REQUEST FOR JURY TRIAL, AND SUCH AMOUNTS SHALL BE AWARDED BY THE COURT IN ADJUDICATING THE MOTION.**

ARTICLE 7. ATTORNEY'S FEES

Any costs or expense (including reasonable attorney's fees) associated with the enforcement of the terms and for conditions of this Agreement shall be borne by the respective Parties, however, this clause pertains only to the Parties to this Agreement.

ARTICLE 8. MISCELLANEOUS PROVISIONS

a. Notice Format. All notices or other written communications required, contemplated, or permitted under this Agreement shall be in writing and shall sent by certified United States Mail, postage prepaid, return receipt requested, or sent by commercial express carrier with acknowledgement of delivery, or by hand delivery with a request for a written receipt of acknowledgment of delivery, addressed to the party for whom it is intended at the place last specified. The place for giving notice shall remain the same as set forth herein until changed in writing in the manner provided in this section. For the present, the Parties designate the following:

As to the City:

City of Delray Beach
100 NW 1st Avenue
Delray Beach, FL 33444
Attn: City Manager

With a copy to:

City of Delray Beach
200 NW 1st Avenue
Delray Beach, Florida 33444
Attn: City Attorney

As to the Consultant:

Carnahan, Proctor and Cross, Inc.
814 S. Military Trail
Deerfield Beach, Florida 33442
Attn: Greg Proctor, President

b. Headings. The headings contained in this Agreement are for convenience of reference only and shall not limit or otherwise affect in any way the meaning or interpretation of this Agreement.

c. The documents listed below are a part of this Agreement and are hereby incorporated by reference. In the event of inconsistency between the documents, unless otherwise provided herein, the terms of the following documents will govern in the following order of precedence:

- i. Terms and conditions as contained in this Agreement.
- ii. Terms and conditions of RFQ 2017-048.
- iii. Consultant's response to RFQ 2017-048 and any subsequent information submitted by Consultant during the evaluation and negotiation process.

(The remainder of this page intentionally left blank)

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the date hereinabove first written.

CITY OF DELRAY BEACH, FLORIDA

By: _____

Cary D. Glickstein, Mayor

ATTEST:

By: _____

Katerri Johnson, City Clerk

**APPROVED AS TO FORM AND
LEGAL SUFFICIENCY**

By: _____

R. Max Lohman, City Attorney

CONSULTANT

By:  _____
GREG PROCTOR P.E.
Title: PRESIDENT

WITNESSES:

By: Maribel Vasquez A.
Print Name: Maribel Vasquez
By:  _____
Print Name: Estela I Renteria



City of Delray Beach
Request for Qualifications No. 2017-048
Continuing Engineering, Surveying and
Landscape Architectural Services



Prepared for:

City of Delray Beach
100 NW 1st Avenue
Delray, Florida 33444

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
Dan.Tintner@carnahan-proctor.com



SECTION 1

Letter of Interest



RFQ No. 2017-048 Continuing Engineering, Surveying and Landscaping Architectural Consulting Services

LETTER OF INTEREST

May 30, 2017

City of Delray Beach
Purchasing Department
100 NW 1st Avenue
Delray Beach, FL 33444

RE: Request for Qualifications - RFQ No. 2017-048

Continuing Engineering, Surveying and Landscape Architectural Consulting 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 Delray Beach with Continuing Engineering and Surveying Consulting Services. ***CPC currently performs under continuing service contracts for neighboring municipalities. We have completed numerous similar local municipalities' projects including the City of Margate, City of Coconut Creek, City of Dania 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 is a multidiscipline firm, and we are prepared to provide professional services in the following categories outlined in your RFQ:

- Civil Engineering
- Surveying and Mapping

We are truly excited about the opportunity and look forward to providing the City of Delray Beach with the benefit of our experience with similar projects. Established in 1977 in Broward County, CPC has been providing professional consulting services for 40 years. We maintain in-house divisions with a team of 80, including registered and licensed Professionals Engineers and Surveyors who focus on design, land planning, civil engineering, construction management and construction engineering and inspection (CEI) services, surveying, mapping (including 3D laser scanning) and other design services.

We will use our knowledge and our longstanding relationships within the industry to help you deliver a successful project, exceeding expectations and serving the community. We look forward to providing high quality services to which our clients have come to expect from CPC. The CPC Team has extensive knowledge and experience in our proposed disciplines that are listed in this RFQ. Our team is committed to providing the highest quality of service to the City, from start of the project, through design and construction until complete project close out.

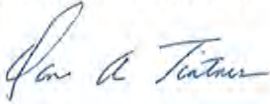
Outlined in this proposal is detailed experience about the individuals on our Team, and the exemplary service we have provided to our clients.

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.

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 to the City, from the start of the project until submittal of the final close out documents.

Sincerely,

Carnahan Proctor and Cross, Inc.



Dan Tintner, P.E.
Director of Municipal Services

Carnahan Proctor and Cross, Inc.



Gregory M. Proctor, P.E.
President/CEO

Form A - Proposal Submittal Signature Page

By signing this Proposal, the Proposer certifies that it satisfies all legal requirements as an entity to do business with the City, including all Conflict of Interest and Code of Ethics provisions.

Firm Name: Carnahan, Proctor and Cross, Inc.

Street Address: 814 S. Military Trail, Deerfield Beach Florida 33442

Mailing Address (if different from Street Address): Same as Above

Telephone Number(s): 954-972-3959

Fax Number(s): 954-972-4178

Email Address: GProctor@cpc-eng.com

Federal Identification Number: 59-1768002

Acknowledged by:

Carnahan, Proctor and Cross, Inc.

Firm Name

Signature

5/15/2017

Date

Greg Proctor, PE President

Printed Name and Title

By signing this document, the Proposer agrees to all terms and conditions of this RFQ which includes the Sample Agreement.

THE EXECUTION OF THIS FORM CONSTITUTES THE UNEQUIVOCAL OFFER OF PROPOSER TO BE BOUND BY THE TERMS OF ITS PROPOSAL. FAILURE TO SIGN THIS SOLICITATION WHERE INDICATED ABOVE BY AN AUTHORIZED REPRESENTATIVE SHALL RENDER THE PROPOSAL NON-RESPONSIVE. THE CITY MAY, HOWEVER, IN ITS SOLE DISCRETION, ACCEPT ANY PROPOSAL THAT INCLUDES AN EXECUTED DOCUMENT WHICH UNEQUIVOCALLY BINDS THE PROPOSER TO THE TERMS OF ITS PROPOSAL.

(Remainder of page intentionally left blank)

Form A - Signature Authority

Indicate below Proposer's type of organization and provide the required documentation as applicable to demonstrate that the executor of Proposer's Proposal is duly authorized to execute on behalf of, and as the official act of, Proposer.

Select	Type of Organization	Officer Who Signed Proposal Submittal Signature Page	Required Authorizing Documentation
☒	Corporation	President, Vice President, or Chief Executive Officer	None
☐	Corporation	Director, Manager, or other title	Corporate resolution
☐	Limited Liability Company (LLC) – Member-Managed	Member	Articles of Organization or Operating Agreement
☐	Limited Liability Company (LLC) – Manager-Managed	Manager	Articles of Organization or Operating Agreement
☐	Limited Partnership	General Partner	Document demonstrating the legal authority to bind the Limited Partnership
☐	Partnership	Partner	None
		CEO, Director, Manager or other title	Authorizing documentation
☐	Individual	Individual	None

☒ Documentation is not required.

☐ The required authorizing documentation is included with Proposal.



SECTION 2

Proposer Statement of Organization



PROPOSER STATEMENT OF ORGANIZATION

- A. Legal Contracting Name:** Carnahan Proctor and Cross, Inc.
- B. State of Organization:** State of Florida, 547587, filed on September 26, 1977
- C. Ownership Structure of Proposer's Company:** State of Florida Corporation
- D. Completed W-9 Included, Federal Identification Number:** 59-1768002
- E. Contact Information for Proposer's Company Headquarters:**
Carnahan Proctor and Cross, Inc.
814 S. Military Trail
Deerfield Beach, Florida, 33442
954.972.3959
- F. Contact Information for Proposer's Local Office:**
a. Same as above
- G. Contact Information for Proposer's Primary Representative during RFQ process:**
Name: Greg Proctor, P.E.
Phone: 954.972.3959
Email: Greg.Proctor@carnahan-proctor.com
814 S. Military Trail
Deerfield Beach, FL 33442
- H. Contact Information for Proposer's Secondary Representative during RFQ process:**
Name: Dan Tintner, P.E.
Phone: 954.593.8774
Email: Dan.Tintner@carnahan-proctor.com
814 S. Military Trail
Deerfield Beach, FL 33442
- I. List of Officers, Owners and/or Partners:**
Gregory Proctor, P.E.
814 S. Military Trail
Deerfield Beach, Florida 33442
954.972.3959

Landon Cross, PSM
814 S. Military Trail
Deerfield Beach, Florida 33442
954.972.3959



J. Litigation Statement:

Carnahan, Proctor and Cross, Inc., hereby certifies that the firm is not in litigation, claims, default or any other kind of dispute relative to providing the services requested herein.

The firm and staff principals have never declared bankruptcy or reorganized under Chapter 11 or been put into receivership. There are no criminal convictions and/or convictions of the firm or its principals. CPC has never been disbarred or suspended from bidding on a procurement project by any government.

The following list summarizes all litigation and/or pending litigation Carnahan, Proctor and Cross, Inc. has been a party to legal action (including arbitration, administrative proceedings, etc.) or lawsuits during the last five (5) years involving a client for claims. Following is a brief legal description of the dispute and its current status.

- 2013 – Inlet Marina of Palm Beach Ltd V. Anderson Moore Construction Corp., et.al. The marina sued all involved in the project over a "Construction Defect". CPC was brought in because we performed the design of the project. The case is still pending.
- 2014 – Parks of Mt. Dora. CPC filed a lien for non-payment of fees, filed a foreclosure action and is currently scheduling mediation.

K. Provide Ownership Changes to Proposer's Organization in the Past Two Years or Changes Anticipated within Six Months of the Due Date

CPC has not had any changes to ownership in the past two years and does not have any mergers, acquisitions, changes in leadership planned.

Request for Taxpayer Identification Number and Certification

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

Print or type See Specific Instructions on page 2.	1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank. Carnahan Proctor and Cross, Inc.	
	2 Business name/disregarded entity name, if different from above	
	3 Check appropriate box for federal tax classification; check only one of the following seven boxes: ☐ Individual/sole proprietor or single-member LLC ☐ Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ Note. For a single-member LLC that is disregarded, do not check LLC; check the appropriate box in the line above for the tax classification of the single-member owner. ☐ Other (see instructions) ▶	
	☐ C Corporation ☒ S Corporation ☐ Partnership ☐ Trust/estate	
	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____ (Applies to accounts maintained outside the U.S.)	
	5 Address (number, street, and apt. or suite no.) 814 S. Military Trail	
	6 City, state, and ZIP code Deerfield Beach, FL 33442	
7 List account number(s) here (optional)		

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the instructions for line 1 and the chart on page 4 for guidelines on whose number to enter.

Social security number								
			-			-		
or								
Employer identification number								
5	9	-	1	7	6	8	0	2

Part II Certification

Under penalties of perjury, I certify that:

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

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

Sign Here Signature of U.S. person ▶ *Donna Hagedorn*

Date ▶ *3-1-2017*

General Instructions

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

Future developments. Information about developments affecting Form W-9 (such as legislation enacted after we release it) is at www.irs.gov/fw9.

Purpose of Form

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

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)

- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

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

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See *What is backup withholding?* on page 2.

By signing the filled-out form, you:

- Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
- Certify that you are not subject to backup withholding, or
- Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
- Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting?* on page 2 for further information.



SECTION 3

Minimum Qualification Requirements



MINIMUM QUALIFICATION REQUIREMENTS

A. **State of Organization:** State of Florida, 547587, filed on September 26, 1977

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, 2016, that its most recent annual report/uniform business report was filed on January 22, 2016, 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 First day of July, 2016*



Ken Detjen
Secretary of State

Tracking Number: CU8457856887

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

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



RFQ No. 2017-048 Continuing Engineering, Surveying and Landscaping Architectural Consulting Services

- B. **City of Deerfield Beach Local Business Tax Receipts:** Established in 1977, CPC has provided professional engineering consulting services for 40 years. Our corporate office has been located in Broward County since 1977. As evidenced by the certificates shown, we have the minimum 24 month requirement

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT
115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 - 954-831-4000
VALID OCTOBER 1, 2016 THROUGH SEPTEMBER 30, 2017

DBA: CARNAHAN PROCTOR & CROSS INC
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: 8 Machines: Professionals:

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 #ICP-15-00011470
Paid 07/12/2016 37.50

2016 - 2017

Business Tax Office
150 NE 2nd Ave.
Deerfield Beach, FL 33441
Phone: (954)480-4333
E-mail: web.btr@deerfield-beach.com



Business Tax Receipt
2016-2017
Receipt Number: 17-00030034
Date Issued: 8/5/2016
Expires: 9/30/2017

CARNAHAN, PROCTOR, AND CROSS,
814 S MILITARY TRL

DEERFIELD BEACH FL 33442

Classification: UNCLASSIFIED 3
Business Location: 814 S MILITARY TRL
Applicant: CONSULTING SRVCS(CIVIL,SURVEY)
Control Number: 0000933

Tax Amount: \$ 117.60	Add. Fees: \$ 146.35	Penalty: \$ 0.00	Total Amount Paid: \$263.95
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Notice: This Tax Receipt becomes **NULL** and **VOID** if ownership, business name, or address changed. Business owner must apply to Business Tax Office for Transfer.



C. Proposers Licenses: Issued by State of Florida

State of Florida

Board of Professional Engineers

Attests that

Carnahan, Proctor And Cross, Inc.



FBPE
FLORIDA BOARD OF
PROFESSIONAL ENGINEERS

Is authorized under the provisions of Section 471.023, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.

Expiration: 2/28/2019

Audit No: 228201902742 R

CA Lic. No:

2936



Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkwy Tallahassee, Florida 32399-6500

License No.: **LB2936**

Expiration Date February 28, 2019

Professional Surveyor and Mapper Business License

Under the provisions of Chapter 472, Florida Statutes

CARNAHAN PROCTOR AND CROSS INC
DBA: CAMPBELL SURVEYING & MAPPING, A DIVISION OF
814 S MILITARY TRL
DEERFIELD BEACH, FL 33442-2985

ADAM H. PUTNAM
COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.



D. Current Individual's Licenses:

Carnahan, Proctor and Cross, Inc., hereby certifies that the firm does not have any conflicts of interest in relation to this RFQ to report.

State of Florida

Board of Professional Engineers

Attests that

Dan Allen Tintner , P.E.



Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2019

Audit No: 228201913256 R

P.E. Lic. No:

39656

State of Florida

Board of Professional Engineers

Attests that

William Rex Barbaro , P.E.



Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2019

Audit No: 228201914445 R

P.E. Lic. No:

64761



RFQ No. 2017-048 Continuing Engineering, Surveying and Landscaping Architectural
Consulting Services



Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkway Tallahassee, Florida 32399-6500

License No.: **LS3348**

Expiration Date February 28, 2019

Professional Surveyor and Mapper License

Under the provisions of Chapter 472, Florida Statutes

LONDON M CROSS
814 S MILITARY TRL
DEERFIELD BEACH, FL 33442-2985

ADAM H. PUTNAM
COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.



Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkway Tallahassee, Florida 32399-6500

License No.: **LS6930**

Expiration Date February 28, 2019

Professional Surveyor and Mapper License

Under the provisions of Chapter 472, Florida Statutes

THOMAS ANTHONY ENGLISH
2400 NE 65TH ST APT 320
FT LAUDERDALE, FL 33308-1566

ADAM H. PUTNAM
COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.



**RFQ No. 2017-048 Continuing Engineering, Surveying and Landscaping Architectural
Consulting Services**

CONFLICT OF INTEREST

CPC has no conflicts of interest with the City of Delray Beach in relation to this RFQ.



SECTION 4

Proposal Response Requirements



A. PROPOSAL RESPONSE REQUIREMENTS

EXPERIENCE, BACKGROUND, REFERENCE FEEDBACK

1. **CIVIL ENGINEERING & CONSTRUCTION ENGINEERING & INSPECTION (CEI)**

CPC understands the need to provide the public with new and upgraded infrastructure, and we have developed a focused team of professionals across disciplines that work in partnership with public sector clients to serve this need. CPC's team of professionals are dedicated to building strong client partnerships and identifying ways to assist our clients in the planning, design, and construction of quality infrastructure solutions by offering customized solutions that are a step beyond conventional problem solving.

CPC staff is providing/provided similar continuing services to other municipalities in South Florida. The municipalities we have served recently include City of Dania Beach, City of Coral Springs, City of Coconut Creek, City of Miramar, Town of Davie, City of Fort Lauderdale, City of Hollywood, City of Hallandale Beach and Seminole Tribe of Florida. Additionally, CPC was recently awarded a continuing engineering services contract with the City of North Lauderdale. We continue to work successfully and maintain a close working relationship with the permitting agencies throughout the state of Florida. We understand the City's vision and mission, and will strive to preserve the City's atmosphere and ensure that quality project completion occurs, while protecting the City's environment and character. We will serve as an extension of the City's staff with highest quality service and proactive communication. In addition to providing numerous municipalities civil engineering services, we have also provided construction management and construction engineering inspection. By being involved in both the design and construction of similar projects, we know how to produce plans that are effective, innovative, and constructible. CPC's experience with Construction Engineering and Inspection (CEI) projects is extensive. We have performed these services to a multitude of municipalities and the Florida Department of Transportation (FDOT). We understand the requirements and processes involved in CEI projects. Our staff has a proven track record in the oversight of Local Agency Projects (LAP), federally funded and ARRA projects. Federal reporting requirements, such as monthly reports of jobs created and jobs retained, will be monitored and input into the federal tracking system. We will also add all pertinent documents to FDOT's LAPIT database.

CPC has the unique opportunity to provide the City with the same high quality team that oversaw the recently completed Coconut Creek, Education Corridor Improvements LAP project, Town of Lauderdale-by-the-Sea, AIA Beautification Project and West Commercial Improvement project. The CPC Team is committed to the highest level of technical professionalism and integrity in the delivery of our services. We believe we offer the City of Delray Beach a great value and cost savings by utilizing our cross-trained staff for dual role positions. Our team members are experienced in all aspects of the proposed work and possess a successful record of performance with LAP projects. We are committed to providing the highest quality of service to the City of Delray from the start of the project until submittal of the final estimate.

Experience with FDOT LAP Programs

As noted above, CPC has performed on numerous LAP projects. CPC understands the hierarchy of the different specifications involved in a lap project. We will make sure the contractor follows them as required: Contract Special Provisions, LAP Big 4 specifications: asphalt, earthwork, concrete and landscaping, county Specifications, FHWA specifications and FDOT applicable specifications and design standards. From our experience with these projects, we have developed the following processes.

Contractor Selection

Bid Review and Award Process: CPC will assist Delray Beach as needed in the bid review process to verify the documentation for completeness and accuracy. Likewise, we will track the deadlines set in the contract to post the official award notice.

Pre-Construction

This step includes execution, NTP, meetings, QC plans, schedule, EEO program, shop drawings, and procurement. After the award notice has been released, our team will start to interact with the contractor to obtain the necessary submittals prior to the pre-construction meeting: CPM Schedule, Shop Drawings, QC plans, EEO program. CPC will also assist Delray Beach to track the deadlines for contract execution date and Notice to Proceed Letter.

Construction

Project Management: CPC will have a pre-construction meeting with Delray Beach to go over the City's preference in regard to communications with the public and other agencies as well project documents sharing capabilities and daily interaction. CPC will be in constant communication with the City's project manager to expedite issue resolution. CPC will provide procedures for CEI, meetings, project documentation, close-out documents including as-built construction plans, warranties, etc.

Specifications: CPC understands the hierarchy of the different specifications involved in a lap project. We will make sure the contractor follows them as required: Contract Special Provisions, LAP Big 4 specifications: asphalt, earthwork, concrete and landscaping, county specifications, FHWA specifications and FDOT applicable specifications, and design standards.

Compliance Plan: CPC will assure all federal requirements in reference to Equal Employment Opportunity (EEO), Disadvantaged Business Enterprises (DBE), Title VI (Non-Discrimination), Davis Bacon (wage rates), Buy America, FHWA 1273 and Americans with Disability Act (ADA) are being met. Winnie will interact with the FDOT oversight EEO liaison to make sure all required documentation is being uploaded into the EOC system.

Maintenance of Traffic (MOT): CPC will review contractor's certifications to make sure the certified personnel are in charge of daily lane closures, ensure contractor has a detailed hurricane plan in effect. Pre-activity meetings will be held for each MOT phase.

Cost Management: CPC' team will review all the documents in advance to look for plan errors or omissions to mitigate all possible contract overruns or change orders. Quantities will be tracked on a daily basis and progress estimates will be ran on a monthly basis. If extra work or change conditions are required, we will have a meeting with the contractor to mitigate impacts to the project. Change orders will be organized and reviewed by the CPC team to facilitate the project manager's review for concurrence. The CPC team will assist Delray Beach in the preparation of the monthly invoices to FDOT.

Time Management: The CPM schedule will be carefully reviewed. An approved baseline will have to be in place prior to starting construction. The CPC team will review the monthly updates for accuracy. Any requests for time extension will be analyzed for entitlement. Weather days will be monitored. We will strive to make sure the contractors end within contract time.

Quality Management: CPC personnel will carry and enforce FDOT's QC/QA guidelines for all construction activities. Ossie will perform quality assurance reviews periodically. The final estimates will be audited by CPC's upper management team to ensure a zero-error audit result. All of our personnel will have the proper certifications and our equipment will be properly calibrated.

Safety: This is one of our main concerns. We will make the contractor takes safety seriously. We will ask them to submit a project safety plan for review. This plan should address roles and responsibility in meeting OSHA requirements.

2. SURVEYING and MAPPING

Every successful design and construction project begins with a complete and accurate survey. Throughout CPC's history, surveying has been an essential part of our services. Our extensive platting, surveying and mapping capabilities and state of the art resources have allowed CPC to successfully complete large and challenging survey projects throughout Florida. With eight field crews available to the City, we have the resources to handle any City assignments. Being near the City's facilities, we can assemble the team you need within 24 hours. Our project manager, Thomas English, PSM, is a seasoned surveyor and project manager who has experience throughout Florida and will provide the commitment and response the City expects.

One of the most important qualities a consultant must possess to provide the highest quality services to your staff, is to have a clear line of communication between the designated staff at the City and CPC's project manager. As a result of working on and managing numerous similar continuing services contracts over the years, Mr. English understands the importance of extensive communication amongst all involved in a project. Our team will be a seamless extension of your staff.

With CPC as part of your team, the City can be assured that the survey team working on your projects has the past experience and local survey knowledge to meet and exceed your expectations. CPC is also contracted to provide on-call continuing surveying services for clients such as FPL, AGL Resources/Florida City Gas, and the Canaveral Port Authority. We have also provided surveying services for the City of Dania Beach, City of Coconut Creek, City of Margate, The School Board of Broward County, South Florida Water Management District, FDOT, The Seminole Tribe of Florida and numerous land development clients throughout South Florida. These contracts have helped solidify the excellent working relationships CPC already enjoys with our clients and have established CPC's reputation of having well-respected and competent survey professionals. This reputation is reflected in our extensive list of repeat clients who call on CPC to be involved with municipalities, FDOT, counties, real estate developers, national and regional homebuilders, residential and commercial land development projects, construction projects, utilities companies, ports and airports, public works and transportation projects to serve local and state agencies.

EXPERIENCE IN OTHER RELATED SERVICES THAT COMPLIMENT PROFESSIONAL SERVICES

3D Laser Scanning/Modeling and BIM, CPC takes pride in staying current with the latest surveying technology available. In addition to state-of-the art conventional surveying equipment, total stations and GPS, CPC is equipped to provide 3D Laser Scanning (terrestrial scanning). This innovative technology allows us to capture interior and exterior conditions with precision. Our equipment captures over 500,000 points per second, which allows for a quick turnaround for the deliverable. Once modeling is complete, clients can access their product through an assigned link on our website. This feature also allows the client to take measurements of the interior and exterior areas and see their project come to fruition. 3D Laser Scanning comes in handy particularly with roadways and intersections, vertical construction and/or renovations. The scans produce highly accurate and complete information, eliminating costly redundant field visits.

CPC has a policy in place to promote a safe and a drug-free work place each and every day. Our field associates are first aid, CPR and OSHA certified. With CPC, the City will have the utmost safety-conscious and professional field associates working on your projects.

AWARDS, CERTIFICATIONS, RECOGNITION

"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.

"Prudential Productivity Award" for cost savings. \$4.8 million Orange Avenue project consists of shoulder widening and drainage improvements.

"Prudential Productivity Award" for cost savings. \$38 million SR 823 (Red Road / NW 57th Ave) grouping from W 23 Street to W 54 Street is located within the City of Hialeah.

"Davis Productivity Award" for cost saving concepts. \$19 million SR 70 from Okeechobee County Line.

FTBA Award "Best in Construction - Major Bridge" \$30 million Dixie Flyover, CR 811/Dixie Highway from SR 810 to SW 18th Street

FTBA Award "Best in Construction" \$4.5 million A1A Lauderdale-by-the-Sea – completed early, under budget, Final Estimates submitted in five days without errors.

FTBA Award "Utility Coordination" \$4.7 million project - A1A from Hollywood Boulevard to Sheridan, completed early, under budget, full bonus; also completed \$6 million A1A from Dania Beach Boulevard to Sheridan, completed early, full bonus.

CPC is pre-qualified with FDOT



- 3.1 Highway Design
- 3.2 Major Highway Design
- 6.1 Traffic Engineering and Operations Studies
- 7.1 Signing, Pavement Marking and Channelization
- 7.2 Lighting
- 7.3 Signalization
- 8.1 Control Survey
- 8.2 Design, Right of Way and Construction Surveying
- 8.4 Right-of-Way Mapping
- 10.1 Construction Engineering and Inspection
- 10.3 Construction Materials Inspections
- 10.4 Minor Bridge and Miscellaneous Structures



Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

JIM BOXOLD
SECRETARY

July 19, 2016

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 qualification package and determined that the data submitted is adequate to technically qualify 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

Your overhead audit has been accepted, enabling your firm to compete for Professional Services projects advertised at the unlimited level, with estimated fees of any dollar amount. This status shall be valid until June 30, 2017 for contracting purposes.

	<u>Home/Branch Office</u>	<u>Field Office</u>	<u>Facilities Capital Cost of Money</u>	<u>Overtime Premium Reimbursed</u>	<u>Direct Expense</u>
Indirect Cost	98.89%	96.74%	0.153%		11.06% (Home) 30.26% (Field)*

*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



RICK SCOTT
GOVERNOR

RECEIVED

FEB 24 2017

February 17, 2017

Caranahan, Proctor & Cross

Mr. Gregory Proctor
Caranahan Proctor and Cross
814 South Military Trail
Deerfield Beach, Florida 33442

Dear Mr. Proctor:

Congratulations on Caranahan Proctor and Cross recently being included in the *South Florida Business Journal's* list of top engineering firms. Businesses provide opportunities for families to live their dreams in our state. Floridians like you are helping make our state the best place in the world to raise a family, have a great career and enjoy a life full of opportunity.

Florida businesses have added more than 1.2 million jobs over the last six years, and our economy is booming because of our continued focus on cutting taxes, reducing burdensome regulations, and fostering an environment where job creators can grow and succeed in Florida. Our "Fighting for Florida's Future" budget continues our hard work and cuts taxes by \$618 million while making strategic investments in areas that are important to families. We will continue to do all we can to secure a bright future for Florida by diversifying the economy and supporting business growth so we can make Florida the global destination for jobs.

Thank you for helping make sure every family has the opportunity to succeed here in the Sunshine State. Please let me know your ideas for how we can continue to fight for Florida's future and ensure our children and grandchildren have the opportunity to succeed in our great state.

Sincerely,

A handwritten signature in blue ink, appearing to read "Rick Scott", written over a large, stylized blue flourish.

Rick Scott
Governor

AWARDS, CERTIFICATIONS, RECOGNITION

Professional Organizations & Affiliations, CPC actively supports various professional and community organizations. We proudly support our industry and the communities we live, work and play. We continue to rank in the Top 25 Engineering Firm Lists.

2016 TOP ENGINEERING FIRMS SOUTH FLORIDA

Ranked by South Florida Business Journal

2016 TOP ENGINEERING FIRMS CENTRAL FLORIDA

Ranked by Orlando Business Journal

- **NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS**
- **AMERICAN SOCIETY OF PROFESSIONAL ENGINEERS**
- **MEMBER OF FLORIDA ENGINEERING SOCIETY**
- **AMERICAN SOCIETY OF HIGHWAY ENGINEERS**
- **MEMBER OF FLORIDA INSTITUTE OF CONSULTING ENGINEERS**
- **MEMBER OF PROFESSIONAL ENGINEERS IN PRIVATE PRACTICE**
- **MEMBER OF AMERICAN COUNCIL OF ENGINEERING COMPANIES**
- **FTBA-TRANSPORTATION COMMITTEE MEMBER**
- **FTBA- 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**
- **MEMBER INTERNATIONAL COUNCIL OF SHOPPING CENTERS**



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



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

CLIENT REFERENCES

City of Coconut Creek

Contact Person: Assad Akar

Contact Email: aakar@coconutcreek.net

Address: 4800 West Copan's Road, Coconut Creek, FL 33063

Telephone: 954-956.1504 Fax: 954.571.4146

Date of Services: 2014-Ongoing

Scope of Work: Full CEI Oversight and Surveying and Mapping



City of Dania Beach

Contact Person: Ronnie Navarro

Contact Email: rnavarro@daniabeachfl.gov

Address: 100 W Dania Beach Boulevard, FL 33004

Telephone: 954-924-6808

Date of Services: 2015-Ongoing

Scope of Work: Civil Engineering, Survey and Mapping and Full CEI Oversight



Town of Lauderdale-by-the-Sea

Contact Person: Ralph "Bud" Bentley, Town Project Manager

Contact Email: BudB@lbts-fl.gov

Address: 4501 Ocean Drive, Lauderdale-By-The-Sea, FL 33308

Telephone: 954-292-5075 Fax: 954-972-7586

Date of Services: 2012-Ongoing

Scope of Work: Full CEI Oversight



Town of Lauderdale-by- the Sea

Contact Person: Albert J Carbon III, P.E.

Contact Email: albertc@oaklandparkfl.gov

Address: 4501 Ocean Drive, Lauderdale-By-The-Sea, FL 33308

Telephone: 954-292-5075

Date of Services: 2014

Scope of Work: Full CEI Oversight



Seminole Tribe of Florida

Contact Person: Fabian Lefler

Contact Email: fabianlefler@semtribe.com

Address: 6300 Stirling Road, Hollywood, Florida 33024

Telephone: 954-899-9121

Date of Services: 2015-Ongoing

Scope of Work: Civil Engineering, Survey and Mapping and Full CEI Oversight

City of Margate

Contact Person: Samuel A. May, City Manager

Contact Email: citymanager@margatefl.com

Address: 102 N. Rock Island Road, Margate, FL 33063

Telephone: 954-972-8126

Date of Services: Project completed: 2011

Scope of Work: Civil Engineering, Survey and Mapping and Full CEI Oversight





10. KEY PERSONNEL

CIVIL ENGINEERING/ CONSTRUCTION ENGINEERING & INSPECTION		
NAME	ROLE	% Time Available
1. Dan Tintner, P.E.	Program Manager	% 65
2. Bill Barbaro, P.E.	Senior Project Engineer	% 65
3. Regina BoBo-Jackson, P.E.	Senior Project Engineer	% 50
4. Lakshmi Kuttiparambil, P.E.	Senior Project Engineer	% 55
5. Terence Castillo, E.I.	Project Engineer	% 65
6. Robert Audette, P.E.	CEI	% 50
7. Anaysis Pombal, P.E.	CEI	% 50
SURVEYING AND MAPPING		
NAME	ROLE	% Time Available
8. Landon Alfie Cross, PSM	Senior Project Surveyor	As Needed
9. Tom English, PSM	Senior Project Surveyor	As Needed
10. Scott Pirtle, PSM	Senior Project Surveyor	As Needed

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 stake holder 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 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 the 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 design of a 35-acre nature center and fresh water 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. 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.

Pines Central Park

A 15-acre planned active use park with amenities including basketball courts, baseball fields and a multi-purpose building in Pembroke Pines. Services provided included: surveying and platting; paving, drainage, water and sewer design; lighting; and construction observation and management.

Tropical Valley Neighborhood Improvement Project

An 80-acre residential and industrial improvement project in Miramar. Services provided included: design for replacement of the existing water distribution system, installation of a gravity sewer system and three sewage lift stations, and retrofitting of drainage systems and roadways; storm water modeling; field investigations for determinate drainage issues; public meetings to address citizen concerns, construction cost estimating to assist with City budgeting; permitting; and construction services for the City of Miramar.

Nob Hill Palms

A 40-acre subdivision which required coordination with the City of Sunrise for the design of roadway plans; paving and drainage design; signing and marking plans; and improvements to 100th Avenue in the town of Davie.

Flamingo Park Expansion

A 25-acre active-use park expansion project along Flamingo Road in Pembroke Pines. The amenities include baseball fields, tot lot, concession building/club house and maintenance building. Services that were provided by Miller Legg include surveying, platting, paving and drainage design, water and sewer design, lighting and construction observation and management.

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 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 included; 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.

Grande Oaks Golf Course and Country Club

This golf course country club project included the complete reconstruction of an existing 180-acre golf facility in Davie. Components included a new 18-hole golf course and maintenance complex, a completely new clubhouse and the addition of a practice facility/golf academy. The project design criteria focused on creating a world-class private golf club while adapting to a complex environmental, archaeological and stormwater drainage issues. Consulting services included site planning, surveying, environmental consulting, engineering services, updating existing infrastructure, stormwater management, archaeological coordination and construction services, assisting with FAA requirements for a helistop.

Coral Cove Elementary Traffic Impact Analysis

Conducted an evaluation of the anticipated traffic impacts within the impacted area in Miramar for a proposed elementary school. The analysis included trip generation and distribution, forecasting future volumes and also visiting similar elementary school sites.

Nova Schools Traffic Study

Extensive study of traffic operations of major educational complex in the Town of Davie, that includes a university, community college, vocational-technical center, high school, middle school and two elementary schools. We studied the operation of access to, and circulation within, the individual campuses and traffic operations at five adjacent traffic signal controlled intersections. In addition, we developed improvements to access and on-site circulation, including separation of student driver, bus, faculty and parent access/parking, improved bus loop designs with increased storage capacity. Numerous turn lane additions/modifications were designed for signalized intersections. Associated timing plan changes were also developed.

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.

Kennedy Space Center Infrastructure Study and Master Plan

Led and developed a study that analyzed the current capacity of the utilities, stormwater management system and transportation infrastructure for the 400 Acre Kennedy Space Center Visitor Complex in Brevard County, Florida. This study included modeling and developing recommendations for improvements to support a 10-year master plan for development of future site improvements and attractions.

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, 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 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 a 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.

Shell Station (Commercial Boulevard) Traffic Engineering Study

Completed traffic engineering study for the redevelopment of the Shell service station at the intersection of Commercial Blvd. and Powerline Road in the City of Oakland Park. The redevelopment of the site included the addition of a convenience market and car wash. The impact of the increased intensity of use on area roadways and intersections was evaluated for peak hour and daily conditions. The sites' access and on-site circulation were also analyzed.

Ravenswood Road Off-Site Airport Parking

This project is part of the firm's continuing contract with the Broward County Aviation Department to provide miscellaneous services for the Airport's major expansion of roadways and parking lots. Services for the Ravenswood Road project include: preparation of final design and construction documents for approximately 2,220 parking spaces for revenue generation and employee parking, replacement roadways, and traffic signals. Miscellaneous site work included: associated drainage, lighting, landscape architecture, signing, toll booths, bus shelters, utility adjustments, design surveys including topographical and tree surveys, maintenance of traffic, and permitting.

NW 5th Avenue Improvements

A 0.6-mile roadway widening and resurfacing project. Services provided included: paving and drainage; sidewalk design; signing and marking; contract administration; and construction monitoring.

Pines Boulevard (SR820) Access/Streetscape Projects

This joint City/FDOT project focused on upgrading a segment of this Principal State Arterial from Douglas Road to Hiatus Road to current access management standards and to provide landscaping and other aesthetic enhancements. Project elements included: median redesign, with closure and channelization of openings, provision of turn lanes, curbing, landscaping, installation of paver treatment and coordination with adjacent land owners. The project also included performing a traffic signal warrant study at the entrance to Pine Lake Center. A signal was subsequently installed at this intersection.

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, 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.

SW 90th Avenue

A 1,300-foot roadway improvements project to alleviate traffic congestion in Cooper City in front of Pioneer Middle School. Services provided included: construction documents for turn lanes; public involvement and close coordination with Cooper City, School Board of Broward County, Broward County Traffic Engineering Division, and other agencies.

Taft Street Improvements

Improvements were made to a one-mile section of Taft Street from Douglas Road west to Palm Avenue in the City of Pembroke Pines. The improvements included: repaving the four-lane divided roadway, widening the existing pavements, adding brick pavers to the medians, filling of the existing drainage canal, construction of a drainage collection system, adding a new curb and gutter, relocation of an existing guardrail, addition of topsoil and sod within the medians, and restriping the roadway. The roadway improvement project is one of numerous roadway improvement projects undertaken within the City limits. Also provided services including cost estimating, roadway design, traffic design, drainage, and landscape architecture.

College Avenue Widening & Improvements

A 1.2-mile urban roadway widening and drainage improvements project adjacent to Broward County's colleges and universities for the Town of Davie. Services provided included: traffic engineering studies; roadway widening; turn lane design; regional drainage collection system; signing and marking; soils testing; surveying; and aerial photogrammetry.

BCAD – Terminal Gate 100

The final design and construction plans were prepared for the new Gate 100 and 101 and replacement roadways, drainage, lighting, signing, utility adjustments and maintenance of traffic. Surveying services included horizontal and vertical control surveys and engineering design surveys.

Air Freight Maintenance Parking Facility

Services for this 100-space parking area including the preparation of final design and construction plans, associated drainage, lighting, signing, utility adjustments, landscape architecture, surveying and maintenance of traffic.

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 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.

Griffin Road Improvements (SR 818)

The project includes Griffin Road Improvements from Hancock Road to SW 136th Avenue in Unincorporated Broward County. Services provided on this urban roadway included: paving and drainage design; environmental impact assessment; signing and marking plans; and permitting.

FDOT IV Yamato Road Outfall

A retrofit of a failed sediment basin in Palm Beach County. The major outfall into the Intracoastal Waterway for this road had been blocked by excessive sediment reposition and mangrove tree encroachment. Services provided included: coordination with local homeowner's associations; coordination with FDOT departments to develop the most streamlined process to quickly and efficiently replace the basin; development of work order plans; and permitting through the U.S. Army Corps of Engineers and the South Florida Water Management District.

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, 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.

Sr. 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 upon 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 lead 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, FL 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. 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. Mr. Barbaro led his CPC 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 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, Mr. Barbaro 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 fulltime 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 - 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 year 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 storm water 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.

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

Lead multi-discipline team of engineers and biologists to perform biological assessment, dredge design, turbidity control, permitting, grant funding coordination, and seagrass mitigation design. As the City of Ft. Lauderdale's costal engineering consultant provide 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 of (3) City Parks - South City Beach Front Park, B.F. James Park, and Joseph Scavo Park, Hallandale Beach, Broward County, Florida: Through coordination with multi-discipline team, develop 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 design 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. 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. Civil Engineer for the project required close coordinate 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 upon detailed knowledge of the City of Deerfield Engineering Standards.

City of Lake Worth 2020 Master Plan Year One Projects 2, 4, and 7, Lake Worth, Palm Beach County, Florida: Project 2 – Tropical Drive and Barton Road Infrastructure Improvement Project; Project 4 – 15th, 16th, 17th Avenue North & Terrace Drive; Project 7 – 22nd Avenue North & North “D” Street: Bill Barbaro, P.E. served as the Engineer of Record (EOR) and performed lead design and management roles for the 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-inch 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 to provide connectivity and increased public safety through traffic calming, roadway improvements, and signing and striping improvements 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. (Individual Experience of Project Manager / Civil Lead Bill Barbaro, P.E.)

Project Manager/ Senior Civil Engineer – City of Boynton Beach - Lake Boynton Estates Utility Improvements, Boynton Beach, Palm Beach County, Florida: Provided 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 effected roadways, and the replacement of removed driveways. As EOR, Bill took part in public meetings to inform the community and address individual issues with residents. He handled day-to-day issues during construction for field adjustments, verification of as-built drawings, review of shop drawings, test results, and pay requests. The project included the coordination with community and school board for relocation of bus stops and mass transit bus stop locations. Bill reviewed and commented on contractor Maintenance of Traffic (MOT) during construction. (Individual Experience of Project Manager / Civil Lead Bill Barbaro, P.E.)

Senior Civil Engineer - Solid Waste Authority - North County Landfill Leachate Force Main (LFM) System Improvements, Palm Beach County, Florida: Bill performed the role of design engineer for the design, bidding, inspection and construction phase services for the installation of approximately 6,000 LF of 8-inch C900 PVC pipe for the extension of the LFM to create an interconnect completing a LFM loop around the landfills connecting four pump stations and providing backup routing for maintenance activities. Design also included the extension of the Class I LFM crossover, which eliminated a low point in the LFM. The project involved the design of clean out vaults and air release vaults where distances exceed 750 linear feet. Performed onsite inspections, review, commented and eventual approval of as-built drawings. (Individual Experience of Project Manager / Civil Lead Bill Barbaro, P.E.)

Senior Civil Engineer - Solid Waste Authority – Dyer Landfill Leachate Force Main Improvements Palm Beach County, Florida: Pursuant to the results of a comprehensive evaluation of the force main system, recommendations were made for initially required improvements that would allow for further investigation into the cause and or location of the blockage in the Dyer Leachate Force Main (LFM). As Design Engineer, Bill completed tasks for the design, bid, and construction phase services for the investigation into the cause of the blockage in the 6-inch HDPE LFM, and the resulting design, bid and construction services for the repair of the blockage, installation of access vaults and air release valves, and vaults to allow for proper routine cleaning and maintenance. The design also included retrofit replacement of the leachate force main crossing of the Florida Turnpike. (Individual Experience of Project Manager / Civil Lead Bill Barbaro, P.E.)

Senior Civil Engineer - Solid Waste Authority RO Plant Feasibility Study and Engineers Estimate of Probable Capital Cost (EEOPCC) – Palm Beach County, Florida: The Solid Waste Authority (SWA) requested an update of a 2009 study that had been completed on potential alternative sources of process water for site facilities. The expiration of a City bulk utility water agreement will cause SWA City water rates to rise. As part of the project team, Bill provided services as a senior reviewer for the project. His design and construction knowledge was used to verify assumptions, proposed design methods, materials, quantities and prices used to generate the Study's Engineers Estimate of Probable Capital Cost. (Individual Experience of Project Manager / Civil Lead Bill Barbaro, P.E.)

Design Manager / Pipeline Engineer - North Regional Pipeline Project – Palm Beach County Water Utilities, Palm Beach County, Florida: As Design Manager and Pipeline Engineer, Bill led the design team for the design and permitting for water and sewer pipelines to provide service from PBCWUD to the Village of Royal Palm Beach area. These water and sewer improvements include a corridor approximately 17 miles long with potable water mains ranging from 12-inches to 24 inches in diameter and wastewater force mains from 10 inches to 20 inches in diameter. Design included coordination with existing utilities including FPL, TECO Gas, Comcast and Level 3 Fiber Optic provider. Water and sewer main design included the evaluation of and design replacement of multiple drainage culverts, one jack and bore and design of a subaqueous crossing of the L-8 Canal. The team provided assistance in permit acquisition through the following regulatory and review agencies: Palm Beach County Water Utility (PBCWU), FDOT, Palm Beach County Health Department/FDEP, Palm Beach County Engineering (right-of-way), SFWMD (Individual Experience of Project Manager / Civil Lead Bill Barbaro, P.E.)

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 effected 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 relocation of bus stops and mass transit bus stop locations. Review and comment on contractor Maintenance of Traffic (MOT) during construction.

City of Lake Worth Utility Engineer, Lake Worth, Palm Beach County, Florida: Under a continuing services contract 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.

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: Through coordination with multi-discipline team, develop 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. To minimize construction costs for the proposed stormwater management system, while maintaining a high level of public safety, two of the three parks were design 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.

Design Engineer - County Line Road Phase 1 & 2, North Springs Improvement District (NSID), Parkland, Broward County, Florida: Led team for design of final plans for paving, grading, drainage, signage and striping design for the County Roadway by phase. Designed layout for water mains, and locations of fire hydrants, based on local and state regulations. Provided coordination with client for re-plat of land, which included designating the necessary locations for utility and drainage easements, as well as required lake and mitigation areas. Coordinated permitting efforts with regulatory agencies. Compiled and submitted information necessary for obtaining the required permits for development. Permits were obtained from the following permitting agencies: South Florida Water Management District, North Springs Improvement District, City of Parkland, Broward County Health Department, and Broward County Department of Natural Resources.

Site Development Permit Review Engineer - North Springs Improvement District (NSID), Parkland, Broward County, Florida: 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.

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 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, 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 of preparing all presentation material, i.e. mailers, brochures and presentations. Started October 2003 and completed 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

11 Years Total

Education

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

Registration

Registered Professional
Engineer - Florida 71628

Lakshmi has more than 11 years of experience in land development and municipal engineering. Her professional experience includes, 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.

Professional Transportation Engineering Consulting Services Contract

Seminole Tribe of Florida, Big Cypress Seminole Indian Reservation: CPC is providing roadway design and site development for this new community located in Big Cypress Seminole Indian Reservation. This 0.43-mile road segment of West Boundary Road. The Right of Way is 50-60 foot and the existing road is unimproved earth road. The new road will provide a 22 foot paved road with sodded shoulders and drainage improvements. CPC is providing surveying, design to include utilities (water and sewer), geotechnical services and grading plans for 1.5-acre home parcels.

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 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 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.

Fort Lauderdale-Hollywood Airport Runway Expansion – NE 10th St & NE 7th Ave Utility Improvements, Dania Beach: Project consists of 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 Sterling Road on a 4-acre site. 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 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 a 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 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 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. 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. Project proposes drainage system consisting of exfiltration trenches to improve the existing flooding condition in the project site.

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 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 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 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 permitting experiences through multiple county and district agencies including 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 use on presentations and demonstrations.

STOF 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.

Sam Jones Road and West Boundary Home Sites, Big Cypress Reservation

A 25 acre site on the Big Cypress Reservation. Services provided included; survey, geotechnical investigation, stormwater analysis and report, cost estimates, roadway plans, water distribution plans, sewer system plans including pump station and lot grading plans.

64th Avenue Roadway Lighting Plans, Hollywood Reservation

Lighting plans for decorative roadway lights, the full length of 64th Avenue within the Hollywood Reservation. Services provided, included geotechnical investigation, structural analysis, photometrics and lighting study, roadway lighting plans and coordination with FPL.

Mabel T Frank Parcel, Big Cypress Reservation

A 50 acre site on the Big Cypress Reservation. Services provided included; survey, geotechnical investigation, stormwater analysis and report, cost estimates, roadway plans, water distribution plans, sewer system plans including pump station and lot grading plans.

New Fortress Energy Traffic Signalization (March 2016 - Ongoing)

This project is located inside a private roadway that leads to a natural gas supplier. Mr. Castillo assisted in preparing the signal design plans and specifications for the NW 72nd Street and LNG Driveway intersection. This project included two strain poles with span wire design signal.

US1 at NE 3rd Street Signal Modification (Jan 2016 – Ongoing)

Mr. Castillo assisted in revising the signal design plans and specifications for the NE 3rd St and N Federal Hwy intersection. The project involved locating existing utilities to prevent any conflict that may occur in the field.

Palm Beach County Traffic Signalization (Dec 2015 - Ongoing)

West Palm Beach, FL

Mr. Castillo assisted in preparing the signal design plans and specifications for the Okeechobee Blvd and Alabama Ave intersection. This intersection is unique since a railroad track is located just east of the intersection. He also assisted in determining mast arm tabulation and pay item quantities using FDOT design standards.

Coral Springs Fire Station No. 95 Signalization (Dec 2015 – Ongoing), 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 (Dec 2015 – Ongoing), 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 research 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.

PSL & Gatlin Traffic Analysis Report Update, City of Port St. Lucie, FL

Mr. Castillo assisted in updating the traffic analysis report using recent crash data and adjusting turning movement counts from 2013 to 2015 with updated lane geometry and the addition of a roundabout. Intersection level of service was determined using Synchro 9 traffic software.

FIU Traffic Signal Timing Synchronization, Miami, FL

Mr. Castillo assisted in optimizing the signal timings in the recently renovated FIU main campus along SW 10th Street at the parking garages 4 & 6 to minimize delay and improve both pedestrian and traffic flow. Using Synchro, the signal timings were able to be implemented during the fall semester 2015.

East Parcel Annex Traffic Impact Study, Palm Springs, FL

Mr. Castillo assisted in conducting a traffic impact study for the existing site's proposed land uses. A trip generation was developed from the proposed land use area taking into account internalization and pass-by-trips. Mr. Castillo performed traffic performance standards analysis to determine if adjacent roadway segments were significant or not. The project traffic was determined to be insignificant, hence no corrective measures were recommended.

Bergeron Spec Warehouse (Dec 2015 – Ongoing), Pembroke Pines, FL

Mr. Castillo assisted with the preparation of the civil engineering plans and details for the Bergeron Spec Warehouse 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 (Dec 2015 – Ongoing), 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 the proposed addition 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 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 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.

Franklin Academy-Flamingo Schott Center Project, Cooper City, FL

Mr. Castillo assisted with the preparation of the civil engineering plans for the charter school located in Cooper City. This project is located on a vacated 27-acre site, of which 10 acres were purchased for this project. This school required a lift station and force main to be designed and permitted. The Cooper City location is currently under construction. Mr. Castillo investigated all on-site existing and proposed drainage, water and sewer plans to assist in the preparation of the engineering drawings for the sanitary plan and profile. He assisted in providing Cooper City a proposed on-site sanitary plan & profile.

Miami-Dade Water and Sewer Department Cleaning and Televising of Small Diameter Sewers, Various Locations – Phase I & II, Miami, FL

Mr. Castillo provided professional engineering services reviewing sanitary sewer pipes and manholes. He assisted in conducting thorough inspections examining a portion of the approximately 150,000 LF of gravity sewer pipes, examining sanitary sewer pipes for defects and maintenance issues such as joint infiltrations, lateral & longitudinal fractures, sag in pipe, root & grease build-up, etc. He assisted in conducting thorough inspections examining a portion of the approximately 852 sanitary manholes for defects and maintenance issues such as fractures on the chimney, cone, wall and bench areas, leakage, root build-up etc., reviewing hundreds of hours of video inspections. Updating and uploading data using Microsoft Excel and Access.

Experience

22 Years Total

Education

B.S. Civil Engineering,
Structures & Construction
Ecole Polytechnique
(University of Montréal),
1994

Pre-stressed Concrete
Graduate Course - McGill
University, 1994

Certifications

CTQP:
TIN: A33076767

Final Estimates Level 1

Final Estimates Level 2

QC Manager

FDOT Advanced Work
Zone Traffic Control

ASBI Grout Training (2004)

FDOT Critical Structures
Construction Issues

Registrations

Professional Engineer:
State of Florida # 61270

Robert has over 20 years of experience in the construction industry. He has worked on various projects with Florida Department of Transportation (FDOT) and Local Agency Participation (LAP) projects for local agencies. Robert has a considerable amount of roadway and bridge construction and rehabilitation projects. Robert's experience includes structural design, specialty inspection of steel, precast, and segmental bridges and extensive CEI work for the FDOT.

Project Administrator, FDOT District 6, Krome Avenue South Group #1, FM No. 249614-3-62-01 (February 2015 – Present): CEI services on this nearly seven-mile segment, from Kendall Drive to north of SW 8th Street. Along with adding a travel lane in each direction, the improvements will divide the road with a median and guardrail, improve stormwater drainage, and add new street lighting and signage. The proposed typical section will provide two 12' foot lanes in each direction separated by a 40-foot grass median. Eight-foot inside shoulders (two-feet paved) and 12-foot outside shoulders (five-foot paved for bike lanes) are provided for both bounds. Also, a 10-foot, shared-use, paved path will be built on the east side of the road. Included in the scope of work is the widening of Bridge No: 870974 located just north of SW 8th Street on Krome Avenue. It includes existing bridge deck demolition, pile driving activities, concrete bent and deck widening, barrier wall and pedestrian railing, asphalt overlay, polymer plugs at intermediate bent joints, articulated block mats, removal of existing bulkhead wall and installation of new sheet pile bulkhead wall.
Reference: FDOT Project Manager Jacqueline Sequeira, P.E. (305) 640-7432

Senior Project Engineer/Project Administrator, City of Coconut Creek, Education Corridor, Coconut Creek Parkway, East of Banks Rd to West of Turnpike Overpass (September 2013 – January 2015): CPC provided 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 the 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, landscape installation (small and large plants), hardscape features (paver installation), Irrigation and Performance Turf.
Reference: Osama Elshami, Director of Utilities and Engineering Department, (954) 973-6786

Senior Project Engineer, FDOT District 4: Orange Avenue Shoulder Widening, Ft Pierce FIN 423022-2-52-01 (July 2013 – January 2015): This \$4.8M project consisted of shoulder widening and drainage improvements for 5 miles of 2 lane undivided rural County Rd 68 in Fort Pierce.
Reference: FDOT Project Manager Katie Kehres, P.E. (772) 519-8277

Senior Project Engineer, FDOT District 4: SR 834 (Sample Road) / SR 7 (US 441) / SR 814 (Atlantic) Grouping, FIN #'s: 421656-1-62-01; 421662-1-62-01; 423002-1-62-01 (October 2012 – January 2013): This \$10 million grouping is made of three RRR jobs located in the municipalities of Margate, Coconut Creek, Coral Springs and Pompano Beach. The main purpose of this RRR project grouping is to improve the traffic operations and safety conditions for the Sample Road / SR-7 / Atlantic Blvd corridors. The scope of the projects includes milling and resurfacing, major signalization and lighting improvements, landscape and irrigation installation and ADA upgrades.
Reference: Roxanne Riggs, P.E., FDOT Project Manager (954) 958-7675

Project Engineer, LAP Project – Walton Rd Widening for St Lucie County (February 2010 – November 2011): CEI Senior Project Engineer for reconstruction of one mile of urban divided highway with drainage improvements, signals and landscape.
Reference: John Frank, P.E. (772) 462-1707

Project Engineer, SFWMD, Bridge Maintenance Program (January 2009 – January 2010)
Performed bridge inspection, prepared, signed and sealed bridge inspection reports, performed CEI

work for three L19 canal bridge deck reconstruction projects. Prepared bid documents for bridge maintenance program.

Reference: Andre Melo, P.E. (561) 682-2685

Senior Project Engineer, FDOT District 4: I-95 Mobility, FIN #'s 231918-1-52-01 (May 2005 – December 2008): Project 2, Lake Worth Viaduct (Completion May 2008, \$58 M) Project is 1.8 mile of widening of the I-95 Corridor in 4 phases. Half a mile of AASHTO Girder Bridge Viaduct with new ramps; 160 ft. span Steel Bridge over 6th Avenue. Hold Weekly Construction Progress Meetings, Assure compliance with FDOT specifications, Review RFI's. / Project #9, Design Build Box Culvert on I-95 (\$6 M)

Reference: Courtney Drummond, P.E. (954) 777-4106

Structural Engineer, Derosé Design (October 2004 – April 2005):

Responsible for performing wind load analysis on poles (Aluminum, Steel and Concrete), small buildings and masonry walls using ASCE 7-98 and Florida Building Code; Designing steel beams using ASD; Concrete designing (slabs, beams, column and footings) with ACI 318-02 and 99; Performing analysis for a deep beam design using Strut and Tie Model; Wood designing; Review shop drawings (Rebar, Precast Concrete, Steel Joints)

Project Engineer, Ernest Lyons Bridge: Precast Segmental Bridge in Stuart Florida (April 2004 – September 2004):

Responsibilities included: Setting labor cost tracking spreadsheets, formwork design and drawings using ACI SP-4, and Inspecting Test Pile Driving and Crane capacity checks (Radii, loads and boom elevations)

Project Engineer, Clearwater Memorial Causeway (PCL) (February 2003 – April 2004): Cast-in-place balanced cantilevers and construction of spans on falsework. Responsibilities included: Preparing labor costs back-up for Builders Risk Claim, set up overall quantity tracking Spreadsheets, Segment casting Geometry Control check and BDII output analysis for closures, Post Tensioning and grouting inspection and record keeping, track submittals to client, prepare and submit concrete repair procedures.

Reference: Sean Buch (813) 264-9500

Structural Designer, Ammann & Whitney, (April 2002 – January 2003):

Responsibilities included: Design and detail bridge deck slab, complete MicroStation drawings, Review structural and civil drawings (Roadway and Bridge), Inspection of various bridge deck and substructure repairs along I-77, I-81, I-95

Reference: Gary Johnson (804) 782-1903

Experience
17 Years Total

Education
BS Civil Engineering,
University of "Las Villas",
Santa Clara, Villa Clara,
Cuba

Certifications
CTQP:
TIN P51400072

Final Estimates Level 1 & 2

Asphalt Paving
Technician Level 1 & 2

MOT Intermediate

QC Manager

ACI Concrete Field Testing
Technician

Concrete Field Technician
Level I

Erosion Control

MSE Wall

Critical Structure
Construction Issues

Ms. Pombal has 17 years of progressive experience in construction engineering and inspection including roadway, bridge reconstruction, bridge widening, landscape, signalization, and signing and asphalt pavement construction as a contract support specialist. She is familiar with FDOT standards and has an established track record of delivering Final Estimate packages with zero procedural errors. Ms. Pombal is skilled in both LIMS Site Manager and Multiline Earthwork System.

Contract Support Specialist/Assistant Project Administrator, FDOT District 4, CEI Services for the 2 to 4 lane divided rural highway reconstruction of 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 5.5 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.

Contract Support Specialist/Assistant Project Administrator, 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 Project Manager (772) 216-4273

Contract Support Specialist, CEI SR-70 from Okeechobee/St. Lucie C/L to MP 5.871 FM# 23026226201, Contract ID: T4231 (January 2011 – October 2014): The work includes the new construction of SR-70 from Okeechobee to MP 5.871 full oversight Federal Participation, from a two lanes undivided to a four lanes urban facility in Saint Lucie County. Responsibilities include preparation and maintenance of final estimate and project documentation, monthly estimate, material sampling documentation and certifications, as-built plans, asphalt documentation and performing contract adjustments. Exercise independent judgment in planning work details and making technical decisions. Familiar with the Department's procedures covering the project related duties as stated above and be proficient in the computer programs necessary to perform these duties.

Reference: Chloann Lawrence, (772) 201-7907

Contract Support Specialist, SR60; From Ranch Rd (82 Ave.) to 66 Ave. FM# 22862715201, Contract ID: T4193 (December 2008 – January 2011): The work included the new construction of SR-60 from Ranch Road to 66 Ave; from a four-lane rural roadway to a six lane controlled access divided urban facility in Indian River County. Responsibilities include preparation and maintenance of final estimate and project documentation, monthly estimate, material sampling documentation and certifications, as-built plans, asphalt documentation, performing contract adjustments field supplemental agreements, work orders, and supplemental agreements Familiar with the Department's procedures covering the project related duties as stated above and proficient in the computer programs necessary to perform these duties.

Reference: Dale Walker, P.E. (772) 201-8518

Contract Support Specialist, I-95 Mobility 2000 (June 2006 – December 2008): Assigned to the I-95 projects in Palm Beach County which include full reconstruction of sections of roadway and seven bridges along I-95. Responsibilities include preparation and maintenance of final estimate and project documentation, monthly estimate, material sampling documentation and certifications in LIMS, as-built plans, asphalt documentation, performing contract adjustments field supplemental agreements, work orders, and supplemental agreements.

Reference: Courtney Drummond, P.E. (561) 370-1104

Roadway Inspector, SR80 Corridor, Tampa Bay Engineering Group (November 2003 – June 2006): This contract involved the overall management and inspection of four separate Site manager construction projects from design to construction completion encompassing the plans review, letting, pre-construction and construction stages. Responsibilities include preparation and maintenance of final estimate and project documentation, monthly estimate, material sampling documentation and certifications, as-built plans, asphalt documentation.

Reference: Mrs. Dawn Steele, Mr. Edgard Mora, Mrs. Anabel Guerra, (561) 868- 5969

Experience

36 Years Total

Education

Civil Technology,
Middlesex County College

Registration

Professional Surveyor and
Mapper:

Florida No. LS6930;

New Jersey No. 24
GS03484700 J990;

New York No. 050893;
Pennsylvania No.
SU043966R;

Connecticut 70373; and
Louisiana 5141

Affiliations

Florida Surveying and
Mapping Society

National Society of
Professional Surveyors

New Jersey Society of
Professional Land
Surveyors

New York Association of
Land Surveyors

Pennsylvania Society of
Land Surveyors

Louisiana Society of Land
Surveyors

American Society of Civil
Engineers

Publications

English, Thomas A.
"Photogrammetry and
Topographic Mapping."

*Land Development
Handbook*, 3rd Edition,
McGraw Hill, 7/08, Chap 14;
"Topographic Surveys",
pp. 280-282; "Solo Notes",
Point of Beginning
Magazine 02/15

Mr. English is a Sr. Project Surveyor with over 36 years of experience including ALTA, Title surveys, topography, boundary analysis, commercial/civil land planning and design, residential subdivision and transportation route, geodetic control, construction stakeout and as-built survey, including survey computations, record research, property line resolution and right-of-way investigation, GNSS (GPS), railroad survey, and laser scanning. Mr. English is licensed in six states. His role in the management of projects has helped him to gain an understanding of the needs of his clients' survey needs, allowing him to apply a wider view of the need for surveys as a member of a complete project team. This in turn allows for the development of work plans that meet the needs of stakeholders in the most time and cost-efficient way available.

Broward County Public School. Subconsultant to Florida International Consulting Engineers Design Inc. (FICE); Sr. Survey Project Manager. Project included boundary survey for the following seven (7) schools in conjunction with the renovation program: 2017

Generic Utility Locating and GIS Mapping – UAZ 229 (BCWWS Project No. 9262 Work Authorization No. 46) Pompano Beach, FL. Client: Broward County Public Works Department Water and Wastewater Engineering Division. Project Manager and QA/QC: The county needed a field validation of their water and sewer information for their existing GIS database. The project was to complete a subsurface utility engineering investigation to map the horizontal and vertical position of underground utilities within the project limits encompassing the area known as Utility Analysis Zone 228, Country Knolls Subdivision, Pompano Beach. In addition to the main utility lines, it was necessary to find and map the location of buried valves on the utility mains; this information was inaccurate and incomplete in the existing GIS. The survey acquired GPS coordinates for the potable water valves, hydrant valves, maintenance access structures, sewer valves and pump stations within the project limits relative to the North American Datum of 1983 (HARN), Florida East Zone 0901 (horizontal) and North American Vertical Datum of 1988 (vertical). A metadata report of the GPS survey was provided. Valve brass-tag information and utility type information was collected and compared to plans provided by the county. A GIS geodatabase containing a feature class of the GPS points and the updated WWS GIS feature classes, inclusive of the update location as found with the utility investigation field work was provided to supplement the county's existing GIS. The GIS features class update included a review of available record drawing information.

Miami World Center Miami-Dade County, FL. Project Manager and QA/QC: A site utility investigation/survey/mapping for a development project located within the highly urban area of downtown Miami. The Network Access Point of the Americas is a large data center and Internet exchange point run by Verizon Terremar. Utilities were investigated and mapped in 3D around the Network Access Point of the Americas, using a combination of physical exposure and geophysics. Multi-channel ground penetrating radar was utilized to completely map underground utilities within project limits. The final deliverable was a 3D CAD file showing utilities and appurtenances with their real dimensions. With this accurate and comprehensive information, the design and construction team were provided with valuable information to avoid utility damages and disruption of services.

All Aboard Florida FLA AAFC10, Miami-Dade County, FL. Project Coordination and QA/QC: All Aboard Florida will be a passenger rail corridor connecting Orlando to Miami with intermediate stations in Fort Lauderdale and West Palm Beach. The rail line will use the existing Florida East Coast corridor between Miami and Cocoa, while also building a new 40-mile stretch of tracks along the SR 528 corridor between Cocoa and the Orlando International Airport. To support the design effort, the project provided subsurface utility engineering, utility coordination and supporting survey services on various segments of the overall alignment. For this particular project segment, construction surveying services was provided.

Manatee County Environmental Monitoring, Bradenton, FL; Survey Project Manager and QA/QC. Provided surveying and mapping, including establishing horizontal and vertical locations on monitoring wells situated in the Stage II portion of Lena Landfill, as well as, topographic surveying for volume calculations. Other tasks include setting photo control points for photogrammetric sub-consultants. Adjustment of survey traverses, bench loops, quality control of field data, drafting processes, and coordinating and scheduling with sub-consultants and other project managers.

Sarasota County Landfills, Sarasota County, FL; Survey Project Manager and QA/QC: Project surveyor responsible for field crew operations involving establishing photo-control targets and adjustment of field data to reflect required datum, as well as, supervision, coordination and reporting of project activities and procedures for the Venice and Bee Ridge landfills. Specifically involved in the quality control processes, adjustment of survey data, and coordination of field crew and sub-consultant scheduling.

South Terminal Support Area Roadway, Improvements for Tampa International Airport, Hillsborough County, FL; Survey Manager and QA/QC: Collected topographic survey data for the widening and relocation of the existing North South spine service road, relocation of the Bessie Coleman service road and associated improvements to the roadway network in the general South Terminal Support Area.

Professional Mapping/GIS Services for Stormwater Infrastructure Assessment, Pasco County FL; Survey Manager and QA/QC: Project involved location and assessment of stormwater system elements throughout Pasco County. The project developed in-house data management and deliverables included a completely populated GIS stormwater inventory database with feature-specific data assessments, elevation data, corresponding pictures and stormwater system-based geometric. The project involved the location of specific storm structure types provided by Pasco County spanning three square miles. Using survey-grade data collection methods and stormwater functional assessments of all features that contribute to and are within the Pasco County right-of-way, the project populated data into a GWIS-style file geo-database structure. Deliverables included a completely populated GIS stormwater inventory database with feature-specific data assessments, elevation data, corresponding pictures and stormwater system-based geometric networks. Processing procedures specific to this project to streamline workflows include a job specific feature code library with unique coding language for field data collection utilizing GPS cameras, and manipulating the schema to populate tables, shapes and fields to produce an organized and accurate GIS database.

Lakeland Municipal Airport, City of Lakeland, FL; Survey Project Manager and QA/QC: Provided topographic/drainage survey for 30 undeveloped acres of airport property for additional airplane hangar construction.

Venice Airport Runway 13/31, Sarasota County, FL; Survey Project Manager and QA/QC: Terrestrial laser scanning/topographic survey/obstruction survey for runway expansion and modifications.

Collier County, Haldeman Weir; Survey Project Manager and QA/QC: Topographic survey for the removal of an existing weir and construction of a new weir in another location on the channel. Boundary survey of affect parcel and preparation of sketch and description for new weir easement and vacation of existing easement.

Legacy Trail, Sarasota County, FL, Survey Project Manager and QA/QC: Specific purpose survey to provide topographic, drainage, channel and boundary information along a strip of land previously railroad right-of-way being converted to a walking and bicycle trail, approximately five miles.

Lorraine Road Extension, Lakewood Ranch, Sarasota County, FL; Survey Project Manager and QA/QC: Provided horizontal and vertical control, tied to existing aerial mapping control, established right-of-way, prepared drainage and tree location and boring location surveys, prepared boundary and topographic survey of parcel to be acquired for stormwater management in conjunction with the design of the Lorraine Road Extension through a private right-of-way.

Lyons Park Neighborhood Improvement, City of Pompano Beach, Broward County, FL; 2014. Sr. Survey Project Manager: Project included control, right-of-way, topographic and utility surveying for 4.5 miles of roadway for major neighborhood improvements. Improvements included stormwater, sanitary sewer, water and roadway. All survey information was tied to the Florida State Plane Coordinate System (NAD83) and the North American Vertical Datum of 1988 (NAVD88).

Hillsborough Pines Improvement Project, Broward County Water and Wastewater Services, City of Coconut Creek, Broward County, FL; Sr. Survey Project Manager: Project included control, right-of-way, topographic and utility surveying for three miles of roadway for major neighborhood improvements. All survey information was tied to the Florida State Plane Coordinate System (NAD83) and the North American Vertical Datum of 1988 (NAVD88). Improvements included stormwater, sanitary sewer, water and roadway.

SR 814, Atlantic Boulevard Bridge Survey, Broward County, FL; Sr. Survey Project Manager: Project included control, topographic and utility surveying for bridge area beautification program.

Oakland Preserve, Oakland Park, Broward County, FL; Sr. Survey Project Manager: Project included boundary, topographic and utility tree survey for development of low cost housing. Prepared right-of-way sketches and descriptions.

Highland Gardens Condominium, City of Deerfield Beach, Broward County, FL; Sr. Survey Project Manager: Project included boundary survey for Broward County Housing Authority.

Griffin Gardens, City of Davie, Broward County, FL; Sr. Survey Project Manager: Project included boundary survey for Broward County Housing Authority.

SW 9th Street, City of Pompano Beach, Broward County, FL; Sr. Survey Project Manager: Project included topographic survey for Broward County for roadway reconstruction.

Avis Rent-A-Car, City of Boca Raton, Palm Beach County, FL; Sr. Survey Project Manager: Project included boundary, tree location and monitoring well location Survey.

Zylem Site, NW 18th Street, City of Pompano Beach, Broward County, FL. 2014. Sr. Survey Project manager. Project included topographic survey for sanitary sewer extension.

Pompano Beach Library, NE 2nd Street, City of Pompano Beach, Broward County, FL; Sr. Survey Project Manager: Project included, sketch and description for access easement, construction stake-out and as-built surveys for West Construction. 2014

Galleria Mall, City of Fort Lauderdale, Broward County, FL; Sr. Survey Project Manager. Project included boundary survey for mall redevelopment and expansion. 2014

Broward County Convention Center Hotel Site, City of Fort Lauderdale, FL; Sr. Survey Project Manager: Project included boundary and topographic survey for convention center expansion. 2014

Broward County Pumping Stations # 450 and # 456, City of Pompano Beach, FL; Sr. Survey Project Manager. Project included boundary and topographic survey for pumping station improvements. 2014

Hillsboro Landings Condominium No. Two, City of Deerfield Beach, FL; Sr. Survey Project Manager. Project included topographic survey for water main relocation. 2014

Tri-Rail Station, City of Pompano Beach, FL; Sr. Survey Project Manager. Project included boundary and topographic survey for Tri-Rail Station. 2014

Florida Turnpike Enterprise (FTE) Widen Turnpike from Atlantic Avenue to Boynton Beach Boulevard (MP 82.4 to 87.3) FPID 437169-1-32-01. Project Manager and QA/QC: Provide secondary control, aerial and mobile mapping targeting, topographic/DTM surveys of off pavement areas and ponds, drainage and canal surveys, geotechnical boring locations and underground utility locations for the 6-mile, widening of the Florida Turnpike to 10 lanes. This required the coordination of multiple crews, from multiple office as well as coordination with other survey companies and the Aerial/Mobile Mapping sub-consultant. All information gathered was delivered to the aerial/mobile mapping sub-consultant in FDOT SS4 format for incorporation into the aerial and mobile mapping data.

FDOT District 6 – SR5/Okeechobee Road at W. 16th Avenue. FPID # 437917-1. Project Manager and QA/QC: Provided design survey and establish existing right-of-way lines for project in Miami-Dade County. Project included, topographic/DTM surveys of pavement areas, drainage surveys, and acquiring information for RW establishment. Prepared project network control (PNC) sheet.

FDOT District 6 – Drainage Survey at NW 15 Street and NW 7 Avenue. FPID # 425865-52-01. Project Manager and QA/QC: Provided design and drainage survey and extend existing right-of-way lines for project in Miami-Dade County. Project included topographic/DTM surveys, drainage surveys, and incorporation all data into existing mapping. Prepared project network control (PNC) sheet.

FDOT District 4 – SR710/Beeline Highway. FPID # 419251-1-32-01. Project Manager and QA/QC: Provided design survey and established existing right-of-way lines for this 3-mile project in Palm Beach County. Project included topographic/DTM surveys of pavement and off pavement areas, terrestrial laser scanning of bridge, drainage surveys, and acquiring information for RW establishment. Prepared PNC Sheet.

FDOT District 4 – I-95 at Linton Boulevard FPID # 435384-1-32-01. Project Manager and QA/QC: Provided design survey and established existing right-of-way lines for this 3-mile project in Palm Beach County. Project included topographic/DTM surveys of pavement and off pavement areas, drainage surveys, and acquiring information for RW establishment. Project also required underground utility designation and survey of designated utilities as marked. Data acquired was merged with aerial mapping data prepared by others. Prepared PNC sheet.

FDOT District 4 – SR 838 from SR 7 to SR 5. FPID # 23316-6-23-2-01. Project Manager and QA/QC: Provided underground utility designation and survey of designated utilities for this 7-mile project in Palm Beach County.

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 of new gas lines.

STOF 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.

Sam Jones Road and West Boundary Home Sites, Big Cypress Reservation

A 25 acre site on the Big Cypress Reservation. Services provided included; survey, geotechnical Investigation, stormwater analysis and report, cost estimates, roadway plans, water distribution plans, sewer system plans including pump station and lot grading plans.

Mabel T Frank Parcel, Big Cypress Reservation

A 50 acre site on the Big Cypress Reservation. Services provided included; survey, geotechnical Investigation, stormwater analysis and report, cost estimates, roadway plans, water distribution plans, sewer system plans including pump station and lot grading plans.

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 FCG. 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.

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 was 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.

Five (5) Gate Station surveys: Miami Airport, 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.

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 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 the 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 a SFWMD canal and fabriform 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 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. **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. 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

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.

Experience

28 Years Total;

Education

Associates of Arts
Degree, Broward
Community College

Palm Beach Junior
College, Land
Surveying

Registration

Professional Surveyor
& Mapper, Florida #
5630

Organizations

Florida Surveying &
Mapping Society: State
and Broward Chapter
Member

Gold Coast Builders
Association

Builder Association of
South Florida

Mr. Pirtle has provided Land Surveying services in the southeast Florida region for 28 years. As a Professional Surveyor and Mapper (PSM), he has extensive experience in public and private projects which include right-of-way surveys, roadway construction surveying, and boundary surveys. Mr. Pirtle is responsible for the field surveying operations in South Florida. He oversees four field crews (on average) with the daily coordination and preparation of their work and quality control for those projects. These include right-of-way and road construction surveying, boundary surveys for the following entities; Florida Department of Transportation, Florida Power and Light, various municipalities, and utility companies. Mr. Pirtle is also proficient in computer-aided design and coordinating geometry applications.

City of Margate Drainage Improvements

Project surveyor for horizontal and vertical locations of above-ground and underground improvements for Drainage redesign and construction for various roads and alleys for the City of Margate.

City of Oakland Park Drainage Study

Project surveyor for horizontal and vertical locations of above-ground and underground improvements for Drainage redesign of approximately 2 miles of local and county roads for the City of Oakland Park.

Florida Power and Light (FPL) Survey services, Broward, Dade and Palm Beach Counties, Florida

As the Project Manager Mr. Pirtle supervised construction stake-out and as-builts for Power Pole replacements and new locates. This was a three (3) year miscellaneous contract that included numerous projects throughout South Florida.

NW 87th Avenue (Galloway Road) Construction, Miami/Dade County, Florida

As the field crew manager Mr. Pirtle managed the day-to-day construction layout/stake-out for roadway, curb & gutter, utilities (above and below ground) and drainage from NW 58 street to NW 71st street.

SW 184th Avenue Construction, Pembroke Pines, Broward County, Florida

Mr. Pirtle supervised construction layout/stake-out and as-builts for roadway bluetops, sewer, water and drainage.

FDOT District 4, Miscellaneous Surveying & Mapping

Two three-year contracts - Served as a Party Chief then as Field Crew supervisor for 50-60 projects which included: EFB/CAICE data collection, field traverse, level runs, cross-sectioning, GPS control point setting.

B. APPROACH

Communication

Project Communications/ Interface with the City of Delray Beach

CPC understands that through this continuing services contract, there is the potential for a large variety of diversified professional services to be provided to the City of Delray Beach. Dan Tintner, CPC's project manager, has the role of securing all resources necessary for a successful delivery of all task orders issued under this Continuing Professional Services contract. He will be required to work closely with our Quality Control Team for oversight for all deliverables to the City.

To provide for seamless communication between CPC and the City, we recommend implementation of a communication protocol that will utilize primary points of contact within the City of Delray Beach and CPC for each assignment. Our Project Manager will coordinate all aspects of the contract with the City and will keep your Contract Manager informed of the progress being made and that all issues requiring the City's attention are discussed in a timely manner and resolved so the overall project schedule is not affected. Dan Tintner will remain involved in the day-to-day operations of the contract and is directly responsible to the City of Delray Beach for our performance on all project assignments.

We will use email correspondence extensively and technical memoranda and monthly (or bi-monthly) progress reports, when necessary, to assist in the communication of technical, cost, and schedule issues. Additionally, project status briefings and formal presentations to the appropriate City staff can be scheduled at your discretion. Status briefings, formal presentations, and workshops are encouraged as additional mechanisms to facilitate communicating significant technical issues, potential schedule delays or other issues which appear significant. Our proposed protocol is flexible and can be easily modified to best suit the needs of each project.

Project Implementation Plan

A Project Implementation Plan (PIP) will be prepared by Dan following the standard PCP policies and procedures at the beginning of each task order. The purpose of a PIP is to plan the execution of a project thoroughly, to document that plan, and to communicate that plan to all project team members. The PIP will include client contact, scope of services, staffing plan, project schedule, budget data, quality control program, and other pertinent information necessary to effectively design a cost-effective project that meets the needs of the City of Delray Beach. The intent of the PIP is to facilitate project planning before project execution. The PIP will be distributed to all personnel at the project kick-off meeting.

Staff Availability

CPC current and projected backlog office-wide is moderate, and our project team has ample capacity for the additional work that will be generated by this contract. Each person shown on our organization chart will be available for assignment whenever their particular skills are required. **We are available to begin work immediately** upon receipt of Notice-to-Proceed for each project and to complete all work in a timely, cost-efficient manner. The advantages of contracting with the CPC Team is the significant depth of qualified manpower we can commit to new projects without compromising our existing commitments.

Project Scheduling

To facilitate timely completion of all work, a dynamic schedule is established and deliverables are identified at the beginning of each project. A project schedule will be developed by Dan. The identification of schedule activities and significant milestones for each task are provided by the individual discipline leaders based on their understanding of the project scope and their prior experience on similar projects. All major project activities as well as the deliverables are shown on the schedule. Deliverable submittal dates and major project events are classified as project milestones. The activities required to meet these milestone dates are identified and are logically scheduled to support their achievement. Items such as report/specification outlines and drawing lists as well as drawing mockups also are developed. These items, along with action lists, are monitored and updated in conjunction with the schedule as tangible means of tracking the progress of individual tasks/phases.

Schedule tracking is accomplished by comparing project status to planned milestones. Project schedules will be developed in Microsoft Project or Primavera software. Project team understanding of what is required is the best resource for keeping a project on schedule.

Monthly project schedule reviews performed by Dan, and his task managers will be a key to keeping the team and the City informed of progress as well as any deviations from plan. Although scheduling software is one of our powerful project management tools, we believe there is no substitute for timely and effective communication for keeping projects on track. Dan Tintner is fully committed to keeping open lines of communication with the City and the rest of the project team.

Project Budget

Maintaining project budgets properly and controlling the costs to the City is the only way projects will be mutually beneficial. Controlling design and construction costs is one of the top priorities on all CPC projects. We continually update our opinion of probable construction costs and compare it to the City's construction budget. We have found that continual monitoring of the anticipated construction costs allows both the City and CPC to make informed decisions on design aspects of the project. As part of this effort, we seek to provide value engineering to the project, and maximize the return on the City's construction budget. CPC maintains rigorous internal administrative procedures and systems to monitor the labor utilization and financial expenditures of each project. The internal systems enable our Project Manager to evaluate the budget and schedule throughout the project.

Regulatory Agency Coordination

With 40 years of engineering and permitting experience throughout South and Central Florida, CPC is a leader in efficient and successful regulatory permitting for design projects of all scopes and sizes. We maintain strong working relationships with regulatory agencies at the local, state, and federal levels and have a deep understanding of the specific criteria and regulations established and enforced by each of these agencies. We understand the importance of agency coordination early in a project's planning phase to maximize efficiency of the regulatory review process and minimize potential adverse impacts associated with the proposed activity. Our qualified staff specializes in obtaining Environmental Resource Permits (including State Water Quality Certification); National Pollution Discharge and Elimination System (NPDES) permits, water use/ dewatering permits, and all types of right-of-way permits. We have coordinated extensively with United States Environmental Protection Agency (USEPA), U.S. Army Corps of Engineer (USACE), OSHA, Florida Department of Environmental Protection (FDEP), SWFWMD, U.S. Fish and Wildlife Service (FWS), and the FDOT; as well as various municipalities. Our staff is also knowledgeable with National Environmental Policy Act (NEPA) regulations and has compiled numerous NEPA documents for both public entities and private sector clients seeking federal funding for the design and/or construction of projects. Our Team's experienced staff has prepared detailed Environmental Impact Statements, Environmental Assessments, and Categorical Exclusions for projects located throughout the United States and Internationally.

Change Management

How Project Managers and other team members respond to unexpected issues can easily determine the success or failure of a project. The most important aspect of preventing unexpected issues is timely and effective communication. Should an unexpected issue arise during the course of a project, timely and effective communication is still key to keeping the project under control, on schedule, and within budget. Dan will swiftly act to gather the facts of the situation and will report and discuss them with the City's Contract Manager as quickly as possible. Together, Dan and the City will analyze available alternatives to resolve the issue and will decide upon and implement the most appropriate course of action.

Any requested or recommended changes in the negotiated contract scope are first discussed with the CPC Project Manager who will then prepare a draft amendment to the scope describing the change in work and a draft cost estimate for performing the work. The draft scope amendment and cost estimate will then be forwarded to the City for review and comment. Dan will then finalize the scope amendment and cost estimate and will present a formal task work order to be approved and signed by the appropriate City staff.

Quality Control

Throughout every project, CPC will reinforce the importance of Quality Assurance and Quality Control (QA/QC) for each task from project conception through design and construction. The attention given to this process achieves several objectives; notably, that our work products comply with the quality requirements of the City, all work meets a high standard of technical quality for project deliverables, and the occurrence of potential errors and/or omissions is minimized. A major component of QA/QC is the performance of reviews at appropriate times throughout a project to evaluate the adequacy of materials, documentation, processes, procedures, training, guidance, and staff required in the execution of the task. Internal procedures require the Project Manager to prepare a Quality Control Plan for each assignment. The Plan addresses the following three key areas:

Project Team Responsibilities. Each member of the project team is required to comply with the QC procedures. At specific milestones identified at the beginning of each assignment, QC reviewers will be required to document the review comments, sign-off on completion of the deliverable(s), and place a record of the review in the project's quality review records file. Each member of the project team is encouraged and expected to discuss any tasks that may be unclear or require additional clarification with the Project Manager. The Project Manager, in turn, will keep the designated QC reviewers for the project apprised of the project progress and is to assure that all deliverables and work products receive timely reviews by the QC reviewers.

Available Facilities, Technological Capabilities, and Other Available Resources

Projects resulting from this contract will be performed from CPC's headquarters, which is located in Deerfield Beach, 13 miles from the City's offices. We have our full force of engineering designers, CAD support, and administrative support ready to serve the City. We have up-to-date software packages, including Microstation, AutoCAD, Civil3D, Hydraflow Storm Sewer, StormCAD, AutoCAD Mcolor, Infracore, Navisworks, SiteOps, Sketchup, and Lumion.

CPC is proud to also offer 3D Laser Scanning (terrestrial scanning). This innovative technology allows us to capture interior and exterior conditions with precision. Our equipment captures over 500,000 points per second, which allows for a quick turnaround for the deliverable. Once modeling is complete, clients can access their product through an assigned link on our website. This feature also allows the client to take measurements of the interior and exterior areas and see their project come to fruition. 3D Laser Scanning comes in handy particularly with vertical construction and/or renovations. The scans produce a highly accurate set of as-builts, this eliminates costly redundant field visits.

Public Information

Dan will ensure that public involvement matters are handled in the most positive manner. We view the community as our clients and partners on each project this is their home, and we understand and respect that delicate relationship. As we have learned through past project experience, keeping the public informed of project activities is critical to gaining the communities understanding and buy in of the work. In this effort, the CPC team has worked successfully with the owner's representatives and the public on numerous past projects. Constant communication will take place with the City's Public Information Office (PIO) and the community. CPC realizes the importance of collecting and reporting only positive and accurate factual information about aspects of and the status of each project. Public Information is more than a narrow set of rules; it is a broad concept. It is the entire body of relationships and activities aimed at generating awareness and appreciation of a project.

Regina-Bobo Jackson has worked extensively on projects that require all levels of public outreach. She has worked with clients to produce public involvement plans that require mailings, printed materials, and public meetings. CPC has worked to develop project websites that are regularly updated to inform the public on the progress of the project. Media notification will also be an element of the program, if required. If required, we will create a Community Awareness Plan and hold an open house meeting to let the stakeholders around the project.

C. 10 PROJECTS FOR SIMILIAR SERVICES

PROJECT # 1: Road Bond Project

Owner: City of Margate

Address: 5790 Margate Blvd., Margate Florida 33063

Project Date: Start 2008-2011

Status of Project: Completed

Scope: Civil Engineering, Survey Services and Full CEI Oversight

PROJECT # 2: NW 2nd Avenue Water Main Replacement

Owner: City of Dania Beach

Address: 100 W Dania Beach Boulevard, Dania Beach, Florida 33004

Project Date: Start 2015-Present

Status of Project: On-going

Scope: Civil Engineering and Surveying Services

PROJECT # 3: Dania Pointe Development

Owner: City of Dania Beach

Address: 100 W Dania Beach Boulevard, Dania Beach, Florida 33004

Project Date: Start 2015-Present

Status of Project: Ongoing

Scope: Civil Engineering Plan Review and Survey Review Services

PROJECT # 4: Gables Aventura

Owner: Gables Residential

Address: 20000 W Dixie Hwy, Miami, FL 33180

Project Date: Start 2015-Present

Status of Project: Ongoing

Scope: Civil Engineering, CEI and Survey Services

PROJECT # 5: Education Corridor Improvements Phase III on Coconut Creek Parkway

Owner: City of Coconut Creek

Address: 4800 West Copan's Road, Coconut Creek, FL 33063

Date of Services: Start 2014-2015

Status of Project: Completed

Scope of Work: Full CEI Oversight

PROJECT # 6: SR AIA Landscaping and Hardscaping Improvements

Owner: Town of Lauderdale by the Sea

Address: 4501 Ocean Drive, Lauderdale-By-The-Sea, FL 33308

Date of Services: Start 2012-2013

Status of Project: Completed

Scope of Work: Full CEI Oversight

PROJECT # 7: Bergeron Park of Commerce

Owner: Bergeron Land Development

Address: 19612 SW 69th Place, Pembroke Pines, Florida 33332

Project Date: Start 2013-Present

Status of Project: On-going

Scope: Civil Engineering and Surveying Services

PROJECT # 8: Sam Jones Road-West Boundary Home Sites, Big Cypress Reservation

Owner: Seminole Tribe of Florida

Address: 6300 Stirling Road, Hollywood, Florida 33024

Project Date: Start 2015-Present

Status of Project: Ongoing

Scope: Civil Engineering, and Survey Services

PROJECT # 9: 1200 Hillsboro Mile

Owner: Riverstone Builders

Address: 1200 Hillsboro Mile, Hillsboro Beach, FL 33062

Project Date: Start 2015-Present

Status of Project: Ongoing

Scope: Civil Engineering, CEI and Survey Services

PROJECT # 10: Central Vero Distribution

Owner: Florida City Gas/ AGL Master Services Contract, C

Address: 955 E 25th St, Hialeah, FL 33013

Date of Services: Start 2014-2015

Status of Project: Completed

Scope of Work: Engineering Permitting and Survey Services

Project 1. City of Margate, Road Bond Project, Margate, Florida

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, which covers 9.2 square miles and over 100 lane-miles of roads. Because of the size and complexity of the project scope, the City of Margate decided to phase the project into three specific areas. *Innovative technologies, such as in-situ milling and repaving operations in the same operation,* were used in heavily congested areas to allow opening roadways back to traffic almost as soon as the repaving operation was completed. *This technique also saved time and money, allowing the project to be completed almost six months ahead of schedule and more than \$3 million below budget.*

Construction Management Practices

The City of Margate Road Bond Project utilized quality Construction Management techniques consisting of City staff and an independent Engineer of Record for all aspects of the project. Construction reports were documented throughout and separated into categories consisting of completed areas and those specific areas to be repaired after the roadways were paved. Reports were precisely documented; pay schedules for contractors were closely monitored and compared to the completion reports from our field representatives.



Project 2. City of Dania Beach Professional Services Contract: NW 2nd Avenue Water Main Replacement Project



CPC was requested by the City of Dania Beach to provide survey, engineering design and construction phase services to address an emergency health hazard situation in the City area due to the poor condition of the potable water. City of Dania Beach received complaints from the residents on NE 2nd Avenue, near the intersection of NE 2nd Avenue with NE 1st Street that the potable water serving their area was rusty and the quality of the drinking water is very poor. Residents approached the City of Dania Beach City Commission to address the issue. The City Engineer determined that the existing 2" water main located along NE 2nd Avenue between NE 2nd Street and NE 1st Street must be replaced to address the poor quality of potable water. The City of Dania Beach City Engineer requested that CPC address the failing water main in an expedited manner. CPC provided professional surveying, engineering design, permitting and Construction phase services and inspection in a very efficient and timely manner. In a period of one month,

CPC Inc. prepared the required topographic survey, developed preliminary and final construction plans and completed regulatory approval with Broward County Health Department to obtain the Construction permit for the water main replacement. CPC provided inspection services during construction. Upon completion of construction by the City of Dania Beach, and under the direction of the City Engineer, CPC coordinated with the Broward County Health Department and City Staff to perform an expedited certification of the water main through the Broward County Health Department in a matter of one business day to allow the new water main to be placed into service as quickly as possible.

Project 3. Dania Pointe Development, Dania Beach, Florida **Review Services for Engineering Design, Rezoning, Plat, and DRC Site Plan Review**

As a part of this Continuing Services Contract, CPC served as an extension of the City's staff to conduct Engineering, Survey, Rezoning and DRC reviews for following elements. The review services were conducted under cost recovery paid for by the developer to the City of Dania Beach.

Survey

- Plats
- Review for vacation of right of way and easements associated with re-platting of the site.

Roadway and Site Civil

- Typical Sections and Master/concept plans
- Site civil: roadways, driveways, ingress/egress, drainage, utilities, water/sewer, lighting
- Roadway plans: design, alignment, complete streets, drainage, utilities, water/sewer.
- Intersection design (incl. turn lane lengths) and operation, signalization, signal timings, signing-pavement marking
- Street lighting photometrics, electrical calculations and design.



We provided timely review comments to applicant's traffic engineers and designers in order to meet stringent deadlines for Planning & Zoning Board and Commission meetings. We worked closely with applicant's consultant to expedite outstanding comments. The agreed upon review comments improved the quality of the applicant's deliverables, and is well appreciated by City Staff. Responsibilities included attending DRC and City Commission meetings and provide expert testimonials when requested by commissioners.

Project 4. Gables, Aventura, Multi-Family Development: 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 one mile of West Dixie Highway, NE 202 Street and NE 26 Avenue. Improvements also include 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 design, utility design, drainage and stormwater modeling, pump station design, maintenance of traffic plans, permitting, coordination of site retaining walls and bridge structures design, water and sewer design, signing and marking plans, and drainage well design.



Project 5. City of Coconut Creek, Local Agency Program (LAP) Project, Education Corridor Improvements Phase III on Coconut Creek Parkway from Banks Road to the Florida Turnpike

This Local Agency Program project for the City of Coconut Creek includes pedestrian safety



upgrades, drainage improvements, swale and lighting improvements and landscaping of the Coconut Creek Parkway corridor from east of Banks Road to the west side of the Florida's Turnpike overpass. Additional work includes ADA compliant sidewalk and bus shelter construction along both sides of the roadway, installation of bus benches, guardrail, underground signal interconnect installation, lighting improvements as well as landscape installation (small and large plants), hardscape features (paver installation), irrigation and performance turf (sod).



In addition, this project lies adjacent to residential, institutional, recreational, and retail properties.

Therefore, our primary stakeholders during construction included Central Park of Commerce Shopping Center, Atlantic Technical Center School, Dave Thomas Education Center (West campus), Hale Plaza, Coconut Creek Parkplex, Coconut Creek Senior High, Calvary Church, Coconut Creek Medical Center, Colonial Bank Plaza, Associated Builders and Contractors Plaza, and the Technical University of Miami.

Project 6. Town of Lauderdale by the Sea, Local Agency Program (LAP) Project, SR A1A Beautification, Landscaping and Hardscaping

CPC was selected to perform CEI for this landscaping and hardscaping LAP project for the Town of Lauderdale-by-the-Sea (LBTS). This 1.3-mile project, which ran through the densely-populated SR A1A of LBTS, consists primarily of bus stop enhancements, brick pavers, architectural features, landscaping, irrigation, and crosswalk features. Additionally, a portion of this project lies within a historically rich area where known artifacts of ancient Native Americans have been discovered. The project was a LAP project partially funded by FDOT District 4. The CEI process is required to strictly adhere to the FDOT/FHWA Local Agency Program Manual for Federal Aid projects. Our staff was aware of the high-profile location of this project. As such, it was of the utmost importance that public involvement and coordination with local residents and businesses in this area were handled carefully.



CPC worked closely with the local stakeholders during the A1A Lauderdale-by-the-Sea landscape and hardscape roadway enhancement project to assure a successful and timely completion. Our same staff continued to meet with each resident and business owner to discuss work at the driveways and disseminate our 24-hour contact information so that stakeholders' concerns were resolved before they ever reached our client LBTS. Timely public notifications were made available to assure that the locals were aware of all of the proposed work and how it would affect them. All stakeholders became partners to our team.



Project 7. Bergeron Park of Commerce, Broward County, Florida

This commerce park consists of two major sections - Park North (130 acres) 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, ready to build) was designed to meet the exacting requirements of a Foreign Trade Zone and for any business requiring maximum flexibility of utilization and exposure to high-tech resources. 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.

Environmental conditions were integrated into the development of the overall surface water management program. Wetlands mitigation, drainage pretreatment and retention were designed offsite, thereby maximizing the net usable land for improvements onsite. CPC was provided planning, civil engineering and surveying services for this 200-acre Industrial site in Western Broward County.



Project 8. Professional Transportation Engineering Consulting Services Contract, Seminole Tribe of Florida (STOF) CPC has been awarded multiple Civil Design projects for STOF under this contract

Sam Jones Road-West Boundary Home Sites, Big Cypress Seminole Indian Reservation, Florida



CPC provided a full range of services from due diligence to final design for the site development of this new 18-acre community located in Big Cypress Seminole Indian Reservation. Design included site plan development, stormwater modeling, potable water distribution, gravity sanitary sewer collection, lift station and force main design. Design of paving grading and drainage improvements for the construction of a new roadway with 60-foot right-of-way was provided by the CPC civil team. The new road will provide a 22-foot paved road with sodded shoulders and drainage improvements.

Mabel T. Frank Way Parcels Project, Big Cypress Reservation, Hendry County, Florida

Carnahan Proctor, and Cross, Inc. was requested by STOF to provide surveying, and geotechnical investigation, site planning, civil engineering design stormwater modeling, paving, grading and drainage design, water, sewer, lift station and force main design, as well as Landscape, and street lighting design for the proposed 70-acre development.

N 64th Ave and Side Streets Roadway Lighting Design

CPC was retained by the Seminole Tribe of Florida for the retrofit design of decorative road side lighting including photometrics and lighting design calculations for the following roadways located in the Hollywood Reservation of the STOF:

- N. 64th Ave from North of Guardhouse (S of Charleston) to Oak St (S of Stirling Rd)
- Oak St. (W), Franklin St. (W), N 40th St. (E), Perry St. (W), N 39th St. (E), Evans St. (W),
- N 38th St. (E), Allen St. (W), N 37th St. (E), Meade St. (W), N 36th St. (E), Custer St. (W)
- N 35th St. (E), N 34th St. (E), Osceola Dr. (W), N 33rd St. (E)

Project 9. 1200 Hillsboro Mile (The Ocean)

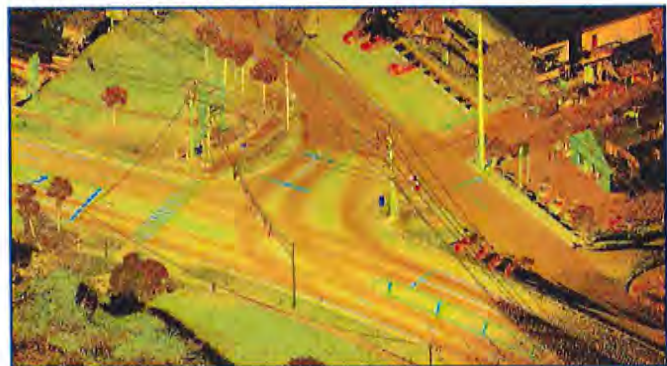
CPC provided the site development for the 2.5-acre site with two different buildings and parking lots on each side of A1A, as well as driveway improvements, pedestrian sidewalks, utilities and drainage within the FDOT Right-of-Way. The design team also provided a site lighting system that met Florida Fish and Wildlife Standards for turtles. This boutique, oceanfront condominium, will offer only 18 residences from the \$900's to over \$2 million with up to 3,000 square feet. Situated directly on a private stretch of beach, the luxury midrise will also host an oceanfront pool and sundeck, a "sky terrace" observation deck and an Intracoastal Waterway day dock just across the street.



Project elements included FDOT permits for drainage and utilities, site development plans, traffic modeling, engineering data collection, surveying, platting, roadway design, utility design, drainage and stormwater modeling, pump station design, maintenance of traffic plans, permitting, coordination of site retaining walls and bridge structures design, water and sewer design, signing and marking plans, and drainage well design. Site Development and roadways for a 2.5 Acre, 29 Unit multifamily residential site with two different buildings and parking lots on each side of FDOT Highway A1A. Provided driveways, improvements including pedestrian sidewalks, utilities and drainage within the FDOT Right of Way.

Project 10. Florida City Gas / AGL, Master Services Contract, Central Vero Distribution

As part of ongoing services contract, CPC successfully acquired AGL's Central Vero Gas Distribution Project, which included approximately 23,000 linear feet of gas pipeline installation from the existing Company facilities at Pickerill Lane and US 1 to Aviation Boulevard, continuing west to Flight Safety Drive as well as between US 1 and 20th Avenue from 28th to 14th Place. CPC was responsible for the detailed design and mapping of pipeline facilities at the direction of AGL, as well as identifying Right of Way access, an easement, or temporary workspace required for construction purposes. CPC also provided the engineering maps and drawings necessary to facilitate roadway and environmental permits.



D. ORGANIZATIONAL STRUCTURE

10. KEY PERSONNEL

CIVIL ENGINEERING/ CONSTRUCTION ENGINEERING & INSPECTION		
NAME	ROLE	% Time Available
1. Dan Tintner, P.E.	Program Manager	% 65
2. Bill Barbaro, P.E.	Senior Project Engineer	% 65
3. Regina BoBo-Jackson, P.E.	Senior Project Engineer	% 50
4. Lakshmi Kuttiparambil, P.E.	Senior Project Engineer	% 55
5. Terence Castillo, E.I.	Project Engineer	% 65
6. Robert Audette, P.E.	CEI	% 50
7. Anaysis Pombal, P.E.	CEI	% 50
SURVEYING AND MAPPING		
NAME	ROLE	% Time Available
8. Landon Alfie Cross, PSM	Senior Project Surveyor	As Needed
9. Tom English, PSM	Senior Project Surveyor	As Needed
10. Scott Pirtle, PSM	Senior Project Surveyor	As Needed



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)

Surveying and Mapping

Tom English, PSM (Lead)

Project Administrator

Robert Audette, P.E.

Senior Project Manager

Bill Barbaro, P.E.

Senior Project Surveyor

Landon "Alfie" Cross, PSM

Contract Support Specialist

Anaysis Pombal, P.E.

Senior Project Engineer

Regina Bobo-Jackson, P.E.

Senior Project Surveyor

Scott Pirtle, PSM

Project Engineer

Lakshmi Kuttiparambil, P.E.

Project Engineer

Terence Castillo, E.I.

1. DAN TINTNER, PE, Senior Project Manager

The Project Manager is the key to a successful project. *Dan brings over 30 years of broad experience in public sector projects with a proven track record for successfully completing municipal roadway and neighborhood improvement projects, which are similar in scope to the City of Delray Beach potential projects.* 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. His responsibilities on these challenging projects included oversight and project management of the CEI phase of these projects, which included landscape and median improvements to similar roadways as this project. Mr. Tintner has also served as the Senior Project Manager for several other government CEI projects and neighborhood improvement projects, including Pine Island Road from Sheridan Street to Stirling Road, Douglas Road from County Line to Pembroke Road, North Andrews Gardens Neighborhood Improvement Project and North County Neighborhood Improvement Projects.

2. WILLIAM "BILL" BARBARO, PE, Senior Project Engineer

Mr. Barbaro has more than 16 years of experience in South Florida for engineering design, computer modeling, and management, for roadway, new and retrofit water, wastewater, stormwater, and land development projects for both the private and municipal sectors. He has provided engineering review services on behalf of multiple municipal clients for engineering, site plan, and rezoning reviews, and has developed capital improvement projects budgets for grant applications. He served as acting City Engineer for the City of Lake Worth. Most recently, he lead a multidiscipline team of engineers and surveyors as an extension of the City Engineer to provide review services for the City of Dania Beach developing new design development guidelines/design standards related to a new land use zoning code "Planned Mixed Use Development (PMUD)" and review of engineering design for the 100 acre Dania Pointe Project. Bill is highly knowledgeable of local City, Multi-County, and FDOT codes, ordinances, and standards. His responsibilities have included dual roles as both Project Manager and Engineer of Record for the management, design, permitting, and inspection of multi-discipline projects including new and retrofit water and wastewater utilities, water resource, and stormwater management systems. His project experience includes paving and drainage design for county, city and private roadway projects, residential and mixed-use land development projects over 2,000 acres.

3. REGINA BOBO-JACKSON, PE, Senior Roadway Design Engineer

Ms. Bobo-Jackson has more than 33 years of experience in civil engineering, including roadway design. She began her professional career with FDOT where she gained extensive experience working on a wide range of projects with emphasis on highway design. The majority of her projects have been roadway design, which include geometry, maintenance of traffic, pavement design, signing and marking, lighting and signalization. She has been responsible for civil/site development projects that involved paving, grading, signing and pavement marking, drainage sanitary sewer, and lift station design and permitting. She 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, and 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 concept in all projects. She is Advanced Maintenance of Traffic Design certified and applies her knowledge of land development in combination with transportation design principles to ensure public safety in each design

4. LAKSHMI KUTTIPARAMBIL, PE, Project Engineer

Ms. Kuttiparambil has more than 11 years of experience in municipal engineering and land development engineering. She is experienced in ADICPR, AutoCAD Civil 3D, Hydraflow Storm Sewer, HTML, and JavaScript. Ms. Kuttiparambil's professional experience includes design of potable water and sanitary sewer systems, design of new drainage systems or drainage improvements to the existing systems, project permitting and certification with different municipalities throughout Southeast Florida, and designing pavement markings and signage, maintenance of traffic for projects. She is proficient in modeling large scale multi-basin master drainage systems in ADICPR software.

5. TERENCE CASTILLO, E.I., Project Engineer

Terence has more than 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, plan preparation, design calculations, client and sub-contractor coordination, sanitary and sewer design and drainage design using SFWMD Cascade Flood Routing, and Advanced Interconnected Channel and Pond Routing Modeling (ADICPR). In addition, Terence has permitting experience through multiple county and district agencies including Broward County EPD, SFWMD, CBWCD, Miami-Dade RER, and others. Furthermore, Terence prepares reports, proposals, cost estimates, and visual presentations using software such as Microsoft Office, Adobe Photoshop, AutoCAD Mcolor, and Google Sketchup.

6. ROBERT AUDETTE, P.E., *Project Administrator*

One of our key staff members assigned to this contract is Robert Audette, with 18 years of experience that reflect an excellent performance record on urban roadway projects with FDOT and other local governmental entities, many of which are very similar in scope to the City's projects. Robert, who will lead the CEI efforts and can provide a dual role as senior project engineer and project Administrator. He has worked hand in hand with City officials, completing similar projects including the City of Coconut Creek-Education Corridor Improvements LAP project in Broward County. Prior to this contract, Robert completed the Sample / SR-7 / Atlantic Grouping in District 4, recently nominated for multiple awards including 'Best Urban Project'. Several coordination efforts took place in order to maintain a good level of communication between the local municipalities and FDOT and important stakeholders. This project grouping was completed within budget and ahead of schedule. With his strong working knowledge in CEI along with his diverse experience with civil, roadway and bridge construction, he will bring this solid experience to the CPC team's successful path.

7. ANAYIS POMBAL, P.E., *Contract Support Specialist*

Ana has 17 years of progressive experience in construction engineering and inspection including roadway, bridge reconstruction, bridge widening, landscape, signalization, and signing and asphalt pavement construction as a contract support specialist. Ana is experienced in the review of contractor's documentation and certifications for monthly payments and material used on the projects. She is familiar with FDOT standards and has an established track record of delivering Final Estimate packages with zero procedural errors. Ms. Pombal is skilled in both LIMS Site Manager and Multiline Earthwork System.

8. THOMAS A. ENGLISH, PSM, PLS, *Senior Survey Project Manager*

Tom is a Senior Survey Project Manager with 36+ plus years of experience that includes ALTA, title surveys, topography, boundary analysis, commercial/civil land planning and design, residential subdivision and transportation route, geodetic control, construction stakeout and as-built survey, including survey computations, record research, property line resolution and right-of-way investigation, GNSS (GPS), railroad survey, and laser scanning. His role in the management of projects has helped him to gain an understanding his clients' survey needs, allowing him to apply a wider view of the need for surveys as a member of a complete project team. This in turn allows for the development of work plans that meet the needs of stakeholders in the most timely and cost-efficient way available.

9. LANDON "ALFIE" CROSS, *Senior Project Surveyor*

Alfie has managed an extensive list of successfully completed projects in his 45 years as a Professional Land Surveyor and Mapper (PSM) throughout Florida for both governmental and private clients. Serving as Senior Project Surveyor, Mr. Cross has supervised verification and recovery of project control (PNC), ground lines (Roadway X-Sections), cross-sections of canal and ditches. He has assisted in implementing updated FDOT Construction Project Administration Manual (CPAM) procedures for joint surveys for verification of "Original Plan Terrain" and "Sub-soil excavation." Mr. Cross assists CEI staff and the contractor to deliver an accurate accounting of the data and keep the project moving along at a timely pace and on schedule.

10. SCOTT PIRTLE, *Senior Project Surveyor*

Scott has provided Land Surveying services in the southeast Florida region for 28 years. As a Professional Surveyor and Mapper (PSM), he has extensive experience in public and private projects which include right-of-way surveys, roadway construction surveying, and boundary surveys. He is responsible for the field surveying operations in South Florida. He oversees four field crews (on average) with the daily coordination and preparation of their work and quality control for those projects. These include right-of-way and road construction surveying, boundary surveys for the following entities; Florida Department of Transportation, Florida Power and Light, various municipalities, and utility companies. Scot is also proficient in computer-aided design and coordinating geometry applications

CPC TEAM AVAILABILITY AND COMMITMENT: 100%

Our team has a proven track record on relevant projects. We are very familiar with the local features and common issues found in this agreement for Professional Engineering and Surveying Services. Our current workload allows our staff to be available on an as needed basis for this contract. Based upon CPC's current workload and projected workload, CPC is currently operating at less than 70% utilization - company wide and has staff available on an as needed basis for any tasks to be awarded under this agreement. As shown in the Staffing Resources Table, included in this section, all key personnel are projected to be at least 50% available for any projects awarded under this agreement.

We are 100% committed to an innovative and cost effective engineering style, which has produced superior results every time and we pride ourselves on these successful results. We look forward to demonstrating our commitment on these very important City of Delray Beach projects and working hard to accomplish our joint goals of making this project a success!

Established in 1977, CPC has been providing professional engineering services for over 40 years in South Florida. CPC's headquarters is at 814 S. Military Trail in Deerfield Beach, Florida. The close proximity of our office to the City of Delray Beach allows our staff to provide the quickest response to your needs, including impromptu site visits as well as in-office meetings. CPC is currently registered with the State of Florida, Division of Corporation to do business in Florida. Current, active engineering license from the Board of Professional Engineers and Surveying and Mapping Licenses and supporting documentation are included per the RFQ. CPC's current county and city business licenses are also included per the RFQ.



SECTION 5

Required Forms

Form B - Public Entity Crimes

NOTIFICATION OF PUBLIC ENTITY CRIMES LAW

Pursuant to Section 287.133, *Florida Statutes*, you are hereby notified that a person or affiliate who has been placed on the convicted contractors list following a conviction for a public entity crime may not submit a proposal on a contract to provide any goods or services to a public entity; may not submit a proposal on a contract with a public entity for the construction or repair of a public building or public work; may not submit proposals on leases or real property to a public entity; may not be awarded or perform work as a contractor, supplier, sub-Proposer, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017 [F.S.] for Category Two [\$35,000.00] for a period of thirty-six (36) months from the date of being placed on the convicted contractors list.

Acknowledged by:

Carnahan Proctor and Cross, Inc.

Firm Name

5/16/2017

Signature

Date

Gregory M. Proctor, P.E. - President/CEO

Printed Name and Title

Form C - Drug-Free Workplace

In the event a tie exists at the conclusion of evaluations, preference will be given to the supplier(s) who certifies it has a drug-free workplace program in accordance with Section 287.087, Florida Statutes. The drug-free workplace preference is applied as follows:

TIE: Whenever two or more proposals are equal with respect to scoring for the evaluation criteria (e.g., price, experience, quality, service) are received for the procurement of commodities or contractual services, a proposal received from a supplier that certifies that it has implemented a drug-free workplace program shall be given preference in the award process. Established procedures for processing a tie will be followed if none of the tied suppliers have submitted this Form C and/or have a drug-free workplace program.

As the person authorized to sign this statement, I certify that this firm complies fully with the following requirements:

- 1) This firm publishes a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
- 2) This firm informs employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
- 3) This firm gives each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (1).
- 4) In the statement specified in subsection (1), this firm notifies the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
- 5) This firm imposes a sanction on or requires the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.
- 6) This firm will continue to make a good faith effort to maintain a drug-free workplace through implementation of this section.

Acknowledged by:

Carnahan Proctor and Cross, Inc.

Firm Name

5/16/2017

Signature

Date

Gregory M. Proctor, P.E. - President/CEO

Printed Name and Title

Form D - Conflict of Interest Disclosure

The award of the agreement is subject to the provisions of Chapter 112, Florida Statutes. All Proposers must disclose within their Proposal, the name of any officer, director, or agent who is also an employee or relative of an employee of the City of Delray Beach.

Furthermore, all Proposers must disclose the name of any City employee or relative(s) of a City employee who owns, directly or indirectly, an interest in the Proposers firm or any of its branches.

The purpose of this disclosure form is to give the City the information needed to identify potential conflicts of interest for key personnel involved in the award of this contract.

The term "conflict of interest" refers to situations in which financial or other personal considerations may adversely affect, or have the appearance of adversely affecting, an employee's professional judgment in exercising any City duty or responsibility in administration, management, instruction, research, or other professional activities.

Please check one of the following statements and attach additional documentation if necessary:

☒ To the best of our knowledge, the undersigned firm has no potential conflict of interest as defined in Chapter 112, Florida Statutes and Section 2-443, Palm Beach County Code of Ordinances.

☐ The undersigned firm, by attachment to this form, submits information which may be a potential conflict of interest due to other Cities, Counties, contracts, or property interest for this RFQ.

Acknowledged by:

Carnahan Proctor and Cross, Inc.

Firm Name

5/16/2017

Signature

Date

Gregory M. Proctor, P.E. - President/CEO

Printed Name and Title

Form E - Acknowledgment of Addenda

The Proposer hereby acknowledges the receipt of the following addenda, which were issued by the City and incorporated into and made part of this RFQ. It is the sole responsibility of the Proposer to ensure that all addenda have been received and receipt of each has been acknowledged. Failure to submit acknowledgement of each addendum issued may result in the Proposer being deemed non-responsive.

ADDENDA NUMBER	ADDENDA DATE
Addendum No. 1	4/24/2017
Addendum No. 2	4/27/2017
Addendum No. 3	5/04/2017
Addendum No. 4	5/10/2017
Addendum No. 5	5/10/2017
Addendum No. 6	5/11/2017
Addendum No. 7	5/19/2017

	President/CEO
Signature of Proposer's Agent	Title
Gregory M. Proctor, P.E.	5/16/2017
Printed Name	Date



CITY OF DELRAY BEACH
100 N.W. 1st AVENUE, DELRAY BEACH, FL 33444

Solicitation Addendum

Addendum No.: 1

Solicitation No.: RFQ No. 2017- 048

Projects No.:

Solicitation Title: Continuing Engineering, Surveying, and Landscaping
Architectural Consulting Services

Addendum Date: April 24, 2017

**Purchasing
Contact:** Jose Hidalgo - hidalgoj@mydelraybeach.com

THE FOLLOWING ITEMS ARE MADE AND HEREBY BECOME A PART OF THIS SOLICITATION:

1. QUESTIONS AND RESPONSES

Q1. Based on the disciplines listed in" Section 3.A SCOPE" of the RFQ, it appears that a complete team qualified in all sub-categories (1-12) will be required in order to be considered responsive. Can you please confirm?

R1.

It is not necessary to have a full team in order to qualify in a category. Applicants may submit a full team for just one category or individually for one or more of the subcategories. For instance, a Mechanical Engineering firm may submit in Category 5 individually, but may also be included in a team submittal for Category 4 Civil Engineering. The same would be true for Surveying and Mapping – a firm may submit individually for Category 2, but also be included on a larger team in a different Category.

Q2. Who are the incumbents for this contract?

R2.

Our current library consists of Calvin Giordano and Associates, Kimley-Horn and Associates, Mathews Engineering and the Wantman Group, Inc. This Scope is expanded from previous requests for qualifications, however.

Q3. For the General Engineering, Surveying, and Landscaping Architectural Consulting Services advertisement, can a firm be both a sub-consultant on a team and also submit as the prime on a different team? Thanks.

R3.
Yes.

Q4. I was wondering if you could help clarify something regarding this solicitation. Can an MEP firm apply for our disciplines only in Mechanical, Electrical and Plumbing? Or would we need to come in as a sub under let's say a Civil Engineering firm?

R4.
Applicants may submit for just one category or individually for one or more of the subcategories. For instance, a Mechanical Engineering firm may submit in Category 5 individually, but may also be included in a team submittal for Category 4 Civil Engineering. The same would be true for Surveying and Mapping – a firm may submit individually for Category 2, but also be included on a larger team in a different Category.

NOTE: Items that are ~~struck through~~ are deleted. Items that are underlined have been added. All other terms and conditions remain as stated in the RFQ.

End of Addendum

INSTRUCTIONS:

Receipt of this addendum must be acknowledged as instructed in the solicitation document. Failure to acknowledge receipt of this Addendum may result in the disqualification of Respondent's response.



CITY OF DELRAY BEACH
100 N.W. 1ST AVENUE, DELRAY BEACH, FL 33444

Solicitation Addendum

Addendum No.: 2

Solicitation No.: RFQ No. 2017- 048

Projects No.:

Solicitation Title: Continuing Engineering, Surveying, and Landscaping
Architectural Consulting Services

Addendum Date: April 27, 2017

Purchasing Contact: Jose Hidalgo - hidalgoj@mydelraybeach.com

THE FOLLOWING ITEMS ARE MADE AND HEREBY BECOME A PART OF THIS SOLICITATION:

CHANGES

1. Change to Summary, Table 1

Change to:
Summary, Table 1

Table 1

ACTIVITY	DATE
Issue RFQ	April 14, 2017
Non-Mandatory Pre-proposal Conference	April 26, 2017 at 10:00 a.m., ET at City Hall's Conference Room
Deadline for Delivery of Questions	May 3, 2017
Due Date and Time (for delivery of Proposals)	May 16, 2017 by 2:00 p.m., ET
Institute Cone of Silence	May 16, 2017 at 2:00 p.m., ET
Phase 1 Evaluation	May 26, 2017
Selection Committee Meeting – Technical Evaluations	June 2, 2017 at 9:30 a.m. ET at ESD Training Room
Selection Committee Meeting – Interviews (if conducted)	June 9, 2017 at 9:30 a.m. ET at ESD Training Room
Selection Committee Meeting - Final Evaluations	June 14 ~~16~~ , 2017 at 8:30 <u>9:30</u> a.m. ET at City Hall's Conference Room

NOTE: Items that are ~~struck through~~ are deleted. Items that are underlined have been added. All other terms and conditions remain as stated in the RFQ.

End of Addendum

INSTRUCTIONS:

Receipt of this addendum must be acknowledged as instructed in the solicitation document. Failure to acknowledge receipt of this Addendum may result in the disqualification of Respondent's response.



CITY OF DELRAY BEACH
100 N.W. 1st AVENUE, DELRAY BEACH, FL 33444

Solicitation Addendum

Addendum No.: 3

Solicitation No.: RFQ No. 2017- 048

Projects No.:

Solicitation Title: Continuing Engineering, Surveying, and Landscaping
Architectural Consulting Services

Addendum Date: May 4, 2017

Purchasing Contact: Jose Hidalgo - hidalgoj@mydelraybeach.com

THE FOLLOWING ITEMS ARE MADE AND HEREBY BECOME A PART OF THIS SOLICITATION:

CHANGES

1. **Change to Section 2 – Proposal Response Requirements, Item 3 – Minimum Qualification Requirements, Paragraph D - Must employ a minimum of two individuals who holds a current, valid Florida license in engineering, surveying and/or landscaping architecture as is applicable to the discipline(s) Proposer is submitting as follows:**
 - iv. **Engineering – Florida Board of Professional Engineers**
 - v. **Surveying – Florida Department of Agriculture and Consumer Services - LS**
 - vi. **Landscape Architectural - Florida Board of Landscape Architecture**

Change to:

Must employee employ a minimum of two individuals (If Proposer submits Bid for only one discipline/ category) and a minimum of one individual per discipline/ category (If Proposer submits Bid for multiple disciplines/ categories) who holds a current, valid Florida license in engineering, surveying and/or landscaping architecture as is applicable to the discipline(s) Proposer is submitting as or :

- iv. Engineering – Florida Board of Professional Engineers
- v. Surveying – Florida Department of Agriculture and Consumer Services - LS
- vi. Landscape Architectural - Florida Board of Landscape Architecture

2. **Change to Section 2 – Proposal Response Requirements, Item 4 – Proposal Response Requirements, Letter A – Experience, Background, Reference Feedback, Sub-item iv – Submit the following information documenting experience of the key personnel proposed by Proposer to include, but not limited to the following:**
- a. **List of up to ten (10) key personnel who are proposed for work on this project to include any subcontractors.**

Change to:

- a. List of up to ten (10) key personnel who are proposed for work on this project to include any subcontractors (If Proposer submits Bid for only one discipline/ category), and up to five (5) key personnel per discipline/ category, who are proposed for work on this project to include any subcontractors (If Proposer submits Bid for only multiple disciplines/ categories).

3. **Change to Section 2 – Proposal Response Requirements, Item 4 – Proposal Response Requirements, Letter C – Projects for similar services - List up to ten projects that Proposer has provided Professional Services since September 1, 2013 to include the following information:**
- i. **Organization/Owner name**
ii. **Address (City/State)**
iii. **Project date (Start/End)**
iv. **Status of project (Design, Construction, Substantial Completion, Complete)**
v. **Scope (Type of Professional Service provided)**

Change to:

List up to ten projects that Proposer has provided Professional Services since September 1, ~~2013~~ 2011 to include the following information:

- i. Organization/Owner name
ii. Address (City/State)
iii. Project date (Start/End)
iv. Status of project (Design, Construction, Substantial Completion, Complete)
v. Scope (Type of Professional Service provided)

NOTE: Items that are ~~struck through~~ are deleted. Items that are underlined have been added. All other terms and conditions remain as stated in the RFQ.

End of Addendum

INSTRUCTIONS:

Receipt of this addendum must be acknowledged as instructed in the solicitation document. Failure to acknowledge receipt of this Addendum may result in the disqualification of Respondent's response.



CITY OF DELRAY BEACH
100 N.W. 1st AVENUE, DELRAY BEACH, FL 33444

Solicitation Addendum

Addendum No.: 4

Solicitation No.: RFQ No. 2017- 048

Projects No.:

Solicitation Title: Continuing Engineering, Surveying, and Landscaping
Architectural Consulting Services

Addendum Date: May 10, 2017

Purchasing Contact: Jose Hidalgo - hidalgoj@mydelraybeach.com

THE FOLLOWING ITEMS ARE MADE AND HEREBY BECOME A PART OF THIS SOLICITATION:

QUESTIONS AND RESPONSES

Q1. Who are the selection committee members?

R1.

Missie Barletto, William Wilsher, Suzanne Fisher

Q2. Is there a local preference criteria for this RFQ?,

R2.

No.

Q3. Can a firm serve as both a prime consultant and as a sub-consultant on other team(s)?

R3.

Yes.

Q4. Can you please clarify the differences between the civil, engineering and water resources categories?

R4.

Engineering would include a multi-disciplinary team including civil and other categories. For water resources, we are specifically looking for firms that specifically provide and want to be considered primarily for tasks including Stormwater management and/or water quality project engineering as well as computer modeling.

Q5. May a sole consulting firm/team of firms submit qualifications for only some of the disciplines listed in Section 3.A. Scope of the RFQ? Or is a sole respondent/team of consultant firms required to be qualified in all listed categories?

R5.

Yes.

Q6. If a firm is planning to submit as a prime in two categories, namely Civil and Water Resources, do you want up to ten projects for each category or ten projects in total?

R6.

Yes

Q7. If we have comments/clarifications/re-wording needed upon the Sample contract, where is that placed in the RFP?

R7.

Could be revised during negotiations

Q8. If re-wording of the Contract language is required, can that be completed during the contract phase?

R8.

Yes

Q9. Section 4 A.iii – If we are proposing on multiple Professional Services categories, do we submit up to 10 separate references for each category?

R9.

Five per category is adequate

Q10. Section 4 A.iv.a – If we are proposing on multiple Professional Services categories, do we submit up to 10 separate staff resumes for each category?

R10.

Five per category is adequate

Q11. Section 4 B – If we are proposing on multiple Professional Services categories, do we submit separate project management approach for each category?

R11.

Yes

Q12. Section 4 C – If we are proposing on multiple Professional Services categories, do we submit up to 10 separate project examples for each category?

R12.

Five per category is adequate

Q13. Section 4 D – If we are proposing on multiple Professional Services categories, do we submit separate organizational structures for each category?

R13.

If you will be using different staff for each category, yes

Q14. 4C Projects for Similar Services - is it acceptable to have photos with the projects or do we have to use the five page limit attachment for the photos?

R14.

Representative photographs supporting similar projects are permitted as an attachment (limit five pages).

End of Addendum

INSTRUCTIONS:

Receipt of this addendum must be acknowledged as instructed in the solicitation document. Failure to acknowledge receipt of this Addendum may result in the disqualification of Respondent's response.



CITY OF DELRAY BEACH
100 N.W. 1st AVENUE, DELRAY BEACH, FL 33444

Solicitation Addendum

Addendum No.: 5

Solicitation No.: RFQ No. 2017- 048

Projects No.:

Solicitation Title: Continuing Engineering, Surveying, and Landscaping
Architectural Consulting Services

Addendum Date: May 10, 2017

Purchasing Contact: Jose Hidalgo - hidalgoj@mydelraybeach.com

THE FOLLOWING ITEMS ARE MADE AND HEREBY BECOME A PART OF THIS SOLICITATION:

CHANGES

1. Change to Summary, Table 1

Change to:
Summary, Table 1

Table 1

ACTIVITY	DATE
Issue RFQ	April 14, 2017
Non-Mandatory Pre-proposal Conference	April 26, 2017 at 10:00 a.m., ET at City Hall's Conference Room
Deadline for Delivery of Questions	May 3, 2017
Due Date and Time (for delivery of Proposals)	May 16, 22, 2017 at 2:00 p.m., ET
Institute Cone of Silence	May 16, 22, 2017 at 2:00 p.m., ET
Phase 1 Evaluation	May 26, 2017
Selection Committee Meeting – Technical Evaluations	June 2, 2017 at 9:30 a.m. ET at ESD Training Room
Selection Committee Meeting – Interviews (if conducted)	June 9, 2017 at 9:30 a.m. ET at ESD Training Room
Selection Committee Meeting - Final Evaluations	June 14 16, 2017 at 8:30 9:30 a.m. ET at City Hall's Conference Room

2. Change to Summary – DUE DATE: May 16, 2017

Change to:

DUE DATE: May 16, 22, 2017

NOTE: Items that are ~~struck through~~ are deleted. Items that are underlined have been added. All other terms and conditions remain as stated in the RFQ.

End of Addendum

INSTRUCTIONS:

Receipt of this addendum must be acknowledged as instructed in the solicitation document. Failure to acknowledge receipt of this Addendum may result in the disqualification of Respondent's response.



CITY OF DELRAY BEACH
100 N.W. 1ST AVENUE, DELRAY BEACH, FL 33444

Solicitation Addendum

Addendum No.: 6

Solicitation No.: RFQ No. 2017- 048

Projects No.:

Solicitation Title: Continuing Engineering, Surveying, and Landscaping
Architectural Consulting Services

Addendum Date: May 18, 2017

Purchasing Contact: Jose Hidalgo - hidalgoj@mydelraybeach.com

THE FOLLOWING ITEMS ARE MADE AND HEREBY BECOME A PART OF THIS SOLICITATION:

CHANGES

1. Change to Summary – DUE DATE: May 16, 2017

Change to:

DUE DATE: May 16, ~~22~~, 30, 2017

2. Change to Summary, Table 1

Change to:

Summary, Table 1

ACTIVITY	DATE
Issue RFQ	April 14, 2017
Non-Mandatory Pre-proposal Conference	April 26, 2017 at 10:00 a.m., ET at City Hall's Conference Room
Deadline for Delivery of Questions	May 3, 2017
Due Date and Time (for delivery of Proposals)	May 16, ~~22~~ <u>30</u> , 2017 by 2:00 p.m., ET
Institute Cone of Silence	May 16, ~~22~~ <u>30</u> , 2017 at 2:00 p.m., ET

Phase 1 Evaluation	May ~~26~~ <u>June 14</u> , 2017
Selection Committee Meeting – Technical Evaluations	June ~~2~~ <u>28</u> , 2017 at 9:30 a.m. 12:30 p.m. and July 10, 2017 at 9:00 a.m. ET at ESD Training Room
Selection Committee Meeting – Interviews (if conducted)	~~June 9~~ July 26, 2017 at 9:30 a.m. 12:30 p.m. ET at ESD Training Room
Selection Committee Meeting - Final Evaluations	June ~~14~~ <u>16</u> July 31, 2017 at 8:30 ~~9:30~~ 9:00 a.m. ET at City Hall's Conference <u>ESD</u> Training Room

NOTE: Items that are ~~struck through~~ are deleted. Items that are underlined have been added. All other terms and conditions remain as stated in the RFQ.

End of Addendum

INSTRUCTIONS:

Receipt of this addendum must be acknowledged as instructed in the solicitation document. Failure to acknowledge receipt of this Addendum may result in the disqualification of Respondent's response.



CITY OF DELRAY BEACH
100 N.W. 1st AVENUE, DELRAY BEACH, FL 33444

Solicitation Addendum

Addendum No.:	7
Solicitation No.:	RFQ No. 2017- 048
Projects No.:	
Solicitation Title:	Continuing Engineering, Surveying, and Landscaping Architectural Consulting Services
Addendum Date:	May 19, 2017
Purchasing Contact:	Jose Hidalgo - hidalgoj@mydelraybeach.com

THE FOLLOWING ITEMS ARE MADE AND HEREBY BECOME A PART OF THIS SOLICITATION:

1. Replace:

APPENDIX A, AGREEMENT FOR GENERAL CONSULTING SERVICES

Replace Appendix A, Agreement for General Consulting Services with the attached Appendix A, Agreement for General Consulting Services, revised per Addendum 7 which corrects the numbering sequence of Article X.

Questions and Responses

- Q1. In Section 2, Proposal Response Requirements, Item 4C, Projects for Similar Services it states that representative photos can be provided. Is it acceptable to have photos with the projects or do we have to use the five page limit attachment for the photos?**
- R1.** The representative photos should be a separate attachment document from the list of ten projects.
- Q2. In reference to Section 1, Special Terms and Conditions, Paragraph B.13, Subcontractors, second paragraph: a consultant can only agree to be responsible for its subconsultants and subcontractors in accordance with the appropriate Standard of Care (i.e., a manner consistent with the degree of care and skill ordinarily exercised by members of the engineering profession currently practicing under similar circumstances). In addition, the defense portion of this paragraph is not in conformance with Article 725.08, Florida Statutes. Should this provision be revised?**

- R2. Your request has been reviewed. At this time no changes will be made to Section 1, Paragraph B13.
- Q3. In reference to Section 1, Special Terms and Conditions, Paragraph B.41, Indemnity/Hold Harmless Agreement. We request that this paragraph be deleted in its entirety per Florida Statute 725.08 and replaces with the following text: **"Consultant shall indemnify and hold harmless the City and its officers and employees from liabilities, damages, losses, and costs, including but not limited to, reasonable attorneys' fees, to the extent caused by the negligence, recklessness, or intentionally wrongful conduct of the Consultant and other persons employed or utilized by the Consultant in the performance of the contract"**.
- R3. Your request has been reviewed. At this time no changes will be made to Section 1, Item B41.
- Q4. In Appendix A, Agreement for General Consulting Services, Article 1, Definitions; please add a new Item 4 as follows: **"As used herein, the word 'certify' shall mean an expression of the Consultant's professional opinion to the best of its information, knowledge, and belief, and does not constitute a warranty of guarantee by the Contractor"**.
- R4. Your request has been reviewed. At this time no changes will be made to Appendix A, Agreement, Article 1.
- Q5. In Appendix A, Agreement for General Consulting Services, Miscellaneous Provisions; note that this Article begins with paragraph numbering on page 14 and switches to paragraph lettering on page 16.
- R5. The numbering sequence has been updated. A revised Appendix A, Agreement for General Consulting Services is attached to this Addendum 7.
- Q6. In Appendix A, Agreement for General Consulting Services, Article X, Paragraph T, Indemnification, first paragraph; please delete in its entirety and replace with the following text: **"Consultant shall indemnify and hold harmless the City and its officers and employees from liabilities, damages, losses, and costs, including but not limited to, reasonable attorneys' fees, to the extent caused by the negligence, recklessness, or intentionally wrongful conduct of the Consultant and other persons employed or utilized by the Consultant in the performance of the contract"**.
- R6. Your request has been reviewed. At this time no changes will be made to Appendix A, Article X.
- Q7. On page 14 of the RFP, Item 13, Subcontractors, second paragraph states that **"Proposer shall defend, at Proposer's expense, counsel begin subject to the City's approval or disapproval, and indemnify and hold harmless the City and the City's officers, employees, and agents from and against any claim, lawsuit, third-party action, or judgement, including any award of attorney's fees and any award costs, by or in favor of any Proposer's subconsultants for payment for work performed by the City. We believe that the indemnification language in the paragraph violates the intent of Florida Statute 725.08. We would like to request a modification. What is the best way for the City to receive this modification?"**
- R7. Your request for modification has been reviewed. At this time no changes will be made to the RFQ, Section 1, Special Terms and Conditions, Item 13, Subcontractors.

- Q8. In reference to page 22 of the RFP, Item 41; we believe that the indemnification language contained in the paragraph violates the intent of Florida Statute 725.08. We request a modification to this item. What is the best way for the City to receive this modification?
- R8. Your request for modification has been reviewed. At this time no changes will be made to the RFQ, Section 1, Special Terms and Conditions, Item 41, Indemnity/Hold Harmless Agreement.
- Q9. In reference to page 21 of the RFP, Appendix A, Item T; paragraph refers to Section 725.06 of Florida Statute which is not applicable to Professional Services Agreement and applies to Construction Agreements. We believe that the indemnification language contained in this paragraph violates the intent of Florida Statutes. We would like to request a modification to this item. What is the best way for the City to receive this modification?
- R9. Your request has been reviewed. At this time no changes will be made to Appendix A, Section 1, Item B41, Indemnity/Hold Harmless Agreement.

NOTE: Items that are struck through are deleted. Items that are underlined have been added. All other terms and conditions remain as stated in the RFQ.

End of Addendum

INSTRUCTIONS:

Receipt of this addendum must be acknowledged as instructed in the solicitation document. Failure to acknowledge receipt of this Addendum may result in the disqualification of Respondent's response.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

5/24/2017

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: Michellita Mercado-Swaney PHONE (A/C, No, Ext): 954-724-7000 E-MAIL ADDRESS: mmercado@keyescorverage.com FAX (A/C, No): 954-724-7010	
		INSURER(S) AFFORDING COVERAGE	
		INSURER A: Hanover Insurance Company	
		INSURER B: Admiral Insurance Company	
		INSURER C: Bridgefield Employers Ins Co	
		INSURER D:	
		INSURER E:	
		INSURER F:	

INSURED 681

Carnahan Proctor & Cross Inc
814 S. Military Trail
Deerfield Beach FL 33442**COVERAGES**

CERTIFICATE NUMBER: 450931072

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	☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☒ PRO-JECT ☒ LOC OTHER:	Y	Y	ZZJ A804762-01	12/31/2016	12/31/2017	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 \$
A	☒ AUTOMOBILE LIABILITY ☒ ANY AUTO ☐ ALL OWNED AUTOS ☒ HIRED AUTOS ☐ SCHEDULED AUTOS ☒ NON-OWNED AUTOS	Y	Y	AZJ A804818-01	12/31/2016	12/31/2017	COMBINED SINGLE LIMIT (Ea accident) \$1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
A	☒ UMBRELLA LIAB ☒ EXCESS LIAB ☒ OCCUR ☐ CLAIMS-MADE DED ☒ RETENTION \$50	Y	Y	UHJ A804765-02	12/31/2016	12/31/2017	EACH OCCURRENCE \$5,000,000 AGGREGATE \$5,000,000 \$
C	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	N/A	083056388	3/8/2017	3/8/2018	☒ PER STATUTE ☐ 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			EO000026443-03	8/19/2016	8/19/2017	Aggregate 2,000,000 Each Claim 2,000,000 Retention 40,000

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-Pay

City of Delray Beach
100 NW 1st Avenue
Delray Beach FL 33444

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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EXHIBIT "B"



Category: Civil Engineering

Hourly Raw Salary Rate

Principal Engineer	\$ 53.42
Project Manager	\$ 33.06
Senior Engineer	\$ 34.61
Engineer I	\$ 20.00
Engineer II	\$ 24.52
Senior Engineering Tech	\$ 25.21
Senior CADD Designer	\$ 21.75
CADD Designer	\$ 20.00
Construction Manager	\$ 30.00
Senior Inspector	\$ 22.00
Office Support	\$ 18.68

PRICE ADJUSTMENTS BASED ON GOVERNMENTAL PRICE INDEX

Prior to the completion of the first year of the Contract term, and every 12-month anniversary thereafter, the City may consider an adjustment to prices based on the most recent 12 month change in the following pricing index: Bureau of Labor Statistics, Employment Cost Index, Private Industry Workers, Total Compensation, Management business and financial occupations, Not Seasonally Adjusted, CIU2010000110000A.

It is Consultant's responsibility to request any pricing adjustment under this provision. For any adjustment to be considered, the Consultant's request for adjustment should be submitted at least sixty (60) days prior to the anniversary date. The adjustment requested shall not be in excess of the relevant pricing index change. If a timely adjustment request is not received from the Consultant, the City may exercise its Option to Renew the Contract for another Term without any pricing adjustment.