



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)

CHEN MOORE AND ASSOCIATES, 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 **Chen Moore and Associates, Inc.**, a Florida corporation (hereinafter referred to as "Consultant"), whose principal address is 500 Australian Avenue South, Suite 530, West Palm Beach, Florida 33401.

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:

Chen Moore and Associates, Inc.
500 Australian Avenue South, Suite 530
West Palm Beach, Florida 33401
Attn: Peter Moore, 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.

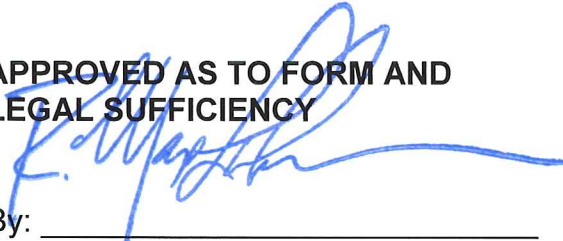
CITY OF DELRAY BEACH, FLORIDA

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: 

Title: Vice President

WITNESSES:

By: 

Print Name: Kathy Hourigan

By: 

Print Name: Karen Radley

EXHIBIT A

RFQ No. 2017-048

Continuing Engineering, Surveying, and
Landscaping Architectural Consulting Services
(918-42, 918-89, 906-56)



Primary Office Location/Local Business Address

Chen Moore and Associates

500 Australian Avenue South, Suite 850

West Palm Beach, FL 33401

Telephone: +1 (561) 746-6900

Fax: +1 (561) 746-8333

Contact Person: Brent Whitfield, P.E.

bwhitfield@chenmoore.com

May 30, 2017 2pm

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500 Australian Avenue South
Suite 850
West Palm Beach, FL 33401
Phone: +1 561.746.6900
Fax: +1 561.746.8333
www.chenmoore.com

Letter of Intent

May 30, 2017

Delray Beach Purchasing Department
100 N.W. 1st Avenue
Delray Beach, Florida, 33444

Re: RFQ No. 2017-048 Continuing Engineering, Surveying, and Landscaping Architectural Consulting Services
(918-42, 918-89, 906-56)

Dear Selection Committee,

Chen Moore and Associates (CMA) is pleased to submit our response for professional consulting engineering services. In this letter, we would like to introduce you to our capabilities, our culture, our key staff and our commitment.

Our Capabilities

CMA is a civil engineering and landscape architecture firm founded in 1986 with five offices in Florida. We are a certified M/SBE in the state of Florida. From our West Palm Beach office, CMA has significant experience providing continuing engineering services for local municipalities including the Town of Palm Beach, City of Riviera Beach, City of West Palm Beach and the City of Lake Worth. Considering each of these clients are coastal communities with aging infrastructure, our work demonstrates that our core competency is providing engineering solutions to the same types of problems faced by an "All American City" like Delray Beach. The following projects provide examples of work we have provided our current clients that are pertinent to the infrastructure needs of the City of Delray Beach:

- Town of Palm Beach – Cherry Lane Drainage Improvements
- City of Lake Worth – Neighborhood Street Program: District 4
- City of Riviera Beach – Neighborhood Improvement Program
- City of West Palm Beach – Sub-consultant to GreenPlay for Parks and Recreation Master Plan
- City of Fort Lauderdale – Streetscape Master Plan for Dixie Hwy in Middle River Terrace

Our Culture

Our client service from the local office offers a unique range of professional expertise. Of the 15 staff members in our West Palm Beach office we have 4 licensed professional engineers, 2 registered landscape architects, 1 certified irrigation designer and 1 certified arborist. This diversity of skills lends itself to unique solutions that blend the technical aspects of engineering with the creative aspects of landscape architecture. For drainage projects, that means not only sizing a retention facility, but specifying littoral plantings for aesthetics and water quality treatment. For roadway projects, we understand that a complete street is not just about paving, but includes aesthetic elements and solves mobility issues for pedestrians and bicyclists as well. As a firm that has located our West Palm Beach and Fort Lauderdale offices adjacent to Tri-Rail stations, the benefits of all forms of mobility is one of our core tenants.



Our Key Staff – Engineering and Landscape Architecture

The individual staff members assigned to this project are local to Palm Beach County and are committed to provide quality and responsive service to the City. The success of this project is very important to CMA; therefore, for three of the categories listed in the RFP (1) Engineering, (4) Civil and (9) Water Resources, we are committing Mr. Brent Whitfield, P.E. as the primary contact and project manager. Mr. Whitfield's contact information is as follows:

Mr. Brent Whitfield, P.E. – Director of Water Resources

Email: bwhitfield@chenmoore.com; Mobile: 561-329-1797

500 Australian Ave S, Suite 850, West Palm Beach, FL, 33401

Mr. Whitfield has 14 years of professional experience in the planning, design, permitting, and implementation of capital improvements projects throughout the state of Florida. In a municipal setting, Mr. Whitfield led the Pavement Management Master Plan and public outreach efforts for the City of Lake Worth to secure the \$40 million neighborhood street program bond. Brent was also the lead engineer for the hydraulic design of Stormwater Treatment Area-1w Expansion. In that capacity, he developed conceptual alternatives for facility configuration, and hydraulic models of the infrastructure used in preparing Construction Plans and Specifications.

For RFP category (3) Landscaping Architectural Design Services, we are committing Mr. Cristobal Betancourt, RLA as the primary contact and Project Manager. Mr. Betancourt has 22 years of professional experience throughout the state of Florida with a specialization in parks and recreation and public space design.

Mr. Cristobal Betancourt, RLA – Director of Landscape Architecture and Planning

Email: cbetancourt@chenmoore.com; Mobile: 772-486-9250

500 Australian Ave S, Suite 850, West Palm Beach, FL, 33401

In addition to standard landscape architectural services, Cris and his team have worked with FDOT on urban corridors, several cities to develop master plans for central control irrigation systems, and they are currently working with the City of Gainesville to develop long term solutions to the decline of their urban canopy.

As a relatively smaller firm, we pride ourselves on responsive service focused on our areas of expertise. As such, we do not maintain practices for surveying, geotechnical investigations or other services outside of our core capabilities. To support our core services, our team includes Avirom for surveying, InfraMap for subsurface utility exploration, GFA Inc. for geotechnical, Florida Technical Consultants for GIS support, and The Merchant Strategy for public outreach.

Our Commitment

The City of Delray Beach is a high-priority client for CMA, and will receive high quality, responsive services throughout the project duration. At CMA, we are dedicated to improving the community where we live and work. We look forward to the opportunity to show that commitment and dedication to the City Staff. Should you have any questions, please do not hesitate to contact me at (561) 746-6900, ext.1002 or pmoore@chenmoore.com.

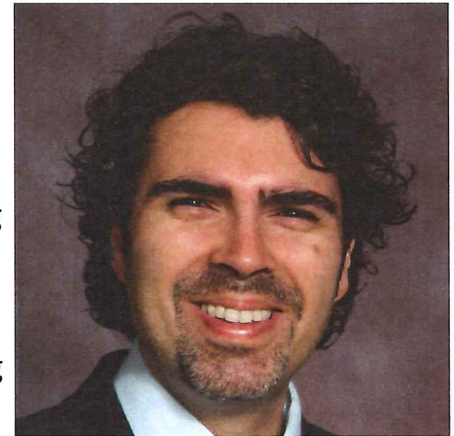
Respectfully submitted,



CHEN MOORE AND ASSOCIATES
Peter Moore, P.E., F.ASCE, LEED AP
President



Project Manager:
Brent Whitfield, P.E.



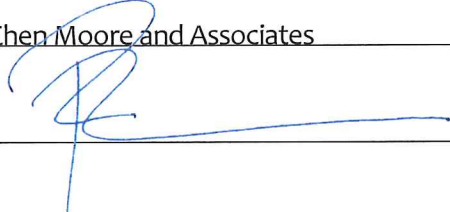
Project Manager:
Cris Betancourt, RLA

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: Chen Moore and Associates
Street Address: 500 Australian Avenue South, Suite 530 West Palm Beach, FL 33401
Mailing Address (if different from Street Address): N/A
Telephone Number(s): (561) 746-6900
Fax Number(s): (561) 746-8333
Email Address: bwhitfield@chenmoore.com
Federal Identification Number: 59-2739866

Acknowledged by:

Chen Moore and Associates
Firm Name

Signature
March 7, 2017
Date
Peter Moore, P.E., LEED AP, F.ASCE, 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 |
|-------------------------------------|---|---|--|
| <input checked="" type="checkbox"/> | Corporation | President, Vice President, or Chief Executive Officer | None |
| <input type="checkbox"/> | Corporation | Director, Manager, or other title | Corporate resolution |
| <input type="checkbox"/> | Limited Liability Company (LLC) – Member-Managed | Member | Articles of Organization or Operating Agreement |
| <input type="checkbox"/> | Limited Liability Company (LLC) – Manager-Managed | Manager | Articles of Organization or Operating Agreement |
| <input type="checkbox"/> | Limited Partnership | General Partner | Document demonstrating the legal authority to bind the Limited Partnership |
| <input type="checkbox"/> | Partnership | Partner | None |
| | | CEO, Director, Manager or other title | Authorizing documentation |
| <input type="checkbox"/> | Individual | Individual | None |

☒ Documentation is not required.

☐ The required authorizing documentation is included with Proposal.

Proposer's Statement of Organization

A. Legal contracting name including any dba.

Chen Moore and Associates

B. State of organization or incorporation.

Chen Moore and Associates is a Florida corporation.

C. Ownership structure of Proposer's company.

(e.g., Sole Proprietorship, Partnership, Limited Liability Corporation, Corporation)

Chen Moore and Associates is a Florida corporation.

D. W9

59-2739866

E. Contact information for Proposer's Corporate headquarters.

500 West Cypress Creek Road, Suite 630 Fort Lauderdale, FL 33309

F. Contact information for Proposer's Local office (if any).

500 Australian Avenue South, Suite 850 West Palm Beach, FL 33401

G. Contact information for Proposer's primary representative during this RFQ process

Brent Whitfield, P.E.

500 Australian Avenue South, Suite 850 West Palm Beach, FL 33401

Phone: (561) 746-6900

Fax: (561) 746-8333

bWhitfield@chenmoore.com

H. Contact information for Proposer's Secondary representative during this RFQ process.

Peter Moore, P.E., LEED AP, F.ASCE

500 Australian Avenue South, Suite 850 West Palm Beach, FL 33401

Phone: (561) 746-6900

Fax: (561) 746-8333

pmoore@chenmoore.com

I. List of officers, owners and/or partners, or managers of the firm. Include names, addresses, and phone numbers

| Owner Name | Address | Phone Number |
|---|--|--------------------|
| Dr. Ben Chen, P.E., BCEE - Chairman | 500 West Cypress Creek Road, Suite 630 Fort Lauderdale, FL 33309 | (954) 730- 0707 |
| Peter Moore, P.E., LEED AP - President | 500 West Cypress Creek Road, Suite 630 Fort Lauderdale, FL 33309 | (954) 730- 0707 |

| Owner Name | Address | Phone Number |
|--|--|----------------|
| Jason McClair, P.E., LEED AP, CFM - Vice President | 500 West Cypress Creek Road, Suite 630 Fort Lauderdale, FL 33309 | (954) 730-0707 |
| Safiya Brea, P.E., LEED AP - Secretary | 500 West Cypress Creek Road, Suite 630 Fort Lauderdale, FL 33309 | (954) 730-0707 |
| Jose Acosta, P.E.- Vice President | 155 South Miami Avenue, Penthouse II-A Miami, FL 33130 | (786) 497-1500 |
| Cris Betancourt, RLA - Director of Landscape Architecture and Planning / Owner | 500 Australian Avenue South, Suite 850 West Palm Beach, FL 33401 | (561) 746-6900 |

J. Briefly summarize any current or pending litigation in which Proposer is a part to.

In today's litigious society, businesses are constantly confronted with civil claims and Chen Moore and Associates has not been spared that exposure. With respect to current/pending or past litigation/arbitration in the last seven (7) years CMA has been involved in three cases which are explained in history detailed below. We assert that this history (1) will have no material negative impact on CMA's ability to execute this project, (2) does not display an undesirable pattern of litigation with owners over construction matters and (3) does not have a claim against its bonding company in the last seven (7) years wherein the bonding company was required to take over and complete the project or pay outstanding liens on the project.

We wish to reiterate that just because we are involved in litigation, it does not reflect on our culpability in the cases. In fact, we believe our full disclosure in these matters displays good faith. We welcome the Evaluation Committee to review CMA and all other vendors for their willingness to disclose active and past cases by visiting any of the respective Clerk of the Court Websites. As an example, the Miami-Dade County Civil, Family and Probate Courts Online System (<https://www2.miami-dadeclerk.com/ocs/?AspxAutoDetectCookieSupport=1>) will display all three cases listed below.

Case No: 11-30999 CA 02 in the 11th Circuit Court of Miami-Dade

Case Name: Steven I. Gunther vs. M. Vila Associates, City of Miami Beach, Chen and Associates Consulting Engineers, Inc.

Date Filed: June 4, 2012

Type of Case: civil

Claim or Cause of Action: Chen Moore and Associates is a co-defendant in a personal injury suit with one count for negligence.

Brief Description: During a streetscaping project, the complaintant asserts that the plaintiff fell off their motor scooter while driving through a construction zone.

Amount: more than \$25,000; exact amount not known

Agencies Involved: 11th Circuit Court of Miami-Dade County, 175 NW 1st Avenue, Miami FL 33128; City of Miami Beach Police Department, 1100 Washington Avenue Miami Beach, FL 33139

Disposition of Case: closed

Opposing Counsel: David A. Hagen, P.A., Phone: 305.373.4200; hagen.esq@lawyer.com

In *Gunther v. M. Vila, City of Miami Beach and CMA*; Case Number 2011-030999-CA-01, the plaintiff asserted a negligence action alleging that he was injured when he rode his scooter over a pothole in a crosswalk located within the City of Miami Beach. The plaintiff alleged that the pothole was the result of defective construction of the crosswalk and the failure to inspect the defective construction. M. Vila was the contractor that performed the work and the City of Miami Beach retained the responsibility for safety inspections. CMA had no contractual responsibility relating to the alleged defective work and inspection. CMA was improperly included as a defendant and the case against CMA was dismissed.

Case No: 13-025280 CA-01 (05)

Case Name: Luis A. Nazario as Personal Representative of Estate of Miriam Cabrera v. M. Vila Associates, City of Miami Beach, Metro Express, and Chen Moore & Associates

Date Filed: March 12, 2014

Type of Case: Civil

Claim or Cause of Action: Chen Moore and Associates is a co-defendant in a wrongful death action with one count of negligence

Brief Description: The complaint asserts that, during a streetscaping project, the defendant fell off the back of a motorcycle while driving through a construction zone

Amount: More than \$25,000; exact amount not known

Agencies Involved: 11th Judicial Circuit Court in and for Miami-Dade County, 175 NW 1st Avenue, Miami, FL 33128; City of Miami Beach

Disposition of Case: Pending

Opposing Counsel: Hiram M. Montero, P.A., hmontero@monterolaw.com, 954.767.6500

In *Nazario v. M. Vila, City of Miami Beach, Metro Express, and CMA*; Case Number 2013-025280-CA-01, CMA was similarly sued despite having no contractual responsibility with respect to the alleged defective work. This negligence action arose out of the death of a passenger on a motorcycle that is alleged to have hit a sanitary sewer manhole located within the City of Miami Beach. CMA had no responsibility whatsoever relating to sanitary sewer placement or construction. CMA designed the water main and stormwater system and contracted to provide part-time RPR services with respect to the work CMA designed. The sanitary sewer was designed by the City of Miami Beach and installed by the city's contractor. The City of Miami Beach hired another consultant to oversee and inspect the sanitary sewer work. The plaintiff further alleged that CMA was negligent in the design, oversight and implementation of maintenance of traffic ("MOT"), notwithstanding the fact that CMA had no responsibility with respect to MOT. The city's contractor had design and implementation responsibility and the review, approval and oversight of MOT was the responsibility of the City of Miami Beach. Notwithstanding this, CMA has been included as a defendant. This case is still pending, but CMA believes the court will ultimately find that it was not a responsible party.

Case No: 16-011970 CA-01

Case Name: Valentino Castro v. M. Vila Associates and Chen Moore & Associates

Date Filed: May 11, 2016

Type of Case: Civil

Claim or Cause of Action: Chen Moore and Associates is a co-defendant in a wrongful death action with one count of negligence

Brief Description: The complaint asserts that, during a streetscaping project, the complainant was ejected from a motorcycle while driving through a construction zone

Amount: More than \$25,000; exact amount not known

Agencies Involved: 11th Judicial Circuit Court in and for Miami-Dade County, 175 NW 1st Avenue, Miami, FL 33128; City of Miami Beach

Disposition of Case: Pending

Opposing Counsel: Hugo V. Alvarez, P.A., halvarez@alvarezbarbara.com, 305.263.7700

Similar to the Nazario Case, in Castro v. M. Vila, City of Miami Beach, Metro Express, and CMA; Case Number 2016-011970-CA-01, CMA was similarly sued despite having no contractual responsibility with respect to the alleged defective work. This negligence action arose out of the death of a passenger on a motorcycle that is alleged to have hit a sanitary sewer manhole located within the City of Miami Beach. CMA had no responsibility whatsoever relating to sanitary sewer placement or construction. CMA designed the water main and stormwater system and contracted to provide part-time RPR services with respect to the work CMA designed. The sanitary sewer was designed by the City of Miami Beach and installed by the city's contractor. The City of Miami Beach hired another consultant to oversee and inspect the sanitary sewer work. The plaintiff further alleged that CMA was negligent in the design, oversight and implementation of maintenance of traffic ("MOT"), notwithstanding the fact that CMA had no responsibility with respect to MOT. The city's contractor had design and implementation responsibility and the review, approval and oversight of MOT was the responsibility of the City of Miami Beach. Notwithstanding this, CMA has been included as a defendant. This case is also still pending, but CMA believes the court will ultimately find that it was not a responsible party.

K. Provide details of any ownership changes to Proposer's organization in the past three years or changes anticipated within six months of the Due Date and Time (e.g., mergers, acquisitions, changes in executive leadership).

As a privately held company, shares are often bought and sold between shareholders of the firm; however, there have been no changes in the executive leadership within the past three years, nor is any anticipated in the next six months, barring catastrophe or illness.

**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.

Name (as shown on your income tax return)
Chen Moore and Associates Inc

Business name/disregarded entity name, if different from above

Check appropriate box for federal tax classification:
☐ Individual/sole proprietor ☐ C Corporation ☒ S Corporation ☐ Partnership ☐ Trust/estate
☐ Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ ☐ Exempt payee
☐ Other (see instructions) ▶

Address (number, street, and apt. or suite no.)
500 W Cypress Creek Rd Ste 630
City, state, and ZIP code
Fort Lauderdale FL 33309

Requester's name and address (optional)

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 the "Name" line to avoid backup withholding. For individuals, this is 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 chart on page 4 for guidelines on whose number to enter.

Social security number

| | | | | | | | | | |
|--|--|--|---|--|--|---|--|--|--|
| | | | - | | | - | | | |
|--|--|--|---|--|--|---|--|--|--|

Employer identification number

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 5 | 9 | - | 2 | 7 | 3 | 9 | 8 | 6 | 6 |
|---|---|---|---|---|---|---|---|---|---|

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).

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 4.

Sign Here Signature of U.S. person ▶  Date ▶ **1/12/2017**

General Instructions

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

Purpose of Form

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

- 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.

Note. If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,
- An estate (other than a foreign estate), or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners' share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership income.

Minimum Qualifications

A. Must be registered with the State of Florida. Division of Corporations to do business in Florida.

No documentation is required. The City will verify registration.

B. Must have been in business for a minimum of twenty-four (24) months prior to the Due Date and Time.

ANNEX M. GANNON R/O Box 2245, West Palm Beach, FL 33402-2245
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STATE OF FLORIDA
PALM BEACH COUNTY
2016/2017 LOCAL BUSINESS TAX RECEIPT
LBTR Number: 200802541
EXPIRES: SEPTEMBER 30, 2017

CHEN MOORE AND ASSOCIATES, INC.
 500 W CYPRESS CREEK RD STE 630
 FORT LAUDERDALE, FL 33309

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C. Must hold a current, valid license to provide engineering, surveying and/or landscaping architectural services in the State of Florida as is applicable to the discipline(s) Proposer is submitting as follows:

i. Engineering – Florida Department of Business & Professional Regulation; ii. Surveying – Florida Board of Professional Surveyors and Mappers - LB; iii. Landscape Architectural – Florida Department of Business & Professional Regulation



RICK SCOTT, GOVERNOR

KEN LAWSON, SECRETARY

STATE OF FLORIDA
 DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
 BOARD OF LANDSCAPE ARCHITECTURE

LICENSE NUMBER
 LC26000425

The LANDSCAPE ARCHITECT BUSINESS
 Named below HAS REGISTERED
 Under the provisions of Chapter 481 FS.
 Expiration date: NOV 30, 2017

CHEN MOORE AND ASSOCIATES, INC.
 500 W CYPRESS CREEK RD STE 630
 FORT LAUDERDALE FL 33309



ISSUED: 00/16/2015

DISPLAY AS REQUIRED BY LAW

SEQ # L1609160001742

CHEN-MOORE

& ASSOCIATES

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

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

Please see section 6 for a copy of our firm's and staff licenses.

vii. Has no reported conflict of interests in relation to this RFQ.

CMA employs no name of any officer, director or agent who is also an employee of the City. No City employee owns, directly or indirectly, has any interest in CMA's firm or any of its branches.

A. Experience and Background

i. Identify each Professional Service discipline and/or sub-discipline in which Proposer wishes to be considered for award of an Agreement.

CMA is well versed in providing engineering solutions in the framework of a Continuing Service Contract. We are currently service the Town of Palm Beach, the Riviera Beach Utilities District, the City of Riviera Beach, and the Delray Beach CRA under Continuing Service Contracts. In response to this Request for Qualifications, we would like to be considered for the following categories:

- (1) Engineering
- (3) Landscaping architectural design services
- (4) Civil
- (9) Water Resources/Stormwater Management

ii. Submit a separate detailed narrative description documenting Proposer's overall Professional Services background and experience in each Professional Service discipline or sub-discipline in which Proposer wishes to be considered for award of an Agreement as follows (NOTE: each narrative should clearly identify the Professional Service the experience is referencing):

a. Experience in the following:

- (1) *Engineering*
- (2) *Surveying and Mapping*
- (3) *Landscaping architectural design services*
- (4) *Civil*
- (5) *Mechanical / Electrical / Plumbing*
- (6) *Structural*
- (7) *Transportation*
- (8) *Environmental / Natural Resources*
- (9) *Water Resources/Stormwater Management (includes stormwater, potable water, reuse water, conveyance, supply, transmission, treatment, storage)*
- (10) *Coastal and Marine Engineering*

Chen Moore and Associates (CMA) is a dynamic team of professionals providing civil engineering, environmental engineering, planning, landscape architecture, GIS and construction engineering services. We strive to be our Client's trusted advisor and problem solver. We pride ourselves on contributing to the improvement of our society's progress, health, safety and welfare through our work and our community involvement. CMA has grown to over 50 professionals across Florida with offices in Palm Beach, Miami-Dade, Broward and Central Florida. CMA is a certified Small and Minority Owned Business Enterprise in the State of Florida with multiple county small business certifications. The West Palm Beach branch office will be responsible for the work within the RFQ. The firm is currently working on and has successfully completed projects involving the planning, design and construction of a wide range of projects in a multitude of disciplines including :

- Infrastructure Master Planning
- Pump Station Design and Rehabilitation
- Water Supply, Treatment, and Distribution Design
- Stormwater Management System Design and Master Plans
- Environmental Engineering
- Roadway Design and Streetscape
- Government Permitting
- Land Development
- Site Development
- Site Planning
- Landscape Architecture
- Hardscape Design
- Irrigation Design
- Park Design
- GIS Analysis and Mapping
- Project and Program Management
- Sustainable Design and LEED Solutions
- Value Engineering
- Utility Rate and Infrastructure Valuation Studies
- Resident Coordination and Stakeholder Meetings



West Palm Beach Office

In our 30-year history, we have held over 40 Continuing Services Contracts for public agencies. In that time, we have found that the key to providing superior service on a Continuing Contract is by acting as an “extension” of City staff. CMA staff prides itself on being members of the local and professional community. By participating in civic and technical organizations, our staff members are aware of what types of engineering problems the City faces. We understand the unique nature of a community like the City of Delray Beach that balances the needs of aging infrastructure in low lying coastal communities with the re-development of residential and commercial corridors. We are aware of the strain on roadway and parking capacity associated with the successful downtown events that occur in the City, and we also know the high-expectations of residents for both roadway and pedestrian facilities. Our technical expertise combined with our knowledge of the unique issues in the City of Delray Beach are the main reasons we appreciate your consideration in the categories of (1) Engineering, (3) Landscape Architecture, (4) Civil and (9) Water Resources/Stormwater Management.

(1) Engineering

If there is a single project type that defines, the core competency of Chen Moore it is the complete re-



construction of the infrastructure in a residential neighborhood. From Riviera Beach and Lake Worth to Fort Lauderdale and Miami Beach, our firm has been a leader in the industry in the design and construction of neighborhood improvement projects. We know from experience that being a “Neighborhood Engineer” incorporates elements of the profession that showcase all the technical and non-technical skills needed of an engineer.

In the Riviera Beach Neighborhood Improvements Project, we demonstrated our technical abilities by using

ICPR to identify street flooding, size and design exfiltration trenches, and permit the repairs with the SFWMD. In the Town of Palm Beach, we used the non-technical skills of negotiating with the Contractor and meeting with residents to field engineer a drainage system that would minimize impact on hedges that were planted within Town right-of-way. Along Silver Beach Road we are working along the border between two utility service areas

(Seacoast Utility Authority and Riviera Beach Utility District) and ensuring that the details and specifications for service connections on both sides of the road meet the technical standards of both utilities .

Our proposed Project Manager for all Engineering tasks, Mr. Brent Whitfield has been the Engineer of Record on many general engineering projects with a variety in experience including:

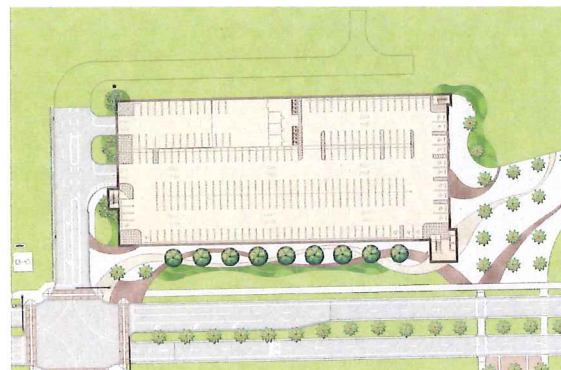
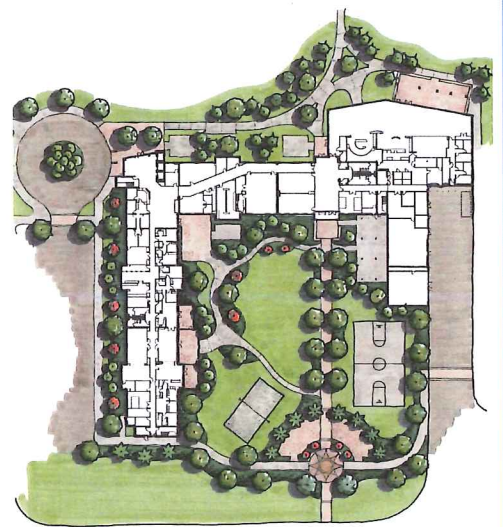
- Paving and grading for taxiways and aprons at Palm Beach International Airport,
- Detailed design and traffic controls associated with a public use pedestrian and bike path facilities in Doral,
- Several miles of canal bank stabilization in Margate, and
- The ongoing Neighborhood Road Program for District 4 in the City of Lake Worth.

The variety of experience with respect to engineering projects for our company profile and our Project Manager's resume demonstrate CMA's capability to address any assignment that may come up within the City of Delray Beach.

(3) Landscape Architecture

Chen Moore's landscape architecture and planning team provides creative solutions for a diverse clientele. The team is currently working on public space and parks projects. Chen Moore is known and respected for our thorough understanding of site and permitting constraints prior to commencing a project. We are highly responsive and provide out-of-the-box solutions to our clients' needs. Current projects include an irrigation master plan for the University of Florida, a dog park for the City of Margate, a wake park for Palm Beach County, and streetscape design for the City of Miami Beach. Our services are as follows:

- Master Planning
- Site Planning Design and Processing
- Irrigation Design
- Community Planning
- Urban Redevelopment
- Comprehensive Planning
- Parks and Recreation Planning and Design
- Campus Planning and Design
- Due Diligence and Feasibility Reports
- Land Use Entitlements
- Landscape Planning and Design
- Hardscape Feature Design
- Streetscape Design
- Greenway and Trails Design
- Wayfinding
- Lighting Design
- Graphic Design and Presentation
- Habitat Restoration



CMA Parks Experience

Chen Moore and Associates is a dynamic team of professionals designing and permitting parks throughout the state starting at the master planning level. Working with Greenplay, LLC, we have completed the inventory and level of service analysis for the parks and recreation master plans for the City of West Palm Beach and Martin County. We are currently working with the City of Margate to appropriately budget their parks CIP for the next five (5) year cycle before beginning work on the design and permitting of their parks and recreation facilities. We have designed and permitted parks at every scale in Florida including:

- Natural Resource based Parks
- Regional Parks
- Coastal Parks
- Urban Parks
- Neighborhood Parks
- Greenways and Trails
- Sports Fields
- Equestrian Facilities
- Golf Courses
- Aquatic Facilities
- Boating Facilities
- Playgrounds

Chen Moore & Associates Parks and Recreation Market Approach:

- Develop an understanding of the Client's ability to maintain and operate the proposed facility.
- Carefully master plan and program parks and recreation facilities for long-term benefit.
- Anticipate future expansion needs in current capital improvement projects.
- Maintain strong relationships with local municipalities and regulatory agencies to facilitate permitting processes.
- Utilize GIS Mapping as a tool to create accurate inventories of available infrastructure.
- Communicate with our clients to find the best construction value in current projects to facilitate future needs.



(4) Civil

Civil Engineering derives its name from the word “civilization”. All civilizations are made great by their capacity to sustain and enhance the lives of people. For a coastal city in South Florida, quality infrastructure is the defining characteristic of a government that is able to sustain and enhance the lives of its residents. As is evidenced by the success of the property values and the volume of investment for re-development, the City of Delray Beach has managed to provide quality services despite the aging nature of the infrastructure. In order to continue to provide a high quality of life, sustained efforts and investment in repairing, rehabilitating and replacing the existing transportation and underground utilities are needed.



Transportation Engineering and Modes of Mobility

Chen Moore and Associates understands that successful urban environments are composed of a number of elements that must be seamlessly integrated. Development must be pedestrian friendly and encourage street level activity. Great neighborhoods, and by extension, great cities, are remembered for their streets rather than their buildings. As Chen Moore and Associates integrates this philosophy into our streetscape design.



As noted in the City of Delray Beach’s official policies, “Complete Streets Serve All Users and Modes.” At CMA we understand that improvements in the pedestrian and bicycle transportation network can have a significant impact on incentivizing private investment into the City and on the quality of life for the residents. At a minimum all trips start and end with a pedestrian trip, even if that trip is the walk between a parking garage and a local business. Knowing that all visitors and residents are utilizing the City owned and maintained sidewalks and crosswalks at some point within their travels, it is important to ensure that the built environment provides a safe and amenable facility

for pedestrians. Our experience providing facilities for all modes of transportation has required utilizing our expertise in the following areas:

- Traffic signal design and analysis
- Street lighting design
- Master Planning
- Geometric Intersection Design
- Conceptual Design and Alternatives Analysis
- Maintenance of Traffic Design
- Pedestrian and Bicycle Pathway Design
- Operational and Safety Studies
- Land Use Plan Amendments
- Traffic Calming Design
- Circulation and Roundabout Design
- Corridor Planning
- Streetscape Design
- Hardscape Design
- Cost Estimating



Utility Design

CMA understands that the quality of life experienced by a visitor or resident of the City of Delray Beach often has as much to do with what is underneath ground as what is above it. CMA has worked with many public clients to provide a wide range of water and sewer consulting engineering services including large-scale master planning and modeling, existing system assessments, design and rehabilitation, and new site development design, permitting and construction. Our experience includes the planning, design, permitting and construction of over 100 miles of water main, 50 miles of gravity sewer, 20 miles of force main, 20 pump stations (ranging from 100 gpm to 5,000 gpm), five large diameter mains in FDOT rights of way (20" to 48" force main) and 10 directional drills. The following are some

examples of our utility capabilities :

- Water/Sewer Distribution/Collection/Transmission System Modeling
- Master Planning
- Pump Station Rehabilitation and Design
- Water Supply, Treatment and Distribution
- Wastewater Collection, Transmission, Treatment, Re-use and Disposal
- Trenchless Technology Analysis
- Pipe Lining and Rehabilitation
- GIS Analysis
- Odor Management
- Government Agency Permitting and Coordination
- Cost Estimating



(9) Water Resources/Stormwater Management

The largest cities to the south and north of the City of Delray Beach are West Palm Beach and Fort Lauderdale. At CMA we are proud to be an integral team member on the large consulting teams that are preparing the latest Stormwater Management Master Plans for both of those cities. In West Palm Beach we are utilizing the one-dimensional hydrologic and hydraulic modeling tool ICPR3 to simulate the level of service for flooding protection, whereas in the City of Fort Lauderdale we are utilizing ICPR4 to evaluate overland flow and flood protection with two-dimensional capabilities. In the City of Lake Worth we are currently investigating several areas of concern in District 4 using the EPA SWMM modeling tool. In other municipalities such as the City of Coral Springs we have worked with City Staff and available data to identify areas of concern without the need for any hydrologic and hydraulic modeling. At CMA we do not prescribe the same solution to all problems, but fit the technique to the need. Our experience in the Pineapple Park Neighborhood of West Palm Beach has taught us that sometimes a drainage problem can be addressed with resident interviews, as-built research and engineering judgement.

In addition to evaluating drainage concerns, CMA has an expertise designing and permitting sophisticated stormwater management systems and advising cities such as the NPDES MS4 program. In the City of Miami Beach, we have designed several stormwater pump stations that “manifold” the drainage facilities from multiple residential streets into a single wet well facility. Because of the nature of stormwater infrastructure the intake for these pump stations can require trash racks and other debris separation facilities. In addition, because of the sensitive nature of the coastal downstream body, energy dissipation structures are required at the discharge point.



Although the City of Miami Beach is an extreme case, we understand that the City of Delray Beach has areas where the low-lying topography, minimally draining soils and proximity to tidal water bodies make drainage solutions complex. Considering our experience in the extreme conditions of Miami Beach, we have every confidence in our ability to design and permit these types of facilities needed to address issues as they arise.

In the City of Coral Springs, CMA provides year-round support for MS4 permit compliance including meetings



with staff from all departments from public works to the fire department are reporting the necessary data to a central repository. This program prevented the City from paying a non-compliance fine and has improved water quality in local waterways.

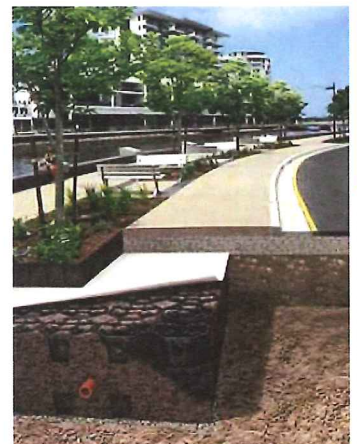
The proposed Project Manager for all Water Resources assignments, Mr. Brent Whitfield has significant experience in all facets of water resources. From hydrologic, hydraulic, groundwater and water quality modeling to preparation of construction documents in detailed design and procuring

complex permits from regulatory agencies, Mr. Whitfield has provided the following services as a consultant to State and Local agencies:

- Hydraulic design for the 4,500 acre Expansion of Stormwater Treatment Area 1A West (STA-1W)
- Watershed study of the 169,000 acre C-139 Basin (Simulating Phosphorus Transport and Potential Treatment Facilities)
- Modeling Groundwater Impacts of L-8 & C-51 Reservoir Operation on Surrounding Areas
- Procuring Conceptual Permit for Full Build-out of Palm Beach International Airport
- Design of Drainage Improvements associated with Taxiways F and W at PBI
- Abandonment of Ocean Outfalls for A1A in the Town of Palm Beach

Looking at the breadth and depth of our experience the CMA Team is prepared to offer the City of Delray Beach a comprehensive skillset with respect to Water Resources and Stormwater services. Our team of local engineers can offer the City both traditional civil engineering support and an entire range of planning, modeling, and GIS support for your stormwater projects. A sampling of our stormwater experience includes:

- All Aspects of Stormwater System Design
- Modeling (Both Water Quantity and Quality)
- Geographic Information Systems for Stormwater Projects
- Floodplain Assessment and Management Plans
- Stormwater Master Planning
- Watershed Assessments
- Permitting Support
- Regulatory Support
- Government Agency Permitting and Coordination
- Public Outreach and Education
- Cost Estimating



b. Experience in other related services that compliment the above referenced Professional Services.

Construction Administration, GIS Support and Grant Writing Abilities are three specific services that CMA offers that compliment all types of assignments, especially, Engineering, Landscape Architecture, Civil and Water Resources.

Construction Administration Services

At Chen Moore and Associates, the engineers work very closely with the in-house inspectors, allowing a different point of view when interpreting construction documents. Considerable experience has been gained due to the fact that all engineers involved in infrastructure design have had field experience performing construction management services. The lessons learned in the field are incorporated into design, and the engineers have the knowledge to make educated decisions about the acceptability of the work.

The Chen team realizes that even with the best planning, pre-investigation, design and communication, changes can occur during construction. The most effective way of dealing with change orders is to try to anticipate them, quickly provide alternative solutions that are acceptable to both the Client and Contractor, and negotiate with both entities to minimize additional costs.



Often times, changes can be made on site without the need for the change order process. Chen Moore and Associates has built a reputation of administering projects in a way which minimizes change orders and the costs associated with them. The following are services CMA commonly performs during construction:

- Bidding Assistance
- Preconstruction Services
- Value Engineering
- Scheduling
- GIS/GPS Report Integration
- Administration
- Testing
- Construction Monitoring
- Construction Engineering Inspections
- Construction Management
- Bond Releases



GIS Services

CMA understands the importance of having as-built information provided by the contractor after the installation of the infrastructure and having it be accurate. This is why CMA has designed a field application that our inspectors can use in the field to log the infrastructure information into GIS in real time from their smart phones.



Figure 4: Street Inventory Data Information

Figure 5: Street Layout Information

Figure 6: Street Module Information



ArcGIS Online Maps are created for the project which includes the design information and parcel information. Through a series of drop boxes and fields the inspector can click on the line being installed and put the required detailed information such as date installed length of pipe, elevations and coordinates will be adjusted. The application also allows for pictures to be added to the points. This will not only make it easy for us to pull reports and updated maps quickly but it will also make it easy for us to check the contractor's as-builts as they come in.

In addition to utilizing GIS Online Maps to track construction progress and collect as-built information, these tools can be used as a working document to collect field reconnaissance data and automatically compile it in a format that is easily accessed by multiple users from any platform. Since the City of Delray Beach recently acquired all necessary licenses this approach can easily be rolled out in any department throughout the City. Our staff is

currently working with Staff from the Delray CRA to create a working map application that will be used by their staff on field visits to compile resident comments, observations and photographic documentation that can be associated with redevelopment parcels or projects that are underway. It is because this tool can be applied in so many different formats that we use it so extensively and provide those capabilities to our clients.

Grant Writing Abilities

Chen Moore and Associates (CMA) has a long history of working with municipalities to enhance projects with grant funds. Often, simply by being aware of available funding sources, CMA has assisted various clients with obtaining multi-year grants. Examples of three relationships are as follows:

- **FEMA Hazard Mitigation Fund Grants (HMGP):** In working with the City of Coral Springs, CMA has managed three separate HMGP grants for both hardening of public facilities and flood protection.
- **Community Development Block Grants (CDBG):** CMA has worked on over seven projects with the City of Dania Beach funded by CDBG. These include traffic calming, streetscaping, flood protection and solar street lighting.
- **Marine grants:** For the City of Fort Lauderdale's 15th Street Marina Project, CMA assisted the City in obtaining Florida Inland Navigation (FIND) grants and a Broward Boating Improvement Program (BBIP) grant to double the scope of the project.

Chen Moore and Associates also has experience with assisting our clients with obtaining grants and loans including:

- ARRA Compliance
- CDBG Compliance
- State Revolving Loan Loans
- FIND Grants
- FRDAP Grants
- FEMA HMGP
- FDEP 319H Grants

The firm has researched grant applications, coordinated with the grant project manager and has administered progress reports and



additional accounting for our clients including the Towns of Hypoluxo and Davie. Chen Moore and Associates administered \$373,000 for the Town of Davie's 319 Grant. In addition, Chen Moore and Associates helped secure \$357,151 for the Hypoluxo Shores project and \$686,483 for the Hypoluxo Point project from the Florida Department of Environmental Protection.

c. Awards, certifications, or other recognition received by Proposer relative to work on projects in the designated Professional Services.

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|  | <p>2017 South Florida Business Journal Top 25 Engineering Firms List</p> <p>Ranked number 19. The list includes 25 engineering firms located in Miami-Dade, Broward and Palm Beach counties ranked in order by number of licensed engineers.</p> |
|  | <p>2016 Zweig Group Fast Growth Award</p> <p>The award is presented to firms who achieved growth of 20% or more in a year. The Fast Growth Award gives CMA the distinction of outpacing our industry significantly with high growth.</p> |
|  | <p>2016 Zweig Group Best Firms to Work For Award</p> <p>Ranked number 32 in the multidiscipline category. The award recognizes the top firms leading the way in creating a workplace that inspires, motivates and rewards employees.</p> |
|  | <p>2016 South Florida Business Journal Top 25 Engineering Firms List</p> <p>Ranked number 15. The list includes 25 engineering firms located in Miami-Dade, Broward and Palm Beach counties ranked in order by number of licensed engineers.</p> |
|  | <p>2015 Zweig Group Best Firms to Work For Award</p> <p>Ranked number 42 in the civil engineering category. The award recognizes the top firms leading the way in creating a workplace that inspires, motivates and rewards employees.</p> |
|  | <p>2015 South Florida Business Journal Top 25 Engineering Firms List</p> <p>Ranked number 18. The list includes 25 engineering firms located in Miami-Dade, Broward and Palm Beach counties ranked in order by number of licensed engineers.</p> |

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|  | <p>2014 Zweig White Hot Firm List</p> <p>Ranked number 98. The list recognizes the 100 fastest-growing engineering, architecture, planning and environmental consulting firms in the U.S. and Canada. These are the firms that have outperformed the economy and competitors to become leaders in their chosen fields.</p> |
|  | <p>2014 CE News Best Firms to Work For Award</p> <p>Ranked number 31 in the multidiscipline category and number 99 overall in the in the Top 100 of all firms. The award recognizes the top firms leading the way in creating a workplace that inspires, motivates and rewards employees.</p> |
|  | <p>2014 South Florida Business Journal Top 25 Engineering Firms List</p> <p>Ranked number 12. The list includes 25 engineering firms located in Miami-Dade, Broward and Palm Beach counties ranked in order by number of licensed engineers.</p> |
|  | <p>2013 ENR Southeast Top Design Firms List</p> <p>Ranked as one of the top design firms to include Florida, Georgia, South Carolina and North Carolina. This list ranks the largest U.S.-based design firms both publicly and privately held, based on design-specific revenue.</p> |
|  | <p>2013 South Florida Business Journal Top 25 Engineering Firms List</p> <p>Ranked number 16. The list includes 25 engineering firms located in Miami-Dade, Broward and Palm Beach counties ranked in order by number of licensed engineers.</p> |
|  | <p>2013 American Public Works Association Florida Chapter Public Works Project of the Year Award Lauderdale-By-The-Sea Commercial Blvd. Renovation</p> <p>Awarded for demonstrating the ability to complete work on time and with cooperation from the town, design consultants, engineer and the contractor.</p> |

| | |
|---|--|
|  | <p>2012 City of Fort Lauderdale Community Appearance Award Fort Lauderdale Beach Park</p> <p>For outstanding achievement in urban design. Wall replacement and parking lot improvements.</p> |
|  | <p>2012 ASCE Employer Recognition Award for Support of Younger Members</p> <p>CMA recognized for its encouragement and exemplary support of Younger Member involvement in ASCE activities.</p> |
|  | <p>2012 South Florida Business Journal Top Engineering Firms List</p> <p>Ranked number 20. The list includes 24 engineering firms located in Miami-Dade, Broward and Palm Beach counties ranked in order by top gross billings.</p> |
|  | <p>Chamber of Commerce of the Palm Beaches 2009 Business of the Year Award</p> <p>Celebrates businesses who have demonstrated active participation in Chamber activities, economic impact on Palm Beach County and commitment to community involvement.</p> |
|  | <p>Environmental Business Journal</p> <p>Project Merit Award for water/wastewater projects.</p> |
|  | <p>Chamber of Commerce of the Palm Beaches 2008 Athena Award</p> <p>Honoring businesses that have achieved professional excellence, actively served the community, and helped women to reach their leadership potential.</p> |
|  | <p>"Best of Places to Work South Florida"</p> <p>South Florida Business Journal 2006 and 2007</p> |
|  | <p>"Best Civil Engineering Firms to Work For"</p> <p>CE News 2006 - 2008</p> |

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|---|---|
|  | <p>Small Business of the Year 2007 and 2008 Greater Fort Lauderdale Chamber of Commerce</p> |
|  | <p>Recognized for "Exemplary Support of Young Engineer Involvement in ASCE Activities" Miami-Dade County Firm of the Year 2007</p> |
|  | <p>2007 CE News Pinnacle Award Winner Recognizing industry leader in both revenue growth and for creating a quality workplace with high employee satisfaction.</p> |
|  | <p>Zweig-White Hot Firm List 2007 and 2008 Ranked one of 200 Fastest-Growing A/E/P & Environmental Consulting Firms.</p> |
|  | <p>2007 South Florida Business Journal Fastest Growing Private Companies 26th Place and the only civil engineering firm in the top 40</p> |
|  | <p>Environmental Business Journal 2007 Business Achievement Awards Bronze Medal, Consulting & Engineering: Small Firms</p> |

iii. Submit up to ten client references for whom Proposer has provided Professional Services similar to those specified in this RFQ in the past five years and who are agreeable to respond to a request from the City regarding proposer's experience.

| (3) Landscaping Architectural Design Services | | | | | |
|---|-----------------|-----------------------|--|---------------------------|------------------------------|
| Organization name | Contact name(s) | Contact email address | Address | Telephone and fax numbers | Dates of service (start/end) |
| City of West Palm Beach | Leah Rockwell | lrockwell@wpb.org | 401 Clematis St. West Palm Beach, FL 33402 | P: 561.804.4904 | 10/21/2014 - 12/31/2015 |
| Subconsultant to GreenPlay, LLC for the development of the City of West Palm Beach Parks and Recreation Master Plan. Our scope of work involved providing Facility Inventories and a Level of Service Assessment. CMA used cutting edge Geographic Information Systems (GIS) technology in the form of ESRI Collector Software to completely catalog the client's existing parks and recreation assets. Collector Software was operated from our GPS enabled phones and tablets and allowed us to collect coordinate correct information on all of the parks' assets. Our process involved creating a database of the City's parks assets and performing a preliminary analysis via aerial photography. Once the preliminary analysis was completed, CMA staff visited each parks facility and ground truthed their findings. At the end of the process, the city received the database and was trained by CMA to maintain the database on an ongoing basis facilitating future updates to the master plan. | | | | | |

| (3) Landscaping Architectural Design Services | | | | | |
|---|-----------------|-------------------------|---|------------------------------------|------------------------------|
| Organization name | Contact name(s) | Contact email address | Address | Telephone and fax numbers | Dates of service (start/end) |
| CPZ Architects Inc (client) | Chris Zimmerman | chris@cpzarchitects.com | 4316 West Broward Blvd Plantation, FL 33317 | P: 954-792-8525 F: 954-337-0359 | 11/16/2015 - 8/1/2017 |
| Site planning and landscape architecture for the design of a 24 acre district park. The park serves a new residential community in the northwestern section of the city. The park carries a nature theme celebrating the flora and fauna of the Everglades. Divided into four themed areas, the park celebrates mammals, birds, insects, and reptiles & Amphibians of the Everglades. The site includes a 12 Acre lake with a kayak launch, recreational trail, and fishing pier extending into the lake. CMA is serving as a subconsultant to CPZ Architects and is providing design (landscape, hardscape, irrigation, and lighting), permitting, and construction administration services for the Project. The site is being designed to meet Green Globes criteria and includes extensive use of native plant materials and high efficiency irrigation. | | | | | |
| City of Hollywood | Karen Arndt | karndt@hollywoodfl.org | 1600 S. Park Road Hollywood, FL 33022-9045 | P: 954-921-3930 F: 954-921-3937 | 2/12/2016 - 10/1/2016 |
| Landscape architecture services for the restoration of the dune system accessed from Jefferson Street in Hollywood. CMA is responsible for performing a field inventory of existing vegetation on the dune; performing an erosion Control and Vegetation Disposition Plan; creating a proposed planting plan and details; and permitting through the Florida Department of Environmental Protection. CMA will also provide construction administration. | | | | | |

| (3) Landscaping Architectural Design Services | | | | | |
|---|-----------------|----------------------------|--|------------------------------------|--|
| Organization name | Contact name(s) | Contact email address | Address | Telephone and fax numbers | Dates of service (start/end) |
| City of Deerfield Beach | Kara Petty | kpetty@deerfield-beach.com | 150 NE 2nd Ave. Deerfield Beach, FL 33441 | P: 954.480.4483 F: 954.420.2274 | 11/6/2012 - 11/30/2014 |
| | | | | | design, permitting and construction engineering inspection services for the conversion of an existing football field and multi-purpose field into one Babe Ruth Baseball field, one Little League Baseball field, and one practice baseball field for the City of Deerfield Beach Parks and Recreation Department. The project is located in Westside Park, which is a 15 acre park located south of Hillsboro Boulevard, offering two lighted basketball courts, a football field with concession stand, two lighted tennis courts, a full service recreation center, full size gym, picnic areas and a newly renovated playground. CMA was responsible for providing survey, geotechnical, site planning, civil engineering, landscape architecture, MEP and structural engineering services. The scope of the project included the layout of the baseball fields with supporting services such as lighting, dugouts, scoreboards and irrigation. The project also included general improvements to the park around the baseball fields including better pedestrian access, ADA parking and sidewalk improvements, native landscaping, outdoor seating areas and stormwater improvements. The project is located in an underserved community of Deerfield Beach and provides access to improved parks and recreation services for the community. The project was funded through a Community Development Block Grant. |

| (3) Landscaping Architectural Design Services | | | | | |
|--|-----------------|-------------------------|---|------------------------------------|------------------------------|
| Organization name | Contact name(s) | Contact email address | Address | Telephone and fax numbers | Dates of service (start/end) |
| City of Coral Springs | Ronald Stein | rstein@coralsprings.org | 9551 West Sample Road Coral Springs, FL 33065-4182 | P: 954-346-1739 F: 954-344-1171 | 6/25/2013 - 10/1/2015 |
| <p>Chen Moore and Associates was contracted by the City of Coral Springs to assist the Coral Springs CRA in the planning, design, permitting and construction support of various streetscaping improvements in Downtown Coral Springs. As the prime consultants, CMA provided civil engineering, landscape architecture, environmental permitting and construction engineering and inspection services for the project.</p> <p>The project included implementing Complete Street concepts for NW 31st Court, NW 94th Avenue and NW 32nd Street. Additionally, CMA implemented the culverting of the canal along NW 31st court to provide space for a linear park, currently called the "Art Walk", which is an important pedestrian connection between the downtown pathways project and The Walk development. Finally, the project includes the implementation of turn lanes along Sample Road, median improvements in Sample Road and minor improvements to adjacent alleyways and pedestrian pathways.</p> <p>Overall, the project improves the walkable nature of Downtown Coral Springs, while tying together various aesthetic elements in advance of the City Hall project sited adjacent to them projects.</p> | | | | | |

(1) Engineering, (4) Civil and (9) Water Resources

| Organization name | Contact name(s) | Contact email address | Address | Telephone and fax numbers | Dates of service (start/end) | Scope of work |
|--|-----------------|----------------------------|---|------------------------------------|------------------------------|---|
| City of Riviera Beach | Terrence Bailey | tbailey@rivierabch.com | 600 Blue Heron, Riviera Beach 33404 | P: 561.845.4060 F: 561.840.4038 | 6/29/2015 - present | Roadway, sidewalk, drainage, water and sewer improvements as part of a neighborhood improvement program. The scope of services includes field investigation including sidewalk condition assessment, utility coordination, design, permitting and public information. The design will be completed on an accelerated schedule to fulfill the City's bond requirements. |
| Town of Palm Beach | Jeffrey Sanon | JSanon@TownofPalmBeach.com | 951 Old Okeechobee Rd West Palm Beach, FL 33401 | P: 561.227.7024 F: 561.835.4691 | 11/5/2014 - 4/30/2016 | Design, permitting, resident coordination and construction administration services for the drainage improvements of three streets. The design included non-traditional techniques to accommodate landscape features and narrow right-of-ways. |
| City of Riviera Beach Utility District | Leighton Walker | lwalker@rivierabch.com | 600 W Blue Heron Blvd Riviera Beach, FL 33404 | P: 561.845.4185 F: 561.840-7292 | 8/18/2010 - present | Relocation of underground utilities which are in conflict with proposed road widening projects for Blue Heron Boulevard/Dixie Highway, Dyer Road/Haverhill Boulevard, US 1, Martin Luther King Boulevard Phase B and C, Blue Heron Boulevard/Congress Avenue, Silver Beach Road and Garden Road. The scope of services included coordination with RBUD and local regulatory agencies, coordinating utility location efforts, design of utility relocation and traffic management plans to FDOT standards and permitting. The projects involve over \$8 million in water and sewer improvements completed in conjunction with FDOT and Palm Beach County projects. |

(1) Engineering, (4) Civil and (9) Water Resources

| Organization name | Contact name(s) | Contact email address | Address | Telephone and fax numbers | Dates of service (start/end) | Scope of work |
|-----------------------|--------------------------|-------------------------------|---|------------------------------------|------------------------------|---|
| Broward County | Patrick MacGregor | pamacgregor@broward.org | 2555 West Copans Road Pompano Beach, FL 33069-1233 | P: 954.831.0904 F: 954.831.0798 | 8/8/2005 - 10/29/2012 | Originally the BPNIP was separated into four bid packages; however, Chen Moore and Associates was able to value engineer the 3rd and 4th bid package areas to combine them into one which we called Bid Package 3. This Bid Package addressed the sanitary sewer and drainage improvements, as well as improvements to the community's sidewalks, roadway and landscape. These improvements consisted of 47,000 linear feet of gravity sewer, 6,200 linear feet of 8" force main, 20,100 linear feet of drainage pipe along with roadway restoration and new sidewalks for a total construction cost of approximately \$13.3 million. |
| City of Pompano Beach | Alessandra Delfico, P.E. | Alessandra.Delfico@copbfl.com | 1201 NE 5th Ave Pompano Beach, FL 33060 | P: 954.786.4144 F: 954.786.4028 | 4/1/2003 - present | Chen Moore and Associates is responsible for managing the planning and design of the City's Lift Station Rehabilitation Program. CMA has performed design, permitting and construction administration services for over 19 lift stations, with the scope of work including new lift stations, rehabilitation, odor studies, force main studies and capacity analysis. |

(1) Engineering, (4) Civil and (9) Water Resources

| Organization name | Contact name(s) | Contact email address | Address | Telephone and fax numbers | Dates of service (start/end) | Scope of work |
|-------------------|-----------------|----------------------------|---|------------------------------------|------------------------------|---|
| City of Miramar | Jody Kirkam | jkirkman@ci.miramar.fl.us | 13900 Pembroke Road Bldg. L - 1st Floor Miramar, FL 33027 | P: 954-883-5065 F: 954-602-3638 | 5/27/2015 - 4/27/2016 | Design build of the directional drill of a reclaimed water main. The project is located along Flamingo Road, bounded to the south by Somerset Boulevard and to the north by Miramar Boulevard. The project included the directional drill of approximately 7,700 linear feet of 8-inch reclaimed water main, including under the FDOT Turnpike and SFWMD Canal. The project included 15 connections to service both existing and future property owners and irrigation connections to the Broward County medians. CMA coordinated with the City and Contractor to design, permit and provide limited construction engineering, inspection and administration services for the directional drill of the reclaimed watermain. |
| Wilton Manors | David Archacki | DArchacki@wiltonmanors.com | 2020 Wilton Drive Wilton Manors, FL 33305 | P: 954-390-2190 F: 954-567-4212 | 11/12/2013 - 11/4/2014 | Design a roadway improvement along a portion of North Dixie Highway within the City limits. The project was partially funded by FDOT through their Local Agency Program (LAP). 2,200 linear feet of roadway within public right of way which varies between 50 feet and 60 feet wide. |
| Wilton Manors | David Archacki | DArchacki@wiltonmanors.com | 2020 Wilton Drive Wilton Manors, FL 33305 | P: 954-390-2190 F: 954-567-4212 | 1/13/2015 - present | CMA is designing new submersible lift station including demolition of existing, new wet well, valve vault, bypass connections and new control panels. |

(1) Engineering, (4) Civil and (9) Water Resources

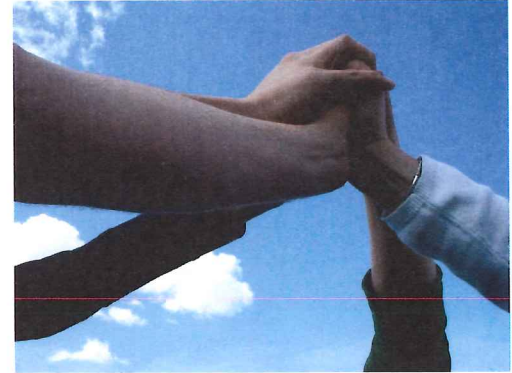
| Organization name | Contact name(s) | Contact email address | Address | Telephone and fax numbers | Dates of service (start/end) | Scope of work |
|-------------------------|-----------------|------------------------|--|------------------------------------|------------------------------|--|
| City of West Palm Beach | Tracy Ward | TWard@wpb.org | 401 Clematis Street, 2nd Floor West Palm Beach, FL 33402 | P: 561-494-1120 F: 561-494-1116 | 6/1/2012 - 9/3/2012 | Created existing conditions model was created and modified to simulate actual flooding events that occurred during the study period. Recommended alternatives were discussed with the City, and conceptual designs and cost estimates were created for the preferred alternatives. Modeling was performed to simulate the effectiveness of the proposed alternatives. The original project scope was expanded to include other areas in the City that experience flooding. |
| City of Margate | Reddy Chitepu | engineer@margatefl.com | 102 Rock Island Rd Margate, FL 33063 P: | 954-972-0828 F: 954-978-7349 | 3/19/2009 - 2/28/2013 | Design, permitting and construction administration. Design incorporated 'Green' elements which were used to reduce the amount of water needed to irrigate. The wide median sections slope inward creating large swales and the brick pavers on the narrow median have inverted crowns which slope and divert runoff towards the grassy medians. This reduces the amount of runoff storage needed in the side street swales, reducing project costs. |

iv. Key Personnel

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.
- b. Provide the role of each of the above referenced personnel within the provision of services.
- c. For each key personnel listed above, provide a resume/bio of the individuals experience, qualifications, work history, education and any related licenses and certifications.

Peter Moore, P.E., LEED AP, F. ASCE will serve as Principal-in-Charge for this contract. As the President of the firm, Mr. Moore is ultimately responsible for all day to day operations of the firm. Mr. Moore works as the Client Project Manager for work in Broward County, Pompano Beach and Deerfield Beach and continues to be involved in the successful completion of projects. These projects include sanitary collection improvements, pump station rehabilitation, transportation engineering enhancements, water and reclaimed water consulting along with all other phases of civil engineering design and neighborhood improvements. Additionally, Mr. Moore serves as the Assistant City Engineer for the City of Coral Springs and is the spokesperson for the City's Engineering Division. Finally, Mr. Moore serves on the firm's QA/QC Committee ensuring the consistency of the quality product throughout the firm. Role: Principal-in-Charge



Jason McClair, P.E., LEED AP, CFM is a senior civil engineer with more than 20 years of experience in utility infrastructure design, regulatory permitting, geotechnical engineering, and computer aided flow modeling for stormwater collection, water distribution, and sanitary transmission systems. He was the project manager for the Fort Lauderdale-Hollywood International Airport Stormwater Master Plan Update and the Pompano Beach Stormwater Master Plan. Role: QA/QC

Brent Whitfield, P.E. will serve as project manager. His professional experience includes watershed, airport and municipal master planning studies as well preparing construction plans and specifications and providing construction administration services. In over 13 years of professional experience, Mr. Whitfield has worked for a variety of public sector clients at the City, County and State level. As a life-long resident of Palm Beach County and 13-year resident of the City of Lake Worth, Mr. Whitfield has maintained a commitment to serving the community both professionally and personally serving on the boards of professional societies and civic organizations. In an academic capacity, Mr. Whitfield's previous experience includes a research assistantship at the University of Florida where he was the primary author on a December 2006 paper in the Journal of Hydrometeorology. Role: Project Manager: (1) Engineering, (4) Civil and (9) Water Resources

Cristobal Betancourt, RLA will provide landscape architecture services in regards to complete streets for this contract. Mr. Betancourt is Chen Moore and Associates' Director of Landscape Architecture and Planning. He has experience providing planning and landscape architecture design solutions for public and private sector clients. Mr. Betancourt provides a full range of services starting with due diligence and master planning culminating in detailed site design. He is well versed in the use of low-impact development techniques applied to site planning. Role: Project Manager: (3) Landscaping Architectural Design Services

Suzanne Dombrowski, P.E. will provide engineering support for this contract. She is a senior engineer and West Palm Beach Branch Manager with Chen Moore and Associates. She holds a bachelor's degree in civil engineering and a master's degree in engineering with a specialization in civil engineering from the University of Florida. Ms. Dombrowski has managed a wide range of municipal utility, drainage and roadway projects from the planning stages throughout construction. She also designs the site civil improvements for both public and municipal facilities. Role: Engineering Support

Paula Fonseca, P.E. will serve as senior engineer for this contract. Ms. Fonseca is a civil engineering graduate of Florida Atlantic University with nearly six years of experience. She serves as senior engineer in Chen Moore and Associates' West Palm Beach office and serves as the primary hydraulic modeler for the firm. She assists with design work using AutoCAD, GIS and InfoWater 8.1v. Ms. Fonseca has worked on neighborhood improvement projects for Broward County, utility coordination projects for Riviera Beach Utility District, including water and sewer designs and permitting, Design of GIS Utility Atlases for the City of Pompano Beach and Solid Waste Authority, as well as Palm Beach County Water Master Plan and Glades Regional Water Master Plan through the use of water modeling software and GIS. Role: Engineering Support



Andrew Savage, P.E. will provide engineering support for this contract. Mr. Savage is a senior engineer at our West Palm Beach office. His previous firm experiences include land development for both private and public sector clients; design for sanitary sewer, water, fire, and storm pipe systems; due diligence and opinion of probable cost report preparation; and permitting, zoning, stormwater management, and drainage calculations. Mr. Savage is currently providing resident project representative services during construction for the Riviera Beach MLK C Utility Improvements, as well as assisting with the design of utility improvements in Riviera Beach and Margate. Role: Engineering Support

Michael Wood will serve as associate engineer for this contract. Mr. Wood serves as an associate engineer in our West Palm Beach office. He is currently assisting with various projects for the City of Riviera Beach including the AutoCAD design and permitting for Silver Beach Road and Garden Road Utility Relocation Projects, as well as drainage design for the City of West Palm Beach. Mr. Wood is currently pursuing his Master's Degree from FAU and will be completing his thesis on Sea Level Rise. This research will be part of the Stormwater Master Plan that CMA is performing as part of a team for the City of West Palm Beach. Role: Engineering Support

Marcus Austin, GC, LEED AP will provide construction administration services for this contract. Mr. Austin is the Director of Construction Services and project coordinator for Chen Moore and Associates (CMA). He has brought over 27 years of design and development experience in South Florida to CMA. He is currently involved in both vertical and horizontal projects, which have a total construction value of over \$167 million. These projects include the Broadview Park Neighborhood Improvement Projects and various civil engineering projects for municipalities such as the City of Coral Springs, Pompano Beach and Ft. Lauderdale. Other building projects include Fire Station 80 for Coral Springs, which will be one of the first "Green" LEED certified buildings in south Florida. He obtained his General Contractor's License in 2002, expanding the firm's construction management capabilities which now include project management for building construction projects and design builds for infrastructure systems. Mr. Austin is also a certified NPDES and OSHA Training instructor and teaches these courses throughout the State of Florida. Role: Construction Administration

Eric Harrison, RLA has over 14 years of landscape architecture experience with several municipalities throughout South Florida. He has provided design services for parks and recreation, university campuses, K-12 education, corporate office, commercial developments and healthcare facilities. Role: Landscape Architecture

Subconsultants

InfraMap Corp. was founded in 1987 and is a leading provider of Subsurface Utility Engineering (S.U.E.) and Utility Infrastructure Mapping services. They collect utility infrastructure data in the field using sophisticated geophysical techniques and instrumentation (including Ground Penetrating Radar, GPR), with automated data collection gear and state of the art survey equipment. They collect and present this data to aid our clients in reducing the design and construction cost of major infrastructure projects. InfraMap will provide utility testhole services for this contract.

The Merchant Strategy, Inc. (TMS) is a woman owned small business, certified DBE by the Florida Department of Transportation, and SBE by Palm Beach County, Florida, the South Florida Water Management District, and the City of West Palm Beach and MBE by the Palm Beach and Broward County School Districts and the State of Florida. TMS is owned and operated by the company president – Sharon Merchant, former State Representative and life-long resident of South Florida. The organization began serving clients in 2003, incorporating as The Merchant Strategy, Inc. in 2007

GFA International specializes in foundation recommendations and geotechnical analysis including: shallow foundations; deep foundations; driven piles; auger cast piles; drilled shafts; micropiles; soil improvement techniques; demucking; deep dynamic compaction; vibroflotation; vibroreplacement; underpinning and foundation stabilization; helical piers; pin piles; and grout injection. GFA specializes in providing highly experienced geotechnical field technicians to oversee earthwork operations and soil improvement processes during the all stages of projects including: site work monitoring and earthwork observation; vibratory compaction & vibration monitoring; pile installation & load tests; and pile driving analyzer (PDA).

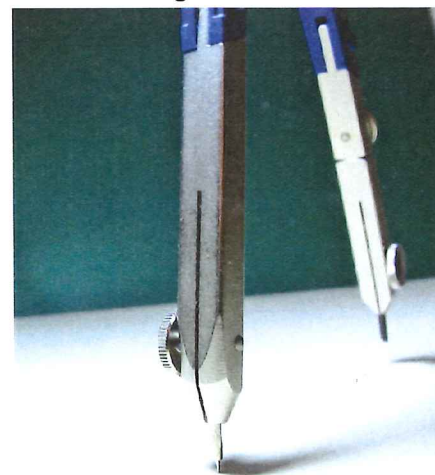
Avirom & Associates, Inc. was founded in 1981 by Michael D. Avirom, P.L.S. Avirom is a company dedicated solely to the land surveying profession. Their services include aerial and conventional topographic mapping; establishing NGVD benchmarks; GPS controls; and utility locations and inverts. Avirom worked with Florida Keys Aqueduct Authority on a project in Lower Sugarloaf, Upper Sugarloaf, Cudjoe, Summerland, Ramrod, Little Torch, Big Pine and No Name Keys. The project involved the mapping of more than 16 miles of the Florida Keys for the engineering design of new sewer and water systems, and included calculated plats and right-of-ways for development of the base map. Avirom will provide surveying services for this contract.

Florida Technical Consultants was founded in 2014. Based on extensive experience using GIS for engineering projects, and as an ESRI Silver Business Partner, the Goal of FTC is to provide support services to Municipalities and Engineering firms through:

- Data Compilation and Analysis for Projects and Studies
- GIS Data Building, Cleaning and Configuring for Utilities / Public Works Management
- Engineering Design Support Services
- Permitting
- Plans Review
- Field Construction Administration
- GIS Record Drawing Submittals
- GIS Training and Support

The founder, James Barton P.E. LEED AP, has over 20 years of experience in engineering design and project management of water, sanitation and stormwater programs, including water resources, infrastructure rehabilitation and GIS implementation, environmental engineering, utilities and road construction. Mr. Barton has routinely integrated GIS technology with engineering, developing software tools to assist in system modeling, design and construction administration.

Resumes are included at the end of this section.



B. Approach to Project Management



250 Australian Ave South, Suite 150
West Palm Beach, FL 33411
Telephone: (561) 748-6200
Fax: (561) 748-6322

Jamie Brown, P.E.
Public Services Director
City of Lake Worth
1749 3rd Avenue South
Lake Worth, FL 33460

March 10, 2017

Subject: Scope of Professional Services
Neighborhood Street Program
District 4, Year 1

Dear Mr. Brown,

Chen Moore and Associates (CMA) is pleased to provide the Scope of Service in support of the City of Lake Worth (CITY) addressing roadway issues for Year 1 of the Neighborhood Street Program for District 4. Exhibit A illustrates the roads identified for repair as part of this scope of work. The Scope of Service is in accordance with the contract between CMA and the CITY.

SCOPE OF SERVICES

This scope of service will include the following:

- Coordination with CITY
- Public outreach to residents and stakeholders
- Survey of all features within the right-of-way
- Geotechnical investigation
- Preparation of roadway and sidewalk plans and specifications
- It is assumed that the project area consists of 40 city blocks with an approximate project length 15,500 feet of roadway, and 21,000 feet of survey to include 40 ft beyond each intersection. The following table illustrates the selected roadways:

| STREET | FROM | TO | STREET | FROM | TO |
|------------|---------|---------|---------|------------|------------|
| 10TH AVE S | 1ST ST | 2ND ST | 21ST ST | 10TH AVE S | 11TH AVE S |
| 10TH AVE S | 2ND ST | 3RD ST | 22ND ST | 10TH AVE S | 11TH AVE S |
| 10TH AVE S | 3RD ST | 4TH ST | 23RD ST | 10TH AVE S | 11TH AVE S |
| 10TH AVE S | 4TH ST | 5TH ST | 24TH ST | 10TH AVE S | 11TH AVE S |
| 10TH AVE S | 5TH ST | 6TH ST | 25TH ST | 10TH AVE S | 11TH AVE S |
| 10TH AVE S | 6TH ST | 7TH ST | 26TH ST | 10TH AVE S | 11TH AVE S |
| 10TH AVE S | 7TH ST | 8TH ST | 27TH ST | 10TH AVE S | 11TH AVE S |
| 10TH AVE S | 8TH ST | 9TH ST | 28TH ST | 10TH AVE S | 11TH AVE S |
| 10TH AVE S | 9TH ST | 10TH ST | 29TH ST | 10TH AVE S | 11TH AVE S |
| 10TH AVE S | 10TH ST | 11TH ST | 30TH ST | 10TH AVE S | 11TH AVE S |
| 10TH AVE S | 11TH ST | 12TH ST | 31ST ST | 10TH AVE S | 11TH AVE S |
| 10TH AVE S | 12TH ST | 13TH ST | 32ND ST | 10TH AVE S | 11TH AVE S |
| 10TH AVE S | 13TH ST | 14TH ST | 33RD ST | 10TH AVE S | 11TH AVE S |
| 10TH AVE S | 14TH ST | 15TH ST | 34TH ST | 10TH AVE S | 11TH AVE S |
| 10TH AVE S | 15TH ST | 16TH ST | 35TH ST | 10TH AVE S | 11TH AVE S |
| 10TH AVE S | 16TH ST | 17TH ST | 36TH ST | 10TH AVE S | 11TH AVE S |
| 10TH AVE S | 17TH ST | 18TH ST | 37TH ST | 10TH AVE S | 11TH AVE S |
| 10TH AVE S | 18TH ST | 19TH ST | 38TH ST | 10TH AVE S | 11TH AVE S |
| 10TH AVE S | 19TH ST | 20TH ST | 39TH ST | 10TH AVE S | 11TH AVE S |
| 10TH AVE S | 20TH ST | 21ST ST | 40TH ST | 10TH AVE S | 11TH AVE S |

- Based on the City's Pavement Management Plan, it is assumed that only 10 of the 40 blocks identified will require full-depth reconstruction or cold-in-place recycling.

CHEN MOORE AND ASSOCIATES
CITY OF LAKE WORTH
NEIGHBORHOOD STREET PROGRAM

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3/10/2017

i. Provide a detailed narrative description of the proposed approach and methodology for engaging with City representatives while in the course of performing the duties.

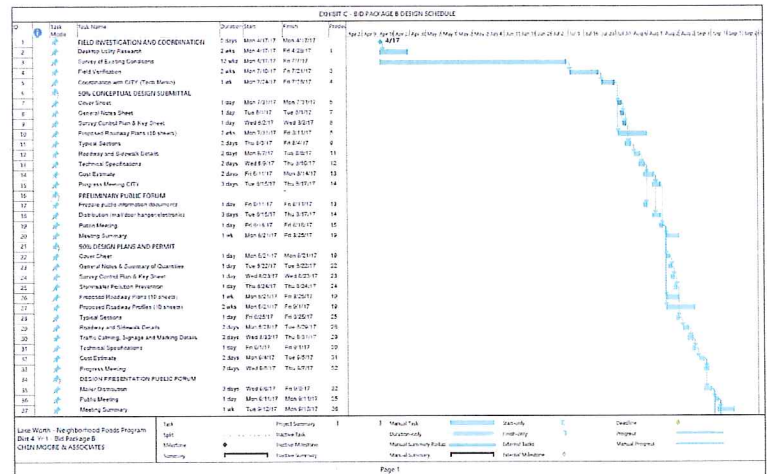
i. Identify each Professional Service discipline and/or sub-discipline in which Proposer wishes to be considered for award of an Agreement.

We understand that providing innovative and sustainable solutions on time and within budget is of outmost importance to the City. Paramount in achieving a successful project on time and within budget is to clearly define the scope and goals of the current project. In defining the scope of the project, the following are some of the factors that will be considered:

1. Project goals, timeline and budget
2. Any unique characteristics and considerations (resident/hotline complaint logs, special characteristics, etc.)
3. Existing available information (available utility atlases, as-builts, operating reports, etc.)
4. Additional information that will need to be obtained (survey, geotechnical studies, traffic studies, etc.)
5. Potential impacts of construction to: parking, bus routes, emergency access and vehicular flow; pedestrian routes; community events; existing utilities; etc.
6. Project stakeholders (affected residents, HOAs, public agencies, etc.)
7. Regulatory authorities having jurisdiction and permitting agencies
8. Project funding
9. Construction requirements and limitations

At the outset of the project it is necessary to clearly define the scope of the project and the project goals for all concerned parties to ensure the successful completion of the project. The City has a diverse project base, and therefore needs a consultant that is versatile and flexible when it comes to project designs, delivery and schedule. CMA has experience with maximizing project value through innovative design techniques to meet budget constraints and working with accelerated schedules. CMA also has experience with all of the construction delivery methods, including design-bid-build, design-build and construction manager at risk. If CMA is selected for this Contract, the City will have a consultant well versed with multiple design and delivery methods and flexible enough to meet the project goals.

For every assignment, CMA will prepare a Project Management Plan, defining the scope, schedule and budget of the project. The Project Management Plan will also identify key contacts from CMA and our subconsultants and identify the communication protocol to insure timely and clear responses to any and all inquiries related to the project field services and design. The Project Management Plan will also highlight key concerns with field conditions, regulatory bodies or stakeholders such that these issues can be addressed throughout the duration of design and construction.



Preliminary Data Collection and Establishing Initial Conditions

The initial phase of any project is to collect data and establish the existing conditions. In this phase, the CMA Team will perform a number of existing site assessment tasks to identify key features within the project area. These initial assessments may include:

1) Utility atlases and/or as-built information

The CMA Team will request a locate design ticket to become familiar with existing utilities within the project area.

2) Existing available topographic information

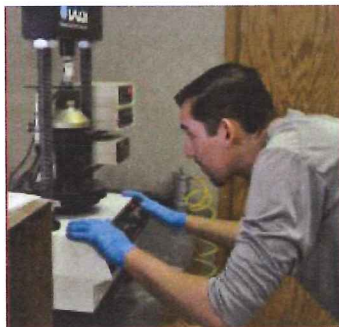
The CMA Team will utilize existing available LIDAR data to review elevation data within the project area.

3) Existing property/parcel information

The CMA Team will utilize existing available GIS parcel and County data to obtain existing property/parcel data.

4) Soil data/geotechnical reports

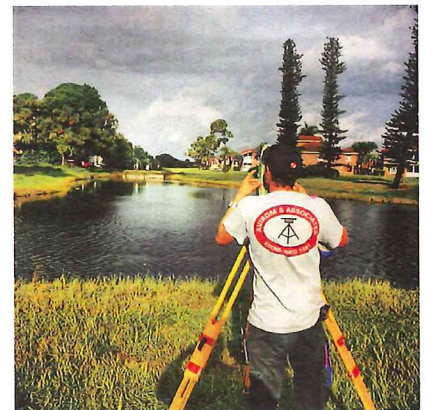
The CMA Team will coordinate with our geotechnical subconsultants



regarding general subsurface conditions in the area including general exfiltration rate values for preliminary evaluation of proposed solutions.

5) Aerial photograph

The CMA Team will review existing aerial photographs of the project area and noted: the proximity of available outfall locations, existing outfall locations; existing above ground utilities to be coordinated; existing area property developments; existing landscaping/trees that will need to be coordinated for the implementation of the project; existing traffic control of the project area; etc.



6) Site specific field visit

In addition to reviewing existing available information, the CMA Team will conduct a project-specific site visit to identify features that may not have been identified in existing documentation and to review existing conditions

as they exist today. Based on a site visit and review of existing data, we can supplement the existing data with only the required additional information, thereby providing an efficient and cost effective existing conditions analysis of the project area.

7) Detailed Field Investigations



Additional survey, utility location, and site-specific geotechnical information would be provided by our subconsultants (Avirom and Associates for Survey, GFA International for Geotechnical Investigations, Infra-Map for utility locates and The Merchant Strategy for public involvement). All field investigation efforts will be coordinated with City staff to verify that the schedule and timing of the work will have a minimal impact on adjacent residents and land-owners. Any potential concerns regarding maintenance of traffic and restoration of pavement or vegetation will be coordinated in advance of the field work occurring.

8) Obtain Stakeholder Input

Obtaining stakeholder input is critical to the success of any project. It is important that stakeholders are strategically engaged early in the process. The CMA Team bolstered by The Merchant Strategies will coordinate with City staff to facilitate meetings with regulatory agencies, residents, business owners, neighboring municipalities, and other interested parties as necessary to make sure the expectations are understood by each party involved in the project. Often consultants do not spend enough time communicating with their clients and this can result in misunderstandings and in failing to meet the project expectations. The CMA team understands the importance of communication during the project and is available to meet with clients as often as possible to get the job done. During this phase of our project approach, CMA will document all discussions and meetings by producing project meeting minutes.



Detailed Design

Because of our size and experience, the CMA team is able to provide detailed design services for a wide variety of project sizes and complexity. For small projects with limited complexity, such as the detailed design of a sidewalk, the detailed design can be optimized into two submittals: 90% and 100 % plans and specifications. This approach reduces the review burden on City staff and reduces the expense to the City for the design. For a larger and more complex project, a typical submittal schedule of 30%, 60%, 90%, and 100% plans and specifications allows for ample review by City staff and stakeholders. Oftentimes, these interim submittals can be used to present to boards and committees such as the Planning, Zoning and Building Board in order to gain buy-in and solicit input prior to finalizing the project Contract Documents. CMA utilizes a proven Quality Control approach to ensure that our plans are of the highest quality.

Construction Services

The City has unique characteristics that require planning and surveillance during construction. This includes, but is not limited to: allowable dates for construction, working hours, needs of the residents, specialty landscape and hardscape restoration, right-of-way encroachments, and maintenance of traffic. The Engineering Construction and Inspection Department at CMA consists of highly experienced professionals backed by years of experience and the latest technology, and are prepared to accommodate all special conditions of the City. They assist the engineers in many aspects of the project including:

- Constructability Review and Quantity Measurement
- Bidding and Contract Awards Assistance
- Shop Drawing Review
- Contract Administration and Payments
- Field Inspection and Reporting
- NPDES Compliance
- Field Engineering and Problem Solving
- Public Information and Liaison with Community

One of the main technical advantages of the CMA team comes from the use of GIS technology during construction inspection and management. This approach offers many benefits in dealing with the immense amount of data that must be acquired and managed during the construction process.

The following section elaborates on the abilities of the staff to complete all required construction administration tasks.

Coordinating the bid process, analysis of bids received, and providing recommendation on the award of construction contract

Chen Moore and Associates is very familiar with the entire bidding process. Recent experience involved utility construction contracts going to bid for the Town of Palm Beach. CMA typically facilitates a mandatory pre-bid meeting with prospective bidders, followed by answering any questions from bidders in the format of addenda. Once bids are submitted, CMA will review the bids for completeness and compare the unit prices submitted with similar bids for other projects. This process allows for CMA to evaluate if the bidder is acting in good-faith and can sometimes demonstrate the intentions of the Contractor if unit prices vary significantly from market prices.



Preparation of supplementary sketches required to solve problems during construction

Being a small firm, we believe that it is our duty to the client to respond as quickly as possible when a problem arises. Sketches to solve construction issues can be produced within minutes, and the construction inspectors on our staff are always available to aid in the process.

Checking detailed construction and shop drawings submitted by the contractor for compliance with the design concept

The CMA Team has extensive experience reviewing plans for internal projects and for outside clients. Chen



Moore and Associates understands the need for internal review of design drawings. Plan review is done by Professional Engineers as well as Field Inspectors, who give feedback on the constructability of projects. CMA also realizes that it is sometimes necessary to review and verify work performed by prior consultants. Shop drawings will be reviewed in a timely manner. The CMA Team has established contacts with several different material supply companies. This has proven useful in getting shop drawings reviewed and approved.

Making periodic visits to the project site at intervals appropriate to the various stages of construction to observe progress and the quality of the executed work

Depending upon the specific needs of each project, the CMA Team will make construction inspectors available full-time, or available at critical junctures in the project process, for certification and testing.

It is essential during construction to have on-going communication between the Client, Contractor, Consultant and Community. CMA has established a very good reputation as a Construction Administration firm. One important aspect of clarification is between the Community and the Client. This cannot be overlooked. The construction phase is when most residents notice changes occurring, along with disruptions. It is during this time that most residents start paying more attention to the actual changes taking place. It is extremely important to keep an on-going dialogue with the residents to explain why certain aspects were designed as they were and what the overall benefits will eventually be.



The CMA Team realizes that even with the best planning, pre-investigation, design and communication, changes can occur during construction. The most effective way of dealing with change orders is to try to anticipate them, provide alternative solutions quickly, which are acceptable to both Client and Contractor, and negotiate with both entities to minimize additional costs. Often times, changes can be made on site without the need for the change order process. CMA has built a reputation of administering projects in a way which minimizes change orders and the costs associated with them.

Issuing Instructions from the City to the Contractor, issuing necessary interpretations and clarifications of contract documents, and making decisions as to the acceptability of the work

At CMA, the engineers work very closely with the in-house inspectors, allowing a different point of view to be seen when interpreting construction documents. Considerable experience has been gained due to the fact that all engineers involved in infrastructure design have had field experience, in-house, performing construction management services. The lessons learned in the field are incorporated into design, and the engineers have the knowledge to make educated decisions about the acceptability of the work.



Determining amounts of progress payments due, based on completion of the work, and recommending issuance of such payments.

The field inspectors of the CMA Team will be equipped with the knowledge of each step taken in the project process, and therefore will be able to assess the progress of the construction. The field inspectors will then convey to the engineers what they feel is an appropriate recommendation to the City, and the engineer will consider this opinion and possibly field verify this opinion before making the final recommendation to the City.

Observing initial operation of the project, or performance tests required by specifications

The engineering team at CMA feel that it is their duty to be present for all important procedures that have an effect on the project. Since the outcome of these procedures will be incorporated into the design, the engineers are obligated to observe and approve the procedures.

Making a final inspection and reporting on completion of the project, including recommendations concerning final payments to contractors and release of retained percentages, if any

During the final walk-through of the construction, the inspectors will be required to maintain extensive documentation that can clearly be understood by the engineers. The engineers, in turn, will issue recommendations of final payment to the contractor after they are satisfied that the construction process is complete.

Preparing needed documents including record drawings and certifications for submittal to regulatory agencies

CMA is very familiar with dealing with regulatory agencies, so they will be able to predict and deliver what the agency needs. The CMA Team is also experienced in dealing with unexpected events and situations, and can respond promptly with the required information.

Providing Schedule Controls

There are many methods for construction schedule control, but the biggest advantage to today's construction manager is the use of computerized Critical Path Method (CPM) scheduling and project management. By establishing the CPM for an individual project and tracking progress, the City can be provided the following schedule elements at any time:

- Current construction task
- Critical material deliveries
- 2-week look-ahead
- Projected completion date

By tracking each of these schedule elements at all times, CMA can quickly help the City respond to inquiries by residents, elected officials, and regulatory agencies.

v. Specify the location(s), including the complete physical address, where the work for this project will be performed, including work performed by subcontractors, if applicable.

Chen Moore and Associates has its corporate headquarters in Fort Lauderdale, with additional branch offices in West Palm Beach; Miami; Orlando; and Gainesville. All work on this contract will be handled by staff from our West Palm Beach office. This office location houses both our Director of Water Resources, Brent Whitfield, P.E. and Director of Landscape Architecture, Cristobal Betancourt, RLA who will serve as the Project Managers of any assignment. All design work will be produced by staff in the West Palm Beach office, which includes 4 licensed Professional Engineers, 2 Registered Landscape Architects, a Certified Arborist and a Certified Irrigation Designer. Our support staff includes a Lead GIS Analyst, Teresa Chapman, who is a 4-year resident of the City currently working on an assignment to support the

Delray CRA. Our West Palm Beach office is located at:

500 Australian Avenue South, Suite 530
West Palm Beach, FL 33401
Telephone: +1 (561) 746-6900
Fax: +1 (561) 746-8333

Our central locale enables on-staff professionals to develop innovative, yet practical designs based on special insights into the problems and requirements of the communities of which they are a part. By living and working in these communities, Chen Moore and Associates' engineering professionals are able to work closely with their clients.

Subconsultants

Infra Map Corp
1860 Old Okeechobee Rd, Unit 201
West Palm Beach, FL 33409

The Merchant Strategy, Inc.
1804 North Dixie Highway, Suite B
West Palm Beach, FL 33407



GFA International
1215 Wallace Drive
Delray Beach, FL 33444

Avirom and Associates, Inc.
50 SW 2nd Avenue - Suite 102
Boca Raton, FL 33432
Telephone: (561) 392-2594

vi. Proposer shall thoroughly explain:

(1) Its accessibility in the areas of availability for meetings, general communications, coordination, and supervision.

At Chen Moore and Associates, staffing is not based on “filling a position.” Rather, staff members are selected based on their work ethics, moral standards, technical capabilities and aptitude for teamwork. The individuals come together to create a company culture that motivates employees and encourages them to grow in their profession. That is why we train our project managers to be leaders.

Our project managers have been through leadership training to gain knowledge on not only being great managers but on how to be community leaders. Community leaders have more of an invested interest in providing the best service and product to their clients and the communities that they work in. For this reason, our project managers, and by extension our staff, place client availability for meetings, general communication, coordination and supervision as the most important responsibility in the role of Consultant.

Mr. Brent Whitfield, our selected Project Manager is no different. As a lifelong resident of Palm Beach County, a Past-President of the Palm Beach Branch of ASCE and a 2016 graduate of Leadership Palm Beach County, Mr. Whitfield is invested in this community and is committed to being available for a project of this importance. Mr. Cris Betancourt, our selected Project Manager for Landscape Architecture assignments is also a valued community member and has been an active member of several local professional associations including the American Planning Association, American Society of Landscape Architects, Florida Recreation and Park Association, and the Urban Land Institute. Mr. Betancourt maintains the reputation as a consummate professional among industry professionals and peers in South Florida. In addition to Mr. Whitfield and Mr. Betancourt, nearly all of the leading roles on our organization chart are filled with staff who have not only proven to be great project managers and leaders but who have held roles as presidents of various engineering organizations throughout the state of Florida.



(2) Primary method for attending meetings and how much advance notice is required.

Because all of the work will be performed out of our local office in Palm Beach County and our staff is committed to the community, our responsiveness and availability will be extensive. The primary residences of both Mr. Whitfield and Mr. Betancourt are in coastal communities within 15 miles of the City of Delray Beach. Our first priority is communication with our clients, and meetings are often the most effective means of communication. Our management and project staff will be available for attending meetings within 24 hours of notice and often times will be available on the same day as requested. In addition to face to face interaction, CMA uses the latest technologies in information services which allow for seamless electronic coordination through our SharePoint site and other web tools.

(3) How the Proposer physically plans on attending pre-schedule meetings.

Based on our background working with municipalities on neighborhood improvement projects, we understand the importance of coordination meetings as early and often as needed to insure the design team and the City Staff are on the same page. With all of the work being performed by our local staff, attendance at the meeting by not only our Project Manager, but also subject matter experts will be standard practice. For issues with roadway, underground utilities or constructability, Mr. Whitfield will be joined by staff with additional expertise in the subject that the meeting is focused on. Having subject matter experts attend all meetings with City staff is a common practice for CMA, as evidenced in a recent scoping meeting for a small task order with the Delray Beach CRA regarding GIS services. Mr. Whitfield, the project manager, was joined by GIS Lead and City resident, Teresa Chapman. This approach ensures our staff understands the client's needs at all levels of our organization.

(4) How the Proposer plans on ensuring accessibility and availability during the term of the Agreement.

CMA makes the commitment that all key personnel on the project team will be dedicated as necessary to meet the needs of the City of Delray Beach. All CMA project managers and staff realize that on-time delivery is a key element in meeting our commitments to clients. Because of our resources and qualified personnel, CMA is able to overcome any unforeseen delays by assigning additional staff. The work under this contract will be performed out of the West Palm Beach office. All of CMA proposed staff and resources are immediately available to start work on one or more of the elements identified in your Request for Qualifications. As mentioned earlier, CMA offers the City a large staff, with varying skills and capabilities, all of whom have worked together on numerous projects. CMA confirms our availability to continue the work specified in the Request for Qualifications on an ongoing and as needed basis. It is the intention that the Chen Moore staff members and subconsultants identified in the organizational chart will be used for projects for the City of Delray Beach. No substitutions will be made unless they are approved by City staff.



By designating, Mr. Whitfield as the Project Manager for Engineering assignments and Mr. Betancourt as Project Manager for Landscape Architecture assignments CMA ensures that the authority to assign staff and reallocate any resources needed to meet the needs of the City of Delray Beach will be provided throughout the term of the project .

C. Projects for Similar Services

List up to ten projects that Proposer has provided Professional Services since September 1, 2013.

| (3) Landscaping/Architectural Design Services | | | |
|--|------------------------------------|-------------------|--|
| Organization name | Dates of service (start/end) | Status of project | Scope of work |
| <p>City of West Palm Beach Leah Rockwell lrockwell@wpb.org 401 Clematis St. West Palm Beach, FL 33402 P: 561.804.4904</p> | <p>10/21/2014 - 12/31/2015</p> | <p>Complete</p> | <p>Subconsultant to GreenPlay, LLC for the development of the City of West Palm Beach Parks and Recreation Master Plan. Our scope of work involved providing Facility Inventories and a Level of Service Assessment. CMA used cutting edge Geographic Information Systems (GIS) technology in the form of ESRI Collector Software to completely catalog the client's existing parks and recreation assets. Collector Software was operated from our GPS enabled phones and tablets and allowed us to collect coordinate correct information on all of the parks' assets. Our process involved creating a database of the City's parks assets and performing a preliminary analysis via aerial photography. Once the preliminary analysis was completed, CMA staff visited each parks facility and ground truthed their findings. At the end of the process, the city received the database and was trained by CMA to maintain the database on an ongoing basis facilitating future updates to the master plan.</p> |
| <p>CPZ Architects Inc (client) Chris Zimmerman chris@cpzarchitects.com 4316 West Broward Blvd Plantation, FL 33317 P: 954-792.8525 F: 954-337-0359</p> | <p>11/16/2015 - 8/1/2017</p> | <p>Complete</p> | <p>Site planning and landscape architecture for the design of a 24 acre district park. The park serves a new residential community in the northwestern section of the city. The park carries a nature theme celebrating the flora and fauna of the Everglades. Divided into four themed areas, the park celebrates mammals, birds, insects, and reptiles & Amphibians of the Everglades. The site includes a 12 Acre lake with a kayak launch, recreational trail, and fishing pier extending into the lake. CMA is serving as a subconsultant to CPZ Architects and is providing design (landscape, hardscape, irrigation, and lighting), permitting, and construction administration services for the Project. The site is being designed to meet Green Globes criteria and includes extensive use of native plant materials and high efficiency irrigation.</p> |

(3) Landscaping Architectural Design Services

Scope of work

Status of project

Dates of service (start/end)

Organization name

City of Hollywood
Karen Arndt
karndt@hollywoodfl.org
1600 S. Park Road
Hollywood, FL 33022-9045
P: 954.921.3930
F: 954.921.3937

Landscape architecture services for the restoration of the dune system accessed from Jefferson Street in Hollywood. CMA is responsible for performing a field inventory of existing vegetation on the dune; performing an erosion Control and Vegetation Disposition Plan; creating a proposed planting plan and details; and permitting through the Florida Department of Environmental Protection. CMA will also provide construction administration.

Complete

2/12/2016 -
10/1/2016

City of Deerfield Beach
Kara Petty
kpetty@deerfield-beach.com
150 NE 2nd Ave.
Deerfield Beach, FL 33441
P: 954.480.4483
F: 954.420.2274

design, permitting and construction engineering inspection services for the conversion of an existing football field and multi-purpose field into one Babe Ruth Baseball field, one Little League Baseball field, and one practice baseball field for the City of Deerfield Beach Parks and Recreation Department. The project is located in Westside Park, which is a 15 acre park located south of Hillsboro Boulevard, offering two lighted basketball courts, a football field with concession stand, two lighted tennis courts, a full service recreation center, full size gym, picnic areas and a newly renovated playground. CMA was responsible for providing survey, geotechnical, site planning, civil engineering, landscape architecture, MEP and structural engineering services. The scope of the project included the layout of the baseball fields with supporting services such as lighting, dugouts, scoreboards and irrigation. The project also included general improvements to the park around the baseball fields including better pedestrian access, ADA parking and sidewalk improvements, native landscaping, outdoor seating areas and stormwater improvements. The project is located in an underserved community of Deerfield Beach and provides access to improved parks and recreation services for the community. The project was funded through a Community Development Block Grant.

Complete

11/6/2012
- 11/30/2014

(3) Landscaping Architectural Design Services

Scope of work

Status of project

Dates of service (start/end)

Organization name

| | | | |
|--|------------------------------|-----------------|--|
| <p>City of Coral Springs Ronald Stein rstein@coralsprings.org 9551 West Sample Road Coral Springs, FL 33065-4182 P: 954.346.1739 F: 954.344.1171</p> | <p>6/25/2013 - 10/1/2015</p> | <p>Complete</p> | <p>Chen Moore and Associates was contracted by the City of Coral Springs to assist the Coral Springs CRA in the planning, design, permitting and construction support of various streetscaping improvements in Downtown Coral Springs. As the prime consultants, CMA provided civil engineering, landscape architecture, environmental permitting and construction engineering and inspection services for the project.</p> <p>The project included implementing Complete Street concepts for NW 31st Court, NW 94th Avenue and NW 32nd Street. Additionally, CMA implemented the culverting of the canal along NW 31st court to provide space for a linear park, currently called the "Art Walk", which is an important pedestrian connection between the downtown pathways project and The Walk development. Finally, the project includes the implementation of turn lanes along Sample Road, median improvements in Sample Road and minor improvements to adjacent alleyways and pedestrian pathways.</p> <p>Overall, the project improves the walkable nature of Downtown Coral Springs, while tying together various aesthetic elements in advance of the City Hall project sited adjacent to them projects.</p> |
|--|------------------------------|-----------------|--|

(1) Engineering, (4) Civil and (9) Water Resources

| Organization name | Dates of service (start/end) | Status of Project | Scope of work |
|--|------------------------------|-------------------|---|
| City of Riviera Beach Terrence Bailey tbailey@rivierabch.com 600 Blue Heron, Riviera Beach 33404 P: 561.845.4060 F: 561.840.4038 | 6/29/2015 - present | Construction | Roadway, sidewalk, drainage, water and sewer improvements as part of a neighborhood improvement program. The scope of services includes field investigation including sidewalk condition assessment, utility coordination, design, permitting and public information. The design will be completed on an accelerated schedule to fulfill the City's bond requirements. |
| Town of Palm Beach Jeffrey Sanon JSanon@TownofPalmBeach.com 951 Old Okeechobee Rd West Palm Beach, FL 33401 P: 561.227.7024 F: 561.835.4691 | 11/5/2014 - 4/30/2016 | Construction | Design, permitting, resident coordination and construction administration services for the drainage improvements of three streets. The design included non-traditional techniques to accommodate landscape features and narrow right-of-ways. |
| City of Riviera Beach Utility District Leighton Walker lcwalker@rivierabch.com 600 W Blue Heron Blvd Riviera Beach, FL 33404 P: 561.845.4185 F: 561.840-7292 | 8/18/2010 - present | Construction | Relocation of underground utilities which are in conflict with proposed road widening projects for Blue Heron Boulevard/Dixie Highway, Dyer Road/Haverhill Boulevard, US 1, Martin Luther King Boulevard Phase B and C, Blue Heron Boulevard/Congress Avenue, Silver Beach Road and Garden Road. The scope of services included coordination with RBUD and local regulatory agencies, coordinating utility location efforts, design of utility relocation and traffic management plans to FDOT standards and permitting. The projects involve over \$8 million in water and sewer improvements completed in conjunction with FDOT and Palm Beach County projects. |

(1) Engineering, (4) Civil and (9) Water Resources

Scope of work

Organization name

Dates of service (start/end)

Status of Project

| | | | |
|---|----------------------------------|---------------------|--|
| <p>Broward County Patrick MacGregor pamacgregor@broward.org 2555 West Copans Road Pompano Beach, FL 33069-1233 P: 954.831.0904 F: 954.831.0798</p> | <p>8/8/2005 - 10/29/2012</p> | <p>Complete</p> | <p>Originally the BPNIP was separated into four bid packages; however, Chen Moore and Associates was able to value engineer the 3rd and 4th bid package areas to combine them into one which we called Bid Package 3. This Bid Package addressed the sanitary sewer and drainage improvements, as well as improvements to the community's sidewalks, roadway and landscape. These improvements consisted of 47,000 linear feet of gravity sewer, 6,200 linear feet of 8" force main, 20,100 linear feet of drainage pipe along with roadway restoration and new sidewalks for a total construction cost of approximately \$13.3 million.</p> |
| <p>City of Pompano Beach Alessandra Delfico, P.E. Alessandra.Delfico@copbfl.com 1201 NE 5th Ave Pompano Beach, FL 33060 P: 954.786.4144 F: 954.786.4028</p> | <p>4/1/2003 - present</p> | <p>Construction</p> | <p>Chen Moore and Associates is responsible for managing the planning and design of the City's Lift Station Rehabilitation Program. CMA has performed design, permitting and construction administration services for over 19 lift stations, with the scope of work including new lift stations, rehabilitation, odor studies, force main studies and capacity analysis.</p> |
| <p>City of Miramar Jody Kirkam jkirkman@ci.miramar.fl.us 13900 Pembroke Road Bldg. L - 1st Floor Miramar, FL 33027 P: 954.883.5065 F: 954.602.3638</p> | <p>5/27/2015 - 4/27/2016</p> | <p>Complete</p> | <p>Design build of the directional drill of a reclaimed water main. The project is located along Flamingo Road, bounded to the south by Somerset Boulevard and to the north by Miramar Boulevard. The project included the directional drill of approximately 7,700 linear feet of 8-inch reclaimed water main, including under the FDOT Turnpike and SFWMD Canal. The project included 15 connections to service both existing and future property owners and irrigation connections to the Broward County medians. CMA coordinated with the City and Contractor to design, permit and provide limited construction engineering, inspection and administration services for the directional drill of the reclaimed watermain.</p> |

(1) Engineering, (4) Civil and (9) Water Resources

Scope of work

Organization name

Dates of service (start/end)

Status of Project

Wilton Manors

David Archacki

DArchacki@wiltonmanors.com

2020 Wilton Drive

Wilton Manors, FL 33305

P: 954.390.2190

F: 954.567.4212

Design a roadway improvement along a portion of North Dixie Highway within the City limits. The project was partially funded by FDOT through their Local Agency Program (LAP). 2,200 linear feet of roadway within public right of way which varies between 50 feet and 60 feet wide.

Complete

11/12/2013 -
11/4/2014

Wilton Manors

David Archacki

DArchacki@wiltonmanors.com

2020 Wilton Drive

Wilton Manors, FL 33305

P: 954.390.2190

F: 954.567.4212

CMA is designing new submersible lift station including demolition of existing, new wet well, valve vault, bypass connections and new control panels.

Construction

1/13/2015 -
present

City of West Palm Beach

Tracy Ward

TWard@wpb.org

401 Clematis Street, 2nd Floor

West Palm Beach, FL 33402

P: 561.494.1120

F: 561.494.1116

Created existing conditions model was created and modified to simulate actual flooding events that occurred during the study period. Recommended alternatives were discussed with the City, and conceptual designs and cost estimates were created for the preferred alternatives. Modeling was performed to simulate the effectiveness of the proposed alternatives. The original project scope was expanded to include other areas in the City that experience flooding.

Complete

6/1/2012 -
9/3/2012

(1) Engineering, (4) Civil and (9) Water Resources

| Organization name | Dates of service (start/end) | Status of Project | Scope of work |
|--|---|-------------------|--|
| <p>City of Margate Reddy Chitepu engineer@margatefl.com 102 Rock Island Rd Margate, FL 33063 P: 954.972.0828 F: 954.978.7349</p> | <p>3/19/2009 - 2/28/2013</p> | <p>Complete</p> | <p>Design, permitting and construction administration. Design incorporated 'Green' elements which were used to reduce the amount of water needed to irrigate. The wide median sections slope inward creating large swales and the brick pavers on the narrow median have inverted crowns which slope and divert runoff towards the grassy medians. This reduces the amount of runoff storage needed in the side street swales, reducing project costs.</p> |

D. Organizational Structure

- i. Submit details of Proposer's staffing resources, at the location that will provide services to the City as well as corporately; by discipline and the number of personnel within each discipline.
- ii. If Proposer's staffing resources includes sub-consultants, submit the name of the firm(s) who will perform each discipline. If more than one firm is listed for a discipline, then label which firm is the primary firm for that discipline. Firms may perform more than one discipline.
- iii. Submit an organizational diagram clearly identifying key personnel as well as other staffing resources who are designated to provide services to the City. For each individual in the organization diagram, include each individual's name, title, firm and indicate their functional relationship to each other.
- iv. Provide a written response clearly defining responsibilities, contractual relationships and roles of all individual in the organizational diagram.

Following is a summary of the experience and qualifications of Chen Moore and Associates' key team members for this contract. The following are staff members of CMA that will be providing project management services under this Contract. Our organizational chart and resumes are at the end of this section.

Brent Whitfield, P.E. will serve as project manager for engineering, civil and water resources/stormwater management projects. His professional experience includes watershed, airport and municipal master planning studies as well preparing construction plans and specifications and providing construction administration services. In over 13 years of professional experience, Mr. Whitfield has worked for a variety of public sector clients at the City, County and State level. As a life-long resident of Palm Beach County, Mr. Whitfield has maintained a commitment to serving the community both professionally and personally serving on the boards of professional societies and civic organizations. In an academic capacity, Mr. Whitfield's previous experience includes a research assistantship at the University of Florida where he was the primary author on a December 2006 paper in the Journal of Hydrometeorology.



Cristobal Betancourt, RLA will serve as project manager for landscape architecture projects. He has over 20 years of experience providing planning and landscape architecture design solutions for public and private sector clients. Mr. Betancourt provides a full range of services starting with due diligence and master planning culminating in detailed site design. Most of Mr. Betancourt's current projects involve the design of facilities that are pursuing LEED accreditation through the United States Green Building Council. He is well versed in the use of low-impact development techniques applied to site planning. Mr. Betancourt will lead the landscape architecture/ planning portion of this contract. In this role he will act as the Lead



Landscape Architect; prepare landscape design concepts; master plan; construction documents; and irrigation design.

Peter Moore, P.E., LEED AP, F.ASCE is ultimately responsible for all day to day operations of the firm. Mr. Moore works as the Client Project Manager for work in Broward County, Pompano Beach and Deerfield Beach and continues to be involved in the successful completion of projects. These projects include sanitary collection improvements, pump station rehabilitation, transportation engineering enhancements, water and reclaimed water consulting along with all other phases of civil engineering design and neighborhood improvements. Additionally, Mr. Moore serves as the Assistant City Engineer for the City of Coral Springs and is the spokesperson for the City's Engineering Division. Finally, Mr. Moore serves on the firm's QA/QC Committee ensuring the consistency of the quality product throughout the firm.



Jason McClair, P.E., CFM, LEED AP is a senior civil engineer with experience in utility infrastructure design, regulatory permitting, geotechnical engineering, and computer aided flow modeling for stormwater collection, water distribution, and sanitary transmission systems. He is currently the project manager for the Fort Lauderdale-Hollywood International Airport Stormwater Master Plan Update and the Pompano Beach Stormwater Master Plan. Mr. McClair will provide QA/QC of this contract. In this role he will assure client satisfaction, provide technical supervision, contract negotiations and assist with any public or government coordination.



Suzanne Dombrowski, P.E. is a senior engineer with Chen Moore and Associates. Ms. Dombrowski has worked on multiple neighborhood improvement projects for Broward County, including sewer, drainage and roadway design and permitting. Ms. Dombrowski also managed the utility coordination projects for Riviera Beach Utility District, including the water and sewer designs, permitting and construction administration. She has experience using GIS during projects to calculate sewer and water flows, provide exhibits for permitting, prepare field study reports and various exhibits for coordination throughout construction. Ms. Dombrowski will serve as Project Manager for this contract. In this role she will oversee each aspect of the project and serve as the main point of contact for the City.



Eric Harrison, RLA has over 14 years of landscape architecture experience with several municipalities throughout South Florida. He has provided design services for parks and recreation, university campuses, K-12 education, corporate office, commercial developments and healthcare facilities.



Marcus Austin, GC is the Director of Construction Services and project coordinator for Chen Moore and Associates (CMA). He has brought over 27 years of design and development experience in South Florida to CMA. He is currently involved in both vertical and horizontal projects, which have a total construction value of over \$167 million. These projects include the Broadview Park Neighborhood Improvement Projects and various civil engineering projects for municipalities. Mr. Austin is also a certified NPDES and OSHA Training instructor and teaches these courses throughout the State of Florida. Mr. Austin will provide construction administration services for this contract. In this role he will serve as the overall construction manager that includes day-to-day construction monitoring and oversight; manage testing program and manage construction records.



The following are staff members of CMA that will be providing support services to the project management staff.

Paula Fonseca, P.E. is a civil engineering graduate of Florida Atlantic University with nearly six years of experience. She serves as senior engineer in Chen Moore and Associates' West Palm Beach office and serves as the primary hydraulic modeler for the firm. She assists with design work using AutoCAD, GIS and InfoWater 8.1v. Ms. Fonseca has worked on neighborhood improvement projects for Broward County, utility coordination projects for Riviera Beach Utility District, including water and sewer designs and permitting, Design of GIS Utility Atlases for the City of Pompano Beach and Solid Waste Authority, as well as Palm Beach County Water Master Plan and Glades Regional Water Master



Plan through the use of water modeling software and GIS. Ms. Fonseca will focus on the permitting portion of this contract. In this role she will provide permitting services that are in correlation within City standards.

Teresa Chapman serves as an associate engineer in our West Palm Beach office. Ms. Chapman currently supports the design for the Riviera Beach Utility District improvements and Town of Palm Beach improvements. In addition, Ms. Chapman performs utility coordination and construction administration services for the Riviera Beach CRA, including the US1 Undergrounding Project and the Marina District South Redevelopment. Ms. Chapman serves as the firm lead in GIS Online technology and utilizes this throughout the firm for planning and construction administration. Ms. Chapman will provide engineering support for this contract. In this role she will be responsible for developing engineering reports, construction documents and technical specifications; manage day-to-day design activities; coordination between design disciplines; design resource allocation; document control; and manage the design schedule.



Andrew Savage, P.E. is a senior engineer at our West Palm Beach office. His previous firm experiences include land development for both private and public sector clients; design for sanitary sewer, water, fire, and storm pipe systems; due diligence and opinion of probable cost report preparation; and permitting, zoning, stormwater management, and drainage calculations. Mr. Savage is currently providing resident project representative services during construction for the Riviera Beach MLK C Utility Improvements, as well as assisting with the design of utility improvements in Riviera Beach and Margate. Mr. Savage will provide engineering support for this contract. In this role she will be responsible for developing engineering reports, construction documents and technical specifications; manage day-to-day design activities; coordination between design disciplines; design resource allocation; document control; and manage the design schedule.



Mike Wood serves as an associate engineer in our West Palm Beach office. He is currently assisting with various projects for the City of Riviera Beach including the AutoCAD design and permitting for Silver Beach Road and Garden Road Utility Relocation Projects, as well as drainage design for the City of West Palm Beach. Mr. Wood is currently pursuing his Master's Degree from FAU and will be completing his thesis on Sea Level Rise. This research will be part of the Stormwater Master Plan that CMA is performing as part of a team for the City of West Palm Beach. Mr. Wood will provide engineering services for this contract.



Kathryn Moffatt is a landscape designer with CMA's West Palm Beach Landscape Architecture team. Katie provides design and production support to the senior landscape staff for parks and recreation and transportation clients. She is a graduate of Penn State University and is working towards her professional licensure.



Amber Mathis, CA is a certified arborist and recently joined CMA as a landscape designer. Her previous experience includes serving as a Horticulturist for the City of Gainesville where she developed and implemented the City of Gainesville's tree planting programs; coordinated the installation and maintenance of young trees on City property; supervised assigned employees; inspected tree removal permits; assisted in shade tree inspections for new development; assisted with Code Enforcement inquiries regarding tree regulations; coordinated with the CRA and the Public Works Department on capital improvement projects to include design, development and inspection; and wrote, coordinated and oversaw professional service contracts. Ms. Mathis will provide arborist services for this contract.



Stefan Bortak, CID is a certified irrigation designer - commercial for Chen Moore and Associates. He has 10 years of experience with all aspects of irrigation consulting, design, details and specifications. He prepares landscape, hardscape, and irrigation plans from concept to construction documents; irrigation distribution plans; water use permits; water use analysis; LEED documentation and calculations. Mr. Bortak also performs construction administration, shop drawing review, and inspections. He is responsible for producing plan and section renderings and graphics, and realistic 3D renderings and fly-through videos. Mr. Bortak will provide irrigation services for this project.



Subconsultants

InfraMap Corp. was founded in 1987 and is a leading provider of Subsurface Utility Engineering (S.U.E.) and Utility Infrastructure Mapping services. They collect utility infrastructure data in the field using sophisticated geophysical techniques and instrumentation (including Ground Penetrating Radar, GPR), with automated data collection gear and state of the art survey equipment. They collect and present this data to aid our clients in reducing the design and construction cost of major infrastructure projects. InfraMap will provide utility testhole services for this contract.



The Merchant Strategy, Inc. (TMS) is a woman owned small business, certified DBE by the Florida Department of Transportation, and SBE by Palm Beach County, Florida, the South Florida Water Management District, and the City of West Palm Beach and MBE by the Palm Beach and Broward County School Districts and the State of Florida. TMS is owned and operated by the company president – Sharon Merchant, former State Representative and life-long resident of South Florida. The organization began serving clients in 2003, incorporating as The Merchant Strategy, Inc. in 2007



GFA International specializes in foundation recommendations and geotechnical analysis including: shallow foundations; deep foundations; driven piles; auger cast piles; drilled shafts; micropiles; soil improvement techniques; demucking; deep dynamic compaction; vibroflotation; vibroreplacement; underpinning and foundation stabilization; helical piers; pin piles; and grout injection. GFA specializes in providing highly experienced geotechnical field technicians to oversee earthwork operations and soil improvement processes during the all stages of projects including: site work monitoring and earthwork observation; vibratory compaction & vibration monitoring; pile installation & load tests; and pile driving analyzer (PDA).



Avirom & Associates, Inc. was founded in 1981 by Michael D. Avirom, P.L.S. Avirom is a company dedicated solely to the land surveying profession. Their services include aerial and conventional topographic mapping; establishing NGVD benchmarks; GPS controls; and utility locations and inverts. Avirom worked with Florida Keys Aqueduct Authority on a project in Lower Sugarloaf, Upper Sugarloaf, Cudjoe, Summerland, Ramrod, Little Torch, Big Pine and No Name Keys. The project involved the mapping of more than 16 miles of the Florida Keys for the engineering design of new sewer and water systems, and included calculated plats and right-of-ways for development of the base map. Avirom will provide surveying services for this contract.



Florida Technical Consultants was founded in 2014. Based on extensive experience using GIS for engineering projects, and as an ESRI Silver Business Partner, the Goal of FTC is to provide support services to Municipalities and Engineering firms through:

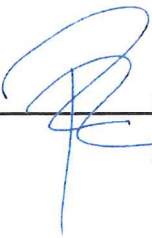
- Data Compilation and Analysis for Projects and Studies
- GIS Data Building, Cleaning and Configuring for Utilities / Public Works Management
- Engineering Design Support Services
- Permitting
- Plans Review
- Field Construction Administration
- GIS Record Drawing Submittals
- GIS Training and Support



The founder, James Barton P.E. LEED AP, has over 20 years of experience in engineering design and project management of water, sanitation and stormwater programs, including water resources, infrastructure rehabilitation and GIS implementation, environmental engineering, utilities and road construction. Mr. Barton has routinely integrated GIS technology with engineering, developing software tools to assist in system modeling, design and construction administration.

v. As a consideration of the Proposer's recent, current, and projected workloads, state the commitment and availability of all key and support personnel for City projects by providing a signed letter of commitment.

As a consideration of the Proposer's recent, current, and projected workloads, CMA makes the commitment and confirms availability of all key and support personnel for City projects.

| | | |
|---|---|---------------------|
|  | <u>Peter Moore, P.E., LEED AP, F.ASCE</u> | <u>May 30, 2017</u> |
| | Name/Title | Date |

vi. Provide a narrative detailing all key personnel's recent, current and projected workloads at the time of submission and provide a statement of the availability of each for the City's project.

Chen Moore and Associates makes the commitment that all key personnel on the project team will be dedicated as necessary to meet the needs of the City of Delray Beach. All Chen Moore and Associates project managers and staff realize that on-time delivery is a key element in meeting our commitments to clients. Because of our resources and qualified personnel, Chen Moore and Associates is able to overcome any unforeseen delays by assigning additional staff.

All of Chen Moore and Associates proposed staff and resources are immediately available to start work on one or more of the elements identified in your Request for Proposal. As mentioned earlier, Chen Moore and Associates offers the City a large staff, with varying skills and capabilities, all of whom have worked together on numerous projects.

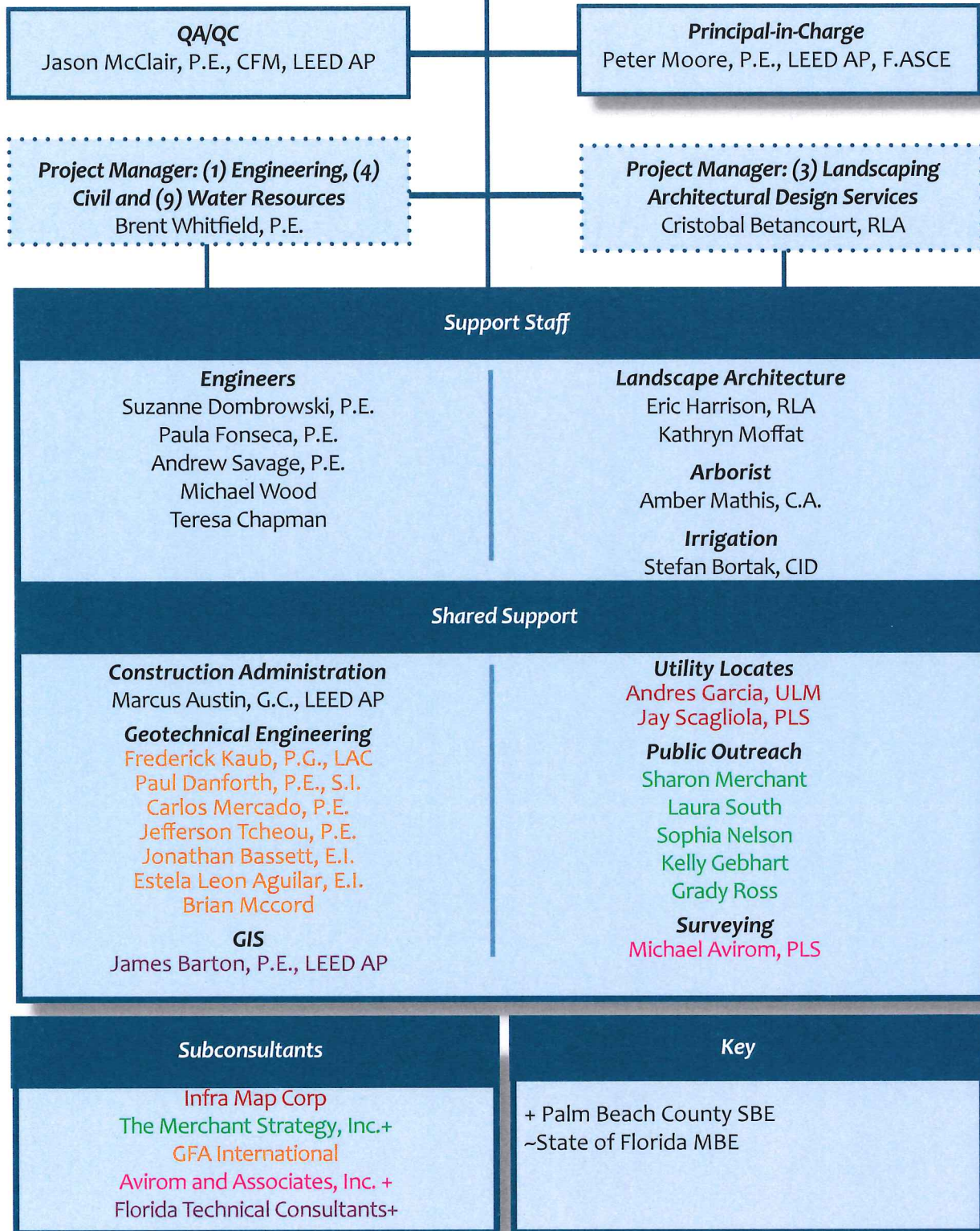
The workload for our key personnel, as well as the projects they are working on, is below.

| Key Personnel | Current Availability | Future Availability |
|------------------------------|----------------------|---------------------|
| Brent Whitfield, P.E. | 50 | 50 |
| Cristobal Betancourt, RLA | 50 | 50 |
| Suzanne Dombrowski, P.E. | 25 | 40 |
| Paula Fonseca, P.E. | 20 | 35 |
| Andrew Savage, P.E. | 40 | 69 |
| Michael Wood | 25 | 60 |
| Teresa Chapman | 30 | 60 |
| Eric Harrison, RLA | 25 | 40 |
| Amber Mathis, C.A. | 35 | 60 |
| Stefan Bortak, CID | 35 | 60 |
| Marcus Austin, G.C., LEED AP | 20 | 35 |

| Project | Percent Complete | Designing | Administering |
|---|------------------|-----------|---------------|
| Lake Worth Neighborhood Street Program | 5 | ■ | |
| Margate Marina / Memorial Park | 0 | ■ | |
| Margate Southeast Park | 0 | ■ | |
| Margate Sports Complex | 0 | ■ | |
| UV System Civic Design | 65 | ■ | |
| 2016 GIS Services | 73 | ■ | ■ |
| RBUD Garden Rd Utility Relocation Project | 68 | ■ | ■ |
| RBUD Silver Beach Road | 52 | ■ | ■ |
| MLK Phase C City | 92 | ■ | ■ |
| Riviera Bch Util Conversn-Marina Distrct | 83 | ■ | ■ |
| MDS & US1 Additionl Utility Coordination | 67 | ■ | ■ |
| Sampling Station Installation Program | 100 | ■ | ■ |
| Ongoing Engineering Services | 40 | ■ | ■ |
| Scenario 1 - Margate | 82 | ■ | ■ |
| Aerial Crossings Ph II | 91 | ■ | ■ |

| Project | Percent Complete | Designing | Administering |
|--|------------------|-----------|---------------|
| 2017 Water Main Improvements | 99 | ■ | ■ |
| W River Dr & NW 58 Terr WM CEI Services | 98 | | ■ |
| Cathedral Dr, NW 63 Tr & NW 14 Ct WM CEI | 99 | | ■ |
| Southgate Blvd & Rock Island Force Main | 53 | ■ | ■ |
| 2018 Water Main Improvements Phase I | 20 | ■ | ■ |
| Temple Beth El-Bldg Add'n & Site Imprvt | 56 | ■ | |
| Kaluz Restaurant Wellington | 68 | ■ | |
| WTP No 3 Membrane Replacement Study | 42 | ■ | |
| Blueway Trail - Boat Lift | 0 | ■ | ■ |
| CWR-W Palm Beach Stormwater Master Plan | 98 | ■ | |
| TWO 1-17-Gen'l Eng Svcs-Polk @ Pace Rd | 88 | ■ | |
| TWO 1-17-Gen'l Eng Svcs-HEFT SW 216th St | 92 | ■ | |
| TWO 1-17-Gen'l Eng Svcs-Canoe Creek SP | 95 | ■ | |
| TWO 1-17-Gen'l Eng Svcs-Polk @ S Fla Ave | 70 | ■ | |
| Riviera Beach NIP's | 97 | ■ | ■ |
| Riviera Bch Heights Comm Cntr Final Dsgn | 93 | ■ | ■ |
| Mangrove Mitigation | 90 | | ■ |
| 3201 Avenue J Document Review | 90 | ■ | ■ |
| Riverview Road Water Main | 73 | ■ | ■ |
| Palm Beach County Wake Park Complex | 47 | ■ | ■ |
| Palm Beach County Fire Rescue Station 22 | 1 | ■ | |
| Westlake City Engineering Services | 30 | ■ | |
| West Palm Beach Fire Station 4 | 80 | ■ | |
| Ft Lauderdale Fire Station 8 | 78 | ■ | |
| TPB North End Drainage Improvements CEI | 99 | | ■ |
| Skees Road Landfill Improvements | 43 | ■ | ■ |
| TPB Public Works Utility Atlas Update | 76 | ■ | ■ |
| TPB GIS Online Services | 4 | ■ | ■ |

Organizational Chart



*Peter Moore, PE, LEED AP, F.
ASCE
Principal-in-Charge*

Education

Bachelor of Science, Civil
Engineering, University of
Florida, 1997
Master of Engineering, Civil
Engineering, University of
Florida, 2004

Registration

Professional Engineer,
Florida, 58709, 2002

Professional Affiliations

American Society of Civil
Engineers

Florida Engineering Society

Florida Stormwater
Association

National Society of
Professional Engineers

Certifications

Certified Stormwater
Inspector
LEED Accredited
Professional

As the President of the firm, Mr. Moore is ultimately responsible for all day to day operations of the firm. Mr. Moore works as the Client Project Manager for work in Broward County, Pompano Beach and Deerfield Beach and continues to be involved in the successful completion of projects. These projects include sanitary collection improvements, pump station rehabilitation, transportation engineering enhancements, water and reclaimed water consulting along with all other phases of civil engineering design and neighborhood improvements. Additionally, Mr. Moore serves as the Assistant City Engineer for the City of Coral Springs and is the spokesperson for the City's Engineering Division. Finally, Mr. Moore serves on the firm's QA/QC Committee ensuring the consistency of the quality product throughout the firm.

Project Experience

Broadview Park Bid Pack 3, Broward County, FL. The Broadview Park Neighborhood Improvement Project (BPNIP) was the last of the Neighborhood Infrastructure Improvements projects to be carried out by Broward County in the unincorporated areas. Chen Moore and Associates was selected as the prime consultant for the Basis of Design Report (BODR) and subsequent bid packages. Originally the BPNIP was separated into four bid packages; however, Chen Moore and Associates was able to value engineer the 3rd and 4th bid package areas to combine them into one which we called Bid Package 3. This Bid Package addressed the sanitary sewer and drainage improvements, as well as improvements to the community's sidewalks, roadway and landscape. These improvements consisted of 47,000 linear feet of gravity sewer, 6,200 linear feet of 8" force main, 20,100 linear feet of drainage pipe along with roadway restoration and new sidewalks for a total construction cost of approximately \$13.3 million. The gravity sewer system was designed using a GIS capacity analysis tool that calculated and summarized the flow rates for each parcel in the service area. GIS was utilized during the permitting phase to graphically show the flow for each pipe and during construction to track resident complaints, track the work that had been completed and estimate the Contractor's variance from the original schedule.

Lift Station #110 Rehabilitation, Pompano Beach, FL. Chen Moore and Associates was contracted by the City of Pompano Beach to design the rehabilitation of lift station 110. This lift station serves an area of approximately 100 acres consisting of commercial and industrial properties. This lift station is currently a duplex lift station. Upgrades included replacing the existing pumps and control panel to handle increased flows. Chen Moore and Associates was responsible for the design, permitting and construction administration.

Lift Station #12 Rehab, Pompano Beach, FL. As part of its continuing engineering contract with the City of Pompano Beach, Chen Moore and Associates was contracted to design the rehabilitation of this can suction lift station, which is located at 1210 NE 27th Avenue. Lift Station 12, which

previously repumped into an adjacent manhole within the service area of another lift station, was connected to the new Harbor Drive force main which connects directly to the backbone force main for the City.

Flamingo Road Reclaimed Water Main Design Build, Miramar, FL. The City of Miramar retained Southern Underground Industries, Inc and Chen Moore and Associates (CMA) for a design build of the directional drill of a reclaimed water main. The project is located along Flamingo Road, bounded to the south by Somerset Boulevard and to the north by Miramar Boulevard. The project included the directional drill of approximately 7,700 linear feet of 8-inch reclaimed water main, including under the FDOT Turnpike and SFWMD Canal. The project included 15 connections to service both existing and future property owners and irrigation connections to the Broward County medians. CMA coordinated with the City and Contractor to design, permit and provide limited construction engineering, inspection and administration services for the directional drill of the reclaimed watermain.

Pineapple Park Drainage Improvements, W Palm Beach, FL. The City of West Palm Beach contracted Chen Moore and Associates to investigate the performance of the existing drainage system in the Pineapple Park neighborhood. The existing data was collected from the City GIS system, past permits, and historical as-builts. This data was field verified for accuracy. An existing conditions model was created and modified to simulate actual flooding events that occurred during the study period. Recommended alternatives were discussed with the City, and conceptual designs and cost estimates were created for the preferred alternatives. Modeling was performed to simulate the effectiveness of the proposed alternatives. The original project scope was expanded to include other areas in the City that experience flooding.

Coconut Creek Parkway, Margate, FL. Chen Moore and Associates provided professional services to the Margate CRA for the design, permitting and construction administration of the Coconut Parkway Median Improvement Project from SR 7 to Banks Road. Chen Moore and Associates coordinated with Broward County Traffic Engineering to determine the possibility of installing a median with turning lanes in the existing center suicide lane. Coordination was also required with Broward County Highway Construction Engineering Division, the Florida Department of Transportation, and Broward County Environmental Protection and Growth Management Division for surface water management permitting. The project was coordinated with simultaneous improvements by the City of Coconut Creek. The design incorporated 'Green' elements which were used to reduce the amount of water needed to irrigate. The wide median sections slope inward creating large swales and the brick pavers on the narrow median have inverted crowns which slope and divert runoff towards the grassy medians. This reduces the amount of runoff storage needed in the side street swales, reducing project costs.

Underground Utility Project, Riviera Beach, FL. Chen Moore and Associates is assisting the City of Riviera Beach Utility District (RBUD) with coordinating the relocation of underground utilities which are in conflict with proposed road widening projects for Blue Heron Boulevard/Dixie Highway, Dyer Road/Haverhill Boulevard, US 1, Martin Luther King Boulevard, and Blue Heron Boulevard/Congress Avenue. The pre-construction scope of services included coordination with RBUD and local regulatory agencies, coordinating utility location efforts, design of utility relocation and traffic management plans to FDOT standards and permitting. This effort also included the design and permitting of a water main directional drill under Florida East Coast Railway right of way. Through extensive coordination with FDOT and Palm Beach County, CMA was able to evaluate the proposed road and drainage improvements and determine alternatives to avoid utility conflicts. CMA is also responsible for the bidding assistance which includes conducting a pre-bid meeting, responding to bidder questions, evaluation of bids and recommendation for award. The construction administration services include conducting a pre-construction meeting and weekly progress meetings, shop drawing review, continued coordination with RBUD, Palm Beach County and FDOT, response to contractor RFIs, construction inspections, quantity tracking, tracking of test results, conducting substantial completion and final completion walk-throughs, and final certification of the project.

Education

Bachelor of Science, Civil
Engineering, University of
Florida, 1996

Registration

Professional Engineer,
Florida, 56962, 2001

Professional Affiliations

American Public Works
Association

American Society of Civil
Engineers

Broward County Gator Club

Florida Engineering Society

National Society of
Professional Engineers

University of Florida Alumni
Association

Certifications

SewerCAD Master Modeler
(Haestad Methods)

WaterCAD Master Modeler
(Haestad Methods)

ICPR Modeler (Streamline
Technologies)

Radiation Safety Officer
(Troxler)

Nuclear Density Gauge
Operator (Troxler)

Certified Floodplain
Manager

FDOT LAP Compliance

SWMM Stormwater Modeler

FDOT LAP Compliance

update June 2014

Advanced Work Zone Traffic
Control (FICE)

Mr. McClair is a senior civil engineer with experience in utility infrastructure design, regulatory permitting, geotechnical engineering, and computer aided flow modeling for stormwater collection, water distribution, and sanitary transmission systems. He was the project manager for the Fort Lauderdale-Hollywood International Airport Stormwater Master Plan Update and the Pompano Beach Stormwater Master Plan.

Project Experience

Broadview Park Bid Pack 3, Broward County, FL. The Broadview Park Neighborhood Improvement Project (BNIP) was the last of the Neighborhood Infrastructure Improvements projects to be carried out by Broward County in the unincorporated areas. Chen Moore and Associates was selected as the prime consultant for the Basis of Design Report (BODR) and subsequent bid packages. Originally the BNIP was separated into four bid packages; however, Chen Moore and Associates was able to value engineer the 3rd and 4th bid package areas to combine them into one which we called Bid Package 3. This Bid Package addressed the sanitary sewer and drainage improvements, as well as improvements to the community's sidewalks, roadway and landscape. These improvements consisted of 47,000 linear feet of gravity sewer, 6,200 linear feet of 8" force main, 20,100 linear feet of drainage pipe along with roadway restoration and new sidewalks for a total construction cost of approximately \$13.3 million. The gravity sewer system was designed using a GIS capacity analysis tool that calculated and summarized the flow rates for each parcel in the service area. GIS was utilized during the permitting phase to graphically show the flow for each pipe and during construction to track resident complaints, track the work that had been completed and estimate the Contractor's variance from the original schedule.

Pompano Beach Lift Station Improvement Program, Pompano Beach, FL.

Chen Moore and Associates is responsible for managing the planning and design of the City's Lift Station Rehabilitation Program. The previous lift station improvement projects for the City of Pompano Beach include the following:

- Lift Station 24
- Lift Station 46 Force Main Study
- Pompano Lift Station 18 & 18A
- Lift Station 21 - BODR
- Lift Station 12 Rehab
- LS 42 Capacity Analysis
- Lift Station 3, 4, 11 & 12 Rehab or Replacement
- Lift Station 21
- Lift Station 2 Rehabilitation
- LS 113 Capacity Analysis
- Sky Lofts LS 61N Capacity
- Lift Station 110 Rehabilitation
- Lift Station 11 Rehabilitation
- Lift Station 102 Improvements
- LS 21 Directional Drill Design

- Lift Station 44
- Lift Station 44 Study
- Lift Station 12 Force Main Abandonment
- Lift Station 12 Mechanical Filter Addition

Flamingo Road Reclaimed Water Main Design Build, Miramar, FL.

The City of Miramar retained Southern Underground Industries, Inc and Chen Moore and Associates (CMA) for a design build of the directional drill of a reclaimed water main. The project is located along Flamingo Road, bounded to the south by Somerset Boulevard and to the north by Miramar Boulevard. The project included the directional drill of approximately 7,700 linear feet of 8-inch reclaimed water main, including under the FDOT Turnpike and SFWMD Canal. The project included 15 connections to service both existing and future property owners and irrigation connections to the Broward County medians. CMA coordinated with the City and Contractor to design, permit and provide limited construction engineering, inspection and administration services for the directional drill of the reclaimed watermain.

Pineapple Park Drainage Improvements, W Palm Beach, FL. The City of West Palm Beach contracted Chen Moore and Associates to investigate the performance of the existing drainage system in the Pineapple Park neighborhood. The existing data was collected from the City GIS system, past permits, and historical as-builts. This data was field verified for accuracy. An existing conditions model was created and modified to simulate actual flooding events that occurred during the study period. Recommended alternatives were discussed with the City, and conceptual designs and cost estimates were created for the preferred alternatives. Modeling was performed to simulate the effectiveness of the proposed alternatives. The original project scope was expanded to include other areas in the City that experience flooding.

Coconut Creek Parkway, Margate, FL. Chen Moore and Associates provided professional services to the Margate CRA for the design, permitting and construction administration of the Coconut Parkway Median Improvement Project from SR 7 to Banks Road. Chen Moore and Associates coordinated with Broward County Traffic Engineering to determine the possibility of installing a median with turning lanes in the existing center suicide lane. Coordination was also required with Broward County Highway Construction Engineering Division, the Florida Department of Transportation, and Broward County Environmental Protection and Growth Management Division for surface water management permitting. The project was coordinated with simultaneous improvements by the City of Coconut Creek. The design incorporated 'Green' elements which were used to reduce the amount of water needed to irrigate. The wide median sections slope inward creating large swales and the brick pavers on the narrow median have inverted crowns which slope and divert runoff towards the grassy medians. This reduces the amount of runoff storage needed in the side street swales, reducing project costs.

Ridgeview, Cherry & W Indies Drainage Improvements, Town of Palm Beach, FL. Chen Moore and Associates was contracted by the Town of Palm Beach to perform the design and permitting services for the drainage improvements of three streets. The scope of work consists of field investigation to determine causes of flooding, design including landscape mitigation, roadway design and coordination with permit agencies.

Brent M. Whitfield, PE
Project Manager: (1)
Engineering, (4) Civil and (9)
Water Resources

Education

Master of Science, Civil
Engineering, University of
Florida, 2003
Bachelor of Science, Civil
Engineering, University of
Florida, 2001

Registration

Professional Engineer,
Florida, 65720, 2007

Professional Affiliations

American Society of Civil
Engineers

College Park Neighborhood

Leadership Palm Beach
County

Neighborhood Associations
Presidents Council

Mr. Whitfield is a licensed civil engineer in the State of Florida. His professional experience includes watershed, airport and municipal master planning studies as well preparing construction plans and specifications and providing construction administration services. In over 13 years of professional experience, Mr. Whitfield has worked for a variety of public sector clients at the City, County and State level. As a life-long resident of Palm Beach County and 13-year resident of the City of Lake Worth, Mr. Whitfield has maintained a commitment to serving the community both professionally and personally serving on the boards of professional societies and civic organizations. In an academic capacity, Mr. Whitfield's previous experience includes a research assistantship at the University of Florida where he was the primary author on a December 2006 paper in the Journal of Hydrometeorology.

Project Experience

Neighborhood Road Program: District 4, Lake Worth, FL. As Lead Project Engineer and Project Manager, Mr. Whitfield is providing engineering design for improvements to roadways, pedestrian facilities, drainage facilities and underground water utilities in District 4 of the City of Lake Worth. The project is funded by a voter approved bond and as such incorporates significant public outreach in addition to the typical engineering project components preparing construction contract documents and procuring permits. Once the design phase is completed, Mr. Whitfield will oversee CMA staff as they provide construction administration and owner's representation during the Contractor's progress.

Riviera Beach NIP's, Riviera Beach, FL. As a Senior Engineer, Mr. Whitfield provided support for exfiltration system design, stormwater collection infrastructure, and outfall facilities. Mr. Whitfield also provided QA/QC reviews of technical specifications of drainage components of the design. To facilitate procurement of an Environmental Resources Permit (ERP) from the SFWMD, Mr. Whitfield reviewed ICPR model calculations and results and refined permit application documents to reflect the findings of design storm simulations.

The following projects represent Mr. Whitfield's experience while with another firm.

Roadway Master Plan (2013 and 2016 Update), Lake Worth, FL. In 2013 and 2016 as Lead Project Engineer and Project Manager, Mr. Whitfield provided an evaluation and condition assessment of all City roadways. A roadway database was developed and provided to the City within the pavement management software - Paver 6.5. The final report described the condition of the existing roadway network and several scenarios for the future pavement condition based on multiple capital improvement and maintenance budget alternatives. These findings were used to develop the plan associated with the Neighborhood Road Bond that was passed by voters on the November 2016 ballot. As part of this effort, Mr. Whitfield

provided public outreach support at Neighborhood Meetings and in an online video on the City's website.

American Disabilities Act Transition Plan, Lake Worth, FL. As Project Manager, Mr. Whitfield helped develop an inventory of deficiencies in the City's sidewalks, curb ramps, and facilities and prepared a cost estimate for repair. The final American Disabilities Act Transition Plan recommended roughly \$3 million in facilities upgrades, sidewalk construction or repair and curb ramp replacement or repair. This work was recommended to be done in conjunction with the existing Public Works and Roadway projects as well as using facilities maintenance funding over a 10-year period.

Stormwater Treatment Area (STA) 1W Expansion Project Hydraulic Design. South Florida Water Management District (SFWMD). Mr. Whitfield was the Project Manager for the hydraulic design of the 4,500 acre STA 1W Expansion Area #1. Under this project, Mr. Whitfield supported the development of a 1D and 2D computer model of the existing and proposed facilities. Once the existing condition model was calibrated to represent the overland flow characteristics of the STA cells, a 1D and 2D model was developed of the proposed Expansion Area 1 configuration. This model was used to define the capacity necessary for the conveyance facilities (distribution and collection canals, gated inflow and outflow gate structures, and equalization culverts). The modeling allowed for a configuration that eliminated the need for costly pump stations. The final recommendations were used to define sizing of all conveyance facilities in the final \$90 million construction project.

Boca Raton Airport Pavement Rehabilitation Program. Boca Raton Airport Authority (BRAA). As Construction Manager, Mr. Whitfield rendered construction management and administration services and provided oversight of three (3) field inspectors and the QA laboratory during the milling and resurfacing of Runway 5-23, Taxiway 'P' and five (5) associated runway connectors, construction of a new Midfield Connector and relocation and improvements of the ATCT/airfield perimeter service road including security enhancements (i.e., fencing, access gates, card reader and cameras). His daily responsibilities included but were not limited to, disposition of bid alternates, processing of material submittals, shop drawings, change orders, resolution of contractors RFIs, and direction of QA. The project was an accelerated effort implemented as a Federal stimulus project under the American Recovery and Reinvestment Act (ARRA) and was completed by the Contractor ahead of schedule and under budget. Project commenced July 2009 and was completed May 2010.

Palm Beach International Airport (PBI) Taxiway F Extension. As Lead Project Engineer, Mr. Whitfield prepared the design plans and specifications for the drainage infrastructure needed to accommodate the expansion of Taxiway F along the west side of Runway 13/31 at PBI. Since the stormwater management infrastructure at PBI is anticipated to change significantly during the implementation of the Year 2013/2025 Airport Layout Plan, the proposed stormwater management system for Taxiway F is designed to provide the flood protection and water quality treatment required as a component of both the existing and future stormwater management system. Mr. Whitfield also prepared the plans and specifications for the demolition of an abandoned Airport Surveillance Radar (ASR) tower, obtained the necessary construction permits from the SFWMD, and reviewed all related contractor RFIs, shop drawings and as-built surveys.

Canal Embankment Restoration and Bikeway Improvement Program. City of Doral. As Lead Project Engineer, Mr. Whitfield developed 100 percent design drawings, specifications, and construction cost estimates for stabilizing the canal slopes and constructing a 10-foot wide asphalt bike path for 2 miles of existing canal right-of-way along NW 117th Avenue and along NW 58th Street. Mr. Whitfield also assisted the City in obtaining all required permits for construction, and provided shop-drawing reviews and responses to RFIs during construction. The project received a Project of the Year Award in 2012 from the American Public Works Association (APWA).

Design-Build Canal Bank Stabilization Project. City of Margate. As the Engineer of Record, Mr. Whitfield prepared the construction plans and specifications for 3,000 linear feet of canal bank stabilization using rock rip-rap and geotextile materials. Mr. Whitfield coordinated with the Contractor and Owner to insure cost and schedule were met while providing a stable and aesthetically pleasing finished product for the residents. Once the project was completed, Mr. Whitfield performed the final inspection to assure that construction was in compliance with design intent.

*Cristobal Betancourt, RLA
Project Manager: (3)
Landscaping Architectural
Design Services*

Education

Bachelor of Science,
Landscape Architecture,
Cornell University, 1995

Registration

Registered Landscape
Architect, Florida,
LA6666941, 2008
Registered Landscape
Architect, New Jersey,
AA000949, 2006
Registered Landscape
Architect, New York, 001959,
2005

Professional Affiliations

American Planning
Association

American Society of
Landscape Architects

Florida Recreation and Park
Association

Urban Land Institute

Certifications

Council of Landscape
Architectural Registration
Board

Mr. Betancourt is Chen Moore and Associates' Director of Landscape Architecture and Planning. He has experience providing planning and landscape architecture design solutions for public and private sector clients. Mr. Betancourt provides a full range of services starting with due diligence and master planning culminating in detailed site design. He is well versed in the use of low-impact development techniques applied to site planning.

Project Experience

West Palm Beach Fire Station 4, W Palm Beach, FL. As part of the CPZ team, CMA is providing civil engineering and landscape architecture services for West Palm Beach's Fire Station No. 4. The design involves the demolition of the existing fire station and complete re-design of the site with a two-story building. CMA's role involved coordination with the FEMA modeling updates; coordination with City, regulatory agencies and existing utilities; site civil design including parking lot, adjacent streets (partial design), drainage and utilities; landscape improvements; and hardscape design.

All Aboard FL - WPB, W Palm Beach, FL. This project involves the design, permitting, and construction administration services for the All Aboard Florida West Palm Beach Station. The project is located in Downtown West Palm Beach, between Evernia Street, Clematis Street, the Florida East Coast Railroad and Rosemary Avenue. This project is one Inline Station for the overall All Aboard Florida Rail Project, which proposes passenger rail service from Miami to Orlando, anticipated to open in 2016. The project consists of a 121 space temporary parking lot, 420 linear foot of new two-lane roadway with vehicle drop-off zones and sidewalk, a 860-ft long high level train platform, a three-level, 29,300 gsf station lobby, mezzanine and concourse areas. The total project area is approximately 5.60 acres.

Chen Moore and Associates is providing utility coordination services, site plan coordination, and the design of paving, grading, and drainage, water and sewer mains and services, and pavement markings and signage. The utility systems include exfiltration trenches, water main and sewer main upgrades and relocations. In addition CMA is permitting with multiple agencies, including Palm Beach County Health Department, the City of West Palm Beach Engineering Services Department, and South Florida Water Management District.

Riviera Beach Utility Conversion, Riviera Beach, FL. Chen Moore and Associates was asked by the Riviera Beach Community Redevelopment Agency (CRA) to coordinate the relocation of underground utilities on US1. The project will serve as a beautification for the corridor while also providing hurricane protection. The project involved extensive coordination with Florida Department of Transportation (FDOT) so the construction could occur within the FDOT roadway project. The scope of services included coordination with utility agencies (power and communications), coordination with FDOT, easement coordination and contract administration.

Lift Station 21, Pompano Beach, FL. Chen Moore and Associates was responsible for the design, permitting and construction administration for the relocation of the existing LS 21 (master pump station) serving a majority of the City of Pompano Beach barrier island. After completing the Basis of Design Report, Chen Moore and Associates proposed a variety of options to handle the approximately 4,700 GPM existing flow and conducted follow-up odor studies for specific design purposes. The design options included in-line booster and submersible pumps with variable frequency drives and liquid and vapor phase treatments. Additional concerns included odor control, dewatering contamination and electrical supply and generation. The final design a submersible lift station coupled with biological vapor phase odor control and strategic chemical liquid phase odor control. The project is on time and within the \$3.4M budget.

Reclaimed Water Irrigation Study, Broward County, FL. Chen Moore and Associates developed an irrigation study for the Broward County Parks and Recreation Department addressing the current and future needs of their three regional parks (TY Park, Tradewinds Park and West Lake Park). These three regional parks are all located nearly heavily populated urban centers and offer many varied recreational opportunities such as athletic fields, water parks, equestrian facilities, kayaking facilities, and a botanic garden. The purpose of the study was to assist the county in converting their existing irrigation sources to more sustainable water supplies. CMA studied their existing irrigation permits, their access to future sources of reclaim water, access to alternate bodies of water, and the condition of their current irrigation equipment from pumps to dripline. CMA was able to develop a 10 year Capital Improvements Plan to guide the county into implementing an irrigation central control system for their regional parks and ultimately all of their facilities that conserves water and allows the county to use its manpower more efficiently for the many maintenance needs of its nearly 50 parks and recreation facilities spread throughout the county.

Dixie Highway Improvements, Wilton Manors, FL. The City of Wilton Manors retained Chen Moore and Associates to design a roadway improvement along a portion of North Dixie Highway within the City limits. The project was partially funded by FDOT through their Local Agency Program (LAP). The project limits included the public right of way of North Dixie Highway from the bridge at the City limits on the south to the Five Points intersection with Wilton Drive/NE26 Street on the north. This section of North Dixie Highway includes approximately 2,200 linear feet of roadway within public right of way which varies between 50 feet and 60 feet wide. The intention of the project was to implement the following elements along North Dixie Highway within the project limits:

- Install new bicycle lanes along the corridor on both sides of roadway
- Install new curbing and gutter to accommodate new roadway section
- Install new pedestrian sidewalks to accommodate new roadway section
- Install pedestrian level lighting along new sidewalk as allowed by adjacent private property
- Install limited landscaping in available right of way areas along corridor
- Modify existing drainage facilities to accommodate new roadway section

In order to implement new bicycle lanes along Dixie Highway, the roadway cross section was modified along the majority of the project limits. The modified roadway cross section was wider than the existing roadway cross section, which required the removal of some existing curbing and sidewalks along with the relocation of some existing drainage facilities. The configuration of the driveway access to private properties, especially within the north portion of the project, limited the implementation of all project elements in these areas due to pull in park

Suzanne Dombrowski, PE
Senior Engineer

Education

Bachelor of Science, Civil
Engineering, University of
Florida, 2005
Master of Engineering, Civil
Engineering, University of
Florida, 2006

Registration

Professional Engineer,
Florida, 69918, 2009

Professional Affiliations

American Society of Civil
Engineers

Florida Engineering Society

Certifications

SWMM Stormwater Modeler
Stormwater Management
Inspector
Advanced Maintenance of
Traffic

Ms. Dombrowski is a senior engineer and West Palm Beach Branch Manager with Chen Moore and Associates. She holds a bachelor's degree in civil engineering and a master's degree in engineering with a specialization in civil engineering from the University of Florida. Ms. Dombrowski has managed a wide range of municipal utility, drainage and roadway projects from the planning stages throughout construction. She also designs the site civil improvements for both public and municipal facilities.

Project Experience

Broadview Park Bid Pack 3, Broward County, FL. The Broadview Park Neighborhood Improvement Project (BPNIP) was the last of the Neighborhood Infrastructure Improvements projects to be carried out by Broward County in the unincorporated areas. Chen Moore and Associates was selected as the prime consultant for the Basis of Design Report (BODR) and subsequent bid packages. Originally the BPNIP was separated into four bid packages; however, Chen Moore and Associates was able to value engineer the 3rd and 4th bid package areas to combine them into one which we called Bid Package 3. This Bid Package addressed the sanitary sewer and drainage improvements, as well as improvements to the community's sidewalks, roadway and landscape. These improvements consisted of 47,000 linear feet of gravity sewer, 6,200 linear feet of 8" force main, 20,100 linear feet of drainage pipe along with roadway restoration and new sidewalks for a total construction cost of approximately \$13.3 million. The gravity sewer system was designed using a GIS capacity analysis tool that calculated and summarized the flow rates for each parcel in the service area. GIS was utilized during the permitting phase to graphically show the flow for each pipe and during construction to track resident complaints, track the work that had been completed and estimate the Contractor's variance from the original schedule.

C14 WM Canal Crossing, Margate, FL. CMA, as a subconsultant to Carollo Engineers, was contracted by the City of Margate to perform the design and permitting of water main improvements. The improvements were identified as part of a separate task order in which the water model for the City was updated. The C-14 canal crossing was proposed in order to provide redundancy to the distribution system. The improvements include a directional drill under the SFWMD C-14 canal and over 2,000 LF of water main installation to provide redundancy in the service area. Permitting coordination is required with both SFWMD and the ACOE for special approvals.

Lift Station 3, 4, 11 & 12 Rehab or Replacement, Pompano Beach, FL. Chen Moore and Associates was contracted by the City of Pompano Beach to continue with the Harbor Drive Improvement Project, which included the rehabilitation of four lift stations and the construction of new force mains which connect each lift station into the sanitary pressure network for the City of Pompano Beach. Each of these lift stations previously repumped into an adjacent manhole located within the service area of another lift station.

The outgoing force main from each of these lift stations was rerouted to connect directly to the new force main located along Harbor Drive. Chen Moore and Associates was the prime consultant responsible for the design, permitting, and construction administration for the rehabilitation.

Underground Utility Project, Riviera Beach, FL. Chen Moore and Associates is assisting the City of Riviera Beach Utility District (RBUD) with coordinating the relocation of underground utilities which are in conflict with proposed road widening projects for Blue Heron Boulevard/Dixie Highway, Dyer Road/Haverhill Boulevard, US 1, Martin Luther King Boulevard, and Blue Heron Boulevard/Congress Avenue. The pre-construction scope of services included coordination with RBUD and local regulatory agencies, coordinating utility location efforts, design of utility relocation and traffic management plans to FDOT standards and permitting. This effort also included the design and permitting of a water main directional drill under Florida East Coast Railway right of way. Through extensive coordination with FDOT and Palm Beach County, CMA was able to evaluate the proposed road and drainage improvements and determine alternatives to avoid utility conflicts. CMA is also responsible for the bidding assistance which includes conducting a pre-bid meeting, responding to bidder questions, evaluation of bids and recommendation for award. The construction administration services include conducting a pre-construction meeting and weekly progress meetings, shop drawing review, continued coordination with RBUD, Palm Beach County and FDOT, response to contractor RFIs, construction inspections, quantity tracking, tracking of test results, conducting substantial completion and final completion walk-throughs, and final certification of the project.

Pineapple Park Drainage Improvements, W Palm Beach, FL. The City of West Palm Beach contracted Chen Moore and Associates to investigate the performance of the existing drainage system in the Pineapple Park neighborhood. The existing data was collected from the City GIS system, past permits, and historical as-builts. This data was field verified for accuracy. An existing conditions model was created and modified to simulate actual flooding events that occurred during the study period. Recommended alternatives were discussed with the City, and conceptual designs and cost estimates were created for the preferred alternatives. Modeling was performed to simulate the effectiveness of the proposed alternatives. The original project scope was expanded to include other areas in the City that experience flooding.

Riviera Beach NIP's, Riviera Beach, FL. The City of Riviera Beach has contracted CMA to perform the roadway, sidewalk, drainage, water and sewer improvements as part of a neighborhood improvement program. The scope of services includes field investigation including sidewalk condition assessment, utility coordination, design, permitting and public information. The design will be completed on an accelerated schedule to fulfill the City's bond requirements.

Ridgeview, Cherry & W Indies Drainage Improvements, Town of Palm Beach, FL. Chen Moore and Associates was contracted by the Town of Palm Beach to perform the design and permitting services for the drainage improvements of three streets. The scope of work consists of field investigation to determine causes of flooding, design including landscape mitigation, roadway design and coordination with permit agencies.

Paula Fonseca, PE
Senior Engineer

Education

Bachelor of Science, Civil
Engineering, Florida Atlantic
University, 2008

Registration

Professional Engineer,
Florida, 77711, 2014

Professional Affiliations

American Society of Civil
Engineers

Certifications

Stormwater Management
Inspector
ESRI Creating and Editing
Geodatabase Topology with
ArcGIS Desktop (for
ArcEditor and ArcInfo)
ESRI Working with Map
Algebra
InfoWater modeler
ESRI 3D Analysis of Surfaces
and Features Using ArcGIS
10

Ms. Fonseca is a civil engineering graduate of Florida Atlantic University with nearly six years of experience. She serves as senior engineer in Chen Moore and Associates' West Palm Beach office and serves as the primary hydraulic modeler for the firm. She assists with design work using AutoCAD, GIS and InfoWater 8.1v. Ms. Fonseca has worked on neighborhood improvement projects for Broward County, utility coordination projects for Riviera Beach Utility District, including water and sewer designs and permitting, Design of GIS Utility Atlases for the City of Pompano Beach and Solid Waste Authority, as well as Palm Beach County Water Master Plan and Glades Regional Water Master Plan through the use of water modeling software and GIS.

Project Experience

Underground Utility Project, Riviera Beach, FL. Chen Moore and Associates is assisting the City of Riviera Beach Utility District (RBUD) with coordinating the relocation of underground utilities which are in conflict with proposed road widening projects for Blue Heron Boulevard/Dixie Highway, Dyer Road/Haverhill Boulevard, US 1, Martin Luther King Boulevard, and Blue Heron Boulevard/Congress Avenue. The pre-construction scope of services included coordination with RBUD and local regulatory agencies, coordinating utility location efforts, design of utility relocation and traffic management plans to FDOT standards and permitting. This effort also included the design and permitting of a water main directional drill under Florida East Coast Railway right of way. Through extensive coordination with FDOT and Palm Beach County, CMA was able to evaluate the proposed road and drainage improvements and determine alternatives to avoid utility conflicts. CMA is also responsible for the bidding assistance which includes conducting a pre-bid meeting, responding to bidder questions, evaluation of bids and recommendation for award. The construction administration services include conducting a pre-construction meeting and weekly progress meetings, shop drawing review, continued coordination with RBUD, Palm Beach County and FDOT, response to contractor RFIs, construction inspections, quantity tracking, tracking of test results, conducting substantial completion and final completion walk-throughs, and final certification of the project.

Broadview Park Bid Pack 3, Broward County, FL. The Broadview Park Neighborhood Improvement Project (BNIP) was the last of the Neighborhood Infrastructure Improvements projects to be carried out by Broward County in the unincorporated areas. Chen Moore and Associates was selected as the prime consultant for the Basis of Design Report (BODR) and subsequent bid packages. Originally the BNIP was separated into four bid packages; however, Chen Moore and Associates was able to value engineer the 3rd and 4th bid package areas to combine them into one which we called Bid Package 3. This Bid Package addressed the sanitary sewer and drainage improvements, as well as improvements to the community's sidewalks, roadway and landscape. These improvements consisted of 47,000 linear feet of gravity sewer, 6,200 linear feet of 8" force main, 20,100 linear feet of drainage pipe along with roadway restoration and new

sidewalks for a total construction cost of approximately \$13.3 million. The gravity sewer system was designed using a GIS capacity analysis tool that calculated and summarized the flow rates for each parcel in the service area. GIS was utilized during the permitting phase to graphically show the flow for each pipe and during construction to track resident complaints, track the work that had been completed and estimate the Contractor's variance from the original schedule.

Lift Station 21, Pompano Beach, FL. Chen Moore and Associates was responsible for the design, permitting and construction administration for the relocation of the existing LS 21 (master pump station) serving a majority of the City of Pompano Beach barrier island. After completing the Basis of Design Report, Chen Moore and Associates proposed a variety of options to handle the approximately 4,700 GPM existing flow and conducted follow-up odor studies for specific design purposes. The design options included in-line booster and submersible pumps with variable frequency drives and liquid and vapor phase treatments. Additional concerns included odor control, dewatering contamination and electrical supply and generation. The final design a submersible lift station coupled with biological vapor phase odor control and strategic chemical liquid phase odor control. The project is on time and within the \$3.4M budget.

Palm Beach County WTP 8 Raw Water Bypass, Lake Worth, FL. Chen Moore and Associates was a subconsultant to Carollo Engineers for the design and permitting of a 12" raw water bypass at a Palm Beach County water treatment plant. Design duties included coordination with valve manufacturers for specialized product information, pipe sizing with hydraulic analysis, pressure analysis, detailed design of pipeline including above ground concrete supports and cost estimates. Permits were obtained through the Palm Beach County Health Department and were approved with the first submittal. Chen Moore and Associates will also be performing construction inspections.

Palm Beach County Water Utilities Department Water Master Plan Update, Lake Worth, FL. Chen Moore and Associates is a subconsultant to Carollo Engineers on the Palm Beach County Water Utilities Department (PBCWUD) Water Master Plan Update. The service area for PBCWUD covers approximately 429 square miles and serves a population of 438,090. The transmission and distribution system includes over 2,400 miles of pipeline and four water treatment plants which produce a combined annual average flow of about 56 million gallons per day. Chen Moore assisted with the data compilation and analysis, distribution system hydraulic and water quality modeling, report preparation, cost estimating for proposed alternatives, and development of the Capital Improvements Plan.

Ridgeview, Cherry & W Indies Drainage Improvements, Town of Palm Beach, FL. Chen Moore and Associates was contracted by the Town of Palm Beach to perform the design and permitting services for the drainage improvements of three streets. The scope of work consists of field investigation to determine causes of flooding, design including landscape mitigation, roadway design and coordination with permit agencies.

Andrew Savage, P.E.
Senior Engineer

Education

Bachelor of Science, Civil
Engineering, University of
Florida, 2012

Registration

Professional Engineer,
82408, 2016

Professional Affiliations

Young Professionals of the
Palm Beaches

Mr. Savage is an associate engineer at our West Palm Beach office. His previous firm experiences include land development for both private and public sector clients; design for sanitary sewer, water, fire, and storm pipe systems; due diligence and opinion of probable cost report preparation; and permitting, zoning, stormwater management, and drainage calculations. Mr. Savage is currently providing resident project representative services during construction for the Riviera Beach MLK C Utility Improvements, as well as assisting with the design of utility improvements in Riviera Beach and Margate.

Project Experience

Riviera Beach NIP's, Riviera Beach, FL. The City of Riviera Beach has contracted CMA to perform the roadway, sidewalk, drainage, water and sewer improvements as part of a neighborhood improvement program. The scope of services includes field investigation including sidewalk condition assessment, utility coordination, design, permitting and public information. The design will be completed on an accelerated schedule to fulfill the City's bond requirements.

Ridgeview, Cherry & W Indies Drainage Improvements, Town of Palm Beach, FL. Chen Moore and Associates was contracted by the Town of Palm Beach to perform the design and permitting services for the drainage improvements of three streets. The scope of work consists of field investigation to determine causes of flooding, design including landscape mitigation, roadway design and coordination with permit agencies.

MLK Phase C City, Riviera Beach, FL. Chen Moore and Associates was asked by the City of Riviera Beach Utility District (RBUD) to coordinate the relocation of underground utilities which are in conflict with the last phase of a proposed road widening project for Martin Luther King Jr. Boulevard (SR 710). The widening is being performed by the Florida Department of Transportation (FDOT). For this project, CMA is required to produce water and sewer relocation plans according to FDOT standards, utility work schedules, construction cost estimates and technical specifications that will accommodate the new road and drainage facilities. The project will be completed through a Joint Project Agreement (JPA) between FDOT and RBUD in which part of the work will be paid for by the FDOT. Also included in the scope of work are coordination with FDOT, RBUD, and the Palm Beach County Health Department; plan preparation with supporting documents; permitting; bidding assistance; and construction administration.

West Palm Beach Fire Station 4, W Palm Beach, FL. As part of the CPZ team, CMA is providing civil engineering and landscape architecture services for West Palm Beach's Fire Station No. 4. The design involves the demolition of the existing fire station and complete re-design of the site with a two-story building. CMA's role involved coordination with the FEMA modeling updates; coordination with City, regulatory agencies and existing utilities;

site civil design including parking lot, adjacent streets (partial design), drainage and utilities; landscape improvements; and hardscape design.

Ft Lauderdale Fire Station 8, Ft Lauderdale, FL. Chen Moore and Associates is providing landscape architectural, site planning and civil engineering services for the design, permitting and construction inspection services for a new municipal fire station located in an industrial area of the City of Fort Lauderdale. The Fire Station will be designed to Florida Green Building Coalition standards. CMA is a subconsultant to CPZ Architecture and our role entails site design including building placement, parking layout, site circulation, storm water treatment and storage as well as landscape and irrigation design.

All Aboard FL - WPB, W Palm Beach, FL. This project involves the design, permitting, and construction administration services for the All Aboard Florida West Palm Beach Station. The project is located in Downtown West Palm Beach, between Evernia Street, Clematis Street, the Florida East Coast Railroad and Rosemary Avenue. This project is one Inline Station for the overall All Aboard Florida Rail Project, which proposes passenger rail service from Miami to Orlando, anticipated to open in 2016. The project consists of a 121 space temporary parking lot, 420 linear foot of new two-lane roadway with vehicle drop-off zones and sidewalk, a 860-ft long high level train platform, a three-level, 29,300 gsf station lobby, mezzanine and concourse areas. The total project area is approximately 5.60 acres.

Chen Moore and Associates is providing utility coordination services, site plan coordination, and the design of paving, grading, and drainage, water and sewer mains and services, and pavement markings and signage. The utility systems include exfiltration trenches, water main and sewer main upgrades and relocations. In addition CMA is permitting with multiple agencies, including Palm Beach County Health Department, the City of West Palm Beach Engineering Services Department, and South Florida Water Management District.

AAF W Palm Beach-Transit Oriented Development, W Palm Beach, FL. CMA is providing civil engineering for the proposed transit oriented development (TOD) project near the forthcoming All Aboard Florida station in West Palm Beach, Florida. The program for the proposed TOD project is as follows:

- 265 Residential Units
- Parking Garage to include 325 spaces for residential parking and 500 parking spaces for All Aboard Florida station
12,000 to 15,000 square feet of retail at the base level
- The firm's scope of services includes utility coordination and schematic design; water and sewer capacity analysis; preliminary engineering including demolition, paving, grading, drainage and utility (water and sewer) plans; government permitting; bidding assistance; and construction administration services.

Riverview Road Water Main, Jupiter Island, FL. CMA is designing water main improvements on Riverview Road, on the Town of Jupiter Island for the South Martin Regional Utility (SMRU). The SMRU owns an existing 10" water main on Riverview Road and wishes to replace the existing water main in this area before the Jupiter Island Club rehabilitates the asphalt pavement. The water main improvements consist of approximately 2,800 LF of new water main, associated fire hydrants and valves, and abandonment of existing water main in place. The scope of services includes the planning and design services necessary to prepare all required construction documents for the proposed infrastructure improvements. Design services will also include pipe sizing calculations for the proposed improvements and review of fire hydrant coverages.

Michael Wood
Associate Engineer

Education

Bachelor of Science, Civil
Engineering, Florida Atlantic
University, 2014

Professional Affiliations

Florida Engineering Society

Certifications

Stormwater Management
Inspector
FEC Roadway Worker
Protection

Mr. Wood serves as an associate engineer in our West Palm Beach office. He is currently assisting with various projects for the City of Riviera Beach including the AutoCAD design and permitting for Silver Beach Road and Garden Road Utility Relocation Projects, as well as drainage design for the City of West Palm Beach. Mr. Wood is currently pursuing his Master's Degree from FAU and will be completing his thesis on Sea Level Rise. This research will be part of the Stormwater Master Plan that CMA is performing as part of a team for the City of West Palm Beach.

Project Experience

Riviera Beach NIP's, Riviera Beach, FL. The City of Riviera Beach has contracted CMA to perform the roadway, sidewalk, drainage, water and sewer improvements as part of a neighborhood improvement program. The scope of services includes field investigation including sidewalk condition assessment, utility coordination, design, permitting and public information. The design will be completed on an accelerated schedule to fulfill the City's bond requirements.

Ridgeview, Cherry & W Indies Drainage Improvements, Town of Palm Beach, FL. Chen Moore and Associates was contracted by the Town of Palm Beach to perform the design and permitting services for the drainage improvements of three streets. The scope of work consists of field investigation to determine causes of flooding, design including landscape mitigation, roadway design and coordination with permit agencies.

MLK Phase C City, Riviera Beach, FL. Chen Moore and Associates was asked by the City of Riviera Beach Utility District (RBUD) to coordinate the relocation of underground utilities which are in conflict with the last phase of a proposed road widening project for Martin Luther King Jr. Boulevard (SR 710). The widening is being performed by the Florida Department of Transportation (FDOT). For this project, CMA is required to produce water and sewer relocation plans according to FDOT standards, utility work schedules, construction cost estimates and technical specifications that will accommodate the new road and drainage facilities. The project will be completed through a Joint Project Agreement (JPA) between FDOT and RBUD in which part of the work will be paid for by the FDOT. Also included in the scope of work are coordination with FDOT, RBUD, and the Palm Beach County Health Department; plan preparation with supporting documents; permitting; bidding assistance; and construction administration.

West Palm Beach Fire Station 4, W Palm Beach, FL. As part of the CPZ team, CMA is providing civil engineering and landscape architecture services for West Palm Beach's Fire Station No. 4. The design involves the demolition of the existing fire station and complete re-design of the site with a two-story building. CMA's role involved coordination with the FEMA modeling updates; coordination with City, regulatory agencies and existing utilities; site civil design including parking lot, adjacent streets (partial design), drainage and utilities; landscape improvements; and hardscape design.

All Aboard FL - WPB, W Palm Beach, FL. This project involves the design, permitting, and construction administration services for the All Aboard Florida West Palm Beach Station. The project is located in Downtown West Palm Beach, between Evernia Street, Clematis Street, the Florida East Coast Railroad and Rosemary Avenue. This project is one Inline Station for the overall All Aboard Florida Rail Project, which proposes passenger rail service from Miami to Orlando, anticipated to open in 2016. The project consists of a 121 space temporary parking lot, 420 linear foot of new two-lane roadway with vehicle drop-off zones and sidewalk, a 860-ft long high level train platform, a three-level, 29,300 gsf station lobby, mezzanine and concourse areas. The total project area is approximately 5.60 acres.

Chen Moore and Associates is providing utility coordination services, site plan coordination, and the design of paving, grading, and drainage, water and sewer mains and services, and pavement markings and signage. The utility systems include exfiltration trenches, water main and sewer main upgrades and relocations. In addition CMA is permitting with multiple agencies, including Palm Beach County Health Department, the City of West Palm Beach Engineering Services Department, and South Florida Water Management District.

BC UAZ 316 Bid Pack 2, Broward County, FL. The Broward County UAZ 316 project is part 2 of the estimated \$8.8 million project servicing Broward County utility zones in the City of Dania Beach which includes replacing existing water and providing sanitary sewer just east of State Road 7, and south of Griffin Road. The main technical components include replacing 12-inch water mains on County Roads, replacing the residential water distribution system, providing sanitary sewer systems to eliminate existing septic tanks and rehabilitating or installing new lift stations. In order to obtain the necessary information, site visits concentrated on contacting residents to determine the location of existing tanks. A great deal of coordination was required to accommodate developer projects, tie into County projects and obtain easements for crossing private properties. GIS was used to keep track of all ongoing projects, determine the projected flow rates, track questions from residents of the area and track responses from utility companies regarding their existing facilities. This project is currently under construction.

Riviera Beach Utility Conversion, Riviera Beach, FL. Chen Moore and Associates was asked by the Riviera Beach Community Redevelopment Agency (CRA) to coordinate the relocation of underground utilities on US1. The project will serve as a beautification for the corridor while also providing hurricane protection. The project involved extensive coordination with Florida Department of Transportation (FDOT) so the construction could occur within the FDOT roadway project. The scope of services included coordination with utility agencies (power and communications), coordination with FDOT, easement coordination and contract administration.

RBUD Silver Beach Road, Riviera Beach, FL. Chen Moore and Associates was asked by the City of Riviera Beach Utility District to coordinate the relocation of underground utilities which are in conflict with the County's proposed road widening project for Silver Beach Road. The scope of work includes evaluation of County plans for utility conflicts, field investigation, design, permitting and construction administration for a new 16" water transmission main.

Riviera Beach Utility Conversion-Marina District, Riviera Beach, FL. Chen Moore and Associates is responsible for coordinating the utilities for the redevelopment of the Riviera Beach City Marina District. CMA is also responsible for assembling the service needs of the properties in the district, coordinating with FPL, Comcast, AT & T and Florida Public Utility to design services. The designs will be coordinated with the civil, roadway and infrastructure improvement project.

Teresa Chapman
Associate Engineer

Education

Bachelor of Science, Ocean
Engineering, Florida Atlantic
University, 2010

Professional Affiliations

American Public Works
Association

American Society of Civil
Engineers

Florida Engineering Society

International Propeller Club
of the United States

Certifications

Stormwater Management
Inspector

Teresa Chapman serves as an associate engineer in our West Palm Beach office. Ms. Mills currently supports the design for the Riviera Beach Utility District improvements and Town of Palm Beach improvements. In addition, Ms. Chapman performs utility coordination and construction administration services for the Riviera Beach CRA, including the US1 Undergrounding Project and the Marina District South Redevelopment. Ms. Chapman serves as the firm lead in GIS Online technology and utilizes this throughout the firm for planning and construction administration.

Project Experience

Riviera Beach NIP's, Riviera Beach, FL. The City of Riviera Beach has contracted CMA to perform the roadway, sidewalk, drainage, water and sewer improvements as part of a neighborhood improvement program. The scope of services includes field investigation including sidewalk condition assessment, utility coordination, design, permitting and public information. The design will be completed on an accelerated schedule to fulfill the City's bond requirements.

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West Palm Beach Fire Station 4, W Palm Beach, FL. As part of the CPZ team, CMA is providing civil engineering and landscape architecture services for West Palm Beach's Fire Station No. 4. The design involves the demolition of the existing fire station and complete re-design of the site with a two-story building. CMA's role involved coordination with the FEMA modeling updates; coordination with City, regulatory agencies and existing utilities; site civil design including parking lot, adjacent streets (partial design), drainage and utilities; landscape improvements; and hardscape design.

Riverview Road Water Main, Jupiter Island, FL. CMA is designing water main improvements on Riverview Road, on the Town of Jupiter Island for the South Martin Regional Utility (SMRU). The SMRU owns an existing 10" water main on Riverview Road and wishes to replace the existing water main in this area before the Jupiter Island Club rehabilitates the asphalt pavement. The water main improvements consist of approximately 2,800 LF of new water main, associated fire hydrants and valves, and abandonment of existing water main in place. The scope of services includes the planning and design services necessary to prepare all required construction documents for the proposed infrastructure improvements. Design services will also include pipe sizing calculations for the proposed improvements and review of fire hydrant coverages.

BC UAZ 316 Bid Pack 2, Broward County, FL. The Broward County UAZ 316 project is part 2 of the estimated \$8.8 million project servicing Broward County utility zones in the City of Dania Beach which includes replacing existing water and providing sanitary sewer just east of State Road 7, and south of Griffin Road. The main technical components include replacing 12-inch water mains on County Roads, replacing the residential water distribution system, providing sanitary sewer systems to eliminate existing septic tanks and rehabilitating or installing new lift stations. In order to obtain the necessary information, site visits concentrated on contacting residents to determine the location of existing tanks. A great deal of coordination was required to accommodate developer projects, tie into County projects and obtain easements for crossing private properties. GIS was used to keep track of all ongoing projects, determine the projected flow rates, track questions from residents of the area and track responses from utility companies regarding their existing facilities. This project is currently under construction.

Riviera Beach Utility Conversion, Riviera Beach, FL. Chen Moore and Associates was asked by the Riviera Beach Community Redevelopment Agency (CRA) to coordinate the relocation of underground utilities on US1. The project will serve as a beautification for the corridor while also providing hurricane protection. The project involved extensive coordination with Florida Department of Transportation (FDOT) so the construction could occur within the FDOT roadway project. The scope of services included coordination with utility agencies (power and communications), coordination with FDOT, easement coordination and contract administration.

RBUD Silver Beach Road, Riviera Beach, FL. Chen Moore and Associates was asked by the City of Riviera Beach Utility District to coordinate the relocation of underground utilities which are in conflict with the County's proposed road widening project for Silver Beach Road. The scope of work includes evaluation of County plans for utility conflicts, field investigation, design, permitting and construction administration for a new 16" water transmission main.

Riviera Beach Utility Conversion-Marina District, Riviera Beach, FL. Chen Moore and Associates is responsible for coordinating the utilities for the redevelopment of the Riviera Beach City Marina District. CMA is also responsible for assembling the service needs of the properties in the district, coordinating with FPL, Comcast, AT & T and Florida Public Utility to design services. The designs will be coordinated with the civil, roadway and infrastructure improvement project.

Education

Bachelor of Science,
Landscape Architecture,
University of Florida, 2002
Associate of Arts, Palm
Beach Community College,
1996

Registration

Registered Landscape
Architect, Florida,
LA6667129, 2012

Professional Affiliations

International Society of
Arboriculture

Mr. Harrison has over 14 years of landscape architecture experience with several municipalities throughout South Florida. He has provided design services for parks and recreation, university campuses, K-12 education, corporate office, commercial developments and healthcare facilities.

Project Experience

Doral Glades Park, Doral, FL. Chen Moore and Associates is providing site planning and landscape architecture for the design of a 24 Acre district park. The park serves a new residential community in the northwestern section of the city. The park carries a nature theme celebrating the flora and fauna of the Everglades. Divided into four themed areas, the park celebrates mammals, birds, insects, and reptiles & Amphibians of the Everglades. The site includes a 12 Acre lake with a kayak launch, recreational trail, and fishing pier extending into the lake. The parks program includes the following elements:

- Themed Playground (2-5 & 5-12 Age Groups)
- Tennis/Pickle Ball Courts
- Basketball Courts
- Sand Volleyball Courts
- Multi-Use Fields
- Fitness Trail
- Recreational Trail
- Picnic Pavilions
- Amphitheater
- Outdoor Plazas
- Kayak Rentals
- Community Center
- Restrooms
- Parking
- Sports Lighting

CMA is serving as a subconsultant to CPZ Architects and is providing design (landscape, hardscape, irrigation, and lighting), permitting, and construction administration services for the Project. The site is being designed to meet Green Globes criteria and includes extensive use of native plant materials and high efficiency irrigation.

West Palm Beach FI Parks & Recreation Master Plan, West Palm Beach , FL.

Chen Moore and Associates was a subconsultant to GreenPlay, LLC for the development of the City of West Palm Beach Parks and Recreation Master Plan. Our scope of work involved providing Facility Inventories and a Level of Service Assessment. CMA used cutting edge Geographic Information Systems (GIS) technology in the form of ESRI Collector Software to completely catalog the client's existing parks and recreation assets. Collector Software was operated from our GPS enabled phones and tablets and allowed us to collect coordinate correct information on all of the parks' assets. Our process involved creating a database of the City's parks assets and performing a preliminary analysis via aerial photography. Once the preliminary analysis was completed, CMA staff visited each parks facility and

ground truthed their findings. At the end of the process, the city received the database and was trained by CMA to maintain the database on an ongoing basis facilitating future updates to the master plan.

Hollywood Beach Golf Course Greenway, Hollywood, FL. CMA is providing professional landscape architecture services for the development of conceptual plans for the perimeter right-of-way surrounding the Hollywood Beach Golf Resort. CMA will perform a site analysis and field investigation; prepare concept plans and illustrations; prepare a cost estimate; and obtain public input with workshops.

Westside Park Baseball Field, Deerfield Beach, FL. Chen Moore and Associates provided design, permitting and construction engineering inspection services for the conversion of an existing football field and multi-purpose field into one Babe Ruth Baseball field, one Little League Baseball field, and one practice baseball field for the City of Deerfield Beach Parks and Recreation Department. The project is located in Westside Park, which is a 15 acre park located south of Hillsboro Boulevard, offering two lighted basketball courts, a football field with concession stand, two lighted tennis courts, a full service recreation center, full size gym, picnic areas and a newly renovated playground. CMA was responsible for providing survey, geotechnical, site planning, civil engineering, landscape architecture, MEP and structural engineering services. The scope of the project included the layout of the baseball fields with supporting services such as lighting, dugouts, scoreboards and irrigation. The project also included general improvements to the park around the baseball fields including better pedestrian access, ADA parking and sidewalk improvements, native landscaping, outdoor seating areas and stormwater improvements. The project is located in an underserved community of Deerfield Beach and provides access to improved parks and recreation services for the community. The project was funded through a Community Development Block Grant.

Downtown Coral Springs Streetscaping, Coral Springs, FL. Chen Moore and Associates was contracted by the City of Coral Springs to assist the Coral Springs CRA in the planning, design, permitting and construction support of various streetscaping improvements in Downtown Coral Springs. As the prime consultants, CMA provided civil engineering, landscape architecture, environmental permitting and construction engineering and inspection services for the project.

The project included implementing Complete Street concepts for NW 31st Court, NW 94th Avenue and NW 32nd Street. Additionally, CMA implemented the culverting of the canal along NW 31st court to provide space for a linear park, currently called the "Art Walk", which is an important pedestrian connection between the downtown pathways project and The Walk development. Finally, the project includes the implementation of turn lanes along Sample Road, median improvements in Sample Road and minor improvements to adjacent alleyways and pedestrian pathways.

Overall, the project improves the walkable nature of Downtown Coral Springs, while tying together various aesthetic elements in advance of the City Hall project sited adjacent to them projects.

Education

Bachelor of Arts, Bachelors
of Landscape Architecture,
Pennsylvania State
University, 2015

Ms. Moffat is a landscape designer with CMA's West Palm Beach Landscape Architecture team. Katie provides design and production support to the senior landscape staff for parks and recreation and transportation clients. She is a graduate of Penn State University and is working towards her professional licensure.

Project Experience

Doral Glades Park, Doral, FL. Chen Moore and Associates is providing site planning and landscape architecture for the design of a 24 Acre district park. The park serves a new residential community in the northwestern section of the city. The park carries a nature theme celebrating the flora and fauna of the Everglades. Divided into four themed areas, the park celebrates mammals, birds, insects, and reptiles & Amphibians of the Everglades. The site includes a 12 Acre lake with a kayak launch, recreational trail, and fishing pier extending into the lake. The parks program includes the following elements:

- Themed Playground (2-5 & 5-12 Age Groups)
- Tennis/Pickle Ball Courts
- Basketball Courts
- Sand Volleyball Courts
- Multi-Use Fields
- Fitness Trail
- Recreational Trail
- Picnic Pavilions
- Amphitheater
- Outdoor Plazas
- Kayak Rentals
- Community Center
- Restrooms
- Parking
- Sports Lighting

CMA is serving as a subconsultant to CPZ Architects and is providing design (landscape, hardscape, irrigation, and lighting), permitting, and construction administration services for the Project. The site is being designed to meet Green Globes criteria and includes extensive use of native plant materials and high efficiency irrigation.

Palm Beach County Wake Park Complex, W Palm Beach, FL. CMA is the prime consultant providing civil engineering and landscape architecture services for the proposed Wake Board Cable Complex at Okeeheelee Park in West Palm Beach, Florida.

The project includes on-site parking, pedestrian and bicycle circulation, modular buildings, and land side amenities to support the park complex. The site plan will include on grade parking, and a one or two story building requiring landscape buffers and treatment. The project will also require on site stormwater management and water and sewer service to the building.

D4-Landscape Architech Services TWO 1 C-9041, Fort Lauderdale, FL. CMA is providing Landscape Architecture Services to FDOT D4 as a subconsultant to Keith and Schnars. Potential tasks include the following: plan reviews; attending and reporting on design, coordination, and review meetings; miscellaneous landscape architectural consultation; miscellaneous engineering support consultation; miscellaneous landscape architectural planning and design; construction inspection and/or field assessments; rendering sections and plan boards; assisting staff in permitting; providing assistance to staff in project coordination, correspondence and project filing; and developing project scopes.

I95 Forest Hills to Summit Blvd TWO 4 C-9041, Palm Beach County, FL. Chen Moore and Associates provided Selective Clearing and Grubbing and Landscape Buffer Plans for a push button landscape project on I-95 for FDOT District 4. Critical components of the project included the removal of invasive exotic vegetation which had rendered an existing storm water facility useless. The buffer also follows the length of Dreher Park in the City of West Palm Beach requiring sensitivity to park users in developing the design.

SR 5 Overseas Hwy/Landscape Plans-TWO 2, Sugar Loaf Key, FL. Chen Moore and Associates is leading a multidisciplinary consultant team to deliver landscape plans for the SR5/Overseas Highway (MM15.46 to MM20.14) project on Sugarloaf Key for Florida Department of Transportation District 6 under our Districtwide Landscape Architecture Contract. The study segment along SR5/Overseas Highway begins at Lower Sugarloaf key south of the Harris Channel continuing north over Park Key and ending on the north end of Upper Sugarloaf Key. CMA is providing survey, environmental resource studies, traffic control plans, community awareness plans and workshops, renderings, and landscape plans for the project. The project will let for construction in FY2019.

**Amber Mathis, CA
Arborist**

Education

Bachelor of Science,
Landscape Architecture,
University of Connecticut, 0

Professional Affiliations

American Society of
Landscape Architects

American Society of
Landscape Architects

Certifications

Certified Arborist

Ms. Mathis is a certified arborist and recently joined CMA's Miami office as a landscape designer. Her previous experience includes serving as a Horticulturist for the City of Gainesville where she developed and implemented the City of Gainesville's tree planting programs; coordinated the installation and maintenance of young trees on City property; supervised assigned employees; inspected tree removal permits; assisted in shade tree inspections for new development; assisted with Code Enforcement inquiries regarding tree regulations; coordinated with the CRA and the Public Works Department on capital improvement projects to include design, development and inspection; and wrote, coordinated and oversaw professional service contracts.

Project Experience

Palm Beach County Wake Park Complex, W Palm Beach, FL. CMA, as a subconsultant to Y2 Wake Parks LLC, is providing civil engineering and landscape architecture services for the proposed Wake Board Cable Complex at Okeeheelee Park in West Palm Beach, Florida.

The project includes on-site parking, pedestrian and bicycle circulation, modular buildings, and land side amenities to support the park complex. The site plan will include on grade parking, and a one or two story building requiring landscape buffers and treatment. The project will also require on site stormwater management and water and sewer service to the building.

Corporate Park Needs Assessment, Coral Springs, FL. CMA is assisting the City of Coral Springs with the creation of a special district assessment for the Coral Springs Corporate Park for the purposes of improving infrastructure and beautification for current and future businesses. CMA is augmenting the stormwater needs assessment study we completed in 2014, adding a landscaping/beautification assessment.

Old Pompano Area Improvements, Pompano Beach, FL. CMA is providing planning and design services for infrastructure improvements within the public right-of-way areas within the project limits for the Old Pompano Area for the City of Pompano Beach. The proposed infrastructure improvements will be consistent with the Dixie East Transit Oriented Development Plan and the Downtown Pompano Transit Plan adopted by the City along with recently constructed infrastructure improvements within the Old Pompano Area. The proposed infrastructure improvements within Phase 2 in the Old Pompano Area will include roadway, streetscape, landscape, irrigation, lighting and utility infrastructure improvements. Each public roadway in the Phase 2 of the Old Pompano Area will receive improvements to the existing roadways, pedestrian sidewalks, stormwater drainage, pavement markings, signage, landscaping, irrigation and lighting along with various utility improvements to the water, sewer and reclaimed water systems.

Jefferson Street Dune Restoration, Hollywood, FL. CMA is providing landscape architecture services for the restoration of the dune system

accessed from Jefferson Street in Hollywood. CMA is responsible for performing a field inventory of existing vegetation on the dune; performing an erosion Control and Vegetation Disposition Plan; creating a proposed planting plan and details; and permitting through the Florida Department of Environmental Protection. CMA will also provide construction administration.

Aviation Blvd Roadway & Hardscape Improvements, Marathon, FL. Chen Moore and Associates will assist in the preparation of roadway and hardscape plans for over two miles of Aviation Boulevard including a segment of 107th Street which is adjacent to the regional airport in the City of Marathon. The project considers the shift of the existing roadway centerline to accommodate a shared 8' shared path that includes specialty lighting, hardscape elements including benches, pavers and landscaping at various areas along the road. Traffic calming elements including speed humps are being implemented. The project also includes geometric modifications to the roadway along with considerations for existing utilities and stormwater. In addition, the project will tie the existing path along Overseas Highway on the north and south side of the airport. The project is a FDOT LAP funded project and CMA's services include schematic, conceptual and final roadway design and government permitting as well as hardscape and landscape architecture design.

BC-Potable Water Storage Tanks - Ph II & III, Fort Lauderdale, Florida. Chen Moore and Associates (CMA) is a subconsultant to Carollo Engineers on a project for Broward County relating to remote potable water storage and pumping. For the 2A, 1B1, 1A2 and 3A sites, CMA is serving as the site development engineering, pipeline engineer and is splitting roles in engineering services during construction for new storage capacity of approximately 10 MG.

Chen Moore is the civil engineer, site Planner and landscape architect for the 1.5 million gallon potable water storage tank located in Broward County Facility 3A in Dania Beach. As part of the scope, Chen Moore is the lead planner, providing services for Site Plan and DRC approval for the site. In addition, Chen Moore is providing yard piping design for the 24", 20" and 14" supply lines that feed and interconnect the proposed tank and proposed High Service Pump Station. The scope also includes design of water and sewer services including a lift station to serve the new Pump Building. Chen Moore is also providing the design for the stormwater management for the site. Chen Moore is the civil engineer, site planner and landscape architect for the 1.5 million gallon potable water storage tank located in Broward County Facility 1B1 in Fort Lauderdale. As part of the scope, Chen Moore is the lead planner, providing services for Site Plan and DRC approval for the site. In addition, Chen Moore is providing yard piping design for the 24", 20" and 14" supply lines that feed and interconnect the proposed tank and proposed High Service Pump Station. The scope also includes design of water and sewer services including a lift station to serve the new Pump Building. Chen Moore is also providing the design for the stormwater management for the site.

West Chester Cultural Center, Miami-Dade County, FL. Chen Moore and Associates is providing landscape architectural design services for the Westchester Cultural Arts Center at Tropical Park in Miami-Dade County. The project includes the design of a 15,200-squarefoot building incorporating a studio theater, multi-purpose community education wing with arts-oriented rehearsal classrooms, and a large exterior plaza space for events. The Center's design focus on the cultural heritage of the surrounding community and aims to provide an open, accessible culture venue for the community's needs.

Wiles Road Phase 2, Coral Springs, FL. Chen Moore and Associates is providing landscape architecture services as a sub-consultant to Kimley Horn and Associates for the second phase of the widening of Wiles Road between Riverside Drive and Rothschild in Coral Springs. CMA's scope of work includes landscape and irrigation design. CMA is also preparing public outreach documents to coordinate landscape impacts and improvements with abutting residential neighborhoods, commercial properties and government permitting agencies.

Stefan Bortak, CID
Irrigation

Education

Bachelor of Science,
Interdisciplinary Studies,
University of Central Florida,
2012

Professional Affiliations

Irrigation Association

Certifications

EPA WaterSense Partner
Certified Irrigation Designer

Mr. Bortak is a certified irrigation designer - commercial for Chen Moore and Associates. He has 10 years of experience with all aspects of irrigation consulting, design, details and specifications. He prepares landscape, hardscape, and irrigation plans from concept to construction documents; irrigation distribution plans; water use permits; water use analysis; LEED documentation and calculations. Mr. Bortak also performs construction administration, shop drawing review, and inspections. He is responsible for producing plan and section renderings and graphics, and realistic 3D renderings and fly-through videos.

Project Experience

Reclaimed Water Irrigation Study, Broward County , FL. Chen Moore and Associates developed an irrigation study for the Broward County Parks and Recreation Department addressing the current and future needs of their three regional parks (TY Park, Tradewinds Park and West Lake Park). These three regional parks are all located nearly heavily populated urban centers and offer many varied recreational opportunities such as athletic fields, water parks, equestrian facilities, kayaking facilities, and a botanic garden. The purpose of the study was to assist the county in converting their existing irrigation sources to more sustainable water supplies. CMA studied their existing irrigation permits, their access to future sources of reclaim water, access to alternate bodies of water, and the condition of their current irrigation equipment from pumps to dripline. CMA was able to develop a 10 year Capital Improvements Plan to guide the county into implementing an irrigation central control system for their regional parks and ultimately all of their facilities that conserves water and allows the county to use its manpower more efficiently for the many maintenance needs of its nearly 50 parks and recreation facilities spread throughout the county.

Dixie Highway Improvements, Wilton Manors, FL. The City of Wilton Manors retained Chen Moore and Associates to design a roadway improvement along a portion of North Dixie Highway within the City limits. The project was partially funded by FDOT through their Local Agency Program (LAP). The project limits included the public right of way of North Dixie Highway from the bridge at the City limits on the south to the Five Points intersection with Wilton Drive/NE26 Street on the north. This section of North Dixie Highway includes approximately 2,200 linear feet of roadway within public right of way which varies between 50 feet and 60 feet wide. The intention of the project was to implement the following elements along North Dixie Highway within the project limits:

- Install new bicycle lanes along the corridor on both sides of roadway
- Install new curbing and gutter to accommodate new roadway section
- Install new pedestrian sidewalks to accommodate new roadway section

- Install pedestrian level lighting along new sidewalk as allowed by adjacent private property
- Install limited landscaping in available right of way areas along corridor
- Modify existing drainage facilities to accommodate new roadway section

In order to implement new bicycle lanes along Dixie Highway, the roadway cross section was modified along the majority of the project limits. The modified roadway cross section was wider than the existing roadway cross section, which required the removal of some existing curbing and sidewalks along with the relocation of some existing drainage facilities. The configuration of the driveway access to private properties, especially within the north portion of the project, limited the implementation of all project elements in these areas due to pull in park

Master Lift Station # 11, Wilton Manors, FL. Chen Moore and Associates prepared design plans and technical specifications for the proposed replacement of Master Lift Station 11 for the City of Wilton Manors. The project involves the installation of new wetwell with new submersible pumps along with associated valve vault, flow meter, control panel components, and a new emergency generator. Lift Station 11 is located on the north side of NE 26th Drive between NE 14th Avenue and NE 16th Avenue at 1501 NE 26th Drive. It serves as the master pump station for the City of Wilton Manors by receiving all sanitary flow from the City limits and pumping to the force main network of the City of Fort Lauderdale for disposal and treatment. Lift Station 11 currently has 75 HP pumps in a “canned” dry pit configuration which is housed in a concrete masonry block structure. Due to the age of the facility along with the inadequate pumping capacity, the City of Wilton Manors wishes to replace Lift Station 11 to ensure adequate pumping capacity in the future. Upon completion of the new lift station, the existing lift station facilities and structures will be demolished. The new Lift Station 11 facility will be a standard triplex submersible layout with external control panels within the City property surrounded by the existing concrete wall. The emergency generator will be housed within a weatherproof enclosure.

Coconut Creek Parkway, Margate, FL. Chen Moore and Associates provided professional services to the Margate CRA for the design, permitting and construction administration of the Coconut Parkway Median Improvement Project from SR 7 to Banks Road. Chen Moore and Associates coordinated with Broward County Traffic Engineering to determine the possibility of installing a median with turning lanes in the existing center suicide lane. Coordination was also required with Broward County Highway Construction Engineering Division, the Florida Department of Transportation, and Broward County Environmental Protection and Growth Management Division for surface water management permitting. The project was coordinated with simultaneous improvements by the City of Coconut Creek. The design incorporated 'Green' elements which were used to reduce the amount of water needed to irrigate. The wide median sections slope inward creating large swales and the brick pavers on the narrow median have inverted crowns which slope and divert runoff towards the grassy medians. This reduces the amount of runoff storage needed in the side street swales, reducing project costs.

Lift Station 21, Pompano Beach, FL. Chen Moore and Associates was responsible for the design, permitting and construction administration for the relocation of the existing LS 21 (master pump station) serving a majority of the City of Pompano Beach barrier island. After completing the Basis of Design Report, Chen Moore and Associates proposed a variety of options to handle the approximately 4,700 GPM existing flow and conducted follow-up odor studies for specific design purposes. The design options included in-line booster and submersible pumps with variable frequency drives and liquid and vapor phase treatments. Additional concerns included odor control, dewatering contamination and electrical supply and generation. The final design a submersible lift station coupled with biological vapor phase odor control and strategic chemical liquid phase odor control. The project is on time and within the \$3.4M budget.

Education

Associate of Science, Civil /
Architectural Engineering,
Hudson Valley Community
College, 1987

Registration

General Contractor's
License, Florida, 1506546,
2003

Certifications

Red Cross Instructor
NPDES Instructor for DEP
FDOT Training courses in:
Bridge
construction, Foundations,
Storm Drainage
MOT Workzone Traffic
Control: Intermediate Level
Water Distribution System
Operator Level II
CTQP Earthwork
Construction Inspection
Level 1
CTQP Earthwork
Construction Inspection
Level 2
Hidden Risks of Green
Buildings: Why Building
Failures are Likely and How
to Avoid Them
Workzone Traffic Control
Asphalt Roadway I and
Asphalt Roadway II
Nuclear Density Gauge
Certification (Troxler)
OSHA Instructor

Mr. Austin is the Director of Construction Services and project coordinator for Chen Moore and Associates (CMA). He has brought over 27 years of design and development experience in South Florida to CMA. He is currently involved in both vertical and horizontal projects, which have a total construction value of over \$167 million. These projects include the Broadview Park Neighborhood Improvement Projects and various civil engineering projects for municipalities such as the City of Coral Springs, Pompano Beach and Ft. Lauderdale. Other building projects include Fire Station 80 for Coral Springs, which will be one of the first "Green" LEED certified buildings in south Florida. He obtained his General Contractor's License in 2002, expanding the firm's construction management capabilities which now include project management for building construction projects and design builds for infrastructure systems. Mr. Austin is also a certified NPDES and OSHA Training instructor and teaches these courses throughout the State of Florida.

Project Experience

Lift Station 21, Pompano Beach, FL. Chen Moore and Associates was responsible for the design, permitting and construction administration for the relocation of the existing LS 21 (master pump station) serving a majority of the City of Pompano Beach barrier island. After completing the Basis of Design Report, Chen Moore and Associates proposed a variety of options to handle the approximately 4,700 GPM existing flow and conducted follow-up odor studies for specific design purposes. The design options included in-line booster and submersible pumps with variable frequency drives and liquid and vapor phase treatments. Additional concerns included odor control, dewatering contamination and electrical supply and generation. The final design a submersible lift station coupled with biological vapor phase odor control and strategic chemical liquid phase odor control. The project is on time and within the \$3.4M budget.

Coconut Creek Parkway, Margate, FL. Chen Moore and Associates provided professional services to the Margate CRA for the design, permitting and construction administration of the Coconut Parkway Median Improvement Project from SR 7 to Banks Road. Chen Moore and Associates coordinated with Broward County Traffic Engineering to determine the possibility of installing a median with turning lanes in the existing center suicide lane. Coordination was also required with Broward County Highway Construction Engineering Division, the Florida Department of Transportation, and Broward County Environmental Protection and Growth Management Division for surface water management permitting. The project was coordinated with simultaneous improvements by the City of Coconut Creek. The design incorporated 'Green' elements which were used to reduce the amount of water needed to irrigate. The wide median sections slope inward creating large swales and the brick pavers on the narrow median have inverted crowns which slope and divert runoff towards the grassy medians. This reduces the amount of runoff storage needed in the side street swales, reducing project costs.

Riviera Beach NIP's, Riviera Beach, FL. The City of Riviera Beach has contracted CMA to perform the roadway, sidewalk, drainage, water and sewer improvements as part of a neighborhood improvement program. The scope of services includes field investigation including sidewalk condition assessment, utility coordination, design, permitting and public information. The design will be completed on an accelerated schedule to fulfill the City's bond requirements.

Ridgeview, Cherry & W Indies Drainage Improvements, Town of Palm Beach, FL. Chen Moore and Associates was contracted by the Town of Palm Beach to perform the design and permitting services for the drainage improvements of three streets. The scope of work consists of field investigation to determine causes of flooding, design including landscape mitigation, roadway design and coordination with permit agencies.

Broadview Park Bid Pack 3, Broward County, FL. The Broadview Park Neighborhood Improvement Project (BPNIP) was the last of the Neighborhood Infrastructure Improvements projects to be carried out by Broward County in the unincorporated areas. Chen Moore and Associates was selected as the prime consultant for the Basis of Design Report (BODR) and subsequent bid packages. Originally the BPNIP was separated into four bid packages; however, Chen Moore and Associates was able to value engineer the 3rd and 4th bid package areas to combine them into one which we called Bid Package 3. This Bid Package addressed the sanitary sewer and drainage improvements, as well as improvements to the community's sidewalks, roadway and landscape. These improvements consisted of 47,000 linear feet of gravity sewer, 6,200 linear feet of 8" force main, 20,100 linear feet of drainage pipe along with roadway restoration and new sidewalks for a total construction cost of approximately \$13.3 million. The gravity sewer system was designed using a GIS capacity analysis tool that calculated and summarized the flow rates for each parcel in the service area. GIS was utilized during the permitting phase to graphically show the flow for each pipe and during construction to track resident complaints, track the work that had been completed and estimate the Contractor's variance from the original schedule.

Flamingo Road Reclaimed Water Main Design Build, Miramar, FL. The City of Miramar retained Southern Underground Industries, Inc and Chen Moore and Associates (CMA) for a design build of the directional drill of a reclaimed water main. The project is located along Flamingo Road, bounded to the south by Somerset Boulevard and to the north by Miramar Boulevard. The project included the directional drill of approximately 7,700 linear feet of 8-inch reclaimed water main, including under the FDOT Turnpike and SFWMD Canal. The project included 15 connections to service both existing and future property owners and irrigation connections to the Broward County medians. CMA coordinated with the City and Contractor to design, permit and provide limited construction engineering, inspection and administration services for the directional drill of the reclaimed watermain.

Lift Station 13 CEI, Miramar, FL. Chen Moore and Associates prepared the engineering design for the rehabilitation of Lift Station #13 on Oleander Drive with associated 8-inch force main installation. The purpose of the Lift Station #13 Rehabilitation Project was to directly connect the lift station to the City's backbone force main system, which would eliminate the repumping of effluent through Lift Station #6. The project included the installation of a new submersible pump station to replace the existing dry pit pump station, which was undersized. The installation of 8-inch force main (4,700 LF) west along Utopia Drive was required to connect to existing 18-inch force main along Miramar Parkway near the intersection with University Drive. Chen Moore and Associates was also responsible for construction administration services on behalf of the City of Miramar. This project was successfully completed in February 2012.

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FREDERICK G. KAUB, P.G., L.A.C.

President
Professional Geologist
Years with firm: 28

As a Florida Registered Professional Geologist, Mr. Kaub directs the services of GFA International including environmental, geotechnical, materials testing and inspection. Mr. Kaub has a 29-year track record of successfully managing continuing contracts for educational, municipal, governmental and private concerns in the areas of geotechnical, materials testing, inspection, and code compliance services throughout Southwest Florida and the State of Florida.

Mr. Kaub's work has involved solving foundation and earth structure problems, conducting subsurface and subaqueous soil investigations, conducting hydrogeological studies and investigations and other earth science problems through the application of sound theoretical concepts and a practical knowledge of earth materials and hydrogeological systems.

Relevant Geotechnical and Materials Testing Continuing Contract Experience

- **Village of Islands Continuing Engineering Contract**
- Lincoln Elementary School (Hollywood, FL)
- Dillard High School (Ft Lauderdale, FL)
- North Broward Academy High School Improvements (Coconut Creek, FL)
- County Isles Elementary School (Weston, FL)
- Driftwood Elementary School (Hollywood, FL)
- Blanche Ely High School (Pompano Beach, FL)
- Pemproke Pines Charter School (Pembroke Pines, FL)
- Cardinal Gibbons High School (Ft Lauderdale, FL)
- Stoneman Douglas High School (Parkland, FL)
- Cooper City High School (Cooper City, FL)
- Boca Raton High School (Boca Raton, FL)
- Margate Middle School (Margate, FL)
- Deerfield Beach Middle School (Deerfield Beach, FL)
- U.S. Southern Command Headquarters (Doral, FL)
- Ft Lauderdale Hollywood International Airport, Runway 27L (Ft Lauderdale, FL)
- Herbert Hoover Dike Rehabilitation (Pahokee, FL)
- Boca Chica Naval Air Station, Key West
- Key West Naval Air Station, Key West
- Long Key State Park, Layton, FL
- Jewfish Creek Bridge, Key Largo Florida
- Dove Creek Preserve, Key Largo Florida
- Turtle Hospital, Salt Water Wells
- Marathon, Florida
- Dynasty Marine, Salt Water Wells
- Founders Park, Plantation Key

Education

- B.S., Geology, Indiana University
(White Star Endowment
Scholarship)

Professional Registration

- Licensed Florida Professional Geologist #1344
- Licensed Florida Asbestos Consultant #AX 71
- Licensed Florida Well Water Contractor #11236

Professional Organizations & Affiliations

- Geotechnical Society of America
- Association of Engineering Geologists
- American Institute of Hydrology
- National Association of Environmental Professionals
- Florida Association of Environmental Professionals
- Florida Groundwater Association

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PORT ST. LUCIE

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PAUL H. DANFORTH, P.E., S.I.

Regional Vice President
Professional Engineer, Special Inspector
Years with firm: 15

Paul H. Danforth, P.E., Regional Vice President and a Florida registered Professional Engineer, has been providing construction materials testing services and engineering consulting for over 31 years.

His past experience has included performing the duties of Threshold Inspector, Geotechnical Engineer, Structural Design Engineer, Civil Engineer, Project Manager, Engineering Technician and Quality Control Technician. As a licensed Special Inspector, Mr. Danforth has provided qualification of numerous threshold buildings.

Mr. Danforth oversees the Port St. Lucie, Fort Myers, and Delray Beach operations of GFA. Operations include Building Inspection, Geotechnical Evaluations, Construction Materials Testing, Structural Design, Threshold Inspection, Forensic and Plan Review services for residential, commercial, public and industrial projects.

Education

- Bachelor of Science in Civil Engineering, North Carolina University, Raleigh, North Carolina, 1987

Professional Registration

- Florida Registered Professional Engineer (1991) #44653
- Florida Registered Special Inspector (1996) #1103

Professional Organizations & Affiliations

- American Society of Civil Engineers
- Former Vice-Chairman of the City of Greenacres Code Enforcement Board

Select Geotechnical & Materials Testing Experience

- One Plantation - Two 12 story Apartments, 4-story clubhouse, 3-story parking garage (Plantation, Florida)
- Health-Chem Diagnostics, St. Lucie Airport Industrial Park
- Village Parkway Extension & Crosstown Parkway, PD&E Study (St. Lucie, Florida)
- Herbert Hoover Dike, Task Orders 3, 5, 6, 7, 8, 9
- FPL St. Lucie Nuclear Plant Cask Cane (Hutchinson Island, Florida)
- FPL St. Lucie Nuclear Plant Laydown Slab (Hutchinson Island, FL)
- Milling/Resurfacing of 91st Street, SW 8th - SR 26 (Gainesville, Florida)
- Fire Stations No. 4 and 5 (Plantation, Florida)
- Fire Stations No. 33, 79 and 101 (Pembroke Pines, Florida)
- Martin County, Jupiter Island A-1-A Seawall Feasibility Study (Jupiter Island, Florida)
- Baker Road Resurfacing (Stuart, Florida)
- Town of Jupiter Lagoon Crossing Bridge (Jupiter, Florida)
- Town of Jupiter Community Center (Jupiter, Florida)
- Jupiter Inlet Village Seawall Replacement (Jupiter, Florida)
- Canal Lining for SR 713 from SR70 to CR607A (St. Lucie County, Florida)
- Turnpike Sign Mast-Arms - Mile Markers 51 to 119 (Florida)
- FPL Manatee Plant Expansion (Parrish, Florida)
- Loxahatchee River District Water Treatment Plant Expansion
- Oasis Singer Island - Two 20-story condominium towers

- Target - 190,000 sf retail center (Miramar, Florida)
- Walgreens Distribution Center, 550,000 sf Distribution Center (Orlando, Florida)
- Jupiter Inlet Jetty Extension (Jupiter, Florida)
- Harbor Island Development Preload (Hallandale, Florida)
- Replacement of Marina Seawall @ PGA Marina (Palm Beach Gardens, Florida)

Selected Materials Testing Experience

- Ft. Pierce Turnpike Interchange (Fort Pierce, Florida)
- Florida Atlantic University @ Harbor Branch, (Fort Pierce) Crosstown Parkway at Tradition (Port St. Lucie, Florida)
- Seasons at Tradition (Port St. Lucie, Florida)
- Wickham Road Widening (Melbourne, Florida)
- High School AAA (Palm City, Florida)
- SR 408 Widening, OCOEA (Orlando, Florida)
- SR 50 Widening, FDOT (Orlando, Florida)
- Rybovich Marina Pavement Failure (West Palm Beach, Florida)
- A1A Bike Lane Widening & Infrastructure Improvement (Jupiter, Florida)
- State Road A-1-A Widening and Re-surfacing between Indiantown Road and Marcinski (Jupiter, Florida)
- Abacoa Secondary Roadway Construction and Utility Installation (approx. 2.5 miles) (Jupiter, Florida)
- Bear's Club Roadway and Utility Installations (Jupiter, Florida)
- The Ritz Carlton Golf Club & Spa Roadway & Utility Installation (approx. 2.5 miles) (Jupiter, Florida)

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CARLOS MERCADO, P.E.

Professional Engineer, Senior Geotechnical Engineer, Branch Manager (Delray Beach)

Mr. Mercado has over 25 years of Professional Engineering experience. As GFA's Delray Beach Branch Manager, Carlos is responsible for overseeing his staff, as well as all the work that is performed from the Delray office. Travis' background as Geotechnical Engineer and Business owner provide for strong management skills and a valued approach to contract negotiation and execution.

Mr. Mercado's project management experience includes educational facilities, industrial facilities, port, aviation, commercial facilities, multi-story condominiums, and infrastructure projects. Mr. Mercado has also managed numerous geotechnical, pile driving, ground improvement, post-tensioning, and materials testing projects, as well as performed pre and post-construction structure conditions surveys.

Career Summary

In 1993, with only two years of experience in the geotechnical field, Mr. Mercado became Vice President of one of the largest and most influential geotechnical firms in Puerto Rico, Corporacion Geotec. In 1995, five years after obtaining Professional License and master's degree, Mr. Mercado created a geotechnical firm (Geo Explor, Inc.) in partnership with former employer. In 2001, he acquired control of the entire corporation. As of 2013, GeoExplor has gained practical soil experience in over 1,500 projects in Puerto Rico and Virgin Islands, which included projects ranging from highrise buildings, state highway projects, schools, parking garages, commercial buildings, residential development, water treatment plants, pharmaceutical projects, electrical grids, sanitary pipes and force-lines, and military projects, among others. In addition, Mr. Mercado has worked on projects involving the stability of dams, levees, earth slopes, and earth retention systems.

Select Geotechnical Experience

Fort Lauderdale Airport Runway Expansion (Fort Lauderdale, FL)
Aldi Store (Cooper City & North Miami, FL)
Scheck Hillel Community School (North Miami, FL)
Rick Case Kia Dealership (Sunrise, FL)
St. Andrews School Addition (Boca Raton, FL)
Gunther Volkswagen (Coconut Creek, FL)
Gunther Kia (Fort Lauderdale, FL)
Mizner Lakes Apartments (Boca Raton, FL)
El Dorado Furniture (Miami & Cutler Bay, FL)
Pier 66 Marina (Fort Lauderdale, FL)
Phil Smith Chevrolet (Pompano Beach, FL)
Miami-Dade Fire Rescue Headquarters (Miami-Dade County, FL)

Education

- M.S., , Geotechnical Engineering, University of Illinois at Urbana Champaign (1991)
- B.S. Civil Engineering
- Specialized in soil mechanics, foundation engineering, and retaining structures

Professional Registration

- Licensed Florida Professional Engineer #71707
- Professional Geotechnical Engineer- Puerto Rico #11621

Professional Organizations & Affiliations

- Member – America Society of Civil Engineers

Mr. Mercado is a Professional Geotechnical Engineer with over 25 years of experience in project management, design, and performance of:

- Drilling and sampling for geotechnical applications
- Installation and development of wells
- Groundwater monitoring
- Field and laboratory soil testing
- Installation of geotechnical instrumentation
- Pile driving and load test inspection
- Site feasibility studies
- Site reconnaissance
- Geotechnical computer programming
- Foundation design recommendations
- Earth retaining structures recommendations
- Grouting supervision
- Earthwork
- Hydrogeologic studies
- Sinkhole evaluations
- Slope stability analyses

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JEFFERSON L. TCHEOU, P.E.

Professional Engineer

Role: Professional Engineer

Mr. Tcheou is a Professional Engineer with 13 years of experience in the construction industry. His experience includes daily management of staff and projects, site development, vertical construction and roadways.

Professional Experience

- Management of on-site testing laboratories for USACE projects located in Ohio & Illinois with respect to project scope, invoicing, change orders, and financial projections.
- Oversight of staff and daily laboratory operations including sampling, testing, reporting and maintenance of equipment including their recruitment.
- Coordination with Contractor's Project Managers, Project Engineers, and field staff concerning work schedule and testing requirements.
- Setup of on-site laboratory including acquiring and calibration of equipment as well as USACE validation.
- Bolivar Dam Project – Construction of a partial-depth seepage barrier approximately 4,500 feet in length and a maximum depth of 144 feet through the upstream slope of the dam embankment terminating in the left abutment. The seepage barrier was a minimum of 36 inches wide through the entire length and depth and was continuous and homogeneous.
- Wood River Project - The project consists of the construction of a seepage barrier approximately 2,000 feet in length and a maximum depth of approximately 140 feet deep. The seepage barrier will be a minimum of 36 inches wide through the entire length and depth and will be continuous and homogeneous.

Education

Imperial College University London (2013)
Construction Management,
Masters of Science, with
Distinction
Professional Engineer Certification Board of
Canada (2010)
Unrestricted Surface Supplied
Diver
Florida Atlantic University (1999 –
2003)
Mechanical Engineering,
Bachelor of Science

Professional Registration

Licensed Florida Professional
Engineer # 71163

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JONATHAN BASSETT, E.I.

Staff Engineer

Role: Staff Engineer

Mr. Bassett is detail-driven professional with over 4 years of experience in geotechnical engineering, material testing, and threshold inspection services. Highly organized and proven project manager with demonstrated success in coordinating internal and external teams that exceed established expectations.

Education

- B.S., Construction Engineering Technology Florida A&M University, (2007)

Professional Registration & Certifications

- Certified Engineer Intern – Florida Board of Professional Engineers (2010) # 1100014059
- ACI Concrete Field Testing Technician Grade I – October 2013

Relevant Project Experience

Long Key State Park Campground Soil Investigation - Layton FL (July 2016)

- 7 STP Test Borings and Rock Coring for the development of State Park Improvements.

Miami Beach Erosion Control and Hurricane Protection Project (August 2016 – Present)

- Beach Renourishment for Miami Beach erosional hotspots – USACOE project
- Performed on-site and remote vibration monitoring of heavy equipment operation during sand hauling and placement activity

Herbert Hoover Dike Culvert 13 Cutoff Wall Verification Drilling (August 2016 – Present)

- Rehabilitation Structure Replacements at Herbert Hoover Dike – USACOE project
- Prepared cut off wall cores for preservation, storage, and testing
- Performed open-hole falling-head field permeability testing of boreholes using a vibrating-wire piezometer
- Performed continuous 360-degree optical televiewer (OPTV) of boreholes

Midtown VI, Miami-Dade County, Florida (November 2015)

- The project will consist of the design and construction of a new 30-story building approximately 300 feet high, associated paved parking/drive area(s), and stormwater management system. The area of study corresponds to the property bounded to the north by N.E. 32nd Street, to the west by Midtown Boulevard, to the east by East Coast Avenue, and extending to the south to approximately N.E. 31st Street in Miami, Florida. Services performed drilled/sampled 7 SPT borings that were each advanced to depths of 100 feet below grade. Soils classification and logging preliminary foundation design and settlement calculations

MXD Downtown Doral, Miami-Dade County, Florida (May 2015 to August 2015)

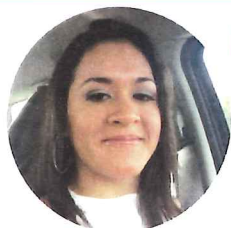
- The project will consist of the design and construction of nine separate structures including four 20-story office buildings, two 4-story parking garages with pool decks on the fifth floor, two one-story retail buildings, and an 8-story office/parking garage building. The area of study corresponds to the property bounded to the north by N.W. 54th Street, to the west by N.W. 84th Avenue, to the east by N.W. 87th Avenue, and to the south by N.W. 52nd Street in Doral, Florida. Services performed drilled/sampled 30 SPT borings, which consisted of 1,455 feet of linear drilling. Soils classification and Preliminary foundation design for auger cast soil improvement system

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ESTELA G. LEON AGUILAR, E.I.

Staff Engineer

Role: Staff Engineer

Ms. Leon Aguilar is a Project Engineer with 6 years of experience in the geotechnical engineering field. Her experience includes the project management of geotechnical explorations, cutoff wall verification hole borings and testing, operation of a borehole optical televiewer, as well as vibration monitoring.

Professional Experience

- Defined scope for geotechnical investigations
- Performed settlement calculations and pile capacity calculations based on the results of test borings
- Prepared Geotechnical reports
- Managed and supervised multiple projects
- Managed pile driving, vibration monitoring and vibro-placement projects
- Herbert Hoover Dike Rehabilitation Structure Replacements, Palm Beach, Martin, Hendry County, FL:
- Performed open hole field permeability testing in cutoff wall verification boreholes.
- Operated the optical televiewer to verify cutoff wall verification borehole condition.
- Preservation and storing of cutoff wall verification cores for subsequent laboratory testing.

Education

- University of Florida, Gainesville, FL
 - Master of Science in Civil/Geotechnical Engineering
December 2013
- University of Florida, Gainesville, FL
 - Bachelor of Science in Civil Engineering, Cum Laude
December 2012
- Broward College, Davie, FL
 - Associates of Arts in Civil Engineering, Honors May 2010

Certifications

- Licensed Florida Engineer
intern # 1100017157

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BRIAN MCCORD

Lead Driller

Mr. McCord has over 28 years of experience in the geotechnical and environmental well drilling services and geotechnical exploration and mineral research. His experience includes drilling water well, rural, and community wells with depths up to 1,200 feet, monitoring wells for oils and gases which exceed depths of 10,000 feet and wireline rock coring to depths of 350 feet.

He is experienced with hollow stem augers up to 10.25" in diameter; continuous split spoon sampling; and hammer type spoons of every size. He has drilled on several different types of rigs, CME Big-75 Tandem diesel auto-hammer, CME-75 gas w/ cathead rope hammer, Top-drive Hydraulic Rotary Buggy rigs; CME-45 Track-Drilling rig; Diedrich; Garder-Denver 1200 and 1500; Simco; and off shore Vibracore equipment.

Relevant Geotechnical Experience

- Boca Chica Naval Air Station, Key West
- Key West Naval Air Station, Key West
- Long Key State Park, Layton, FL
- Dove Creek Preserve, Key Largo Florida
- Turtle Hospital, Salt Water Wells
- Marathon, Florida
- Dynasty Marine, Salt Water Wells
- Founders Park, Plantation Key
- Village of Islands Continuing Engineering Contract
- Jew Fish Creek Bridge - Wire Line Coring 100'
- Betchtel Cell Tower, Islamorada
- Herbert Hoover Dike, Task Orders 3, 5, 6, 7, 8, 9 (Belle Glade, FL)
- Mercury Flux Study - 230' Wire Line Cores for SFWMD
- Stokes Cattle Ranch - Aggregate Mine Study - Twenty 200 foot NX cores
- Riverside Hotel - Ten 100 foot SPT's (Broward County, Florida)
- Numerous Shallow SPT's for residential and commercial projects
- OOCEA SR 408 253B Widening (Orlando, Florida)
- Milling/Resurfacing of 91st Street, SW 8th - SR 26 (Gainesville, Florida)
- Gladiolus Drive Widening, Pine Ridge Road - Winkler (Fort Myers, Florida)
- SR 826, FDOT Project E-6E69, Sunset - Bird Road (Miami, Florida)
- SR 834 - Sample Road (Pompano Beach, Florida)
- Village Parkway Extension & Crosstown Parkway (Port St. Lucie, Florida)
- SR 78, FDOT Project T1286 (Glades County, Florida)
- Taxiway B Realignment (Naples, Florida)
- A1A Widening (Jupiter, Florida)
- FPL Manatee Plant Expansion (Parrish, Florida)
- Jupiter Inlet Jetty Extension (Jupiter, Florida)
- Harbor Island Development Preload (Hallandale, Florida)

James Barton, P.E., LEED AP

Education

Bachelor of Science, Civil Engineering, Queens University (Canada), 1990

Registration

Professional Engineer, Florida, 59257, 2003

Professional Affiliations

American Society of Civil Engineers

American Water Works Association

Florida Engineering Society

Urban and Regional Information Systems Association (URISA)

Certifications

ESRI Authorized Trainer

LEED Accredited Professional

Mr. Barton has over 20 years of engineering experience both internationally and domestically. The main focus of his international experience includes engineering design and project management of water and sanitation programs, including water resources, infrastructure rehabilitation and GIS implementation. His domestic experience includes environmental engineering, utilities and road construction. Mr. Barton routinely integrates GIS technology with engineering. He is working with ESRI developing software tools to assist in detail design and is experienced with implementing GIS/GPS for construction field inspection. He is currently studying towards a Certificate in Integrated Watershed Management and a Certificate in Visual Planning (GIS Technology).

He has been using GIS in engineering since 1999 and became an ESRI Authorized Trainer in 2003. Since then, he has provided training to over 75 students in various organizations and disciplines. His specialty is training for people specializing in utilities, public works and engineering, but he has also trained fire, police and city administration. He started using GIS in his day-to-day activities for simple outputs such as construction maps for contractors and public information campaigns. This led to using GIS for permit maps, analysis and project planning for proposals and finally design projects. In 2004, he started working with ESRI developing GIS tools that could be used for detailed design and transferring data out of and into the CAD environment. These tools have been presented at numerous conferences and user group meetings.

One of the latest developments is linking design tools with existing LIDAR data. This allows for conceptual design with real elevations without the survey, taking survey out of the critical path of project planning.

Training

- Chen and Associates, 2004, 2005
- Islamorada, Village of Islands, 2005
- City of Sunrise, 2006
- City of Marathon, 2006, 2009
- Monroe County Property Appraisers Office, 2006
- Wantman Group, 2007
- Florida Keys Aqueduct Authority, 2007
- City of Dania Beach, 2007
- City of Miami Gardens, 2009
- Coral Springs Utilities 2011

Mr. Barton also founded the Florida Utility User Group, which works on integrating GIS technology into engineering. The group currently has over 300 members.

ANDRES GARCIA, ULM
Utility Location Manager, ULM
InfraMap Corp - West Palm Beach, Florida



EDUCATION

Palm Beach State College, Associates in Science

TRAINING

InfraMap Training Program for Utility Locating & Designating Certification/Instructor
ATSSA, Traffic Control Supervisor Certification, August, 2000
Confined Space Entry Training Program Certification (OSHA 1910.146)
FUCU Utility Coordination Discussion Seminar Regular Attendee
CSX Roadway Worker Protection Annual Certification



KEY QUALIFICATIONS - BIO

Mr. Garcia has performed utility locating assignments for InfraMap Corp in Florida, Virginia, Maryland, Georgia and Alabama since 1998. He currently is a Senior Utility Location Manager and is proficient with utility designating, performing test holes and utility CADD. Mr. Garcia's responsibilities include utility designation and test hole project management, attending utility scoping meetings, permitting, records research, traffic control supervision, field data collection and quality control. His duties also include vacuum excavation equipment maintenance as well as preserving FDOT Standards Compliance in each submittal.

Mr. Garcia has excelled as a survey party chief with experience in Total Station survey and data collector knowledge (electronic field book, TDS functions, and three wire bench runs and GPS/RTK on several designating and utility locating projects). His assistance in the survey EFB data collection compliance further adds to InfraMap's knowledge and experience.

PROJECT EXPERIENCE

Role for the following projects: Senior Utility Location Manager - obtains utility records and ROW permits, QA/QC, supervisory of field crews, meets with utility company locators and MOT set up.

North County Neighborhood Improvement Projects (Multiple Phases) 2009 - 2015: Broward County Urban Redevelopment water main improvement projects entailed multiple phases of over five hundred test hole locations most recently throughout the City of Oakland Park, BP-10. Other project phases included Broward County WWS UAZ Stirling Road water main improvement Task work orders providing subsurface utility locating and mapping. All information retrieved is noted on each individual test hole report of our submittal. Inframap has performed careful utility conflict investigations and completed projects well within anticipated deadlines as the sub consultant to Craven Thompson & Associates, Inc. 3563 NW 53 Street, Fort Lauderdale, FL 33309 Reference: Mr. Pat Gibney & Mr. Johnny Gil (954) 739-6400

Loxahatchee River and Environmental Control District, Palm Beach County, July 2014 – Feb 2015: Inframap has performed Utility Locating and Mapping Services in the Loxahatchee River District. Projects include the investigating of infrastructure conflicts for the design and planned improvements at Environmental Control River Oaks and Little Oaks Sewer System. Crews coordinated with survey parties from Compass Point. Other project phases included the Set-N-Sun Neighborhood Sewer System which Inframap also performed careful utility conflict investigations and completed projects well within the required deadlines, submitted the client requested submittals and scheduled with District personnel as needed. Sub consultant to Baxter Woodman, Inc. Reference: Mathews Consulting, Inc, Mr. Dave Mathews, P.E. (561) 655-6175

Jensen Beach Blvd Indian River Plant, Martin County, 2010: InfraMap's utility depiction at the areas specified for proposed structures by Indian River County representatives entailed close to fifty test hole locations. The project was completed early and deliverables submitted in multiple requested formats. Close coordination with municipalities by our Project Manager assisted the rapid turnaround. Inframap was subconsultants to Kimley Horn & Associates. Reference: Mr. Kevin Schanen (561) 840-0246

JAY SCAGLIOLA, P.L.S.
Director of Florida Operations
InfraMap Corp - West Palm Beach, Florida



EDUCATION

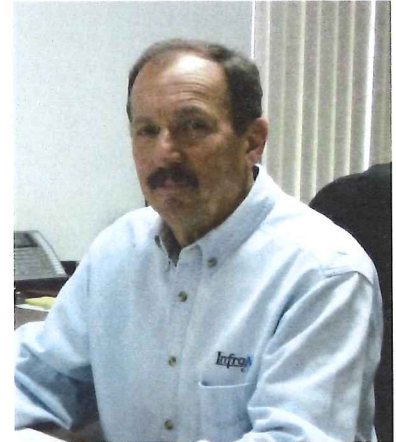
Palm Beach Community College, Surveying and Mapping 1989

PROFESSIONAL REGISTRATION

Professional Land Surveyor, 1992 State of Florida License No. 5066

TRAINING

Traffic Control Certification since October, 2001
Confined Space Entry Training Program Certification (OSHA 1910.146)
FUCU Utility Coordination Discussion Seminar Regular Attendee
CSX Roadway Worker Protection Annual Certification, 2012



KEY QUALIFICATIONS

As Director of the Florida operations at InfraMap Corp, Jay Scagliola's extensive experience has maintained the integrity of our survey department companywide. Mr. Scagliola has been surveying in Florida since 1971 and is well versed in all phases of land surveying including drafting, mapping performance standards, data collection and calculation. He also has experience managing both utility designating and utility test hole projects.

Mr. Scagliola joined InfraMap Corp in 1996. He is the key person in coordinating our utility locating. His familiarity with subsurface utility investigations, along with survey knowledge, is essential to InfraMap. He directs all contractual, managerial and supervisory aspects. His responsibilities include: designating and utility locating project coordination in Florida, client communication, contracts, scope detail, quality assurance/quality control, and final project review of survey processing and computer drafting. Mr. Scagliola's widespread network of contacts and utility locating knowledge is well respected at the Florida Department of Transportation, as well as with private clients and municipalities.

PROJECT EXPERIENCE

Role for the following projects: Project Manager and Project Surveyor - scope meeting, review records, QA/QC and final project review of survey and CADD

Town of Palm Beach Townwide Undergrounding, October 2016: Utility locating services to depict existing conflicts and proposed structure conflicts starting at the north-end of Palm Beach Island. A total of over two hundred test hole locations to be completed and referenced survey data on recorded on our submittal. This Design Engineering project is spearheaded by Anjuli Panse, P.E. of Kimley-Horn. Reference: Ms. Anjuli Panse (561)

Belle Glade Water Service Replacement Zones 1, 2 West, 2 East, and 3 & 4 Palm Beach County, FL 2015: Inframap performed nearly one hundred and fifty test hole locations beginning in October of 2013 until mid-September 2015. All information retrieved is noted on each individual test hole reports of our submittal. Our crews maintained close coordination with Belle Glade Public Works Department, Director /City Engineer Marcos Montes de Oca for this Neighborhood Service Improvement Project. InfraMap was sub consultant to Keshavarz & Associates 711 N Dixie Highway #201, West Palm Beach, FL 33401 Reference: Mr. Amir Keshavarz (561) 689-8600.

Miami Beach Convention Center, Miami Dade County – September and October 2015: Inframap performed the infrastructure targeting locating the features requested within the Parking Lots, Holocaust Memorial, Botanical Gardens, Jackie Gleason Theater, City Offices and 17th Street. The mapping process entailed the use of ground penetrating radar and other methods to identify the utility line locations and paint marks are then surveyed in by field crews. City of Miami Beach Public Works Department contact and close coordination with Brian Bellino. Inframap sub consultant to Biscayne Engineering. Reference: Mike Bartholomew (305) 324-7671



Sharon J. Merchant, President



Public Involvement Manager

Professional Credentials

Bachelor of Science
International Affairs
Florida State University 1986

Former Member, Florida House of
Representatives, 4 terms

Basis for Team Selection

Statewide relationships with City,
County, State and Federal elected
Officials and Key Decision Makers.

Focused on Customer satisfaction
and Positive outcomes. Consensus
Builder and Team Player.

Experienced Leader:

Public Involvement: 9 years
Government Relations: 27 years
Business Development: 14 years

Experience:

Sharon Merchant brings 29 years of public and private leadership experience as a Member of the Florida House of Representatives, Vice President of a growing construction equipment rental business, and President of The Merchant Strategy, Inc. (TMS) providing clients public involvement and governmental and community relations.

Public Involvement Experience:

Calvin, Giordano and Associates, PD&E Study, Midway Road, St. Lucie County: Stakeholder meetings were facilitated to alleviate resident fears that the character of the area would be negatively impacted. Press releases were written, meetings recorded, and minutes provided. She interacted with residents, engineers, and County Commissioners.

City of West Palm Beach, Public Involvement Consultant: Sharon solved strained internal and external relationships. Weekly meetings strengthened communications between the City and FDOT, Palm Beach County, and the community. She delivered public involvement processes comprising to ensure awareness of all new construction.

CDM: Sharon guided stakeholders through sticky issues preparing the public to accept the siting decision for a new landfill in Western Palm Beach County. She developed collateral materials and a strategy to meet with all impacted government leaders in proximity to the sites, re distance to residents, expenses, and the pros and cons of each.

Stanley Consultants, FDOT District 6: Sharon helped create a plan designed to engage the public in discussions re the future of transportation in Florida. TMS met the FDOT goal, required by Florida Statute 339.155, to make the public aware of the Horizon 2060 Florida Transportation Plan.

B&W / BE&K / CDM Team: Sharon assisted the team in securing the largest contract ever granted by Palm Beach County – a \$500,000,000 net present value - to build a waste to energy facility. She worked with environmentalists, disgruntled union workers, and all stakeholders, keeping them informed, defining the needs and goals of all parties.

Stanley Consultants, FDOT District 4: Sharon created a Public Involvement Plan to inform residents and business owners in north Martin and south St. Lucie Counties about additional lane alternatives under consideration for I-95. She identified stakeholders, built data bases, and kept local elected officials informed.

Mathews Consulting: Sharon provided quality control as her team delivered public involvement for the city of Boynton Beach Utilities projects. TMS provided graphic design, brochures, arranged public meetings, notified stakeholders and social media.

Parsons, Florida Turnpike Enterprise: Sharon is providing QAQC for public involvement service for the widening of SR 91, the CAP plan, graphics, PowerPoint, and newsletters.

Wantman Group, Inc.: Sharon is providing the QAQC for the Palm Beach County Off-System Bridge Replacement for database creation, modification letters written and distributed, renderings, PowerPoints, set up and staff meetings.

Erdman Anthony, Riviera Beach: Sharon provided QAQC for preparation of the database, newsletters, and graphics for typical sections.

CES: Sharon is providing QAQC for public involvement services for the Town of Palm Beach Accelerated Capital Improvements project.

VIA: Sharon will provide QAQC as TMS builds a CAP plan to engage and inform the public throughout the duration of the CR-707 project in the Town of Jupiter Island.



Laura South, Vice President



Public Involvement Deputy Manager and Marketing Manager

Professional Credentials

Marketing Vice President responsible for publicity, staff management, advertising, press relations and social media.

Basis for Team Selection

Media Relations, Social Media, Organizational and Management Experience, Graphic Art, Public Involvement, Website Design and Maintenance Experience.

Community Service

South Florida Blood Bank, Past Chair, Palm Beach County Attractions Association, Board of Directors, Drag Racing Association of Women (DRAW) founding member, Palm Beach County Sports Commission, Board of Directors, Palm Beach County Business Development Board, Board of Directors, President John Paul Jr. Huntington's Disease Foundation, Vice President Dixie Visions Charity.

Experience:

Ms. South's thirty-four years in marketing and event production, has yielded a diverse career of promotional, marketing, publicity and media experiences. She has worked in the racing, apparel, hospitality, media and convention industries, designing and executing promotions, event scheduling and development, social media, publicity and advertising, across the U.S. Her social media skills and publicity experience provide immediate response for time sensitive projects. Laura produces the annual "All About You" conference for women, the 2015 WPB College Game Day, and Blackbeard Pirate Fest events. These experiences lend themselves to all aspects of public involvement, including social media, website, press releases and creative endeavors.

Public Involvement Experience:

Stanley Consultants, FDOT District 6: TMS created and implemented a plan designed to engage and involved the public in discussions re the future of transportation in Florida. We met the FDOT goal, as required by Florida Statute 339.155, of making the public aware of the Horizon 2060 Florida Transportation Plan. Stakeholders were identified, webinars were scheduled and staffed, and minutes were taken. The final plan was adopted and published by FDOT in December 2010.

Stanley Consultants, FDOT District 4: TMS team members created a Public Involvement Plan for Martin and south St. Lucie Counties re the additional lane alternatives being recommended for I-95. Laura identified stakeholders, built data bases, kept local elected officials informed, created collateral materials such as handouts / mailers and newsletters developed and a website to explain the purpose and scope, assisted with correspondence, secured meeting spaces, staffed meetings, ensured proper legal notices, and took detailed minutes. TMS worked on project through June 2013.

Mathews Consulting, Boynton Beach Utilities: Laura was the team lead for Public Involvement for two of the city of Boynton Beach Utilities projects providing graphic design and production of brochures, arranging public meetings, notifying stakeholders, providing information to neighbors regarding traffic via Facebook and Twitter, updating the project website, staffing meetings and providing meeting notes.

CDM Smith, Inc., Boynton Beach Utilities: Laura is currently providing social media and website services for the Boynton Beach Ion Exchange project. This project will increase the capacity of the East Water Treatment Plant and provide an ion exchange resin system for polishing of the water quality.

Parsons, Florida Turnpike Enterprise: Laura is providing public involvement service for the widening of SR 91, including creation of the CAP plan, graphics, stakeholder database development, setting up public meetings, PowerPoints, newsletters, and modification letters.

Wantman Group, Inc.: Palm Beach County: Databases will be created for the four bridges being rebuilt or replaced. Modification letters will be written and distributed, PowerPoints created, and meetings set up and staffed.

Erdman Anthony, Riviera Beach: Laura prepared the database, created and distributed letters, set up, attended and summarized public meetings.

CES: Laura is providing public involvement services for the Town of Palm Beach Accelerated Capital Improvements project including press releases, a CAP, database, newsletter, meeting preparation, letters to stakeholders, social media, and meeting attendance.

VIA: Laura will provide a CAP plan to engage and inform the public throughout the duration of the CR-707 project in the Town of Jupiter Island. Public meetings will be coordinated, staffed, and reported. Databases developed. Press releases and newsletters created and distributed, attend meetings and coordinate with homeowners and public officials regarding best practices for communication.



Sophia Nelson



Public Involvement Specialist and Events & Programs Director

Educational Credentials:

Bethune Cookman University, BS,
Pre- Law/Sociology Masters
University of Alabama, MS, Criminology
Theory Doctorial (PHD)
Walden University, Public Administration
and Policy

Basis for Team Selection

Proficiency in Internet-based research,
word processing, print layout, photo
editing, presentation and email programs.
Strong interpersonal skills
Demonstrated superior writing skills
including experience writing op-eds,
press releases, fact sheets and other
media related materials
New media expertise

Key Skills:

Project Management
Personnel Management
Team Building and Training
Talent Recruitment
Customer Satisfaction
Organization and Follow-Through
Relationship Management

Experience:

Ms. Nelson has more than 20+ years of experience in public involvement, marketing, public relations, business development strategies, and events management. Ms. Nelson specializes in developing and implementing strategic marketing plans, building community alliances, and public involvement. Ms. Nelson has worked Florida Departments of Transportation and Environmental Protection, The Florida Consortium of Urban League Affiliates, South Florida Water Management District, AACEOM, The Cities of West Palm Beach, Pahokee, Delray Beach Riviera Beach, Fort Lauderdale, Overtown, and Lake Worth, as well as major County projects such as the Palm Beach Outlets and the Palm Beach County Convention Center Hotel.

Public Involvement Experience:

VIA: Sophia provides database research and maintenance, stakeholder outreach and community meetings/workshops as a part of the TMS Public Involvement plan to engage and inform the public throughout the duration of the CR-707 project in the Town of Jupiter Island.

Wantman Group, Inc. - Sophia is providing Public Involvement for the Palm Beach County Off-System Bridge Replacement. She is responsible for database creation, modification letters written and distributed, renderings, PowerPoints, and staff meetings.

CES: Sophia is providing public involvement services for the Town of Palm Beach Accelerated Capital Improvements project.

Riviera Beach Housing Authority -S/M/WBE, Community Outreach and Labor Force Tracking – Sophia is currently responsible for managing the local preference and local hiring initiative and coordination of community outreach events (Labor force Job fairs, and Prime/Subcontractor Outreach.)

Palm Beach Convention Center Hotel -S/M/WBE, Community Outreach and Labor Force Tracking – Sophia was responsible for managing the local preference and local hiring initiative and coordination of community outreach events (Labor force Job fairs, Prime/Subcontractor Outreach, Prime and Sub Contractor website creation for hiring and work related tracking).

Palm Beach Outlets Mall Development - Public Relations, Event Management and S/M/WBE and Community Outreach – Sophia was responsible for managing the local preference and local hiring initiative. Coordination of community outreach events (job fairs, small business workshops), media placement, promotions, and public relations activities.

South Florida Water Management District (SBE Outreach Initiatives in Palm Beach, Broward, Miami-Dade, and Naples/Ft. Myers), Public Relations, Event Management, and S/M/WBE Outreach – Sophia was responsible for the management of regional outreach for the SBE Certification Program and District Office Procurement opportunities campaign. The purpose was to educate small and minority owned businesses about the new Certification program as well as inform them of upcoming procurement opportunities at each district office. More than 800 small business firms became certified and more than 1,000 businesses attending the workshops.

Florida Department of Transportation – Bond Guarantee Program – FDOT/SBE Certification Program and District Office Procurement opportunities. The purpose was to implement a 15-week program that educated small and minority owned businesses about doing business with FDOT. Program had multiple bonding benefits.



Kelly Gebhart **Social Media Director**



Social Media and Website Management

Professional Credentials: Palm Beach State College

Basis for Team Selection

Experienced in management of multiple Social Media platforms, Graphic Art, Public Involvement, Auction Management, Website Design and Maintenance.

Community Service

Grassy Waters Preserve, Arthur Marshall Foundation

Christ Fellowship Church,
Congregational Care and
Volunteer, Usher Team Member

Florida Cemetery, Cremation &
Funeral Association (FCCFA)
Member

Experience

Kelly Gebhart has nine years of experience in the website development and social media management field. Kelly is trained on specific computer mediated platforms and creates websites and social media management programs for TMS clients. She is proficient on Microsoft Office, and Google programs. Kelly utilizes web-based technology to create highly interactive platforms introducing substantial and pervasive changes to communication between businesses, clients, events and organizations in a need-it-now generation.

Public Involvement Experience

College Game Day

Kelly coordinated an intense social media campaign for the West Palm Beach Downtown Development "Braman Motors College Game Day 2015" event that was held November 28, 2015. Her responsibilities also included volunteer management and day-of media coordination. Kelly is experienced in working with the public, government officials, and stakeholders, to inform and communicate public involvement activities and information.

Grassy Waters Preserve

Kelly built stakeholder databases, created and managed the Grassy Waters Preserve Nonprofit website, auctions, scholarship programs, media and publicity, and all forms of social media. She spent five years working in the nonprofit field at Grassy Waters Preserve, on fundraising programs. These included the Annual Wine & Dine on the Boardwalk at the preserve and the Annual Gala/Auction and Golf Classic at Ibis Country Club.

All About You

Kelly supervised the check in process, managed the silent auction, built and coordinated the event database management program for the 2015 and 2016 It's All About You. This event focused on health, empowerment, and beauty for women.

Cornerstone Jupiter & Winding Trails

Kelly built social media campaigns and custom websites for the Cornerstone Jupiter and Winding Trails projects. They were both focused around Public Involvement and community awareness.

Kelly volunteers for local charities and has served actively at Christ Fellowship Church in Palm Beach Gardens for seven years.

Kelly is a third generation Floridian, from Palm Beach Gardens.



Grady Ross



**Public Involvement
Specialist and
Sales Manager**

Education Credentials:

Lees McRae College, 2010
Business Administration

Florida State University, 1991
Criminology

Basis for Team Selection

Project management,
organization and follow-
through, relationship
management, proficiency in
Internet-based research, word
processing, strong
interpersonal skills and news
media expertise

Community Service

Everglades Elementary; Palm
Beach Lakes High School;
Habitat for Humanity; Dixie
Visions; Boy Scouts of America;
3rd Degree Free Mason, Lodge
#447

Experience:

Grady Ross is a marketing, advertising and public involvement professional having worked in the industry for more than 5 years. Grady played at the national level (NCAA) as a former linebacker for the Florida State Seminoles (1989-1990) and played in the AFL with the Florida Bobcats (1995-1997) as a Defensive Specialist.

Grady is a frequent guest on the FOX 640AM Sports Radio Show.

Grady has demonstrated his ability to formulate and maintain deep relationship with clients. His personality is infectious and is a part of his success. His community involvement has lead him to become a community servant.

Public Involvement Experience:

Napleton:

Grady was responsible for all grassroots outreach and management of the community street team for the Napleton / I-95 Northlake PD&E project. Number one goal was to get the word out and direct the targeted messaging to the impacted commercial property owners. His role was to educate, support, engage and notify.

Redsky:

Grady will manage all grassroots outreach, ensuring that the downtown residents and business are well informed about the density and intensity increases being recommended by the City of West Palm Beach. He will personally deliver all meeting information to all stakeholders.

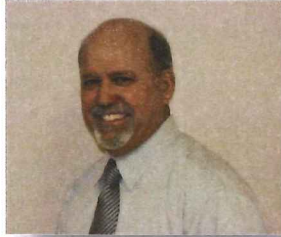
Wantman Group, Inc.- Off-System Bridge Replacement Palm Beach County: Grady will help identify appropriate public meeting locations, and staff all upcoming public meetings for contracts with the City of West Palm Beach. His duties will include producing sign in sheets, and producing meeting notes.

All About You 2016:

Grady is obtaining sponsors and vendors for the 2017 It's All About You event being held in February. This event focuses on health, empowerment, and beauty for women. Auction proceeds will benefit the KidSanctuary Campus.

Michael D. Avirom, P.L.S.

President



Experience Highlights

*Over 38 years of
land surveying experience*

Education

*Miami-Dade Junior College
Associate in Arts*

*Florida Atlantic University
Bachelor of Business
Administration*

*Palm Beach Junior College
Associate in Science
Land Surveying*

Professional Registrations

*Professional Land Surveyor
Florida*

Professional Affiliations

*Florida Society of Professional
Land Surveyors*

*National Society of Professional
Land Surveyors*

Michael Avirom established Avirom & Associates, Inc. in 1981. Mr. Avirom's surveying expertise in boundary, aerial mapping, topography, jurisdictional wetlands, bathymetric, condominium surveys, expert witness testimony and construction layout distinguish him as a respected professional in the industry.

Project Experience

Village of Palm Springs Route-of-line survey, base mapping of existing utilities above and below ground on over 100 linear feet of roadways for engineer's design, legal descriptions for easement acquisitions

Highland Beach Mapped town limits for the engineering design and construction of underground utilities

City of West Palm Beach Flagler Drive from SE 6th Street to SE 10th Street. Route-of-line survey, base mapping of existing utilities above and below ground for engineer's design. Provided soundings across Intracoastal and prepared submerged land easements for proposed forcemain

City of Boca Raton, Downtown Promenade Base mapping of all existing above ground improvements, utilities, right-of-ways, and easements for engineer's design

Glades Road Water Treatment Plant, City of Boca Raton Provided support for ground and topographic aerial mapping. Located existing above ground evidence of utility for engineering design

Florida Power & Light Company Statewide submerged land easements, obtained platted and sectional monumentation utilizing GPS to prepare approximately 200 survey sketches and legal descriptions for submerged land easements along the entire East Coast of Florida from Miami to Fernandina Beach and the west coast from Tampa south to Naples. Coordinated with divers for the location of underwater cables

Boca Raton Hotel & Beach Club Boundary, topographic and mean high water line surveys, prepared easements and submerged land acquisitions. Provided location of above and below ground utilities for engineering design

Florida Power & Light Company, Levee-Midway 500 kV transmission line survey - 140 mile corridor, survey for right-of-way acquisition, GPS control, legal descriptions, profiles, cross sections and construction layout, St. Lucie, Martin, Palm Beach, Broward, and Dade Counties, Florida

Oceanfront Properties in Boca Raton, Highland Beach, Delray Beach and Hillsboro Beach Boundary, topographic, mean high water line, erosion control line, coastal construction control line surveys and DEP permit surveys



Public Entity Form, Drug
Free Workplace Form,
Conflict of Interest Form



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:

Chen Moore and Associates

Firm Name

May 16, 2017

Signature

Date

Peter Moore, P.E., LEED AP, F.ASCE, President

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:

Chen Moore and Associates

Firm Name

May 16, 2017

Signature

Date

Peter Moore, P.E., LEED AP, F.ASCE, President

Printed Name and Title

City of Delray Beach
RFQ No. 2017-048
Continuing Engineering, Surveying, and Landscaping
Architectural Consulting Services

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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:

Chen Moore and Associates

Firm Name

Signature

May 16, 2017

Date


Peter Moore, P.E., LEED AP, F.ASCE, President

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 |
|----------------|----------------|
| 1 | April 24, 2017 |
| 2 | April 27, 2017 |
| 3 | May 4, 2017 |
| 4 | May 10, 2017 |
| 5 | May 10, 2017 |
| 6 | May 18, 2017 |
| 7 | May 19, 2017 |
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Signature of Proposer's Agent _____ Title President, Chen Moore and Associates
Peter Moore, P.E., LEED AP, F.ASCE _____ Date May 16, 2017
Printed Name _____

Evidence of Insurance, Professional Licenses, and Certificates

ACORD **CERTIFICATE OF LIABILITY INSURANCE** DATE (MM/DD/YYYY) 12/29/2016

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

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

PRODUCER
Lassiter-Ware Insurance of Tampa Bay
1300 N. Westshore Blvd.
Suite 110
Tampa FL 33607

CONTACT NAME Wendy S. Tyree
PHONE (800) 848-8437 **FAX** (888) 983-8680
EMAIL Wendy@lassiter-ware.com
ADDRESS INSURER(S) AFFORDING COVERAGE NAIC #
INSURER A: Crum & Forster Specialty Insurance 44520.
INSURER B: Old Dominion Insurance Co. 40231
INSURER C:
INSURER D:
INSURER E:
INSURER F:

INSURED
Chen Moore and Associates, Inc.
500 West Cypress Creek Road
Suite 630
Fort Lauderdale FL 33309

COVERAGES **CERTIFICATE NUMBER:** 17-18 Cert **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.

| LINE | TYPE OF INSURANCE | ADDL. INFO | POLICY NUMBER | POLICY EFF. DATE (MM/DD/YYYY) | POLICY EXPIRATION DATE (MM/DD/YYYY) | LIMITS |
|------|---|------------|---------------|-------------------------------|-------------------------------------|--|
| A | COMMERCIAL GENERAL LIABILITY CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> Contractors Pollution | | EPK151576 | 1/1/2017 | 1/1/2018 | EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 |
| B | AUTOMOBILE LIABILITY ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRER AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS <input checked="" type="checkbox"/> | | BLT2667H | 1/1/2017 | 1/1/2018 | COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ 10,000 |
| A | UMBRELLA LIAB <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> RETENTION \$ | | EPK106569 | 1/1/2017 | 1/1/2018 | EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000 |
| A | WORKERS COMPENSATION AND EMPLOYERS LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/OWNER EXCLUDED? (Mandatory in NH) If yes, describe only DESCRIPTION OF OPERATIONS below | Y/N N/A | | | | PER STATUTE <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> EL EACH ACCIDENT \$ EL DISEASE - EA EMPLOYEE \$ EL DISEASE - POLICY LIMIT \$ |
| A | Professional Liab Limits Included with General Liab | | EPK151576 | 1/1/2017 | 1/1/2018 | Each Claim \$1,000,000 Aggregate \$2,000,000 |

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

CERTIFICATE HOLDER ~For Information/Bidding Purposes Only
c/o Chen Moore and Associates, Inc.
500 W. Cypress Creek Road
Suite 630
Fort Lauderdale, FL 33309

CANCELLATION
SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
AUTHORIZED REPRESENTATIVE
P. Schmalzer/WENDYTYREE
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ACORD 25 (2014/01)

The ACORD name and logo are registered marks of ACORD

ACORD **CERTIFICATE OF LIABILITY INSURANCE** DATE (MM/DD/YYYY) 07/15/16

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

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

PRODUCER
Aon Risk Services, Inc. of Florida
1001 Brick Bay Drive, Suite #100
Miami, FL 33131-4937

CONTACT NAME Aon Risk Services, Inc. of Florida
PHONE (800) 743-6130 **FAX** (800) 522-7514
EMAIL ADP_COI_Center@Aon.com
ADDRESS INSURER(S) AFFORDING COVERAGE NAIC #
INSURER A: Illinois National Insurance Co 23817
INSURER B:
INSURER C:
INSURER D:
INSURER E:
INSURER F:

INSURED
ADP TotalSource CO XXI, Inc.
10200 Sunset Drive
Miami, FL 33173
ALTERNATE EMPLOYER
CHEN MOORE & ASSOCIATES, INC.
500 WEST CYPRESS CREEK R SUITE 630
FORT LAUDERDALE FL 33309

COVERAGES **CERTIFICATE NUMBER:** 1456007 **REVISION NUMBER:**

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

| LINE | TYPE OF INSURANCE | ADDL. INFO | POLICY NUMBER | POLICY EFF. DATE (MM/DD/YYYY) | POLICY EXPIRATION DATE (MM/DD/YYYY) | LIMITS |
|------|---|------------|----------------|-------------------------------|-------------------------------------|--|
| A | COMMERCIAL GENERAL LIABILITY CLAIMS-MADE <input type="checkbox"/> OCCUR <input type="checkbox"/> Contractors Pollution | | WC081139701 FL | 07/01/16 | 07/01/17 | EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ |
| B | AUTOMOBILE LIABILITY ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRER AUTOS <input type="checkbox"/> NON-OWNED AUTOS <input type="checkbox"/> | | | | | COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ |
| A | UMBRELLA LIAB <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> RETENTION \$ | | | | | EACH OCCURRENCE \$ AGGREGATE \$ |
| A | WORKERS COMPENSATION AND EMPLOYERS LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/OWNER EXCLUDED? (Mandatory in NH) If yes, describe only DESCRIPTION OF OPERATIONS below | Y/N N/A | | | | PER STATUTE <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> EL EACH ACCIDENT \$ 2,000,000 EL DISEASE - EA EMPLOYEE \$ 2,000,000 EL DISEASE - POLICY LIMIT \$ 2,000,000 |

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
All workers employees working for CHEN MOORE & ASSOCIATES, INC. paid under ADP TOTALSOURCE, INC.'s payroll, are covered under the above listed policy. CHEN MOORE & ASSOCIATES, INC. is an alternate employer under this policy.

CERTIFICATE HOLDER For Information/Bidding Purposes Only
c/o Chen Moore and Associates, Inc.
500 W. Cypress Creek Rd
Suite 630
Fort Lauderdale, FL 33309

CANCELLATION
SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
AUTHORIZED REPRESENTATIVE
Aon Risk Services, Inc. of Florida
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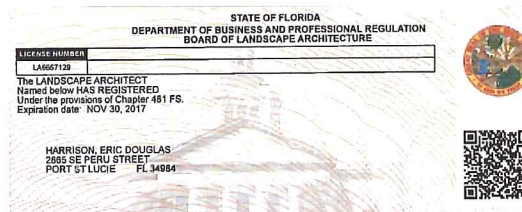
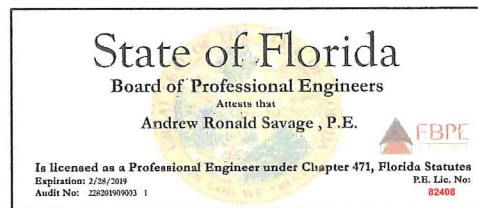
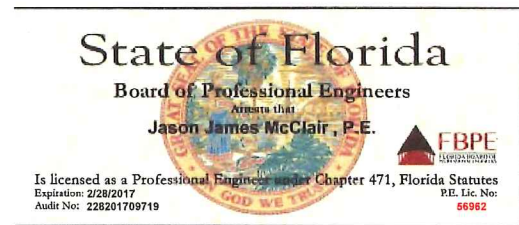
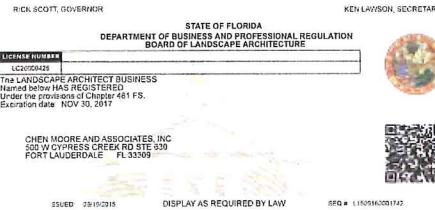
ACORD 25 (2016/03)

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CHEN-MOORE

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

& ASSOCIATES





Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkway Tallahassee, Florida 32399-6500
800HELPFLA(435-7352) or (850) 488-2221

January 25, 2017

INFRAMAP CORP
10365 CEDAR LANE
GLEN ALLEN, VA 23059

SUBJECT: Professional Surveyor and Mapper Business Certificate # LB6666

Your application / renewal as a professional surveyor and mapper business as required by Chapter 472, Florida Statutes, has been received and processed.

The license appears below and is valid through February 28, 2021.

You are required to keep your information with the Board current. Please visit our website at www.800helpfla.com/psm to create your online account. If you have already created your online account, you can use the website to maintain your license. You can also find other valuable information on the website.

If you have any questions, please do not hesitate to call the Division of Consumer Services, Board of Professional Surveyors and Mappers at 800-435-7352 or 850-488-2221.

Detach Here



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.: **LB6666**
Expiration Date February 28, 2021

Professional Surveyor and Mapper Business License
Under the provisions of Chapter 472, Florida Statutes

INFRAMAP CORP
1860 OLD OKEECHOBEE ROAD #201
WEST PALM BEACH, FL 33409

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.

**Palm Beach County
Office of Small Business Assistance**

Certifies That

The Merchant Strategy, Inc.

Vendor # VC0000116090

is a Small/Woman Business Enterprise as prescribed by section 2-80.21 – 2-80.35 of the Palm Beach County Code for a three year period from June 10, 2014 to June 9, 2017

The following Services and/or Products are covered under this certification:

**Communications: Public Relations Consulting
Governmental Consulting Services**

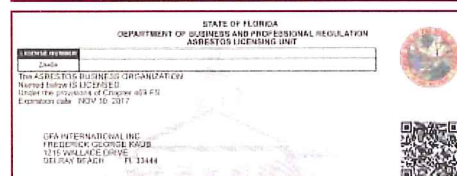
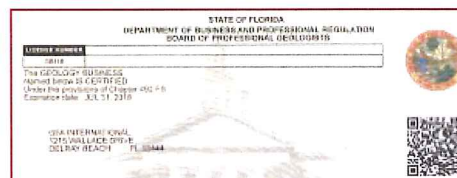
Palm Beach County Board of County Commissioners

Priscilla A. Taylor, Mayor
Paula D. Barnes, Vice Mayor
Dale R. Vassche
Shelley Vana
Steven L. Aronson
Mark J. Parguer
Jesse R. Santomaria

County Administrator
Robert W. Wilson
Deputy County Administrator
Vicki L. Baker


Allen F. Gray, Manager
06/10/2014





Avirom and Associates, Inc.



County of Palm Beach
Florida

June 19, 2015

Avirom & Associates, Inc.
4000 West 1st Avenue
Boca Raton, FL 33432

RE: CONSULTANT CERTIFICATION WITH PALM BEACH COUNTY

Dear Mr. Avirom:

Enclosed please find your consultant certification with Palm Beach County.

Qualification data must be updated when conditions are altered to either

increase or reduce the Consultant's capabilities, and/or when requested by

the Department.

You are required to report changes of address and any significant changes

to your telephone, capabilities or work category qualifications, and provide

an AWP copy of license renewal correspondence.

Should you have any questions please contact me at (561) 664-4122.

Sincerely,

Adam H. Putnam

Commissioner of Agriculture

Enclosures

This is to certify that the professional services and support 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 Pkwy Tallahassee, Florida 32399-6500

License No. LS3268

Expiration Date February 28, 2019

Professional Surveyor and Mapper License

Under the provisions of Chapter 472, Florida Statutes

MICHAEL DAVID AVIROM
50 SW 2ND AVENUE
BOCA RATON, FL 33432

Adam H. Putnam

ADAM H. PUTNAM
COMMISSIONER OF AGRICULTURE

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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. LB3300

Expiration Date February 28, 2019

Professional Surveyor and Mapper Business License

Under the provisions of Chapter 472, Florida Statutes

AVIROM & ASSOCIATES INC
50 SW 2ND AVE #102
BOCA RATON, FL 33432-4799

Adam H. Putnam

ADAM H. PUTNAM
COMMISSIONER OF AGRICULTURE

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

OFFICE OF PROFESSIONAL CERTIFICATION, PALM BEACH COUNTY

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OFFICE OF PROFESSIONAL CERTIFICATION, PALM BEACH COUNTY

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CHEN-MOORE

& ASSOCIATES

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

Florida Technical Consultants

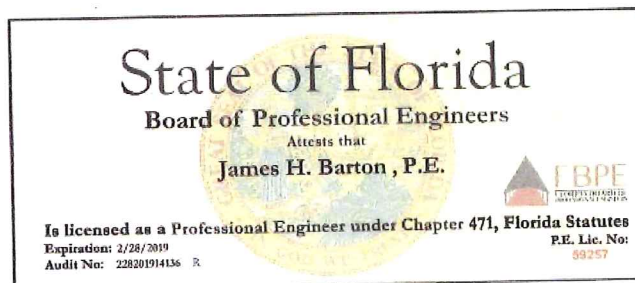
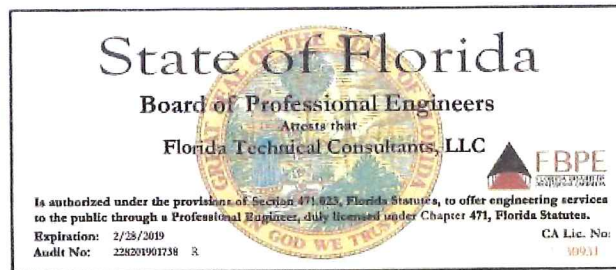


EXHIBIT "B"



**Category: Landscaping
Architecture**

Hourly Raw Salary Rate

| | |
|-----------------------|----------|
| Principal Landscaping | |
| Architecture | \$ 51.44 |
| Project Manager | \$ 40.38 |
| Landscape Architect | \$ 36.67 |
| CADD Designer | \$ 24.56 |
| Construction Manager | \$ 30.45 |
| Office Support | \$ 21.22 |

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.