

*CITY OF POMPANO BEACH,
FLORIDA*

PROFESSIONAL CONSULTING AGREEMENT

with

CHEN MOORE AND ASSOCIATES, INC.



**CONTINUING CONTRACT FOR CIVIL ENGINEERING
SERVICES FOR VARIOUS CITY PROJECTS E-20-20**

CONTRACT FOR PROFESSIONAL CONSULTING SERVICES

This Contract is made on _____, by and between the CITY OF POMPANO BEACH, a municipal corporation of the State of Florida, hereinafter referred to as "CITY," and CHEN MOORE AND ASSOCIATES, INC., a Florida corporation, hereinafter referred to as the "Consultant".

WHEREAS, the Consultant is able and prepared to provide such services as City requires under the terms and conditions set forth herein; and

WHEREAS, the City Commission has approved the recommendation that Consultant be employed by the City and authorized the negotiation of contractual terms.

NOW, THEREFORE, in consideration of the mutual promises herein, the City and the Consultant agree as follows:

ARTICLE 1 – SERVICES/CONSULTANT AND CITY REPRESENTATIVES

The Consultant's responsibility under this Contract is to provide professional consulting services as more specifically set forth in RLI No. E-20-20 attached hereto as Exhibit A and incorporated herein in its entirety.

The Consultant's representative shall be Peter Moore, President

The CITY's representative shall be City Engineer or designee,

ARTICLE 2 – TERM

The CONSULTANT shall adhere to the schedule given in each work authorization after receiving the "Notice to Proceed."

Reports and other items shall be delivered or completed in accordance with the detailed schedule set forth in individual Work Authorizations as negotiated.

The Term of this Contract shall be for an initial period of five (5) years from the date of execution by both the City and the Consultant.

ARTICLE 3 – PAYMENTS TO CONSULTANT

A. City agrees to pay Consultant in consideration for its services described herein. It is the intention of the parties hereby to ensure that unless otherwise directed by the City in writing, Consultant will continue to provide services as specified in Exhibit A for the term of this Contract.

B. Price Formula. City agrees to pay Consultant as negotiated on a Work Authorization basis. Each work authorization shall specifically identify the scope of the work to be performed and the fees for said services. As set forth in RLI No. E-20-20, professional services under this contract will be restricted to those required for any project for which construction costs will not exceed four million dollars (\$4,000,000.00), and for any study activity fees shall not exceed five hundred thousand dollars (\$500,000.00).

C. Fee Determination. Each individual Work Authorization may be negotiated for fees to be earned by Time and Materials with a Not to Exceed Amount, Lump Sum, or a combination of both methods for subtasks contained therein. The total amount to be paid by the City under a Work Authorization shall not exceed specified amounts for all services and materials including “out of pocket” expenses as specified in Paragraph E below and also including any approved subcontracts unless otherwise agreed in writing by both parties. The Consultant shall notify the City’s Representative in writing when 90% of the “not to exceed amount” for the total Work Authorization has been reached. The Consultant will bill the City on a monthly basis, or as otherwise provided. Time and Materials billing will be made at the amounts set forth in Exhibit B for services rendered toward the completion of the Scope of Work. Where incremental billings for partially completed items are permitted, the total billings shall not exceed the estimated percentage of completion as of the billing date. It is acknowledged and agreed to by the Consultant that the dollar limitation set forth in this section is a limitation upon and describes the maximum extent of City’s obligation to pay Consultant, but does not include a limitation upon Consultant’s duty to perform all services set forth in Exhibit A for the total compensation in the amount or less than the guaranteed maximum stated above.

D. Invoices received by the City from the Consultant pursuant to this Contract will be reviewed and approved in writing by the City’s Representative, indicating that services have been rendered in conformity with the Contract, and then will be sent to the City’s Finance Department for payment. All invoices shall contain a detailed breakdown of the services provided for which payment is being requested. In addition to detailed invoices, upon request of the City’s representative, Consultant shall provide City with detailed periodic Status Reports on the project. All invoice payments by City shall be made after the Work has been verified and completed. Unless disputed by City as provided herein, upon City’s receipt of a Proper Invoice as defined in §218.72, Florida Statutes, as amended, City shall forward Consultant payment for work performed within forty five (45) days for all goods and services provided.

City may temporarily remove for review any disputed amount, by line item, from an invoice and shall timely provide Consultant written notification of any such disputed charge. Consultant shall provide clarification and a satisfactory explanation to City, along with revised copies of all such documents if inaccuracies or errors are discovered, within ten (10) days of receipt of City’s notice of the disputed amount

In the event City has a claim against Consultant for Work performed hereunder which has not been timely remedied in accordance with the provisions of this Article 3, City may withhold payment for the contested amount, in whole or in part, to protect itself from loss on account of defective Work, claims filed or reasonable evidence indicating probable filing of claims by other parties against Consultant, and/or Consultant's failure to make proper payments to subcontractors or vendors for material or labor. When the reason(s) for withholding payment are removed or resolved in a manner satisfactory to City, payment shall be made.

E. "Out-of-pocket" expenses shall be reimbursed up to an amount not to exceed amounts included in each Work Authorization. All requests for payment of "out-of-pocket" expenses eligible for reimbursement under the terms of this Contract shall include copies of paid receipts, invoices, or other documentation acceptable to the City's Representative and to the Finance Department. Such documentation shall be sufficient to establish that the expense was actually incurred and necessary in the performance of the Scope of Work described in a Work Authorization and this Contract. All out-of-pocket, reimbursables and expenses shall be billed at actual amount paid by Consultant, with no markup.

F. Final Invoice. In order for both parties herein to close their books and records, the Consultant will clearly state "Final Invoice" on the Consultant's final/last billing to the City. This final invoice shall also certify that all services provided by Consultant have been properly performed and all charges and costs have been invoiced to the City. Because this account will thereupon be closed, any and other further charges not properly included on this final invoice are waived by the Consultant.

ARTICLE 4 – TRUTH-IN-NEGOTIATION CERTIFICATE

Signature of this Contract by the Consultant shall also act as the execution of a truth in negotiation certificate, certifying that the wage rates, overhead charges, and other costs used to determine the compensation provided for this Contract are accurate, complete and current as of the date of the Contract and no higher than those charged the Consultant's most favored customer for the same or substantially similar service. Should the City determine that said rates and costs were significantly increased due to incomplete, non-current or inaccurate representation, then said rates shall be adjusted accordingly.

ARTICLE 5 – TERMINATION

City shall have the right to terminate this Contract, in whole or in part, for convenience, cause, default or negligence on Consultant's part, upon ten (10) business days advance written notice to Consultant. Such Notice of Termination may include City's proposed Transition Plan and timeline for terminating the Work, requests for certain Work product documents and materials, and other provisions regarding winding down concerns and activities.

If there is any material breach or default in Consultant's performance of any covenant or obligation hereunder which has not been remedied within ten (10) business days after City's

written Notice of Termination, City, in its sole discretion, may terminate this Contract immediately and Consultant shall not be entitled to receive further payment for services rendered from the effective date of the Notice of Termination.

In the event of termination, City shall compensate Consultant for all authorized Work satisfactorily performed through the termination date under the payment terms set forth in Article 3 above and all Work product documents and materials shall be delivered to City within ten (10) business days from the Notice of Termination. If any Work hereunder is in progress but not completed as of the date of the termination, then upon City's written approval, this Contract may be extended until said Work is completed and accepted by City.

This Contract may be cancelled by the Consultant, upon thirty (30) days prior written notice to the City's Representative, in the event of substantial failure by the City to perform in accordance with the terms of this Contract through no fault of the Consultant.

ARTICLE 6 – PERSONNEL

The Consultant is, and shall be, in the performance of all work services and activities under this Contract, an independent Contractor, and not an employee, agent or servant of the City. All persons engaged in any of the work or services performed pursuant to this Contract shall at all times, and in all places, be subject to the Consultant's sole direction, supervision, and control and shall not in any manner be deemed to be employees of the City. The Consultant shall exercise control over the means and manner in which it and its employees perform the work. This contract does not create a partnership or joint venture between the parties.

The Consultant represents that it has, or will secure at its own expense, all necessary personnel required to perform the services under this Contract. Such personnel shall not be employees of or have any contractual relationship with the City, nor shall such personnel be subject to any withholding for tax, Social Security or other purposes by the City, nor be entitled to any benefits of the City including, but not limited to, sick leave, pension benefits, vacation, medical benefits, life insurance, workers or unemployment compensation benefits, or the like from the City.

All of the services required hereunder shall be performed by the Consultant or under its supervision, and all personnel engaged in performing the services shall be fully qualified and, if required, authorized or permitted under state and local law to perform such services.

Any changes or substitutions in the Consultant's key personnel, as may be listed in Article 1, must be made known to the City's Representative at the time substitution becomes effective.

The Consultant warrants that all services shall be performed by skilled and competent personnel to the degree exercised by consultants performing the same or similar services in the same location at the time the services are provided.

ARTICLE 7 – SUBCONTRACTING

Consultant may subcontract any services or work to be provided to City with the prior written approval of the City's Representative. The City reserves the right to accept the use of a subcontractor or to reject the selection of a particular subcontractor and to inspect all facilities of any subcontractors in order to make determination as to the capability of the subcontractor to perform properly under this Contract. The City's acceptance of a subcontractor shall not be unreasonably withheld. The Consultant is encouraged to seek small business enterprises and to utilize businesses that are physically located in the City of Pompano Beach with a current Business Tax Receipt for participation in its subcontracting opportunities.

ARTICLE 8 – FEDERAL AND STATE TAX

The City is exempt from payment of Florida State Sales and Use Taxes. The City will provide the Consultant with the current state issued exemption certificate. The Consultant shall not be exempted from paying sales tax to its suppliers for materials used to fulfill contractual obligations with the City, nor is the Consultant authorized to use the City's Tax Exemption Number in securing such materials.

The Consultant shall be responsible for payment of its own and its share of its employees' payroll, payroll taxes and benefits with respect to this Contract

ARTICLE 9 – AVAILABILITY OF FUNDS

The City's performance and obligation to pay under this contract is contingent upon appropriation for various projects, tasks and other professional services by the City Commission.

ARTICLE 10 - INSURANCE REQUIREMENTS

The Consultant shall not commence work under this Contract until it has obtained all insurance required under this paragraph and such insurance has been approved by the Risk Manager of the City, nor shall the Consultant allow any Subcontractor to commence work on its sub-contract until the aforementioned approval is obtained.

CERTIFICATE OF INSURANCE, reflecting evidence of the required insurance, shall be filed with the Risk Manager prior to the commencement of the work. The Certificate shall contain a provision that coverage afforded under these policies will not be cancelled, will not expire and will not be materially modified until at least thirty (30) days prior written notice has been given to the City. Policies shall be issued by companies authorized to conduct business under the laws of the State of Florida and shall have adequate Policyholders and Financial ratings in the latest ratings of A. M. Best and be part of the **Florida Insurance Guarantee Association Act**.

Insurance shall be in force until all work required to be performed under the terms of the Contract is satisfactorily completed as evidenced by the formal acceptance by the City. In the event the Insurance Certificate provided indicates that the insurance shall terminate and lapse during the period of this Contract, the Consultant shall furnish, at least ten (10) days prior to the

expiration of the date of such insurance, a renewed Certificate of Insurance as proof that equal and like coverage for the balance of the period of the Contract and extension thereunder is in effect. The Consultant shall not continue to work pursuant to this Contract unless all required insurance remains in full force and effect.

Limits of Liability for required insurance are shown in Exhibit C.

The City of Pompano Beach must be named as an additional insured for the Automobile and Commercial General Liability Coverage.

For Professional Liability, if coverage is provided on a claims made basis, then coverage must be continued for the duration of this Contract and for not less than one (1) year thereafter, or in lieu of continuation, provide an “extended reporting clause” for one (1) year.

Consultant shall notify the City Risk Manager in writing within thirty (30) days of any claims filed or made against the Professional Liability Insurance Policy.

For Workers’ Compensation Insurance, coverage shall be maintained during the life of this Contract to comply with statutory limits for all employees, and in the case of any work sublet, the Consultant shall require any Subcontractors similarly to provide Workers’ Compensation Insurance for all the latter’s employees unless such employees are covered by the protection afforded by the Consultant. The Consultant and his Subcontractors shall maintain during the life of this Contract Employer Liability Insurance.

ARTICLE 11 – INDEMNIFICATION

A. Consultant shall at all times indemnify, hold harmless the City, its officials, employees, volunteers and other authorized agents from and against any and all claims, demands, suit, damages, attorneys’ fees, fines, losses, penalties, defense costs or liabilities suffered by the City to the extent caused by any negligent act, omission, breach, recklessness or misconduct of Consultant and/or any of its agents, officers, or employees hereunder, including any inaccuracy in or breach of any of the representations, warranties or covenants made by the Consultant, its agents, officers and/or employees, in the performance of services of this contract. To the extent considered necessary by City, any sums due Consultant hereunder may be retained by City until all of City’s claims for indemnification hereunder have been settled or otherwise resolved, and any amount withheld shall not be subject to payment or interest by City.

B. Consultant acknowledges and agrees that City would not enter into this Contract without this indemnification of City by Consultant. The parties agree that one percent (1%) of the total compensation paid to Consultant hereunder shall constitute specific consideration to Consultant for the indemnification provided under this Article and these provisions shall survive expiration or early termination of this Contract.

C. Nothing in this Agreement shall constitute a waiver by the City of its sovereign immunity limits as set forth in section 768.28, Florida Statutes. Nothing herein shall be construed as consent from either party to be sued by third parties.

ARTICLE 12 – SUCCESSORS AND ASSIGNS

The City and the Consultant each binds itself and its partners, successors, executors, administrators and assigns to the other party of this Contract and to the partners, successors, executors, administrators and assigns of such other party, in respect to all covenants of this Contract. Except as above, neither the City nor the Consultant shall assign, sublet, encumber, convey or transfer its interest in this Contract without prior written consent of the other. Nothing herein shall be construed as creating any personal liability on the part of any officer or agent of the City, which may be a party hereto, nor shall it be construed as giving any rights or benefits hereunder to anyone other than the City and the Consultant.

ARTICLE 13 – REMEDIES

The laws of the State of Florida shall govern this Contract. Any and all legal action between the parties arising out of the Contract will be held in Broward County. No remedy herein conferred upon any party is intended to be exclusive of any other remedy, and each and every such remedy shall be cumulative and shall be in addition to every other remedy given hereunder or now or hereafter existing at law or in equity or by statute or otherwise. No single or partial exercise by any party of any right, power or remedy hereunder shall preclude any other or further exercise thereof.

ARTICLE 14 – CONFLICT OF INTEREST

The Consultant represents that it has no interest and shall acquire no interest, either direct or indirect, which would conflict in any manner with the performance of services required hereunder, as provided for in the Code of Ethics for Public Officers and Employees (Chapter 112, Part III, Florida Statutes). The Consultant further represents that no person having any interest shall be employed for said performance.

The Consultant shall promptly notify the City's representative, in writing, by certified mail, of a potential conflict(s) of interest for any prospective business association, interest or other circumstance, which may influence or appear to influence the Consultant's judgment or quality of services being provided hereunder. Such written notification shall identify the prospective business association, interest or circumstance, the nature of work that the Consultant may undertake and request an opinion of the City as to whether the association, interest or circumstance would, in the opinion of the City, constitute a conflict of interest if entered into by the Consultant. The City agrees to notify the Consultant of its opinion by certified mail within thirty (30) days of receipt of notice by the Consultant. If, in the opinion of the City, the prospective business association, interest, or circumstance would not constitute a conflict of interest by the Consultant, the City shall so state in the notice and the Consultant shall at its option, enter into said association, interest or circumstance and it shall be deemed not a conflict of interest with respect to services provided to the City by the Consultant under the terms of this Contract.

ARTICLE 15 – EXCUSABLE DELAYS

The Consultant shall not be considered in default by reason of any failure in performance if such failure arises out of causes reasonably beyond the control of the Consultant or its subcontractors and without their fault or negligence. Such causes include, but are not limited to, acts of God; natural or public health emergencies; freight embargoes; and abnormally severe and unusual weather conditions.

Upon the Consultant’s request, the City shall consider the facts and extent of any failure to perform the work and, if the Consultant’s failure to perform was without it, or its subcontractors fault or negligence, the Contract Schedule and/or any other affected provision of this Contract shall be revised accordingly; subject to the City’s rights to change, terminate, or stop any or all of the work at any time.

ARTICLE 16 – DEBT

The Consultant shall not pledge the City’s credit or attempt to make it a guarantor of payment or surety for any contract, debt, obligation, judgment, lien or any form of indebtedness. The Consultant further warrants and represents that it has no obligation or indebtedness that would impair its ability to fulfill the terms of this Contract.

ARTICLE 17 – DISCLOSURE AND OWNERSHIP OF DOCUMENTS

The Consultant shall deliver to the City’s representatives for approval and acceptance, and before being eligible for final payment of any amounts due, all documents and materials prepared by and for the City under this Contract.

All written and oral information not in the public domain or not previously known, and all information and data obtained, developed, or supplied by the City or at its expense will be kept confidential by the Consultant and will not be disclosed to any other party, directly or indirectly, without the City’s prior written consent unless required by a lawful order. All drawings, maps, sketches, programs, data base, reports and other data developed, or purchased, under this Contract for or at the City’s expense shall be and remain the City’s property and may be reproduced and reused at the discretion of the City.

A. The City of Pompano Beach is a public agency subject to Chapter 119, Florida Statutes. The Consultant shall comply with Florida’s Public Records Law, as amended. Specifically, the Consultant shall:

1. Keep and maintain public records required by the City in order to perform the service.
2. Upon request from the City’s custodian of public records, provide the City with a copy of requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes or as otherwise provided by law.

3. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract if the Consultant does not transfer the records to the City.

4. Upon completion of the contract, transfer, at no cost to the City, all public records in possession of the Consultant, or keep and maintain public records required by the City to perform the service. If the Consultant transfers all public records to the City upon completion of the contract, the Consultant shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Consultant keeps and maintains public records upon completion of the contract, the Consultant shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the City, upon request from the City's custodian of public records in a format that is compatible with the information technology systems of the City.

B. Failure of the Consultant to provide the above described public records to the City within a reasonable time may subject Consultant to penalties under 119.10, Florida Statutes, as amended.

PUBLIC RECORDS CUSTODIAN

IF THE CONSULTANT HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONSULTANT'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:

**CITY CLERK
100 W. Atlantic Blvd., Suite 253
Pompano Beach, Florida 33060
(954) 786-4611
RecordsCustodian@copbfl.com**

All covenants, agreements, representations and warranties made herein, or otherwise made in writing by any party pursuant hereto, including but not limited to any representations made herein relating to disclosure or ownership of documents, shall survive the execution and delivery of this Contract and the consummation of the transactions contemplated thereby.

ARTICLE 18 – CONTINGENT FEES

The Consultant warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for the Consultant to solicit or secure this Contract and that it has not paid or agreed to pay any person, company, corporation, individual, or firm, other than a bona fide employee working solely for the Consultant, any fee, commission, percentage, gift, or any other consideration contingent upon or resulting from the award or making of this Contract. Violation of this Article shall constitute a forfeiture of this Contract by Consultant.

ARTICLE 19 – ACCESS AND AUDITS

The Consultant shall maintain adequate records to justify all charges, expenses, and cost incurred in estimating and performing the work for at least three (3) years after completion of this Contract. The City shall have access to such books, records and documents as required in this section for the purpose of inspection or audit during normal business hours, at the Consultant's place of business.

ARTICLE 20 – NONDISCRIMINATION

The Consultant warrants and represents that all of its employees are treated equally during employment without regard to race, color, religion, disability, sex, age, national origin, ancestry, marital status and sexual orientation.

ARTICLE 21 – INTERPRETATION

The language of this Contract has been agreed to by both parties to express their mutual intent and no rule of strict construction shall be applied to either party hereto. The headings are for reference purposes only and shall not affect in any way the meaning or interpretation of this Contract. All personal pronouns used in this Contract shall include the other gender, and the singular, the plural, and vice versa, unless the context otherwise requires.

ARTICLE 22 – AUTHORITY TO PRACTICE

The Consultant hereby represents and warrants that it has and will continue to maintain all licenses and approvals required conducting its business, and that it will at all times conduct its business activities in a reputable manner. Proof of such licenses and approvals shall be submitted to the City's representative upon request.

ARTICLE 23 – SEVERABILITY

If any term or provision of this Contract, or the application thereof to any person or circumstances shall, to any extent be held invalid or unenforceable, to remainder of this Contract, or the application of such terms or provision, to persons or circumstances other than those as to which it is held invalid or unenforceable, shall not be affected, and every other term and provision of this Contract shall be deemed valid and enforceable to the extent permitted by law.

ARTICLE 24 – ENTIRETY OF CONTRACTUAL AGREEMENT

The City and the Consultant agree that this Contract, together with the Exhibits hereto, sets forth the entire agreement between the parties, and that there are no promises or understandings other than those stated herein. It is further agreed that no modification, amendment or alteration in the terms or conditions contained herein shall be effective unless contained in a written document executed with the same formality and of equal dignity herewith. None of the provisions, terms and conditions contained in this Contract may be added to, modified, superseded or otherwise altered, except by written instrument executed by the parties hereto in accordance with Article 25 – Modification of Work. In the event of any conflict or inconsistency between this Contract and the provisions in the incorporated Exhibits, the terms of this Contract shall supersede and prevail over the terms in the Exhibits.

ARTICLE 25 – MODIFICATION OF SCOPE OF WORK

The City reserves the right to make changes in the Scope of Work, including alterations, reductions therein or additions thereto. Upon receipt by the Consultant of the City's notification of a contemplated change, the Consultant shall, in writing: (1) provide a detailed estimate for the increase or decrease in cost due to the contemplated change; (2) notify the City of any estimated change in the completion date; and (3) advise the City if the contemplated change shall affect the Consultant's ability to meet the completion dates or schedules of this Contract.

If the City so instructs in writing, the Consultant shall suspend work on that portion of the Scope of Work affected by a contemplated change, pending the City's decision to proceed with the change.

If the City elects to make the change, the City shall initiate a Work Authorization Amendment and the Consultant shall not commence work on any such change until such written amendment is signed by the Consultant and the City Manager, and if such amendment is in excess of \$75,000, it must also first be approved by the City Commission and signed by the appropriate City Official authorized by the City Commission

The City shall not be liable for payment of any additional or modified work, which is not authorized in the manner provided for by this Article.

ARTICLE 26 – NOTICE

All notices required in this Contract shall be sent by certified mail, return receipt requested, to the following:

FOR CITY:

City Manager
City of Pompano Beach
Post Office Drawer 1300
Pompano Beach, Florida 33061

FOR CONSULTANT:

Chen Moore and Associates, Inc.
500 West Cypress Creek Road – Suite 630
Fort Lauderdale, Florida 33309
ATTN: Peter Moore

ARTICLE 27 – OWNERSHIP OF DOCUMENTS

All finished or unfinished documents, data, reports, studies, surveys, drawings, maps, models and photographs prepared or provided by the Consultant in connection with this Contract shall become property of the City, whether the project for which they are made is completed or not, and shall be delivered by Consultant to City within ten (10) days of notice of termination. If applicable, City may withhold any payments then due to Consultant until Consultant complies with the provisions of this section.

ARTICLE 28 – PROMOTING PROJECT OBJECTIVES

Consultant, its employees, subcontractors, and agents shall refrain from acting adverse to the City’s interest in promoting the goals and objectives of the projects. Consultant shall take all reasonable measures necessary to effectuate these assurances. In the event Consultant determines it is unable to meet or promote the goals and objectives of the projects, it shall immediately notify the City and the City, may then in its discretion, terminate this Contract.

ARTICLE 29 – PUBLIC ENTITY CRIMES ACT

As of the full execution of this Contract, Consultant certifies that in accordance with §287.133, Florida Statutes, it is not on the Convicted Vendors List maintained by the State of Florida, Department of General Services. If Consultant is subsequently listed on the Convicted Vendors List during the term of this Contract, Consultant agrees it shall immediately provide City written notice of such designation in accordance with Article 26 above.

ARTICLE 30 – GOVERNING LAW

This Contract must be interpreted and construed in accordance with and governed by the laws of the State of Florida. The exclusive venue for any lawsuit arising from, related to, or in connection with this Agreement will be in the state courts of the Seventeenth Judicial Circuit in and for Broward County, Florida. If any claim arising from, related to, or in connection with this Agreement must be litigated in federal court, the exclusive venue for any such lawsuit will be in the United States District Court or United States Bankruptcy Court for the Southern District of Florida. BY ENTERING INTO THIS AGREEMENT, THE PARTIES HEREBY EXPRESSLY WAIVE ANY RIGHTS EITHER PARTY MAY HAVE TO A TRIAL BY JURY OF ANY CIVIL LITIGATION RELATED TO THIS AGREEMENT.

ARTICLE 31 - BINDING EFFECT

The benefits and obligations imposed pursuant to this Contract shall be binding and enforceable by and against the parties hereto.

THE REMAINDER OF THE PAGE IS INTENTIONALLY LEFT BLANK

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed the day and year hereinabove written.

Attest:

CITY OF POMPANO BEACH

ASCELETA HAMMOND, CITY CLERK

By: _____
REX HARDIN, MAYOR

(SEAL)

By: _____
GREGORY P. HARRISON, CITY MANAGER

APPROVED AS TO FORM:

MARK E. BERMAN, CITY ATTORNEY

"CONSULTANT"

CHEN MOORE AND ASSOCIATES, INC.

Witnesses:



Signature

Jason McClair

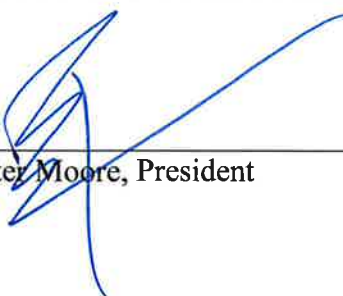
Name Typed, Printed or Stamped



Signature

Megan Schmidt

Name Type, Printed or Stamped

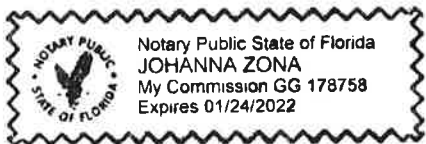
By: 

Peter Moore, President

STATE OF FLORIDA
COUNTY OF BROWARD

The foregoing instrument was acknowledged before me, by means of physical presence or online notarization, this 12 day of January, 2021, by Peter Moore, as President of Chen Moore and Associates, Inc., a Florida corporation, on behalf of the corporation. He is personally known to me or who has produced _____ (type of identification) as identification.

NOTARY'S SEAL:





NOTARY PUBLIC, STATE OF FLORIDA

Johanna Zona

(Name of Acknowledger Typed, Printed or Stamped)

GG 178758

Commission Number



Florida's Warmest Welcome

**CITY OF POMPANO BEACH
REQUEST FOR LETTERS OF INTEREST
E-20-20**

**CONTINUING CONTRACT FOR CIVIL ENGINEERING
SERVICES FOR VARIOUS CITY PROJECTS**

**RLI OPENING: July 30, 2020 2:00 P.M.
VIRTUAL ZOOM MEETING**

June 30, 2020

CITY OF POMPANO BEACH, FLORIDA
REQUEST FOR LETTERS OF INTEREST
E-20-20

CONTINUING CONTRACT FOR CIVIL ENGINEERING SERVICES FOR VARIOUS CITY
PROJECTS

Pursuant to Florida Statutes Chapter 287.055 "Consultants' Competitive Negotiation Act" the City of Pompano Beach and the Pompano Beach Community Redevelopment Association (CRA) invite professional firms to submit qualifications and experience for consideration to provide construction engineering inspection (CEI) services to the City and the CRA on a continuing as-needed basis.

The City will receive sealed proposals until **2:00 p.m. (local), July 30, 2020**. Proposals must be submitted electronically through the eBid System on or before the due date/time stated above. Any proposal received after the due date and time specified, will not be considered. Any uncertainty regarding the time a proposal is received will be resolved against the Proposer.

Proposer must be registered on the City's eBid System in order to view the solicitation documents and respond to this solicitation. The complete solicitation document can be downloaded for free from the eBid System as a pdf at: <https://pompanobeachfl.ionwave.net>. The City is not responsible for the accuracy or completeness of any documentation the Proposer receives from any source other than from the eBid System. Proposer is solely responsible for downloading all required documents. A list of proposers will be read aloud in a public forum.

Introduction

The City of Pompano Beach is seeking qualified civil engineering firms to work on various projects for City and the CRA. The projects range in magnitude from small-scale to large or specialized designs.

The types of projects to be undertaken may include, but are not limited to:

- The City's approved Capital Improvement Plan (CIP) maybe found here: [Adopted Capital Improvement Plan FY 2020-2024](#)
- Roadway, Streetscape or Parking Lot projects.
- Water or Reuse Main projects.
- Gravity Sewer Main projects.
- Force Main projects.
- Lift station/pump station rehabilitation projects.
- Parks and Recreational Facilities.
- Seawall and dock construction and repair.
- Storm Water/Drainage Improvement projects
- Consultation for Emergency Water/Wastewater/Stormwater Repairs.
- Inspection Services for Emergency Water/Wastewater/Stormwater Repairs.
- Canal and lake dredging.

- Grant reimbursement, FAA and FDOT support and compliance.
- SRF support and Davis Bacon Wage Reporting requirements
- Support Services for Remediation
- Demolition Projects

A. Scope of Services

The City intends to issue multiple contracts to civil engineering firms to provide continuing professional services to the City and the CRA for various projects as-needed. Professional services under this contract will be restricted to those required for any project for which construction costs will not exceed \$4 million, and for any study activity for which fees will not exceed \$500,000.00.

The scope of services may include, but is not limited to, the following:

- Prepare preliminary design reports and/or design alternative recommendations. This may include various types of utility modeling, surveying, and field data analysis.
- Prepare all required bidding/construction documents for projects. This may include the preparation of surveys, design plans and construction documents, technical specifications, and cost estimates. Attendance at required pre-design, design, bidding and bid award meeting may also be required.
- Attend pre-bid conference, prepare possible bid addenda for contract document revisions. Assist in making bid award recommendations for contracting/construction services.
- Prepare all required permit applications and submittal packages as required for permit issuance of all agency permits (i.e. Federal, State, County and City).
- Provide construction engineering/management/administration services for projects. Services during construction may include shop drawing/contractor submittal reviews and approvals, inspection and approval of project improvements, certification of projects for various permitting entities, possible field revisions, and review and approval of contractor pay applications.
- Provide project close-out services. This may include preliminary and final acceptance of projects, preparation and approval of punch list items and project certification as required to all permitting agencies.

Firms must have previous municipal experience and must be licensed to practice **Civil Engineering services** in the State of Florida, Florida State Statute 481, by the Board of Professional Regulation.

B. Task/Deliverables

Tasks and deliverables will be determined per project. Each project shall require a signed Work Authorization (WA) form from the awarded firm to be provided to the City or the CRA. Forms shall be completed in its entirety and include the agreed upon scope, tasks, schedule, cost, and deliverables for the project. Consultant will be required to provide all applicable insurance requirements.

C. Term of Contract

The Term of this Contract shall be for an initial period of five (5) years from the date of execution by both the City and the Consultant.

D. Project Web Requirements:

1. This project will utilize e-Builder Enterprise™, a web-based project management tool. This web-based application is a collaboration tool, which will allow all project team members continuous access through the Internet to important project data as well as up to the minute decision and approval status information.

e-Builder Enterprise™ is a comprehensive Project and Program Management system that the City will use to manage all project documents, communications and costs between the Lead Consultant, Sub-Consultants, Design Consultants, Contractor and Owner. e-Builder Enterprise™ includes extensive reporting capabilities to facilitate detailed project reporting in a web-based environment that is accessible to all parties and easy to use. Training will be provided for all consultants selected to provide services for the City of Pompano Beach.

2. Lead and Sub-Consultants shall conduct project controls outlined by the Owner, Project Manager, and/or Construction Manager, utilizing e-Builder Enterprise™. **The designated web-based application license(s) shall be provided by the City to the Prime Consultant and Sub-Consultants.** No additional software will be required.

Lead Consultant and Sub-Consultants shall have the responsibility for logging in to the project web site on a daily basis, and as necessary to be kept fully apprised of project developments and required action items. , These may include but are not limited to: Contracts, Contract Exhibits, Contract Amendments, Drawing Issuances, Addenda, Bulletins, Permits, Insurance & Bonds, Safety Program Procedures, Safety Notices, Accident Reports, Personnel Injury Reports, Schedules, Site Logistics, Progress Reports, Correspondence, Daily Logs, Non-Conformance Notices, Quality Control Notices, Punch Lists, Meeting Minutes, Requests for Information, Submittal Packages, Substitution Requests, Monthly Payment Request Applications, Supplemental Instructions, Owner Change Directives, Potential Change Orders, Change Order Requests, Change Orders and the like. All supporting data including but not limited to shop drawings, product data sheets, manufacturer data sheets and instructions, method statements, safety SDS sheets, Substitution Requests and the like will be submitted in digital format via e-Builder Enterprise™.

E. Local Business Program

On March 13, 2018, the City Commission approved Ordinance 2018-46, establishing a Local Business Program, a policy to increase the participation of City of Pompano Beach businesses in the City's procurement process.

For purposes of this solicitation, "Local Business" will be defined as follows:

1. **TIER 1 LOCAL VENDOR.** POMPANO BEACH BUSINESS EMPLOYING POMPANO BEACH RESIDENTS. A business entity which has maintained a permanent place of business within the city limits and maintains a staffing level, within this local office, of at least ten percent who are residents of the City of Pompano Beach or includes

- subcontracting commitments to Local Vendors Subcontractors for at least ten percent of the contract value. The permanent place of business may not be a post office box. The business must be located in a non-residential zone, and must actually distribute goods or services from that location. The business must be staffed with full-time employees within the limits of the city. In addition, the business must have a current business tax receipt from the City of Pompano Beach for a minimum of one year prior to the date of issuance of a bid or proposal solicitation.
2. **TIER 2 LOCAL VENDOR. BROWARD COUNTY BUSINESS EMPLOYING POMPANO BEACH RESIDENTS OR UTILIZING LOCAL VENDOR SUBCONTRACTORS.** A business entity which has maintained a permanent place of business within Broward County and maintains a staffing level, within this local office, of at least 15% who are residents of the City of Pompano Beach or includes subcontracting commitments to Local Vendors Subcontractors for at least 20% of the contract value. The permanent place of business may not be a post office box. The business must be located in a non-residential zone, and must actually distribute goods or services from that location. The business must be staffed with full-time employees within the limits of the city. In addition, the business must have a current business tax receipt from the respective Broward County municipality for a minimum of one year prior to the date of issuance of a bid or proposal solicitation.
 3. **LOCAL VENDOR SUBCONTRACTOR. POMPANO BEACH BUSINESS.** A business entity which has maintained a permanent place of business within the city limits of the City of Pompano Beach. The permanent place of business may not be a post office box. The business must be located in a non-residential zone, and must actually distribute goods or services from that location. The business must be staffed with full-time employees within the limits of the city. In addition, the business must have a current business tax receipt from the City of Pompano Beach for a minimum of one year prior to the date of issuance of a bid or proposal solicitation.

You can view the list of City businesses that have a current Business Tax Receipt on the City's website, and locate local firms that are available to perform the work required by the bid specifications. The business information, sorted by business use classification, is posted on the webpage for the Business Tax Receipt Division: www.pompanobeachfl.gov by selecting the Pompano Beach Business Directory in the Shop Pompano! section.

The City of Pompano Beach is **strongly committed** to insuring the participation of City of Pompano Beach Businesses as contractors and subcontractors for the procurement of goods and services, including labor, materials and equipment. Proposers are required to participate in the City of Pompano Beach's Local Business Program by including, as part of their package, the Local Business Participation Form (Exhibit A,) listing the local businesses that will be used on the contract, and the Letter of Intent Form (Exhibit B) from each local business that will participate in the contract.

Please note that, while no goals have been established for this solicitation, the City encourages Local Business participation in *all* of its procurements.

If a Prime Contractor/Vendor is not able to achieve the level of goal attainment of the contract, the Prime Vendor will be requested to demonstrate and document that good faith efforts were made to achieve the goal by providing the Local Business Unavailability Form (Exhibit C), listing firms that were contacted but not available, and the Good Faith Effort Report (Exhibit D), describing the efforts made to include local business participation in the contract. This documentation shall be provided to the City Commission for acceptance.

The awarded proposer will be required to submit "Local Business Subcontractor Utilization Reports" during projects and after projects have been completed. The reports will be submitted to the assigned City project manager of the project. The Local Business Subcontractor Utilization Report template and instructions have been included in the bid document.

Failure to meet Local Vendor Goal commitments will result in "unsatisfactory" compliance rating. Unsatisfactory ratings may impact award of future projects if a sanction is imposed by the City Commission.

The city shall award a Local Vendor preference based upon vendors, contractors, or subcontractors who are local with a preferences follows:

1. For evaluation purposes, the Tier 1 and Tier 2 businesses shall be a criterion for award in this Solicitation. No business may qualify for more than one tier level.
2. For evaluation purposes, local vendors shall receive the following preferences:
 - a. Tier 1 business as defined by this subsection shall be granted a preference in the amount of five percent of total score.
 - b. Tier 2 business as defined by this subsection shall be granted a preference in the amount of two and one-half percent of total score.
3. It is the responsibility of the awarded vendor/contractor to comply with all Tier 1 and Tier 2 guidelines. The awarded vendor/contractor must ensure that all requirements are met before execution of a contract.

F. Required Proposal Submittal

Sealed proposals shall be submitted electronically through the eBid System on or before the due date/time stated above. Proposer shall upload response as one (1) file to the eBid System. The file size for uploads is limited to 250 MB. If the file size exceeds 10 MB the response must be split and uploaded as two (2) separate files.

Information to be included in the proposal: In order to maintain comparability and expedite the review process, it is required that proposals be organized in the manner specified below, with the sections clearly labeled:

Title page:

Show the project name and number, the name of the Proposer's firm, address, telephone number, name of contact person and the date.

Table of Contents:

Include a clear identification of the material by section and by page.

Letter of Transmittal:

Briefly state the Proposer's understanding of the project and express a positive commitment to provide the services described herein. State the name(s) of the person(s) who will be authorized to make representations for the Proposer, their title(s), office and E-mail addresses and telephone numbers. Please limit this section to two pages.

Technical Approach:

Firms or teams shall submit their technical approach to the tasks described in the scope, including details of how each phase of the project would be completed, and how their firm proposes to maintain time schedules and cost controls.

Schedule:

Proposer shall provide a timeline that highlights proposed tasks that will meet all applicable deadlines.

References:

References for past projects in the tri-county area (Broward, Palm Beach, and Miami-Dade.) Describe the scope of each project in physical terms and by cost, describe the respondent's responsibilities, and provide the contact information (name, email, telephone number) of an individual in a position of responsibility who can attest to respondent's activities in relation to the project.

List any prior projects performed for the City of Pompano Beach.

Project Team Form:

Submit a completed "Project Team" form. The purpose of this form is to identify the key members of your team, including any specialty subconsultants.

Organizational Chart:

Specifically identify the management plan (if needed) and provide an organizational chart for the team. The proposer must describe at a minimum, the basic approach to these projects, to include reporting hierarchy of staff and sub-consultants, clarify the individual(s) responsible for the co-ordination of separate components of the scope of services.

Statement of Skills and Experience of Project Team:

Describe the experience of the entire project team as it relates to the types of projects described in the Scope section of this solicitation. Include the experience of the prime consultants as well as other members of the project team; i.e., additional personnel, sub-consultants, branch office, team members, and other resources anticipated to be utilized for this project. Name specific projects (successfully completed within the past five years) where the team members have performed similar projects previously.

Resumes of Key Personnel

Include resumes for key personnel for prime and subconsultants.

Office Locations:

Identify the location of the office from which services will be rendered, and the number of professional and administrative staff at the prime office location. Also identify the location

of office(s) of the prime and/or sub consultants that may be utilized to support any or all of the professional services listed above and the number of professional and administrative staff at the prime office location.

If firms are situated outside the local area, (Broward, Palm Beach, and Miami-Dade counties) include a brief statement as to whether or not the firm will arrange for a local office during the term of the contract, if necessary.

Local Businesses:

Completed Local Business program forms, Exhibits A-D.

NOTE: Form B must be signed by a representative of the subcontractor, NOT of the Prime.

Litigation:

Disclose any litigation within the past five (5) years arising out your firm's performance, including status/outcome.

City Forms:

The Proposer Information Page Form and any other required forms must be completed and submitted electronically through the City's eBid System. The City reserves the right to request additional information to ensure the proposer is financially solvent and has sufficient financial resources to perform the contract and shall provide proof thereof of its financial solvency. The City may as at its sole discretion ask for additional proof of financial solvency, including additional documents post proposal opening, and prior to evaluation that demonstrates the Proposer's ability to perform the resulting contract and provide the required materials and/or services.

Reviewed and Audited Financial Statements:

Proposers shall be financially solvent and appropriately capitalized to be able to service the City for the duration of the contract. Proposers shall provide a complete financial statement of the firm's most recent audited financial statements, indicating organization's financial condition. Must be uploaded to the Response Attachments tab in the eBid System as a separate file titled "Financial Statements" and marked "CONFIDENTIAL."

Financial statements provided shall not be older than twelve (12) months prior to the date of filing this solicitation response. The financial statements are to be reviewed and submitted with any accompanying notes and supplemental information. The City of Pompano Beach reserve the right to reject financial statements in which the financial condition shown is of a date twelve (12) months or more prior to the date of submittals.

The City is a public agency subject to Chapter 119, Florida's Public Records Law and is required to provide the public with access to public records, however, financial statements that are required as submittals to prequalify for a solicitation will be exempt from public disclosure.

The City reserves the right to request additional information to ensure the proposer is financially solvent and has sufficient financial resources to perform the contract and shall provide proof thereof of its financial solvency. The City may as at its sole discretion ask for additional proof of financial solvency, including additional documents post proposal opening, and prior to evaluation that demonstrates the Proposer's ability to perform the resulting contract and provide the required materials and/or services.

A combination of two (2) or more of the following may substitute for audited financial statements:

- 1) Bank letters/statements for the past 3 months
- 2) Balance sheet, profit and loss statement, cash flow report
- 3) IRS returns for the last 2 years
- 4) Letter from CPA showing profits and loss statements (certified)

G. Insurance

CONTRACTOR shall not commence services under the terms of this Agreement until certification or proof of insurance detailing terms and provisions has been received and approved in writing by the CITY's Risk Manager. If you are responding to a bid and have questions regarding the insurance requirements hereunder, please contact the CITY's Purchasing Department at (954) 786-4098. If the contract has already been awarded, please direct any queries and proof of the requisite insurance coverage to CITY staff responsible for oversight of the subject project/contract.

CONTRACTOR is responsible to deliver to the CITY for timely review and written approval/disapproval Certificates of Insurance which evidence that all insurance required hereunder is in full force and effect and which name on a primary basis, the CITY as an additional insured on all such coverage.

Throughout the term of this Agreement, CITY, by and through its Risk Manager, reserve the right to review, modify, reject or accept any insurance policies required by this Agreement, including limits, coverages or endorsements. CITY reserves the right, but not the obligation, to review and reject any insurer providing coverage because of poor financial condition or failure to operate legally.

Failure to maintain the required insurance shall be considered an event of default. The requirements herein, as well as CITY's review or acceptance of insurance maintained by CONTRACTOR, are not intended to and shall not in any way limit or qualify the liabilities and obligations assumed by CONTRACTOR under this Agreement.

Throughout the term of this Agreement, CONTRACTOR and all subcontractors or other agents hereunder, shall, at their sole expense, maintain in full force and effect, the following insurance coverages and limits described herein, including endorsements.

1. Worker's Compensation Insurance covering all employees and providing benefits as required by Florida Statute, Chapter 440. CONTRACTOR further agrees to be responsible for employment, control and conduct of its employees and for any injury sustained by such employees in the course of their employment.

2. Liability Insurance.

- (a) Naming the City of Pompano Beach as an additional insured as CITY's interests may appear, on General Liability Insurance only, relative to claims which arise from CONTRACTOR's negligent acts or omissions in connection with Contractor's performance under this Agreement.

(b) Such Liability insurance shall include the following checked types of insurance and indicated minimum policy limits.

Type of Insurance	Limits of Liability	
GENERAL LIABILITY:	Minimum \$1,000,000 Per Occurrence and \$2,000,000 Per Aggregate	
* Policy to be written on a claims incurred basis		
XX comprehensive form	bodily injury and property damage	
XX premises - operations explosion & collapse	bodily injury and property damage	
— hazard		
— underground hazard		
XX products/completed operations hazard	bodily injury and property damage combined	
XX contractual insurance	bodily injury and property damage combined	
XX broad form property damage	bodily injury and property damage combined	
XX independent contractors	personal injury	
XX personal injury		
— sexual abuse/molestation	Minimum \$1,000,000 Per Occurrence and Aggregate	
— liquor legal liability	Minimum \$1,000,000 Per Occurrence and Aggregate	

AUTOMOBILE LIABILITY:	Minimum \$1,000,000 Per Occurrence and Aggregate. Bodily injury (each person) bodily injury (each accident), Property damage, bodily injury and property damage combined.	
XX comprehensive form		
XX owned		
XX hired		
XX non-owned		

REAL & PERSONAL PROPERTY		
— comprehensive form	Agent must show proof they have this coverage.	

EXCESS LIABILITY	Per Occurrence Aggregate	
— other than umbrella	bodily injury and property damage combined	\$1,000,000 \$1,000,000

PROFESSIONAL LIABILITY	Per Occurrence Aggregate	
XX * Policy to be written on a claims made basis	\$1,000,000	\$1,000,000

(c) If Professional Liability insurance is required, Contractor agrees the indemnification and hold harmless provisions set forth in the Agreement shall survive the

termination or expiration of the Agreement for a period of four (4) years unless terminated sooner by the applicable statute of limitations.

CYBER LIABILITY

Per Occurrence Aggregate

___	* Policy to be written on a claims made basis	\$1,000,000	\$1,000,000
___	Network Security / Privacy Liability		
___	Breach Response / Notification Sublimit (minimum limit of 50% of policy aggregate)		
___	Technology Products E&O - \$1,000,000 (only applicable for vendors supplying technology related services and or products)		
___	Coverage shall be maintained in effect during the period of the Agreement and for not less than four (4) years after termination/ completion of the Agreement.		

3. Employer's Liability. If required by law, CONTRACTOR and all subcontractors shall, for the benefit of their employees, provide, carry, maintain and pay for Employer's Liability Insurance in the minimum amount of One Hundred Thousand Dollars (\$100,000.00) per employee, Five Hundred Thousand Dollars (\$500,000) per aggregate.

4. Policies: Whenever, under the provisions of this Agreement, insurance is required of the CONTRACTOR, the CONTRACTOR shall promptly provide the following:

- (a) Certificates of Insurance evidencing the required coverage;
- (b) Names and addresses of companies providing coverage;
- (c) Effective and expiration dates of policies; and

(d) A provision in all policies affording CITY thirty (30) days written notice by a carrier of any cancellation or material change in any policy.

5. Insurance Cancellation or Modification. Should any of the required insurance policies be canceled before the expiration date, or modified or substantially modified, the issuing company shall provide thirty (30) days written notice to the CITY.

6. Waiver of Subrogation. CONTRACTOR hereby waives any and all right of subrogation against the CITY, its officers, employees and agents for each required policy. When required by the insurer, or should a policy condition not permit an insured to enter into a pre-loss agreement to waive subrogation without an endorsement, then CONTRACTOR shall notify the insurer and request the policy be endorsed with a Waiver of Transfer of Rights of Recovery Against Others, or its equivalent. This Waiver of Subrogation requirement shall not apply to any policy which includes a condition to the policy not specifically prohibiting such an endorsement, or voids coverage should CONTRACTOR enter into such an agreement on a pre-loss basis.

H. Selection/Evaluation Process

A Selection/Evaluation Committee will be appointed to select the most qualified firm(s). The Selection/Evaluation Committee will present their findings to the City Commission.

Proposals will be evaluated using the following criteria.

Line	Criteria	Point Range
1	Prior experience of the firm with projects of similar size and complexity: a. Number of similar projects b. Complexity of similar projects c. References from past projects performed by the firm d. Previous projects performed for the City (provide description) e. Litigation within the past 5 years arising out of firm's performance (list, describe outcome)	0-15
2	Qualifications of personnel including sub consultants: a. Organizational chart for project b. Number of technical staff c. Qualifications of technical staff: (1) Number of licensed staff (2) Education of staff (3) Experience of staff on similar projects	0-15
3	Proximity of the nearest office to the project location: a. Location b. Number of staff at the nearest office	0-15
4	Current and Projected Workload Rating is to reflect the workload (both current and projected) of the firm, staff assigned, and the percentage availability of the staff member assigned. Respondents which fail to note both existing and projected workload conditions and percentage of availability of staff assigned shall receive zero (0) points	0-15
5	Demonstrated Prior Ability to Complete Project on Time Respondents will be evaluated on information provided regarding the firm's experience in the successful completion and steadfast conformance to similar project schedules. Provide an example of successful approaches utilized to achieve a timely project completion. Respondents who demonstrate the ability to complete projects on time shall receive more points.	0-15
6	Demonstrated Prior Ability to Complete Project on Budget	0-15

Proposers will be evaluated on their ability to adhere to initial design budgets. Examples provided should show a comparison between initial negotiated task costs and final completion costs. Respondents should explain in detail any budgetary overruns due to scope modifications. Respondents which fail to provide schedule and budget information as requested will receive zero (0) points.

7 Is the firm a certified minority business enterprise as defined by the Florida Small and Minority Business Assistance Act of 1985? (Certification of any sub-contractors should also be included with the response.) 0-10

Additional 0-5% for Tier1/Tier2 Local Business will be calculated on combined scoring totals of each company.

NOTE:

Financial statements that are required as submittals to prequalify for a solicitation will be exempt from public disclosure; however, financial statements submitted to prequalify for a solicitation, and are not required by the City, may be subject to public disclosure.

Value of Work Previously Awarded to Firm (Tie-breaker) - In the event of a tie, the firm with the lowest value of work as a prime contractor on City of Pompano Beach projects within the last five years will receive the higher ranking, the firm with the next lowest value of work shall receive the next highest ranking, and so on. The analysis of past work will be based on the City's Purchase Order and payment records.

The Committee has the option to use the above criteria for the initial ranking to short-list Proposers and to use an ordinal ranking system to score short-listed Proposers following presentations (if deemed necessary) with a score of "1" assigned to the short-listed Proposer deemed most qualified by the Committee.

Each firm should submit documentation that evidences the firm's capability to provide the services required for the Committee's review for short listing purposes. After an initial review of the Proposals, the City may invite Proposers for an interview to discuss the proposal and meet firm representatives, particularly key personnel who would be assigned to the project. Should interviews be deemed necessary, it is understood that the City shall incur no costs as a result of this interview, nor bear any obligation in further consideration of the submittal.

When more than three responses are received, the committee shall furnish the City Commission (for their approval) a listing, in ranked order, of no fewer than three firms deemed to be the most highly qualified to perform the service. If three or less firms respond to the Solicitation, the list will contain the ranking of all responses.

The City Commission has the authority to (including, but not limited to); approve the recommendation; reject the recommendation and direct staff to re-advertise the solicitation; or, review the responses themselves and/or request oral presentations and determine a ranking order that may be the same or different from what was originally presented to the City Commission.

Value of Work Previously Awarded to Firm (Tie-breaker) - In the event of a tie, the firm with the lowest value of work as a prime contractor on City of Pompano Beach projects within the last five years will receive the higher ranking, the firm with the next lowest value of work shall receive the next highest ranking, and so on. The analysis of past work will be based on the City's Purchase Order and payment records.

I. Hold Harmless and Indemnification

Proposer covenants and agrees that it will indemnify and hold harmless the City and all of its officers, agents, and employees from any claim, loss, damage, cost, charge or expense arising out of any act, action, neglect or omission by the Proposer, whether direct or indirect, or whether to any person or property to which the City or said parties may be subject, except that neither the Proposer nor any of its subcontractors will be liable under this section for damages arising out of injury or damage to persons or property directly caused by or resulting from the sole negligence of the City or any of its officers, agents or employees.

J. Right to Audit

Contractor's records which shall include but not be limited to accounting records, written policies and procedures, computer records, disks and software, videos, photographs, subcontract files (including proposals of successful and unsuccessful bidders), originals estimates, estimating worksheets, correspondence, change order files (including documentation covering negotiated settlements), and any other supporting evidence necessary to substantiate charges related to this contract (all the foregoing hereinafter referred to as "records") shall be open to inspection and subject to audit and/or reproduction, during normal working hours, by Owner's agent or its authorized representative to the extent necessary to adequately permit evaluation and verification of any invoices, payments or claims submitted by the contractor or any of his payees pursuant to the execution of the contract. Such records subject to examination shall also include, but not be limited to, those records necessary to evaluate and verify direct and indirect costs (including overhead allocations) as they may apply to costs associated with this contract.

For the purpose of such audits, inspections, examinations and evaluations, the Owner's agent or authorized representative shall have access to said records from the effective date of this contract, for the duration of the Work, and until 5 years after the date of final payment by Owner to Consultant pursuant to this contract.

Owner's agent or its authorized representative shall have access to the Contractor's facilities, shall have access to all necessary records, and shall be provided adequate and appropriate work space, in order to conduct audits in compliance with this article. Owner's agent or its authorized representative shall give auditees reasonable advance notice of intended audits.

Contractor shall require all subcontractors, insurance agents, and material suppliers (payees) to comply with the provisions of this article by insertion of the requirements hereof in any written contract agreement. Failure to obtain such written contracts which include such provisions shall be reason to exclude some or all of the related payees' costs from amounts payable to the Contractor pursuant to this contract.

K. Retention of Records and Right to Access

The City of Pompano Beach is a public agency subject to Chapter 119, Florida Statutes. The Contractor shall comply with Florida's Public Records Law, as amended. Specifically, the Contractor shall:

1. Keep and maintain public records required by the City in order to perform the service;
2. Upon request from the City's custodian of public records, provide the City with a copy of requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes or as otherwise provided by law;
3. Ensure that public records that are exempt or that are confidential and exempt from public record requirements are not disclosed except as authorized by law;
4. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract if the Contractor does not transfer the records to the City; and
5. Upon completion of the contract, transfer, at no cost to the City, all public records in possession of the Contractor, or keep and maintain public records required by the City to perform the service. If the Contractor transfers all public records to the City upon completion of the contract, the Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of the contract, the Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the City, upon request from the City's custodian of public records in a format that is compatible with the information technology systems of the City.

L. Communications

No negotiations, decisions, or actions shall be initiated or executed by the firm as a result of any discussions with any City employee. Only those communications, which are in writing from the City, may be considered as a duly authorized expression on behalf of the City. In addition, only communications from firms that are signed and in writing will be recognized by the City as duly authorized expressions on behalf of firms.

M. No Discrimination

There shall be no discrimination as to race, sex, color, age, religion, or national origin in the operations conducted under any contract with the City.

N. Independent Contractor

The selected firm will conduct business as an independent contractor under the terms of this contract. Personnel services provided by the firm shall be by employees of the firm and subject to supervision by the firm, and not as officers, employees, or agents of the City. Personnel policies, tax responsibilities, social security and health insurance,

employee benefits, purchasing policies and other similar administrative procedures applicable to services rendered under this agreement shall be those of the firm.

O. Staff Assignment

The City of Pompano Beach reserves the right to approve or reject, for any reasons, Proposer's staff assigned to this project at any time. Background checks may be required.

P. Contract Terms

The contract resulting from this Solicitation shall include, but not be limited to the following terms:

The contract shall include as a minimum, the entirety of this Solicitation document, together with the successful Proposer's proposal. Contract shall be prepared by the City of Pompano Beach City Attorney.

If the City of Pompano Beach defends any claim, demand, cause of action, or lawsuit arising out of any act, action, negligent acts or negligent omissions, or willful misconduct of the contractor, its employees, agents or servants during the performance of the contract, whether directly or indirectly, contractor agrees to reimburse the City of Pompano Beach for all expenses, attorney's fees, and court costs incurred in defending such claim, cause of action or lawsuit.

Q. Waiver

It is agreed that no waiver or modification of the contract resulting from this Solicitation, or of any covenant, condition or limitation contained in it shall be valid unless it is in writing and duly executed by the party to be charged with it, and that no evidence of any waiver or modification shall be offered or received in evidence in any proceeding, arbitration, or litigation between the parties arising out of or affecting this contract, or the right or obligations of any party under it, unless such waiver or modification is in writing, duly executed as above. The parties agree that the provisions of this paragraph may not be waived except by a duly executed writing.

R. Survivorship Rights

This contract resulting from this Solicitation shall be binding on and inure to the benefit of the respective parties and their executors, administrators, heirs, personal representative, successors and assigns.

S. Termination

The contract resulting from this Solicitation may be terminated by the City of Pompano Beach without cause upon providing contractor with at least sixty (60) days prior written notice.

Should either party fail to perform any of its obligations under the contract resulting from this Solicitation for a period of thirty (30) days after receipt of written notice of such failure, the non-defaulting part will have the right to terminate the contract immediately upon delivery of written notice to the defaulting part of its election to do so. The foregoing rights of termination are in addition to any other rights and remedies that such party may have.

T. Manner of Performance

Proposer agrees to perform its duties and obligations under the contract resulting from this Solicitation in a professional manner and in accordance with all applicable local, federal and state laws, rules and regulations.

Proposer agrees that the services provided under the contract resulting from this Solicitation shall be provided by employees that are educated, trained and experienced, certified and licensed in all areas encompassed within their designated duties. Proposer agrees to furnish the City of Pompano Beach with all documentation, certification, authorization, license, permit, or registration currently required by applicable laws or rules and regulations. Proposer further certifies that it and its employees are now in and will maintain good standing with such governmental agencies and that it and its employees will keep all license, permits, registration, authorization or certification required by applicable laws or regulations in full force and effect during the term of this contract. Failure of Proposer to comply with this paragraph shall constitute a material breach of contract.

U. Acceptance Period

Proposals submitted in response to this Solicitation must be valid for a period no less than ninety (90) days from the closing date of this solicitation.

V. Conditions and Provisions

The completed proposal (together with all required attachments) must be submitted electronically to City on or before the time and date stated herein. All Proposers, by electronic submission of a proposal, shall agree to comply with all of the conditions, requirements and instructions of this solicitation as stated or implied herein. All proposals and supporting materials submitted will become the property of the City.

Proposer's response shall not contain any alteration to the document posted other than entering data in spaces provided or including attachments as necessary. By submission of a response, Proposer affirms that a complete set of bid documents was obtained from the eBid System or from the Purchasing Division only and no alteration of any kind has been made to the solicitation. Exceptions or deviations to this proposal may not be added after the submittal date.

All Proposers are required to provide all information requested in this solicitation. Failure to do so may result in disqualification of the proposal.

The City reserves the right to postpone or cancel this solicitation, or reject all proposals, if in its sole discretion it deems it to be in the best interest of the City to do so.

The City reserves the right to waive any technical or formal errors or omissions and to reject all proposals, or to award contract for the items herein, in part or whole, if it is determined to be in the best interests of the City to do so.

The City shall not be liable for any costs incurred by the Proposer in the preparation of proposals or for any work performed in connection therein.

W. Standard Provisions1. Governing Law

Any agreement resulting from this Solicitation shall be governed by the laws of the State of Florida, and the venue for any legal action relating to such agreement will be in Broward County, Florida.

2. Licenses

In order to perform public work, the successful Proposer shall:

Be licensed to do business in Florida, if an entity, and hold or obtain such Contractor' and Business Licenses if required by State Statutes or local ordinances.

3. Conflict Of Interest

For purposes of determining any possible conflict of interest, each Proposer must disclose if any Elected Official, Appointed Official, or City Employee is also an owner, corporate officer, or an employee of the firm. If any Elected Official, Appointed Official, or City Employee is an owner, corporate officer, or an employee, the Proposer must file a statement with the Broward County Supervisor of Elections pursuant to §112.313, Florida Statutes.

4. Drug Free Workplace

The selected firm(s) will be required to verify they will operate a "Drug Free Workplace" as set forth in Florida Statute, 287.087.

5. Public Entity Crimes

A person or affiliate who has been placed on the convicted vendor list following a conviction for 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 of real property to public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, 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 Florida Statute, Section 287.017, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list.

6. Patent Fees, Royalties, And Licenses

If the selected Proposer requires or desires to use any design, trademark, device, material or process covered by letters of patent or copyright, the selected Proposer and his surety shall indemnify and hold harmless the City from any and all claims for infringement by reason of the use of any such patented design, device, trademark, copyright, material or process in connection with the work agreed to be performed and shall indemnify the City from any cost, expense, royalty or damage

which the City may be obligated to pay by reason of any infringement at any time during or after completion of the work.

7. Permits

The selected Proposer shall be responsible for obtaining all permits, licenses, certifications, etc., required by federal, state, county, and municipal laws, regulations, codes, and ordinances for the performance of the work required in these specifications and to conform to the requirements of said legislation.

8. Familiarity With Laws

It is assumed the selected firm(s) will be familiar with all federal, state and local laws, ordinances, rules and regulations that may affect its services pursuant to this Solicitation. Ignorance on the part of the firm will in no way relieve the firm from responsibility.

9. Withdrawal Of Proposals

A firm may withdraw its proposal without prejudice no later than the advertised deadline for submission of proposals by written communication to the General Services Department, 1190 N.E. 3rd Avenue, Building C, Pompano Beach, Florida 33060.

10. Composition Of Project Team

Firms are required to commit that the principals and personnel named in the proposal will perform the services throughout the contractual term unless otherwise provided for by way of a negotiated contract or written amendment to same executed by both parties. No diversion or substitution of principals or personnel will be allowed unless a written request that sets forth the qualifications and experience of the proposed replacement(s) is submitted to and approved by the City in writing.

11. Invoicing/Payment

All invoices should be sent to City of Pompano Beach, Accounts Payable, P.O. Drawer 1300, Pompano Beach, Florida, 33061. In accordance with Florida Statutes, Chapter 218, payment will be made within 45 days after receipt of a proper invoice.

12. Public Records

- a. The City of Pompano Beach is a public agency subject to Chapter 119, Florida Statutes. The Contractor shall comply with Florida's Public Records Law, as amended. Specifically, the Contractor shall:
 - i. Keep and maintain public records required by the City in order to perform the service;

- ii. Upon request from the City's custodian of public records, provide the City with a copy of requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes or as otherwise provided by law;
 - iii. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract if the Contractor does not transfer the records to the City; and
 - iv. Upon completion of the contract, transfer, at no cost to the City, all public records in possession of the Contractor, or keep and maintain public records required by the City to perform the service. If the Contractor transfers all public records to the City upon completion of the contract, the Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of the contract, the Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the City, upon request from the City's custodian of public records in a format that is compatible with the information technology systems of the City.
- b. Failure of the Contractor to provide the above described public records to the City within a reasonable time may subject Contractor to penalties under 119.10, Florida Statutes, as amended.

PUBLIC RECORDS CUSTODIAN

IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:

**CITY CLERK
100 W. Atlantic Blvd., Suite 253
Pompano Beach, Florida 33060
(954) 786-4611
RecordsCustodian@copbfl.com**

X. Questions and Communication

All questions regarding the Solicitation are to be submitted using the Questions feature in the eBid System. Questions must be received at least seven (7) calendar days before the scheduled solicitation opening. Oral and other interpretations or clarifications will be without legal effect. Addenda will be posted to the solicitation in the eBid System, and it

is the Proposer's responsibility to obtain all addenda before submitting a response to the solicitation.

Y. Addenda

The issuance of a written addendum or posting of an answer in response to a question submitted using the Questions feature in the eBid System are the only official methods whereby interpretation, clarification, or additional information can be given. If any addenda are issued to this solicitation the addendum will be issued via the eBid System. It shall be the responsibility of each Proposer, prior to submitting their response, to contact the City Purchasing Office at (954) 786-4098 to determine if addenda were issued and to make such addenda a part of their proposal. Addenda will be posted to the solicitation in the eBid System.

Z. Contractor Performance Report

The City will utilize the Contractor Performance Report to monitor and record the successful proposer's performance for the work specified by the contract. The Contractor Performance Report has been included as an exhibit to this solicitation.

COMPLETE THE PROPOSER INFORMATION FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE THE FORM IN ITS ENTIRITY AND INCLUDE THE COMPLETED FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.

PROPOSER INFORMATION PAGE

_____, _____
(number) (Title)

To: The City of Pompano Beach, Florida

The below named company hereby agrees to furnish the proposed services under the terms stated subject to all instructions, terms, conditions, specifications, addenda, legal advertisement, and conditions contained in the solicitation. I have read the solicitation and all attachments, including the specifications, and fully understand what is required. By submitting this proposal, I will accept a contract if approved by the City and such acceptance covers all terms, conditions, and specifications of this proposal.

Proposal submitted by:

Name (printed) _____ Title _____

Company (Legal Registered) _____

Federal Tax Identification Number _____

Address _____

City/State/Zip _____

Telephone No. _____ Fax No. _____

Email Address _____

COMPLETE THE PROJECT TEAM FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE FORM IN ITS ENTIRITY AND INCLUDE THE FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.

PROJECT TEAM

SOLICITATION NUMBER _____

Federal I.D.# _____

PRIME

Role	Name of Individual Assigned to Project	Number of Years Experience	Education, Degrees
Principal-In-Charge	_____	_____	_____
Project Manager	_____	_____	_____
Asst. Project Manager	_____	_____	_____
Other Key Member	_____	_____	_____
Other Key Member	_____	_____	_____

SUB-CONSULTANT

Role	Company Name and Address of Office Handling This Project	Name of Individual Assigned to the Project
Surveying	_____	_____
Landscaping	_____	_____
Engineering	_____	_____
Other Key Member	_____	_____
Other Key Member	_____	_____
Other Key Member	_____	_____

(use attachments if necessary)

COMPLETE THE PROPOSER INFORMATION FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE THE FORM IN ITS ENTIRETY AND INCLUDE THE COMPLETED FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.

VENDOR CERTIFICATION REGARDING SCRUTINIZED COMPANIES LISTS

Respondent Vendor Name: _____

Vendor FEIN: _____

Section 287.135, Florida Statutes, prohibits agencies from contracting with companies, for goods or services over \$1,000,000, that are on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List. Further, Section 215.4725, Florida Statutes, prohibits agencies from contracting (at any dollar amount) with companies on the Scrutinized Companies that Boycott Israel List, or with companies that are engaged in a boycott of Israel. As the person authorized to sign electronically on behalf of Respondent, I hereby certify by selecting the box below that the company responding to this solicitation is not listed on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List. I also certify that the company responding to this solicitation is not participating in a boycott of Israel, and is not engaged in business operations in Syria or Cuba. I understand that pursuant to sections 287.135 and 215.4725, Florida Statutes, the submission of a false certification may subject company to civil penalties, attorney's fees, and/or costs.

I Certify

Exhibit – Contractor Performance Report

CATEGORY	RATING	COMMENTS
1. Quality Assurance/Quality Control - Product/Services of high quality - Proper oversight - Communication	Poor =1 Satisfactory =2 Excellent =3	
2. Record Keeping -Accurate record keeping -Proper invoicing -Testing results complete	Poor =1 Satisfactory =2 Excellent =3	
3. Close-Out Activities - Restoration/Cleanup - Deliverables met - Punch list items addressed	Poor =1 Satisfactory =2 Excellent =3	
4. Customer Service - City Personnel and Residents - Response time - Communication	Poor =1 Satisfactory =2 Excellent =3	
5. Cost Control - Monitoring subcontractors - Change-orders - Meeting budget	Poor =1 Satisfactory =2 Excellent =3	
6. Construction Schedule - Adherence to schedule - Time-extensions - Efficient use of resources	Poor =1 Satisfactory =2 Excellent =3	
SCORE	_____	ADD ABOVE RATINGS/DIVIDE TOTAL BY NUMBER OF CATEGORIES BEING RATED

RATINGS

Poor Performance (1.0 – 1.59): Marginally responsive, effective and/or efficient; delays require significant adjustments to programs; key employees marginally capable; customers somewhat satisfied.

Satisfactory Performance (1.6 – 2.59): Generally responsive, effective and/or efficient; delays are excusable and/or results in minor program adjustments; employees are capable and satisfactorily providing service without intervention; customers indicate satisfaction.

Excellent Performance (2.6 – 3.0): Immediately responsive; highly efficient and/or effective; no delays; key employees are experts and require minimal direction; customers expectations are exceeded.

City of Pompano Beach Florida

Local Business Subcontractor Utilization Report

Project Name (1)		Contract Number and Work Order Number (if applicable) (2)	
Report Number (3)	Reporting Period (4) to	Local Business Contract Goal (5)	Estimated Contract Completion Date (6)
Contractor Name (7)		Contractor Telephone Number (8) () -	Contractor Email Address (9)
Contractor Street Address (10)	Project Manager Name (11)	Project Manager Telephone Number (12) () -	Project Manager Email Address (13)

Local Business Payment Report						
Federal Identification Number (14)	Local Subcontractor Business Name (15)	Description of Work (16)	Project Amount (17)	Amount Paid this Reporting Period (18)	Invoice Number (19)	Total Paid to Date (20)
Total Paid to Date for All Local Business Subcontractors (21) \$						0.00

I certify that the above information is true to the best of my knowledge.

Contractor Name – Authorized Personnel (print) (22)	Contractor Name – Authorized Personnel (sign) (23)	Title (24)	Date (25)
---	--	------------	-----------

Local Business Subcontractor Utilization Report Instructions

- Box (1) Project Name** – Enter the entire name of the project.
- Box (2) Contract Number (work order)** – Enter the contract number and the work order number, if applicable (i.e., 4600001234, and if work order contract include work order number – 4600000568 WO 01).
- Box (3) Report Number** - Enter the Local Business Subcontractor Utilization Report number. Reports must be in a numerical series (i.e., 1, 2, 3).
- Box (4) Reporting Period** - Enter the beginning and end dates this report covers (i.e., 10/01/2016 – 11/01/2016).
- Box (5) Local Contract Goal** - Enter the Local Contract Goal percentage on entire contract.
- Box (6) Contract Completion Date** - Enter the expiration date of the contract, (not work the order).
- Box (7) Contractor Name** - Enter the complete legal business name of the Prime Contractor.
- Box (8) Contractor Telephone Number** - Enter the telephone number of the Prime Contractor.
- Box (9) Contractor Email Address** - Enter the email address of the Prime Contractor.
- Box (10) Contractor Street Address** – Enter the mailing address of the Prime Contractor.
- Box (11) Project Manager Name** - Enter the name of the Project Manager for the Prime Contractor on the project.
- Box (12) Project Manager Telephone Number** – Enter the direct telephone number of the Prime Contractor's Project Manager.
- Box (13) Project Manager Email Address** – Enter the email address of the Prime Contractor's Project Manager.
- Box (14) Federal Identification Number** – Enter the federal identification number of the Local Subcontractor(s).
- Box (15) Local Subcontractor Business Name** – Enter the complete legal business name of the Local Subcontractor(s).
- Box (16) Description of Work** – Enter the type of work being performed by the Local Subcontractor(s) (i.e., electrical services).
- Box (17) Project Amount** – Enter the dollar amount allocated to the Local Subcontractor(s) for the entire project (i.e., amount in the subcontract agreement).

- Box (18) Amount Paid this Reporting Period** – Enter the total amount paid to the Local Subcontractor(s) during the reporting period.
- Box (19) Invoice Number** – Enter the Local Subcontractor's invoice number related to the payment reported this period.
- Box (20) Total Paid to Date** – Enter the total amount paid to the Local Subcontractor(s) to date.
- Box (21) Total Paid to Date for All Local Subcontractor(s)** – Enter the total dollar amount paid to date to all Local Subcontractors listed on the report.
- Box (22) Contractor Name Authorized Personnel (print)** – Print the name of the employee that is authorized to execute the Local Subcontractor Utilization Report.
- Box (23) Contractor Name Authorized Personnel (sign)** – Signature of authorized employee to execute the Local Subcontractor Utilization Report.
- Box (24) Title** – Enter the title of authorized employee completing the Local Subcontractor Utilization Report.
- Box (25) Date** – Enter the date of submission of the Local Subcontractor Utilization Report to the City.

LOCAL BUSINESS EXHIBIT "C"
LOCAL BUSINESS UNAVAILABILITY FORM

Solicitation # _____

I, _____
(Name and Title)

of _____, certify that on the _____ day of

_____, _____, I invited the following LOCAL BUSINESS(s) to bid work
(Month) (Year)

items to be performed in the City of Pompano Beach:

Business Name, Address	Work Items Sought	Form of Bid Sought (i.e., Unit Price, Materials/Labor, Labor Only, etc.)
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Said Local Businesses:

- ___ Did not bid in response to the invitation
- ___ Submitted a bid which was not the low responsible bid
- ___ Other: _____

Name and Title: _____

Date: _____

Note: Attach additional documents as available.

LOCAL BUSINESS EXHIBIT "C"

LOCAL BUSINESS EXHIBIT "D"
GOOD FAITH EFFORT REPORT LOCAL BUSINESS PARTICIPATION

Solicitation # _____

1. What portions of the contract have you identified as Local Business opportunities?

2. Did you provide adequate information to identified Local Businesses? Please comment on how you provided this information.

3. Did you send written notices to Local Businesses?

___ Yes ___ No

If yes, please include copy of the notice and the list of individuals who were forwarded copies of the notices.

4. Did you advertise in local publications?

___ Yes ___ No

If yes, please attach copies of the ads, including name and dates of publication.

5. What type of efforts did you make to assist Local Businesses in contracting with you ?

7. List the Local Businesses you will utilize and subcontract amount.

_____	\$ _____
_____	\$ _____
_____	\$ _____

8. Other comments: _____

LOCAL BUSINESS EXHIBIT "D"

Request for Qualifications (RFQ) E-20-20 CONTINUING CONTRACT FOR CIVIL ENGINEERING SERVICES FOR VARIOUS CITY PROJECTS

July 30, 2020



Contact: Jason McClair, P.E., CFM, LEED AP

Project Manager
Telephone: +1 (954) 730-0707, Ext. 1003
Fax: +1 (954) 730-2030
jmcclair@chenmoore.com

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



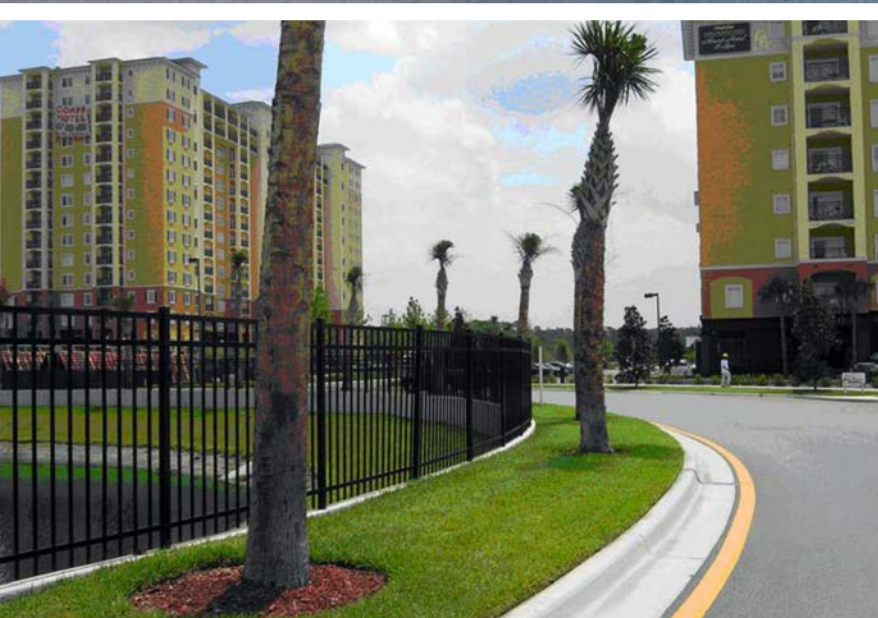
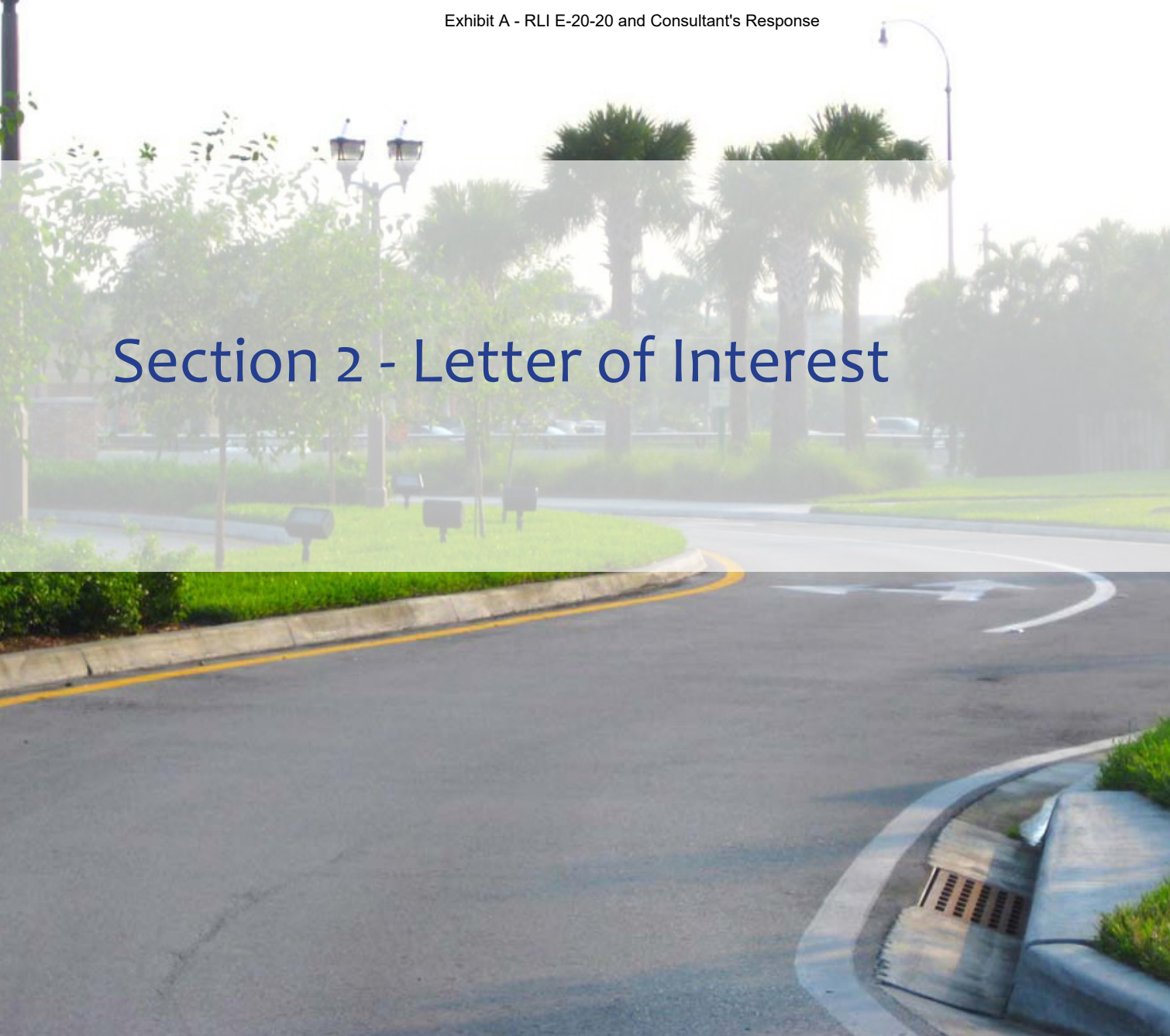
Section 1 - Table of Contents



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Section 2 - Letter of Interest



CHEN MOORE AND ASSOCIATES

**Request for Qualifications (RFQ) E-20-20
CONTINUING CONTRACT FOR CIVIL ENGINEERING
SERVICES FOR VARIOUS CITY PROJECTS**

500 West Cypress Creek Road, Suite 630
 Fort Lauderdale, FL 33309
 Office: +1 (954) 730-0707



2. Letter of Interest

July 30, 2020

Purchasing Office

1190 N.E. 3rd Avenue, Building C (Front)

Pompano Beach, Florida 33060

Re: E-20-20 CONTINUING CONTRACT FOR CIVIL ENGINEERING SERVICES FOR VARIOUS CITY PROJECTS

Dear Selection Committee,

Chen Moore and Associates (CMA) is grateful for the opportunity to submit our response for civil engineering for various city projects. CMA is a civil engineering and landscape architecture firm founded in 1986 and headquartered in Broward County with five offices throughout Florida. The firm has extensive prior project experience for the City of Pompano Beach along with municipalities throughout South Florida, which have included water mains, reclaimed water mains, gravity sewer, force mains, lift stations, drainage, roadways, streetscaping, parking lots, parks, and recreational facilities.

Chen Moore and Associates has worked for the City of Pompano Beach since 2003 on various civil engineering projects, which include the Old Pompano Infrastructure Improvement Project, the Avondale Stormwater Improvements Project, and the City's Stormwater Master Plan. In addition to these recent projects, we have also completed numerous projects for the City, including water main replacements, reclaimed water main installation, gravity sewer installation, emergency force main repairs, and rehabilitation for several sanitary lift stations. In addition, we have worked on numerous neighborhood improvement projects that are highlighted in this proposal. CMA has assembled a team of highly specialized staff and subconsultants that will meet or exceed the City's needs for this continuing services contract. We are committing **Jason McClair, P.E., CFM, LEED AP** as the primary contact and Project Manager to ensure the delivery of a successful project. Mr. McClair has over 24 years of professional experience in the planning, design, permitting, and implementation of infrastructure improvement projects throughout South Florida with a specialization in working for public clients. He has previously served as the engineer of record on the Avondale Stormwater Improvement Project and the Old Pompano Infrastructure Improvement Project for the City of Pompano Beach along with multiple other projects. The CMA Team includes a Deputy Project Manager, **Jennifer Smith, P.E.** who has over a decade of previous experience working with City of Pompano Beach staff on previous projects throughout the City and will be responsible for assisting with any stormwater improvement projects and lift station rehabilitation projects under this contract. The CMA Team also includes a Deputy Project Manager, **Daniel Davila, P.E.** who has previous experience working with City of Pompano Beach staff on utility improvements and will be responsible for assisting with any utility improvement projects and site development projects under this contract.

Our subconsultants are as follows: **The Chappell Group, Inc.** (environmental engineering), **C&W Engineering** (electrical engineering), **Pan Geo Consultants, LLC** (geotechnical engineering), **Stoner and Associates, Inc.** (surveying and subsurface utility engineering), **MUEngineers Inc.** (structural engineering), and **Cummins Cederberg** (coastal engineering). Our proposed team has worked together on multiple projects. Lastly, CMA has included a subconsultant that is a local City of Pompano Beach business, estimating more than 5% of the work designated for such businesses.

Due to our prior experience with working for the City of Pompano Beach along with our familiarity with the City's existing infrastructure systems, CMA can successfully deliver any of the various public infrastructure projects expected to be completed under this continuing service contract. Each member of the CMA team is committed to providing the City of Pompano Beach with responsive professional services. We are looking forward to the opportunity to present our qualifications and approach to this project in more detail to the selection committee.

Corporate Name Firm: Chen Moore and Associates

Federal Tax Identification No.: 59-2739866

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

Phone: +1 (954) 730-0707, Extension 1003

Fax: +1 (954) 730-2030

Name(s) of the person(s) who will be authorized to make representations for the Proposer: Jason McClair, P.E., CFM, LEED AP – Vice President – jmclair@chenmoore.com

Peter Moore, P.E., F.ASCE, ENV SP, LEED AP – President – pmoore@chenmoore.com

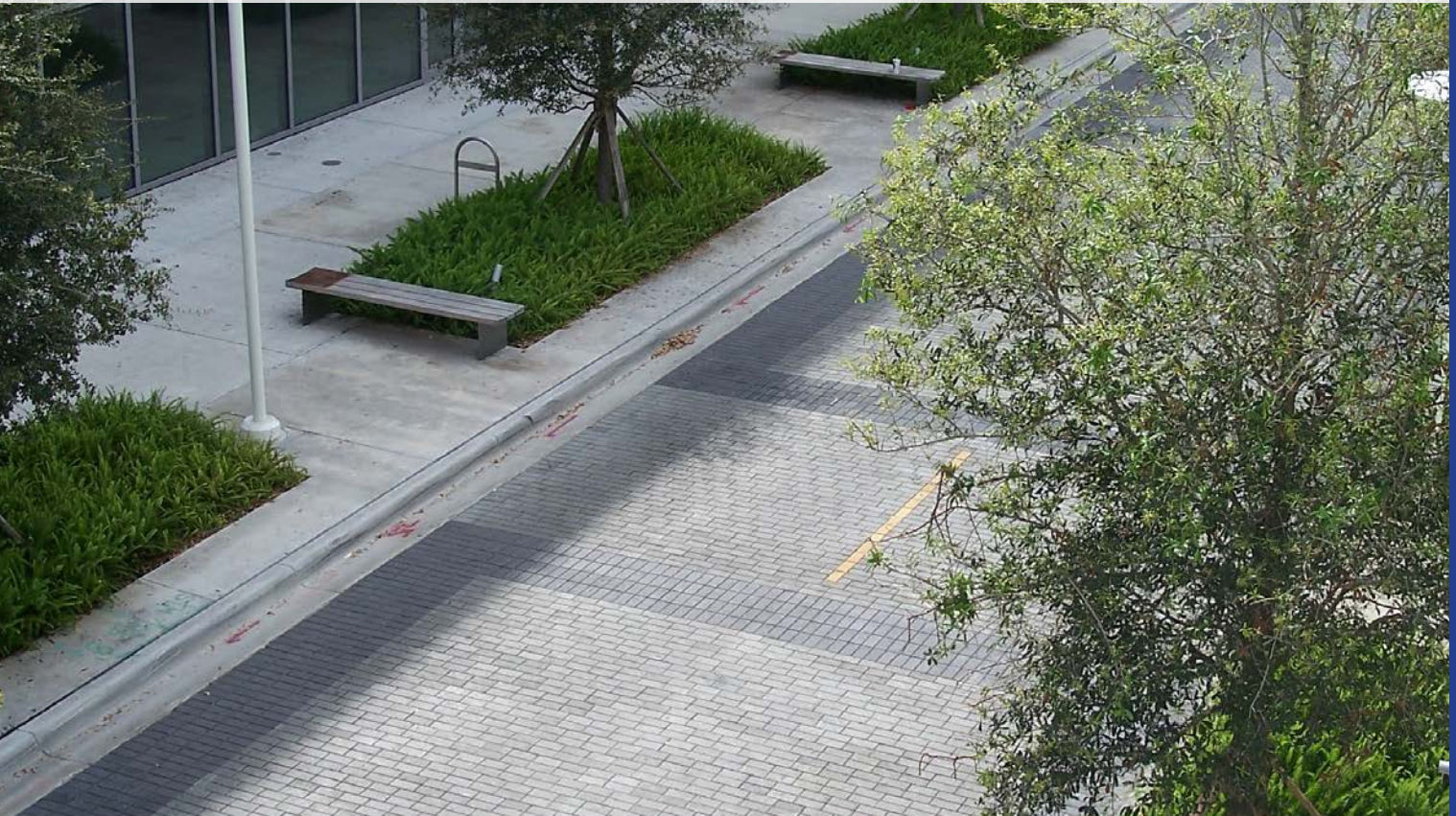
Respectfully submitted,

A handwritten signature in blue ink, appearing to be 'P. Moore', with a long horizontal stroke extending to the right.

CHEN MOORE AND ASSOCIATES

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

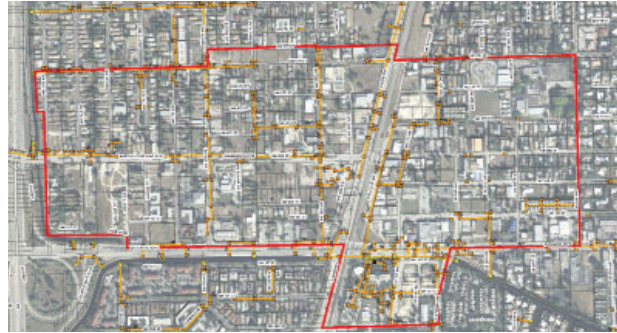
Section 3 - Technical Approach



TECHNICAL APPROACH

Understanding of the Scope of Work

Chen Moore and Associates has extensive past project experience in providing civil engineering services to municipal clients throughout South Florida under continuing services contracts. According to the Request for Qualifications, the various City projects to potentially be completed under this continuing services contract includes the implementation of infrastructure improvements related to roadways, streetscaping, parking, water mains, reuse water mains, gravity sewer mains, sanitary force mains, lift stations, stormwater drainage, public parks, recreational facilities, seawalls, and canal dredging. CMA has successfully completed the planning, design, permitting, and construction of public infrastructure projects of varying sizes throughout South Florida.



In fact, the bulk of our past project experience has focused on infrastructure improvement projects for various municipalities throughout the South Florida area, including for the City of Pompano Beach. Due to our extensive prior project experience working for the City of Pompano Beach, we already have a detailed understanding of the public infrastructure located throughout the City. Our past project experience has allowed Chen Moore and Associates develop a consistent approach for the planning, design, permitting, and construction of public infrastructure improvement projects within existing neighborhoods.

Technical Approach

CMA has been serving municipal clients throughout South Florida since 1986. During that time, we have developed proven, efficient and cost-effective methods to deliver projects to our clients on time and within budget. Using a detail-oriented approach, we work as a trusted advisor familiar with the technical and regulatory aspects of a project and in consideration of all stakeholders involved. This approach has proven time and again to deliver successful projects. We ensure that our clients remain well informed throughout the process with frequent communication and regular project updates. With a commitment to responsiveness, we ensure that our staff is accessible to handle any client needs that arise throughout the project.

Chen Moore and Associates is familiar with the engineering requirements of all types of public infrastructure improvements during all project phases, which include conceptual planning, detailed design, regulatory permitting, bidding services, construction administration, and project closeout. During the completion of our past projects, CMA has extensive experience with the following tasks related to public infrastructure improvement projects:

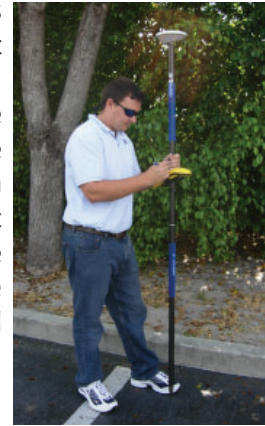
- Roadway, Streetscape, and Parking Lot Projects
- Water Main Projects
- Reuse Water Main Projects
- Gravity Sewer Main Projects
- Force Main Projects
- Lift Station and Pump Station Rehabilitation Projects
- Emergency Utility Repairs
- Stormwater Drainage Projects
- Parks and Recreational Facilities Projects
- Seawall and Dock Repairs
- Canal and Lake Dredging
- Demolition Projects

The engineering requirements for these public infrastructure projects typically include multiple phases for the completion of engineering tasks, such as site investigation, conceptual planning, detailed design, regulatory permitting, and construction administration. Our proven approach is enhanced for the City of Pompano Beach, where the public and elected officials are heavily involved both during the design and construction phases. At CMA, we understand that for each project that includes public expenditures the City needs to provide their residents and stakeholders with a product that responds to their interests and concerns and provides consistency with the vision and past planning efforts of the City Commission and Staff. Our approach to every project provides a consistent, reliable product but is also flexible to meet any ongoing changes as stakeholders participate in the design process. The following description details the approach our Team will utilize for the successful completion of the City's projects.

Design Phase Services

Project Planning and Scoping

CMA takes pride in delivering successful public infrastructure projects to our clients that exceed their expectations. To ensure all of our client's goals for each project are successfully accomplished, we first verify our client's vision for the completed infrastructure project. Paramount to completing a successful public infrastructure project on time and within budget is to clearly define the scope and goals of the current project with the relevant staff from the start. Our project manager, Mr. Jason McClair, P.E., CFM, LEED AP, will meet with the City staff to review the existing project area and establish the City's vision for the finished project. During this meeting, we will seek maximum input from all appropriate City staff before beginning the scope development. During the development of the scope for each project, CMA will confirm the following factors that will be confirmed with City staff:



- Project goals, timeline and budget
- Any unique characteristics and considerations (historic or landmark designations, logged complaints, reported maintenance issues, etc.)
- Existing available information (available utility atlases, as-builts, operating reports, etc.)
- Additional information that will need to be obtained (survey, geotechnical studies, traffic studies, etc.)
- Potential impacts of construction (parking, emergency access and vehicular flow; pedestrian routes; existing utilities; etc.)
- Project stakeholders (affected residents, neighborhood associations, local businesses, etc.)
- Regulatory authorities having jurisdiction and permitting agencies
- Project funding
- 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. In the undertaking of any project, CMA understands the need to provide innovative and sustainable solutions on time and within budget.

Site Investigation

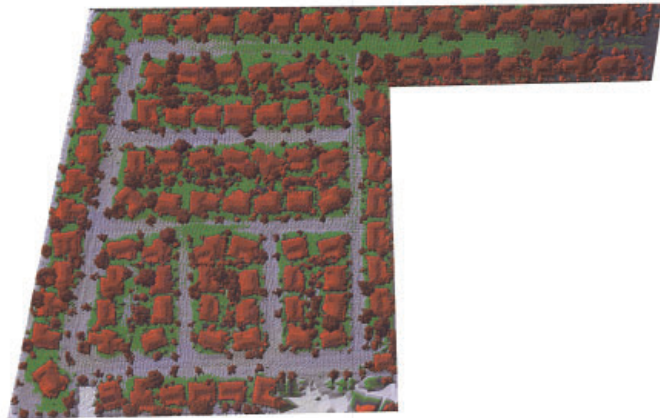
Chen Moore and Associates will begin the design phase with a thorough review of the existing infrastructure facilities throughout the project area. This work can begin before the completion of the topographic survey for the project by compiling all available Geographic Information Systems (GIS) data on the existing conditions related to the project area. Data is available from multiple sources including the City of Pompano Beach, Broward County, Florida Department of Transportation, South Florida Water Management District, and Florida Department of Environmental Protection. Due to past project experience for the City of Pompano Beach, Chen Moore and Associates has already gathered much of the relevant GIS data from these entities, which will lead to better efficiency than other consultants at the initial stages of the project. The available data to be gathered during the site investigation for each project includes:

Parcel GIS Layer - CMA will utilize existing available GIS parcel data to obtain existing property / parcel data. Parcel data from the Property Appraiser's Office is very powerful because it can be used for multiple purposes in the planning of various project components. This data will be used to identify any additional land rights that may need to be acquired, depending upon the final route of the any infrastructure improvements. This data is also especially useful during detailed design and construction for tracking stakeholder concerns. Additional easement records for relevant parcels can also be obtained in cooperation with our survey subconsultant. CMA has already gathered the relevant parcel data for the City limits during the completion of the City's Stormwater Master Plan Project.

Utility Atlas / "As-Built" Drawings - CMA will review and analyze all existing utility atlases and "as-built" drawings to determine the configuration of the existing underground infrastructure within the project area. CMA already has the most recent version of the City's GIS Geodatabase, which includes all existing City facilities throughout the City limits. CMA request a locate design ticket with Sunshine One Call to confirm the existing utility providers within the project area. A plan with the project limits and key geographic features will be sent out to each utility provider within the project so they can provide the general location and alignment of their existing utilities. CMA will digitize these other utilities within the project area to identify major obstacles to the proposed improvements. Once the topographic survey is completed for the project area, these existing utilities will be incorporated into the design plans with Autodesk Civil 3D.

Aerial Photographs - CMA will review existing aerial photographs for each project area and note the proximity of various features, such as existing utility poles, existing above ground utilities, existing vaults, existing traffic control, existing landscaping/trees, and adjacent private property encroachments (privacy walls, fencing, landscaping planters, stairs, mailboxes, building overhangs, or specialty driveways). The most recent aerials can be used to identify and coordinate above ground conflicts and encroachments with the proposed infrastructure improvements. CMA has already gathered the most recent aerial photographs for the project area during the completion of the City's Stormwater Master Plan Project.

LiDAR Elevation Data - This elevation data can be used to confirm the ground surface elevations within and outside of the project area. CMA typically uses this data to conduct preliminary analysis before the topographic survey is completed for the project area. Since the topographic survey is typically limited to the public right-of-way areas within the project limits, the LiDAR elevation data can used to incorporate the ground surface elevations from private property areas adjacent to the project limits. The LiDAR elevation is typically incorporated into the backup documentation required for regulatory permitting. CMA has already gathered the LiDAR elevation data for the City limits during the completion of the City's Stormwater Master Plan Project.



Soils Information - Various relevant information is available for the project area within the appropriate Soil Survey Maps. The hydrologic soil groups within the project area can be used to confirm the local soils with each project area. The presence of rock layers can be confirmed to determine whether there will be any impact on the excavation operations during the installation of the proposed underground utilities. CMA has already gathered available soils information for the City limits during the completion of the City's

Stormwater Master Plan Project. CMA will retain a geotechnical engineering subconsultant to obtain site specific soil information for use during the design stage.

Canal Level and Groundwater Level Information – CMA shall confirm the approximate elevation of any surface waters or groundwater within the project area, which are available from maps published by South Florida Water Management District and Broward County. The depth of the groundwater from the existing ground surface can impact the excavation operations during the installation of the proposed underground utilities. This water level data is also typically incorporated into the stormwater modeling required for the permitting of the stormwater improvements. CMA has already gathered available groundwater and canal level data for the City limits from Broward County and SFWMD during the completion of the City's Stormwater Master Plan Project.

Hazardous Materials and Environmental investigations – CMA shall investigate and confirm the presence of any existing contaminated sites within a quarter of a mile or less from the project area. The presence of a contaminated site nearby a project will require special permitting and provisions for construction of the public infrastructure in those areas. CMA has already gathered available contaminated site data from FDEP for the City limits during the completion of the City's Stormwater Master Plan Project.

Maintenance Records – Any available maintenance records will be reviewed to confirm the conditions of the existing infrastructure within the project area. CMA has already gathered available maintenance information from City staff for the project area during the completion of the City's Stormwater Master Plan Project. However, any other records compiled since will be helpful in understanding the conditions of the existing system with each project area.

Existing Permits – CMA will gather any existing regulatory permits for any public infrastructure within the project area. The sanitary sewer permits can be used to confirm the flow and pressure conditions within the system. The surface water permits can be used to confirm the peak allowable discharge of any existing stormwater outfalls and to verify the presence of any water quality treatment components within the project area. CMA has already gathered existing regulatory permits for the project area from SFWMD and Broward County EPGM during the completion of the City's Stormwater Master Plan Project.

Project Site Visit – In addition to reviewing existing available information, CMA 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 provide an efficient and cost-effective conditions analysis of the project area. Additional information that is typically requested includes additional survey data and site-specific geotechnical information, which would be provided by our subconsultants.

Stakeholder Input – In the City, obtaining stakeholder input is critical to the success of any project. It is important that stakeholders are strategically engaged early in the process. CMA will meet with the City's staff, regulatory agencies, residents, neighborhood associations, business owners, neighboring municipalities and other interested parties as necessary to make sure the expectations are understood by each party involved in the project. Meetings with all parties external to the City will be coordinated with the City's project manager. We understand that working with neighborhood associations is a critical step in building the consensus to push a project forward. CMA will coordinate with the City's staff to meet with stakeholders early and often until clear project expectations have been agreed upon.



City Commission Coordination – We understand that for project that may change the built environment within the public right-of-way, a presentation to the City Commission can be beneficial. At CMA we have learned that early engagement with Commission Members in one-on-one meetings facilitated by City Staff can provide the foundation for project success.

Concurrently with the system review for the project area, CMA will retain subconsultants to obtain site specific data on the project area which is necessary to design the public infrastructure improvements. The site investigation by our subconsultants will include the following tasks of each project:

Topographic Survey - CMA will retain a licensed surveyor to conduct a topographic survey of the project limits. The extents of the topographic survey will include all public right-of-way areas within the project area along with any properties where infrastructure facilities will be located. The topographic survey will need to locate all existing utility infrastructure within the project area to ensure potential conflicts between the proposed improvements and the existing utility infrastructure are avoided. **Stoner and Associates, Inc.** is on our team to complete the topographic survey for this project. **Stoner and Associates, Inc.** is very familiar with the City's infrastructure due to extensive past work throughout the City.

Geotechnical Investigation – CMA will retain a geotechnical engineering firm to conduct a geotechnical investigation of the subsurface soils within the project area. The geotechnical investigation will include exfiltration tests to measure the permeability of subsurface soils to be used for the design of any exfiltration trench systems, double ring infiltration tests to measure the permeability of surface soils to be used for the design of any dry retention area and swales, and SPT soil borings to estimate the soil bearing capacity to be used during the design of any structural elements. PanGeo Inc. is on our team to complete the geotechnical investigation for this project. PanGeo Inc. is very familiar with the soil conditions within the project area due to extensive past work throughout the City.

Subsurface Utility Engineering - CMA will retain a Subsurface Utility Engineering (SUE) firm to conduct utility testholes of the existing underground utility infrastructure throughout the project area. The utility testholes will need to locate existing underground utility infrastructure within the project area to ensure potential conflicts between the proposed improvements and the existing utility infrastructure are avoided. **Stoner & Associates, Inc.** is on our team to complete the necessary utility testholes for this project.

Conceptual Planning

Based on our analysis with various computer modeling software, CMA will develop conceptual layouts of the proposed improvements within the project area. CMA will develop the conceptual layouts within GIS to ensure it is integrated with the utility atlas of the existing underground infrastructure within the project area. The conceptual layout process can be done quickly with the available GIS tools. The resulting electronic format will allow for the analysis of various layout alternatives prior to the selection of the most effective layout for the proposed system. The conceptual layout of the proposed improvements is useful for identifying potential underground conflicts prior to proceeding with detailed design. CMA will use the selected conceptual layout to develop a preliminary cost estimate of the proposed improvements to ensure the recommended improvements are within the City's project budget prior with proceeding to detailed design. CMA will submit a Basis of Design Report (BODR) to outline the findings of our additional modeling analysis, the City's options for implementing the proposed improvements, the estimated construction costs for each option, and permitting impacts under each option. CMA will meet with City staff to review the BODR and select the best conceptual layout for the proposed improvements within each project area



Figure 4-1
Prioritization of Repairs

Detailed Design

Upon final review and analysis of the BODR with the City, CMA will review the selected alternative with City staff to identify the project goals that need to be met in regards to project budget and project schedule. CMA will review any concerns with City staff and answer any questions raised by the City, in order to incorporate City input into the identification of the best solution to achieve the project goals. Based on these project goals, CMA will develop a preliminary design to be presented to the City of Pompano Beach along with an estimated project budget, a time line to complete the project, and an achieved level-of-service goal.

In addition, CMA will identify the constraints on the selected layout. Once the best design is established, CMA will commence with the development of proposed project plans and bidding documents needed to construct the proposed project. Having worked with public clients for over 30 years, CMA has a proven ability to accurately and expeditiously handle the project delivery method of a public client, most of which are quite similar, as most procurement is part of State statutes.

While general layout of the proposed infrastructure improvements will be determined during the conceptual planning phase, this detailed design phase will define the actual implementation of the proposed improvements during the construction phase. CMA has extensive experience in the design of public infrastructure for municipalities and utilities throughout South Florida. Our engineers have the experience to address the more important utility issues and work to recommend and prioritize phasing for potential improvements. Whether it is improving the existing infrastructure or replacing the existing infrastructure, CMA can assist in each one of these design needs with years of experience and proven results.

Final construction plans will be produced by combining the data gathered during the site investigation, modeling analysis, and conceptual planning phases. As part of the project design, CMA utilizes the latest available software to develop construction documents. The CMA team typically implements the latest versions of AutoCAD, AutoCAD Civil 3D, GIS and Microsoft Office programs to develop construction plans and contract documents. CMA engineering staff will rigorously examine the plans to address any conflicts with existing utilities, provided all necessary construction details, and address regulatory requirements noted during permitting. The plans will be reviewed continuously for contractibility and efficiency of design. The City will have opportunities to provide comment during each of the progress submittal at the 30%, 60%, 90%, and final completion milestones. Each progress submittal will include engineering plans, technical specifications, and cost estimates.

Another important part of the project design is the project cost estimate. As previously mentioned, CMA uses two main methods for determining accurate unit prices in order to arrive at an accurate cost estimate. The first method is to consult with the construction management staff to determine the current bidding climate. The second method is to consult with other public sources, such as various municipal and county purchasing websites, to follow patterns in the bidding of other similar projects. CMA will also review the unit costs from recent bid submittals on other drainage improvement projects for other municipalities.

Coordination is another aspect of the project that will start at the very beginning. Through experience, CMA has learned that a project can only be successful when open lines of communication exist between the CMA and the City, the public, various agencies, services, and other consultants. Only by working together can every stakeholder feel that their individual experience contributed to the successful completion of the project. When a project commences, the Chen Moore Project Manager establishes communication with the City through regular phone and email correspondence. We pride ourselves on being very responsive to our clients. This practice is continued through the duration of the project in order to ensure a successful project. Our project managers' have experience leading project progress meetings, briefing elected officials, participating in construction meetings, meeting with regulatory agencies and speaking at public meetings involving citizens and residents. CMA is also available to attend City Commission meetings upon request.

Utility Infrastructure Design

The design of underground water and sewer utilities is a part of the foundational skillset of CMA. As demonstrated by our prior performance as a design consultant for municipalities throughout South Florida, CMA is a consultant of choice for the design of water main, reuse water main, force main, gravity sewer, and lift stations in Broward County. Our engineers have the experience to address the more important utility issues and work to recommend and prioritize phasing for potential improvements. The City faces unique characteristics that need to be considered during utility design and construction such as high ground water, saline groundwater, aging infrastructure, small right-of-ways, and private encroachments. CMA is experienced in alternative utility installation methods to address some of these concerns such as horizontal directional drilling, pipe bursting, swagelining, tremie lift station installation, and pipeline rehabilitation.

CMA is familiar with the City's utility details and has assisted the City in modifications to these standards as construction practices are refined. We work continuously with City staff to revise designs according to feedback from operations and maintenance. It is also important to understand the impacts to residents



and business owners from utility construction. While these items may not have as big of a footprint as the roadway and drainage improvements, service interruptions to water and sewer customers can have a detrimental effect on households and businesses. CMA will work with City staff during the design to understand the isolation capabilities of the existing system and ensure that the design has the least impact for the best value. This may be achieved through temporary fixtures such as line stops or bypass that can allow service to continue while the existing system is being repaired or replaced. CMA understands the various options available to accommodate the residents during construction, and can provide these solutions to the City, with the associated cost impacts, so they can make an informed decision on the best way to proceed for a particular project area.

Stormwater Infrastructure Design

Stormwater management within the City is complex and unique. This RFQ includes several areas where consultants will need to provide the City with outstanding stormwater engineering services—beyond the usual menu involved in civil engineering projects for other municipalities. The City is vulnerable to numerous stormwater issues (flooding, changing regulations, coastal issues, storm surge, sea level rise, etc.) and CMA fully understands what critical assets are on the line and the high level of expected service. CMA is prepared to provide a complete stormwater team that is well versed in these issues and can plan infrastructure improvements that will incorporate the future needs of the City.



Stormwater systems will be designed with upcoming regulations in mind and will strictly adhere to the high level of service the City must always provide. Many of the anticipated stormwater regulations will likely encourage more aesthetic approaches to management and low impact development. These newer approaches also address current and upcoming regulatory constraints more thoroughly and qualify for matching grant funds more readily. Infrastructure must also operate reliably and be easy to maintain. CMA is prepared to respond to all of these needs from project inception through development of an Operations and Maintenance Plan developed hand-in-hand with City staff. Due to our local presence, CMA is particularly sensitive to the requirements of designing these systems for the City.

CMA has experience with various municipalities in the design of stormwater system improvements. The system will first be analyzed during a site visit to determine if flooding issues exist, evaluate the condition of the underground system as evidenced by above ground failures, and identify other conditions that may affect project design. If the system appears to be a good candidate for rehabilitation through lining, the system will be analyzed in more detail through television inspection. If a liner is used, the type will be determined depending on the constraints of the project area including pipe access, pipe condition and traffic control. CMA is familiar with multiple lining companies and keeps abreast of the latest technologies in trenchless pipe rehabilitation. If it is determined that the condition of the system or the above ground facilities warrant replacement, a new stormwater system will be designed. CMA can assist the City in determining if any stormwater replacement projects can be combined with water or sewer improvement projects to reduce overall cost and disruption to the public. CMA is experienced with the design, permitting and construction of stormwater systems in both existing residential and business districts, and will always incorporate considerations of the community throughout the project process.

CMA offers the following unique advantages in addressing emerging stormwater issues within the City of Pompano Beach:

Knowledge of the City's Stormwater System

Due to our work on the City's Stormwater Master Plan Project, CMA has an extensive knowledge of the City's stormwater management systems along with the portions of the City with historical flooding problems, which were identified as Priority Neighborhoods with the Stormwater Master Plan. CMA developed the conceptual plans for the proposed stormwater improvements within each of these Priority Neighborhoods. CMA's knowledge of the City's specific needs for stormwater improvements will provide a clear understanding of the City's goals for any stormwater improvement project to be implemented under this contract.

Sea Level Rise Experience

CMA has recent and highly relevant experience with stormwater retrofits in coastal environments through our work with the City of Pompano Beach, City of Fort Lauderdale, the City of Hollywood, the City of Dania Beach, the City of Miami Beach, and Fort Lauderdale-Hollywood International Airport. CMA recently earned the 2018 Project of the Year Award from the Florida Section of the American Society of Civil Engineers for the Sunset Islands Stormwater Project in Miami Beach. This project included sea level rise retrofitting of infrastructure such as the raising of roads and construction of stormwater pump stations. This work required CMA to deal with tidal issues in a densely populated residential neighborhood with high property values.

CMA is also a key part of the delivery team preparing a Vulnerability Assessment for the Southeast Palm Beach County Coastal Resilience Partnership. As part of this effort, CMA is reviewing spatial data for critical infrastructure, municipal facilities and community assets in comparison with projected threats from climate change such as sea level rise, drought, saltwater intrusion and nuisance flooding. This effort is being performed for the Coastal Resilience Partnership member communities which include: Boca Raton, Boynton Beach, Delray Beach, Highland Beach, Lake Worth Beach, Lantana, Ocean Ridge and an associated portion unincorporated Palm Beach County.

Stormwater Hydrologic and Hydraulic Modeling

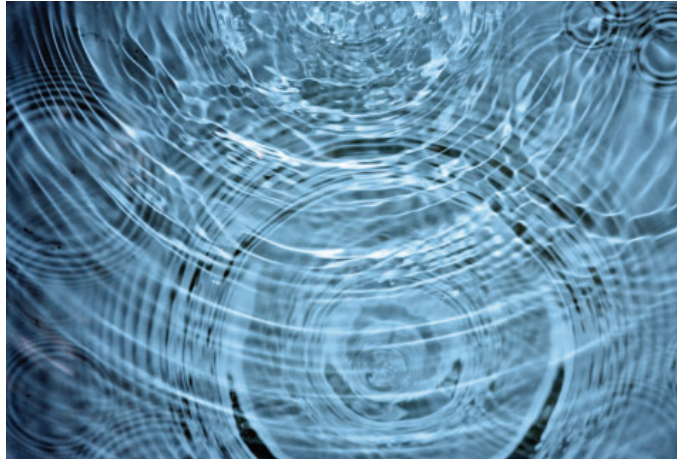
CMA has prepared city-wide stormwater master plans for several municipalities in South Florida, including the City of Pompano Beach, which all involve the development of a quantitative hydrologic and hydraulic model for purpose of identifying potential stormwater improvements. CMA typically uses the Interconnected Pond Routing (ICPR) software for development of computer models for the stormwater management systems. The latest version of the software, ICPR4 allows for two-dimensional modeling of surface water, to examine overland flow and also allows for simulation of the interaction between surface water and groundwater. In a location with low topographic relief and high water tables, like the City, these capabilities can be of critical importance. In addition to using ICPR4, the CMA staff has demonstrated expertise modeling with EPA-SWMM, XP-SWMM, HEC-HMS, HEC-RAS, MIKE-SHE/MIKE-11 and other software packages. If the City's stormwater model requires updates to include recent projects and development, CMA would utilize the methods described in this section.

To properly represent the existing stormwater management system within each project area, CMA will verify the model matches with existing features and reflects the known rainfall response in coordination with the City's Maintenance and Operations staff to review anecdotal and recorded water elevation data throughout the City for large storms occurring within the last five years. CMA will use this information for calibration of the stormwater model. Based on available data, we will adjust the hydrologic (e.g., soil storage



and land cover parameters) and hydraulic (e.g., Manning's roughness coefficient) parameters until the predicted peak water elevations reasonably match the observed values. Where no hydraulic data is available, CMA will mobilize to measure flow data after rainfall events at critical points in the drainage system. By calibrating the existing conditions model, a representative approximation of the current drainage conditions will be developed.

This project specific stormwater model will be used to conduct iterative mass balance calculations to determine the routing of stormwater runoff between basins via the link connections which mimic the stormwater management system for the City. The model simulations of the existing conditions can be run for key design storms, such as 5-year / 24-hour; 10-year / 24-hour; 25-year / 72-hour; 100-year / 72-hour. The key results of the stormwater model are the peak flood elevation and the peak discharge rate via existing outfalls into the receiving water bodies. These results will determine whether the existing stormwater management system meets the required LOS under various design storms. For example, the peak flood stage within a drainage basin can be compared within the topography to identify flood prone areas within the drainage basin.



CMA will also create a stormwater model of future conditions to analyze the impact of proposed improvements or development within the City on the existing stormwater management system under various scenarios. The various scenarios include various planned and unplanned future developments for the purpose of analyzing the build out conditions. The future development will generate additional stormwater runoff into the stormwater management system due to the elimination of existing retention area and the creation of additional impervious area due to the new construction. The purpose of the proposed conditions stormwater model is to calculate the peak flood stage elevation for each basin and the maximum discharge flow via any outfalls for various design storms under the future "buildout" conditions. The model will also be used to assist with planning the improvements to the stormwater management system which will be required to handle the additional stormwater runoff caused by the reduction of existing stormwater storage capacity. The future development within the project limits will be based on the future land use map defined within the overall master plan, which is the basis for defining the characteristics of each basin within the proposed conditions model.

Water Quality Modeling

CMA has extensive experience providing water quality stormwater models for purpose of estimating the impacts to surface water bodies which receive stormwater runoff. Chapter 99-223, Laws of Florida sets forth the process by which the 303(d) list of impacted water bodies is refined through more detailed water quality assessments. It also establishes the means for adopting TMDLs, allocating pollutant loadings among contributing sources, and implementing pollution reduction strategies. Implementation of TMDLs refers to any combination of regulatory, non-regulatory, or incentive-based actions that result in the necessary reduction in pollutant loading.

- Non-regulatory or incentive-based actions may include development and implementation of Best Management Practices (BMPs), pollution prevention activities, and habitat preservation or restoration.
- Regulatory actions may include issuance or revision of wastewater, stormwater, or environmental resource permits to include permit conditions consistent with the TMDL. These permit conditions may be numeric effluent limitations or, for technology-based programs, requirements to use a combination of structural and non-structural BMPs needed to achieve the necessary pollutant load reduction.

CMA understands there are a wide array of tools available for evaluating water quality impacts. With a calibrated hydrologic and hydraulic model one low cost method is the utilization of GIS as a tool to help model, map and guide decision making for TMDL policies. In this particular application for TMDLs, each Water Body Identification (WBID) is used as the area of focus, after which the land use is reviewed in cooperation with the hydraulic modeling to determine the expected pollutant loading. Once the land use category is defined for each parcel within a drainage basin, each pollutant can be assigned using Visual Basic (VB) scripts to calculate the total for the parcel's area and then assign the overall value to the centroid of the parcel. Then a second VB script is generated to follow the overall hydraulic routing to the secondary (or primary) canal system, which then sums the total expected pollutants within the water body. This data can be compared to field testing of actual water quality concentrations from testing stations along the waterbody.

The same "continuous summing" calculation for pollutant calculation can be performed in reverse to determine, in combination with field testing, the most effective applications for BMPs. The results can be cross references with municipal boundaries, special district information and individual property information for the purposes of generating a Listing of Affected Parties. In addition, the progressive field testing can determine which sites are currently using BMPs properly to assist an Affected Party in the most effective application of funds in retrofit projects.

Regulatory Permitting

Permitting processes will be expedited through clear communications, both with the City and with applicable regulators. Permit packages will be prepared with thorough, transparent and complete calculations, models and supporting documentation. Draft permits will be provided and discussed with City Staff ahead of the submittal so that approaches can be adjusted to best suit the City's needs. Pre-application meetings will be scheduled as warranted to improve communication between the regulatory staff and the City.

National Pollutant Discharge Elimination System Program (NPDES) Compliance

CMA has been the primary consultant for MS4 permitting and compliance for several cities in South Florida. One of the reasons that these municipalities have come to rely on our support for their MS4 permitting needs is our experience with the NPDES program. With respect to collecting and organizing data, CMA has developed several GIS Stormwater Atlases for several municipalities including the City of Pompano Beach. These atlases focused on infrastructure as it relates to the permitting requirements of the MS4 program. Our staff has extensive experience working with ArcGIS online and setting up applications that can be used in the field by City Staff to update the mapping in a manner that automates reporting requirements. We also work with each one of our clients to implement a system for tracking values associated with litter control and street sweeping. Our service includes developing client specific checklists to document maintenance inspections.



Regarding the provision of guidance and recommendation on permit issues, CMA has guided the City of Coral Springs on all elements of their MS4 permitting for the last several years. This long-term relationship has allowed us to provide in depth guidance to the City and offered us the opportunity to learn the nuances of the regulatory requirements of the NPDES program. Our experienced staff brings these lessons-learned to bear in each project we design and on each permit we prepare to the benefit of our clients.

FEMA Community Rating System (CRS) Coordination

The CMA Team has two staff members that maintain accreditation as Certified Floodplain Manager (CFM). These credentials exhibit our experience with the National Flood Insurance Program (NFIP) and specifically with the CRS program. We have worked extensively with municipalities throughout South Florida to assist with annual reporting and improving CRS scores in order to reduce insurance premiums for policy

holders. The CRS program rewards municipalities that take a thoughtful and proactive approach to limiting development within the floodplain and minimizing repetitive losses. The planning and design approach that we take with respect to stormwater management dovetails perfectly with the recommendations of the CRS program and facilitates rating improvement.

Transportation Infrastructure Design

Great neighborhoods, and by extension, great cities, are remembered for their streets rather than their buildings. CMA integrates this philosophy into our streetscape design. Great streets form the glue that holds a successful community together. Our philosophy of community and street design involves organizing a hierarchy of streets to respond to the varying urban use and density conditions and establishing appropriate standards for each street type. Some of the CMA transportation and streetscape design experience includes:

- Streetscape Design
- Hardscape Design
- Traffic Calming Design
- Streets and Highway Design
- Pedestrian and Bicycle Pathway Design
- Geometric Intersection Design
- Circulation and Roundabout Design
- Parking Lot Design
- Street Lighting design
- Maintenance of Traffic Design
- Operational and Safety Studies
- Corridor Planning



Providing a Multi-Modal Perspective

CMA understands that successful urban environments are composed of a number of elements that must be seamlessly integrated. Projects must be pedestrian friendly and encourage street level activity for walking, jogging and cycling. Vehicular circulation must be carefully orchestrated to calm traffic and accommodate safe walking and biking. The local aesthetic must be preserved and civic spaces enhanced with facilities for a range of uses from casual bike riders to cycling enthusiasts. The identity of place should be enhanced with streetscape improvements, attractive landscaping, and wayfinding systems

Local Roadway Experience

The CMA team has extensive experience in the design of improvements to roadways locally. Our engineers are well versed in the latest roadway design standards at Palm Beach County, the Florida Department of Transportation (FDOT) and Federal Highway Administration (FHWA). We have recently successfully completed projects within Palm Beach County and serve as one of the City's engineers on the ongoing Neighborhood Road Program for the City of Lake Worth Beach. We have addressed neighborhood improvement projects for municipalities throughout Palm Beach County implementing hardscape, streetscape, roadway, transportation, stormwater and traffic calming features to address resident concerns. We are currently working as a sub-consultant on a design team for the City of West Palm Beach to re-design the 26th Street corridor between Poinsettia Avenue and Flagler Drive. Our design of the new typical section includes reducing from four traffic lanes for the corridor to two traffic lanes with a separated bicycle and pedestrian path.

Public Space Design

The design approach focuses on creating high quality environments for people, such as public parks and recreational facilities. We strive to develop context sensitive design solutions that incorporate and conserve nature in our urban environments. CMA has six (6) registered landscape architects, one (1) certified arborist, one (1) certified irrigation designer, and additional production staff who focus on the

design and construction of public spaces, such as public parks and recreational facilities. Because of the diversity of staff within the department, CMA self performs the design of public spaces without the need for subconsultants.

Providing Landscape Architecture Continuing Services to Municipalities

We focus on public space design predominantly working for government throughout Florida and maintain continuing services contracts with Coral Springs, Delray Beach, Fort Lauderdale, Hollywood, Margate, Miami, Miami Beach, Miami Gardens, Miramar, Pompano Beach, St. Lucie County, Wellington, Florida Department of Transportation Districts 1, 4, 6, and Florida's Turnpike Enterprise. Our current and completed work related to public spaces include to the design of streetscapes, public parks, trails, bicycle and pedestrian networks, plazas, athletic facilities, and educational facilities.



Preparing Master Plans for Parks and Public Spaces

We provide master plan studies (urban forestry, canopy inventory, facilities, parks, etc.), plans review, stakeholder outreach, owner's representation services, program management, design, permitting, and construction administration. Some examples of our current projects include Hollywood Park System Master Plan, Fort Lauderdale NW 15th Avenue Streetscape incorporating complete streets principals, landscape program management for Florida's Turnpike Enterprise, and the West End Park master plan for the City of Miami.

Construction Administration

The in-house construction engineering team at Chen Moore and Associates will be led by Derrick Smith, CFM, LEED AP from our Fort Lauderdale Office. Mr. Smith has over 15 years of construction experience in South Florida on municipal utility and drainage projects. The following section elaborates on the abilities of the staff to complete all required construction administration tasks.

Coordination of the bid process, analysis of bids and recommendation on the award of construction contract-

The Chen Moore and Associates staff is very familiar with the entire bidding process. Our construction staff is prepared to begin the bidding process at the moment the final contract documents are complete. At the direction of City staff, our staff will place the advertisement for the Invitation to Bid, and coordinate all production and distribution of documents to interested bidders. A mandatory pre-bid meeting will cover all of the administrative requirements of the bidding process and allow bidders to ask questions and seek clarification, if they so desire. An experienced CMA staff member will conduct the public bid opening, tabulate the bids received and evaluate the contractors for compliance with the bid documents. Once a responsive and responsible bidder is determined to be in the best interest of the City, we will make a recommendation for award of the construction contract.

Conduct a Pre-Construction Conference - Once a contractor has been selected and the contract awarded, Chen Moore and Associates' project manager, Mr. McClair, will conduct a pre-construction conference. As an experienced construction project administrator, Mr. Derrick Smith will review all of the administrative requirements - from the preliminary submittals to the final release of lien, and everything in between - with the selected contractor at the pre-construction conference. The entire team – the engineer, contractor, the City, other utilities and permitting agencies – will review submittal procedures, and all other processes to

Field Observation, Inspection, and Documentation

Chen Moore and Associates field inspector will observe construction activities. The inspector will complete a detailed Daily Report of Construction for each day they are on site. The inspector will monitor the progress of the work and document the contractor's



operations. As the eyes and ears of the engineer, the field inspector will also help to resolve any conflicts should any unexpected conditions be encountered. The inspector will also verify that the materials used are those that were specified and submitted, and that material testing is conducted according to the contract documents.

Contractor Correspondence and Documentation – including responding to requests for information, reviewing and responding to contractor's requests for contract modifications, and responding to contractor claims - It is essential during construction to have ongoing communication between the City, the contractor, and the engineer. Chen Moore and Associates has established a solid reputation as a construction administration firm by taking a proactive approach to communication with the project team. Requests for information are reviewed and answered as quickly as possible to minimize any delay and keep the project moving forward.

We realize that even with the best planning, pre-investigation, design and communication, changes can occur during construction. The most effective way of dealing with changes during construction is to try to anticipate them and provide alternative solutions quickly. Chen Moore and Associates has built a reputation of administering projects in a way which minimizes change orders and the costs associated with them. In the rare event that change orders become necessary, Chen Moore and Associates has the knowledge and experience to skillfully negotiate the best value possible for the City.

Reviewing Contractor Requests for Payment - Protecting our clients by ensuring they get what they pay for is part of what has built Chen Moore and Associates' reputation in the construction administration field. A vital part of that protection is verifying the contractor's progress before each and every progress payment. When our Project Manager receives a pay request from a contractor, he will compare the quantities and progress with the Daily Reports of Construction for that period. Only when he is completely satisfied that the payment requested is for the work completed – and that the work is of acceptable quality – will he approve and forward the payment request to the City for payment.

Project Start-up, Testing, and Final Inspection - In addition to the daily observation and inspection made by the Chen Moore and Associates field inspectors, during the start-up and testing of critical systems, additional engineering staff will be present on site. When the contractor notifies the Project Manager that construction is substantially complete, Chen Moore and Associates will conduct an inspection to determine any outstanding items to be completed or repaired (Punch List). The completion of these items will be monitored by a Chen Moore and Associates inspector, and when they are complete the Project Manager will conduct his final inspection. Only when the Project Manager is completely satisfied that the contractor has completed the project will he issue a certificate of completion.

Permit Closeout and Record Drawings - Critical to the close out of any permits will be the accurate and timely submittal of Record Drawings (sometimes referred to as "As-Built" drawings, though this term has fallen out of favor). Many contractors fail to see the importance of these drawings, and as a result the drawings they provide are not as accurate as we would desire. To emphasize the importance of these drawings, Chen Moore and Associates specifies in our construction contract documents that the contractor submit drafts of the Record Drawings, prepared by his surveyor, with each request for payment. Only when the Record Drawings are acceptable is the request for payment approved and forwarded to the City.

Public Information

Public Information

Public involvement is an important step to be undertaken. This ensures the information that the public will receive is current and correct because it comes straight from the source. Additionally, it provides the public with an opportunity to provide valuable feedback, ask questions, give complaints and generally understand the progress of the project. Having been in charge of the public involvement for several projects of this nature, Chen Moore and Associates has developed an approach that encompasses four elements to ensure public involvement and minimize complaints. These include public information, homeowners meetings,

complaint resolution and services coordination. Each of these areas is discussed as follows:

Public Information - A key component of public involvement is a public information campaign that ensures the public is always well-informed of the work. By giving the public information before it is requested, it minimizes the potential questions and complaints that may bog down the project team. The Chen Moore and Associates approach includes a direct mail campaign to initiate the project along with door hangers and signage that informs the public as the project progresses. The language in these notices is always jointly approved by the entire project team to eliminate any potential surprises.

Stakeholder Meetings - Public meetings held for the impacted homeowner's are good forums for the gathering and dissemination of information to large groups of the affected public. In these meetings, Chen Moore and Associates has made presentations to inform the public of the upcoming improvements in lay terms to enhance the purpose of the direct mail campaign. In other meetings, Chen Moore and Associates' staff has been present to give construction updates and record any concerns that may arise. Our presence at these meetings helps maintain the image of constant public involvement and the idea that the public is an important member of the project team.



Complaint Resolution - One of the most critical components of public involvement is the acquiring, tracking and resolution of public complaints. The acquiring of the complaints needs to be thorough and courteous to ensure that the nature of the complaint is accurately portrayed and that the public is not additionally inflamed. The tracking of the complaints should include the complaint initiation, the results of the site and preconstruction research, the instructions to contractor and the actual resolution of the complaint. In addition, a record of all contact with the person initiating the complaint will be kept. Finally, the resolution of the complaint needs to include an official document notifying the originator of the complaint of the final outcome. Every step in the complaint resolution process needs to be accurately recorded for use in any possible future concerns.

Services Coordination - From experience, Chen Moore and Associates has realized that over one quarter of all complaints in projects of this nature result from residents being deprived of an essential service because of the construction. These include postal delivery, solid waste collection, public transportation rerouting and other normal daily services.

In order to avoid these concerns, Chen Moore and Associates works with the agencies involved prior to the deprivation of services in order to reach a solution that is amicable to all parties involved. This includes the sending of construction impacts, such as a street closure schedule, on a weekly basis to any party that does business in the area so that they can plan around the necessary inconvenience of construction. Additionally, during the initial public information direct mail campaign, Chen Moore and Associates sends out special needs forms whereby any individual that may experience difficulties as a result of the improvements is given an opportunity to be identified prior to any loss of service.

Motorist Safety - Motorist safety, and the safety of the public in general, will be an important part of both the design and construction phase. During the design phase, Chen Moore and Associates will take public safety into account when designating site access points and lay-down areas for the construction contractor. Maintenance of traffic plans will be created in accordance with the FDOT's Standard Indexes, but may be enhanced where needed after input from the City staff, including local law enforcement and fire-rescue agencies. These could include additional advanced warning signs, variable message boards, or other widely-accepted techniques for communicating changes in traffic patterns with motorists.

During construction, it will be the contractor's responsibility to follow all of the motorist and public safety portions of the contract. The Chen Moore and Associates inspector will monitor these features each day that they are on site. If deficiencies are noted, they will be appropriately addressed with the contractor as soon as they are recognized. Lane closures, street closures, and detours will be closely coordinated with public safety officials to ensure the construction does not impact emergency response within the construction areas.

Innovative Approaches

One of the benefits of our company's growth has been our increased capacity for technological innovation. In recent projects, we have been able to utilize tools such as three-dimensional visualization to evaluate potential conflicts with existing utilities and to evaluate constructability considerations. As another example, our field personnel are currently testing options for paperless construction administration services. In combination with our existing GIS tools for site investigations and construction documentation, CMA is pushing the envelope of the design profession with respect to design tools. We pride ourselves on bringing that type of forward looking approach to our clients and especially to the City. Some examples of our culture of innovation is our emphasis on sustainability and our integration of GIS throughout the design and construction process.

Emphasis on Sustainability

CMA has individuals that are not only LEED APs but are Envision SP certified by the Institute for Sustainable Infrastructure. The Envision certification system focuses on infrastructure, rather than buildings. The aspects of sustainable design learned through these programs can be incorporated into various types of projects, whether it be a stormwater treatment facility or silva cells for street tree plantings. CMA's expertise in sustainable infrastructure, coupled with the efforts already taking place at the City, can push the City into the forefront of sustainable infrastructure in South Florida.

Integration of GIS throughout the Design and Construction Process

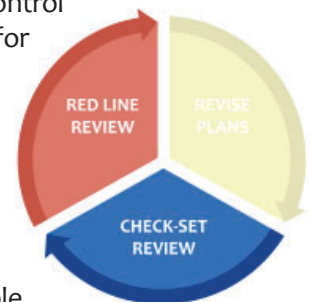
CMA has been on the cutting edge of GIS/engineering integration for over a decade. All of our engineers are trained and well versed in GIS which is uncommon in most engineering firms. As such, all of our staff understands the desired output and how to apply GIS tools to achieve it. We routinely use GIS data, analysis and procedures for engineering planning studies, design, permitting and construction administration. As such, we have developed in-house scripts and procedures that enable us to gather and process GIS data efficiently. The GIS data will be gathered and analyzed for each project at inception. After this step is completed, this data can be used throughout the design, permitting and construction phases of the project. Exhibits created in GIS have proven to be an effective method of communicating with the client, public, regulatory agencies and Contractors.

Quality Assurance / Quality Control

At CMA, our quality control process is integrated into the cost and schedule control review. By completely integrating the process, not only are the plans reviewed for accuracy, but the contract documents are scrutinized, preliminary schedules are developed, cost estimates are created, conflicts are identified and solutions are developed.

CMA feels that by incorporating schedule control, cost control, cost estimating and quality control into the standard design and review process that a significant increase in performance is realized. These reviews avoid the "surprises" of unrealistic schedules, designs that aren't constructible, overextended budgets and unforeseen conflicts. By avoiding these concerns, CMA is able to complete a project without having to redesign the project, in either the design or construction phases. This leads to a direct time savings for CMA which leads to a direct cost savings for the client.

Our quality control process utilizes two levels of review. The first level is ongoing during design where the Client Manager, Brent Whitfield will review the work of the subject specific design leads to provide markups and ensure revisions are correctly made. The second level is performed by independent quality control leads: Jay McClair (Engineering Design) and Jose McCray (Constructability). The independent nature of the second level review allows for a fresh perspective on the design and an "extra set of eyes" that can often identify concerns that may have been overlooked. As illustrated in the figures below, this two level process occurs for each deliverable and is built into the schedule prior to review by City staff. We believe that by resolving any concerns with the mechanics of the design before submittal, City reviews can focus on coordination issues or stakeholder concerns. The illustration below demonstrates how the QA/QC process is integrated into the project delivery process for engineering design.



A Note On Safety

CMA has a clear and defined policy regarding safe practice. The health and safety of employees and others during business operations are of critical concern to Chen Moore and Associates, Inc. Our corporate policies and employee manual contain detailed safety protocols and requirements for both the office and job site. Employees at CMA are also trained in various safety protocols including OSHA, FDOT Maintenance of Traffic, and FEC Railroad Safety among others. If a CMA inspector observes a safety violation on our job site, a verbal warning will be issued to the contractor to take corrective measures, followed by a recommendation to stop work if the corrective action is not performed immediately. All verbal notifications in the field will be followed by written documentation. Documentation with a narrative description and photographs of the safety violations will be included in the CMA inspector's Daily Reports.

Project Scheduling Ability / Timely Completion of Work

We understand the importance of maintaining the design and construction schedule on City projects. Oftentimes, the funding mechanism is a critical factor as is the case of certain bond projects or Community Development Block Grants. Other times the schedule driver is construction timing, such as the dry season for a stormwater project or outside of tourist season for a project in a highly trafficked retail area like downtown. Whatever the case, CMA has a proven approach to meet the schedule requirements.

Proper Schedule Execution Starts with Proper Planning

Successful schedule control begins during the planning and design phases of a project. For this reason, we develop a schedule for the design as part of our Project Management Plan which is presented at the project kick-off meeting. At this time, CMA will discuss any potential concerns, such as coordination pitfalls, that could arise to delay the schedule. By addressing these concerns at the inception of a project, CMA can prepare the City for a realistic expectation of the project schedule and any potential concerns. The design schedule will include an allocation of time for Quality Control reviews by senior staff, review of deliverables by City Staff, and regulatory coordination time for permitting. The City Project Manager is provided updates to the project schedule by the CMA Project Manager in the case that any changes occur. If there are delays that impact the overall delivery date, CMA will work with the City to accelerate other components of the schedule as needed.

Maintaining the Schedule During Construction

Once CMA has developed proper planning, design and bid documents with the mentality mentioned above, our Project Manager will work with our construction management staff to keep the project running on schedule. There are many methods for construction schedule control, but the biggest advantage to today's construction manager is the use of automation. Automation in construction management can take many forms, but the impacts of computerized Critical Path Method (CPM) scheduling and project management via the internet cannot be overlooked. CPM programs have become standard in the profession. With great ease, the



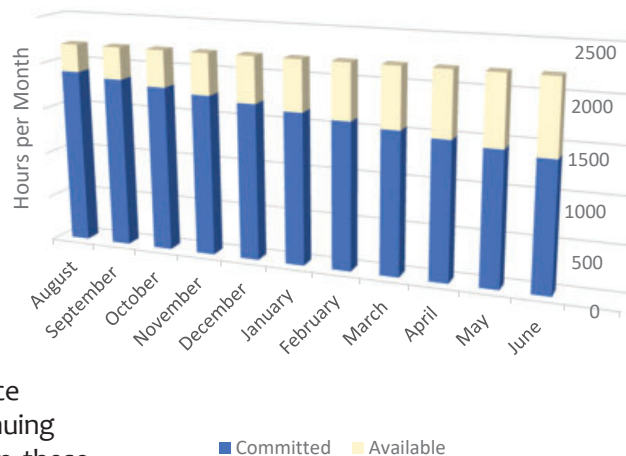
schedules can be manipulated and transferred to all of the parties involved. CMA uses two CPM programs for the bulk of their construction management needs. Primavera (P3EC) is a comprehensive scheduling program that has established itself as an industry standard. A program of this complexity is necessitated by the intrinsic number of tasks required to complete large projects. The less complex alternative for projects of a smaller nature is SureTrack or Microsoft Project. This program is perfectly acceptable for projects with a small number of sub-tasks and a small number of individual tasks impacting the Critical Path.

Fast Track Experience

CMA feels that responsiveness to our client's needs is the driving force in consulting engineering. If the City is interested in fast tracking or expediting a project, then CMA will perform within that specified time frame. CMA is a firm believer in the motto "make realistic expectations and the realizations will be as expected." By adhering to this ideal, CMA is able to tell a client whether or not simply putting more staff on a project will put a project back on track, without giving excuses once the project is completed late. CMA prides itself on not missing project deadlines during our 33 years of business.

Overall Workload of the Company

CMA makes the commitment that all key personnel on the project team will be dedicated as necessary to meet the needs of the City. All CMA project managers and staff realize that on-time delivery is a key element in meeting our commitments to clients. Over that time, our capacity to handle multiple assignments has increased as our staffing has grown. Because of our resources and qualified personnel, CMA is able to overcome any unforeseen delays by assigning additional staff.



The workload within the Fort Lauderdale office of CMA consists mainly of work under continuing services contracts. The task orders arising from these contracts are generally smaller in nature with a four to six-month completion time, and thus allow flexibility in scheduling for any task orders assigned by the City. CMA does not currently have any projects that will interfere with work for the City. Our performance on previous tasks for the City demonstrates this commitment to availability.

Demonstrated Experience Of Managing Multiple Task Contracts

With **Jason McClair, P.E., CFM, LEED AP** serving as the Project Manager, CMA will be able to provide professional and responsive service with the assistance of **Jennifer Smith, P.E.** and **Daniel Davila, P.E.** as Deputy Project Managers. In this manner, CMA is able to parallel track the coordination and design production along multiple staffing lines in the case of simultaneous assignments. This approach has proven successful as our Fort Lauderdale office of CMA currently manages continuing service contracts for the following municipalities in Broward County:

- City of Fort Lauderdale
- City of Wilton Manors
- City of Oakland Park
- City of Dania Beach
- City of Hollywood
- City of Hallandale
- Town of Davie
- City of North Lauderdale
- City of Margate
- City of Coral Springs

Since our founding in 1986, CMA has served as a trusted advisor to municipal clients in Palm Beach, Broward and Miami-Dade County. Over the past 33 years, we have made it our hallmark to provide quality and responsive service on multiple task contracts. We understand that the City always has more than one infrastructure concern at a time, and we pride ourselves on being able to solve a wide range of problems that often have competing schedules.



Section 4 - Schedule



SCHEDULE

Chen Moore and Associates is committed to provide an adequate staffing to complete these projects on time and will use our experience to anticipate all regulatory agency comments and address them before the initial submittal. Chen Moore and Associates has extensive project experience with design and permitting of various infrastructure improvement projects. In order to keep track of project schedules, the Chen Moore team uses Microsoft Project and Primavera. In addition, our team will keep an updated permit tracker spreadsheet outlining all permits and their anticipated approval.

Section 5 - References



REFERENCES

CMA Pompano Beach Project Experience

Project	Fee	Project	Fee
Pompano Beach Force Main Model	\$45,000	Sky Lofts LS 61N Capacity	\$3,000
Harbor Drive FM Study	\$4,800	Pompano Utilities Parking Lot Design	\$50,765
CT 3-1 Drainage Project	\$951,000	Bay Drive Outfall Rehabilitation	\$14,790
Pompano Beach NW 27th Avenue CEI	\$99,535	Lift Station #110 Rehabilitation	\$31,533.99
General Consulting	\$2,000	Lift Station #11 Rehabilitation	\$44,025
Pompano Storm Water GIS Study	\$10,000	Pompano Beach Digital Utilities Atlas	\$89,865
Pompano Storm Water Study Phase 2	\$4,700	Pompano Beach Wastewater Flow Projections	\$955
Capacity, Management, Operations and Maintenance (CMOM) Study	\$37,200	GIS Submittal Standards	\$1,000
Drainage Improvements NC 2-3	\$42,038	Pompano Beach Stormwater Master Plan Update-Basins 41-60	\$5,8275
City of Pompano Beach Drainage Improvements CT 3-3	\$25,789	GIS Updates Purchase Order Number 101718	\$2,000
Construction Administration for NW 5-3	\$58,767	Emergency 24" Force Main Repair	\$7,000
Lift Station #46 Force Main Study	\$7,245	Lift Station 102 Improvements	\$15,315
Pompano MS4	\$35,340	Riverside Drive Force Main Repairs	\$16,002
NW 27th Avenue FM Design, Permitting, & Certification	\$160,000	LS 21 Directional Drill Design	\$25,000
Pompano Lift Station 18 & 18A	\$18,000	Pompano Beach Stormwater Master Plan	\$1,261,000
Lift Station #21 - BODR	\$124,890	Lift Station 44	\$12,780
Lift Station #12 Rehab	\$23,185	Pompano Beach Municipal Golf Course	\$250
LS #42 Capacity Analysis	\$780	Pompano Bch Golf Course-Landscape As Built	\$1,250
Misc. MS4 Tasks	\$1,162	Lift Station 44 Study	\$14,800
Lift Station 3, 4, 11 & 12 Rehab or Replacement	\$116,595	Lift Station 12 Force Main Abandonment	\$8,000
Lift Station 21	\$533,724	Avondale Stormwater Improvements	\$285,025
Concrete Headwall Design	\$4,654	Lift Station 12: Mechanical Filter Addition	\$6,000
Sanitary Sewer at Pompano Air Park	\$36,865	Old Pompano Area Improvements	\$484,050
14th Street Causeway Water Project	\$507	Pompano Commerce Park	\$15,000
Drainage Improvements NC 2-1	\$158,000	Pompano Beach Water Main Replacement	\$8,000
Drainage Improvements NW 1-3	\$21,072	Reclaimed Watermain Project	\$35,900
N. Course Sewer Force Main Replacement	\$12,717	Emergency 42" Force Main Repair	N/A
Consulting Services Engineering Boil Water Document Review	\$1,500	Reclaimed Watermain	\$28,800
Lift Station System Flow Analysis	\$4,000	Consulting Services for Pipe Bursting Project - PO 191600 - City of Pompano Beach	\$5,000
Pompano Beach Water, Sewer and Drainage Atlas	\$22,435	Emergency and On Call Utility Replacement Project - PO 191682 - City of Pompano Beach	\$15,000
Emergency Work for 42" FM	\$2,000	Wastewater Force Main Assessment Project	\$33,000
Lift Station 2 Rehabilitation	\$39,264		
LS 113 Capacity Analysis	\$2,453.75		
Pompano Beach Resort LS 21N Capacity	\$3,500		

Old Pompano Area Improvements Pompano Beach, Florida

Client

City of Pompano Beach
Horacio Danovich
1201 NE 5th Ave
Pompano Beach, FL 33060
954.786.7834

Year Completed

2020

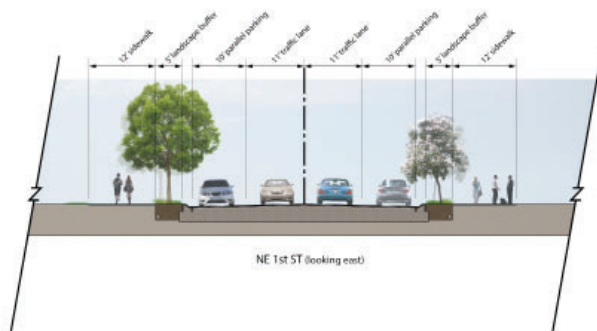
Fee

\$484,050

Firm Role

Prime

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.



Avondale Stormwater Improvements Pompano Beach, Florida

Client

City of Pompano Beach
Mike Taylor
1201 NE 5th Ave
Pompano Beach, FL 33060
954.786.4061

Year Completed

2019

Fee

\$285,025

Firm Role

Prime



The primary purpose of the Avondale Stormwater Improvement Project is to reduce the flooding depth and duration within the neighborhood during significant storm events. Based on our analysis of the various system improvement alternatives during the Stormwater Master Plan, the implementation of a stormwater pumping system into the SFWMD G16 Canal would be the most effective option for reducing the peak flood stage and reducing the flood duration within the Avondale Neighborhood by increasing the discharge rate via the existing outfalls when the canal levels are elevated. Stormwater improvements within the Avondale neighborhood will encounter limitations due to the regulatory requirements on the stormwater discharges via the system outfalls. Since this neighborhood discharges into the SFWMD G-16 Canal, which is currently listed as an impaired water body by the Florida Department of Environmental Protection, the level of water quality improvements is critical to enable the potential implementation of a new stormwater improvements within the Avondale neighborhood.



CMA completed a Preliminary Design Report for the Avondale neighborhood to assess the feasibility, the regulatory permit restrictions, the cost impacts, and the flood reduction effectiveness of each potential improvement alternative within the neighborhood. CMA prepared a Preliminary Design Report which outlined the impacts of the potential stormwater improvement alternatives and presents the recommended stormwater improvements within the Avondale neighborhood. Within the Stormwater Master Plan, the recommended stormwater improvements for the Avondale neighborhood include the construction of a new stormwater pump station, which pumps into potential dry retention area(s) throughout the study area before overflowing into the SFWMD G16 Canal along with local stormwater improvements throughout the public right-of-way areas in the neighborhood. The Preliminary Design Report includes a feasibility assessment of various potential system improvement alternatives.

Broward County UAZ Projects

Broward County, FL

Client

Broward County
Patrick MacGregor
2555 West Copans Road
Pompano Beach, FL 33069-1233
954.831.0904

Year Completed

Ongoing

Fee

\$18 million

Firm Role

Prime



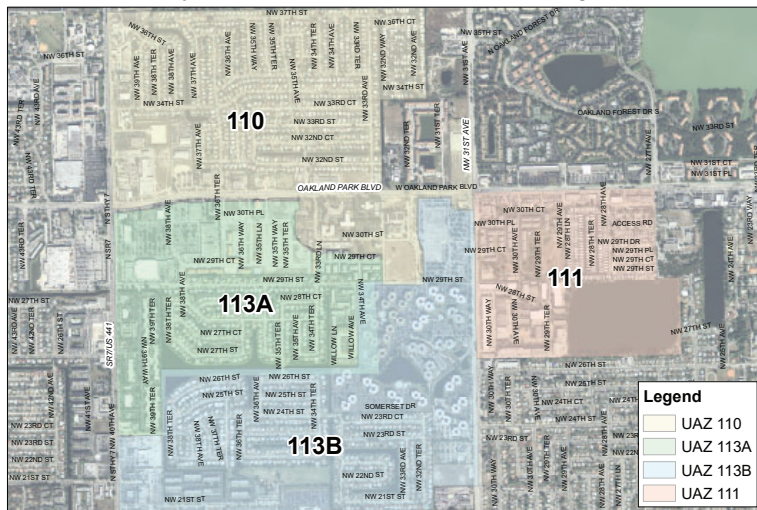
UAZ 307 / 315 - The Broward County UAZ 307 / 315 Utilities project included replacing existing water main and providing sanitary sewer for County Service Areas in the City of Dania Beach, near Griffin Road and Ravenswood Road. The main technical components included replacing a 12-inch water main on Ravenswood Road, replacing the residential water distribution system, providing sanitary sewer to connect existing septic tanks and rehabilitating and installation of new lift stations and force main. In order to achieve 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 and determine/update projected utility flow rates. A total of 20,000 linear feet of water main replacement, three lift stations and 14,000 linear feet of sanitary sewer, which serviced over 400 parcels, were designed for this project. Chen Moore and Associates also performed construction administration for this project.

UAZ 303, 314, 316 and 318 - The Broward County UAZ 303, 314, 316 and 318 project was part 1 of what was projected to be an \$8.8 million project replacing existing water and providing sanitary sewer for County Service Areas in the City of Dania Beach, just east of State Road 7, north and south of Griffin Road. The main technical components included 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, log pertinent site information, determine the projected flow rates, track questions from residents of the area and track responses from utility companies regarding their existing facilities. The design of these improvements began in January 2009 and construction has been completed. Chen Moore and Associates also performed construction administration for this project.

UAZ 316 - 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. Design of these improvements began in 2009 and construction was completed in 2016. Chen Moore and Associates also performed construction administration for this project.



Broward County UAZ 110/111 & 113 Water Sewer Improvements 113A / Broward County UAZ 110/111 & 113 Water Sewer Improvements 113B



The Water and Sanitary Sewer Improvements for the UAZ 110/111 & 113 Project will include the improvements to the existing water distribution system, sanitary sewer system, and transmission systems within the project area along with the restoration of surface areas disturbed for the construction of said improvements. All projects combined a total area of over 1000 acres within multiple Cities. The existing system being replaced consists of approximately 168,100LF of water mains, 122,100 LF of sanitary sewer

mains and 23,600 LF force main. The existing water main consists of asbestos cement, cast iron, ductile iron, galvanized steel, polyvinyl chloride pipe ranging from 2” - 24” in diameter size. The sanitary sewer consists of vitrified clay, fold and form liner, cured in place liner and ductile iron pipe ranging from 8” – 15” in diameter size. The force main consists of asbestos cement, cured in place liner, ductile iron and polyvinyl chloride pipe ranging from 6” – 16” in diameter size. There are 8 Broward County lift stations in these UAZ areas and 1 private lift station which sanitary sewer systems will need to connect to. Two of these stations will need rehabilitation/replacement. The restoration of roadways, sidewalks, driveways, and landscape areas will need to be performed as needed for water and sanitary sewer improvement construction.

Stormwater Master Plan Modeling and Design Implementation

Ft Lauderdale, Florida

Client

Hazen and Sawyer
Robert Taylor, JR, PE
2101 NW Corporate Blvd.
Suite 301
Boca Raton, FL 33431
772-595-2535

Year Completed

Ongoing

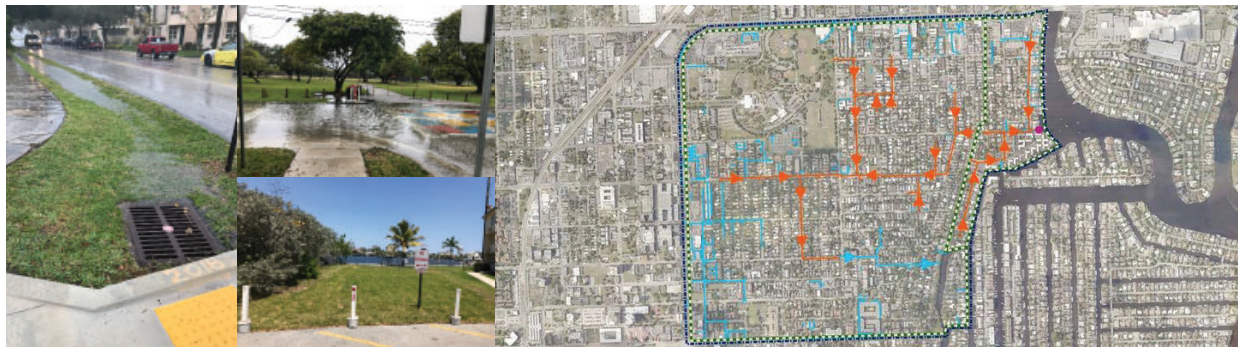
Fee

\$812,799

Firm Role

Subconsultant

CMA is providing engineering design services for the under Stormwater Improvement Master Plan Modeling and Design Implementation Project under the for the City of Fort Lauderdale. CMA is responsible for the planning, modeling, design, and permitting for the proposed stormwater improvements within the Victoria Park neighborhood, which was identified as one of the 7 priority neighborhoods with the City. A combination of multiple improvements to the stormwater management system have been developed to alleviate the existing flooding issues within the Victoria Park neighborhood. The proposed stormwater improvements within the Victoria Park neighborhood include separate alternatives for the eastern and western portions of the neighborhood. Within the western portions of the Victoria Park neighborhood, the proposed stormwater improvements consist of installing additional pipe interconnectivity of various existing independent drainage networks located throughout the neighborhood, installing new exfiltration trench, and completing limited roadway swale restoration where feasible. Within the easter portions of the Victoria Park neighborhood, the proposed improvements consist of interconnecting 6 independent positive outfalls into the Middle River, installing new backflow prevention, and adding a new stormwater pump station. The proposed stormwater improvements within the Victoria Park neighborhood are estimated to be approximately \$13 million in construction costs.



Dixie Highway Improvements

Wilton Manors, Florida

Client

City of Wilton Manors
David Archacki
2020 Wilton Drive
Wilton Manors, FL 33305
954.390.2190

Year Completed

2014

Fee

\$128,390

Firm Role

Prime

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 parking.



Downtown Coral Springs Streetscaping Coral Springs, Florida

Client

City of Coral Springs
Elizabeth Taschereau
9530 West Sample Road
Coral Springs, FL 33065
954.344.1121

Year Completed

2014

Fee

\$235,740

Firm Role

Prime

Chen Moore and Associates has been 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 is providing civil engineering, landscape architecture, environmental permitting and construction engineering and inspection services for the project.

The project includes implementing Complete Street concepts for NW 31st Court, NW 94th Avenue and NW 32nd Street. Additionally, CMA is implementing 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 will improve 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. The project is in the conceptual design phase and is slated for construction in 2014.



Lauderdale-by-the-Sea E. Commercial Blvd Streetscape & Drainage Improvements

Lauderdale-by-the-Sea, Florida

Client

Jaime Correa and Associates
 Jaime Correa
 5735 SW 48th St
 Miami, FL 33155
 786.412.3947

Year Completed

2013

Fee

\$74,000

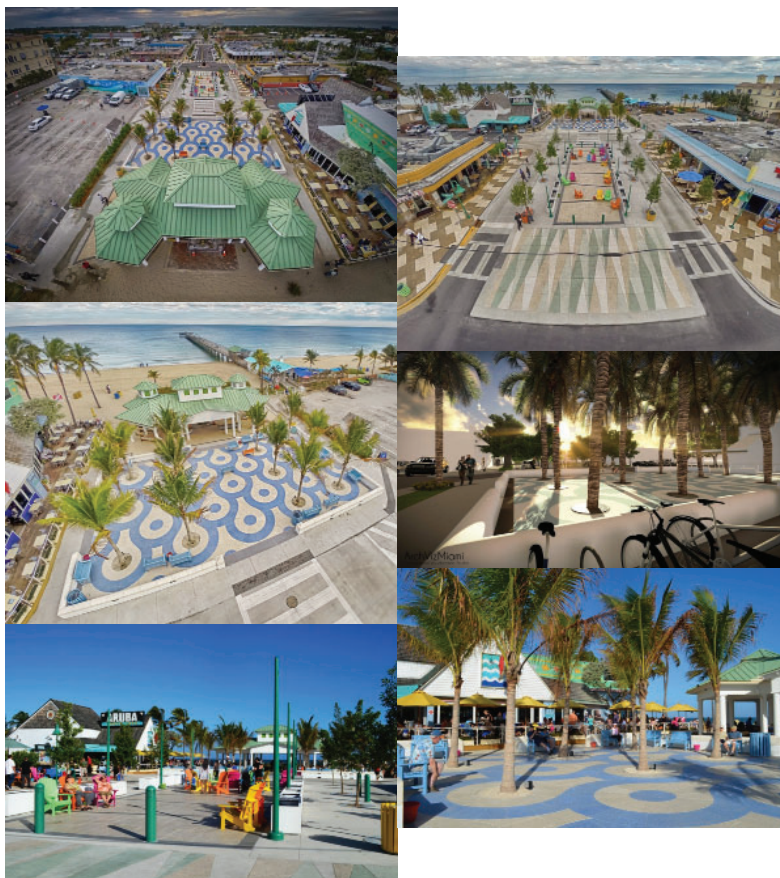
Firm Role

Subconsultant

Chen Moore and Associates provided utility coordination; roadway and stormwater design; government permitting; and bidding assistance for the development of the design of streetscape and stormwater improvements to the downtown core and adjacent areas east of Bougainville Drive in the Town of Lauderdale by the Sea.

The goals of this project were to create an urban gathering place that provides beautiful vistas of the sea, provides increased shade from the intense sun and heat, enhances the pedestrian environment and safety while maintaining vehicular access to the businesses located on the street and improving vehicular circulation and parking, provides for expansion of outdoor dining areas, and pays tribute to the Town's history.

Chen Moore and Associates used GIS to assist with utility coordination and base map preparation; assisting with the design concepts and cost estimates; recommending alternatives for paving design for the roadway and pedestrian traffic areas; prepared initial roadway alignment plan; prepared initial drainage and utility relocation plans; completed a stormwater design model; submitted for government permits; and provided bidding assistance for this project.



References

Emergency 42" Force Main Repair Pompano Beach, Florida

Client

City of Pompano Beach
Randolph Brown
1201 NE 5th Avenue
Pompano Beach, FL 33060
954.545.7044

Year Completed

2010

Fee

\$N/A

Firm Role

Prime

Chen Moore and Associates was retained by the City of Pompano Beach for services related to the design, permitting and construction management of the repair to a leaking 24-inch force main in the vicinity of Atlantic Boulevard and the Intracoastal Waterway. Once the leak location was found, Chen Moore and Associates determined that the coupling that tied a fitting to an existing HDPE main crossing Atlantic had insufficient embedment depth and therefore needed to be removed. After coordinating with multiple manufacturers, it was determined that the only method available for repair due to the location and lack of pipe length was an electrofusion coupling. This type of coupling required that the pipe be completely dry, requiring design and construction of a bypass for this piping. In doing so, an abandoned crossing of the Intracoastal was tested and tied into for the bypass. The project is in service and the bypass remains in the event of future damage to the system.

Reclaimed Watermain Project Pompano Beach, Florida

Chen Moore and Associates designed approximately 30,000 linear feet of reclaimed water distribution in the City of Lighthouse Point. The design is part of the City of Pompano Beach reclaimed water system expansion and it is located adjacent, just immediately south of the BCWWS North County Reclaimed Water expansion project.

Client

City of Pompano Beach
Nathaniel Watson
1201 NE 3rd Avenue
Pompano Beach, FL 33061
954.786.4024

Year Completed

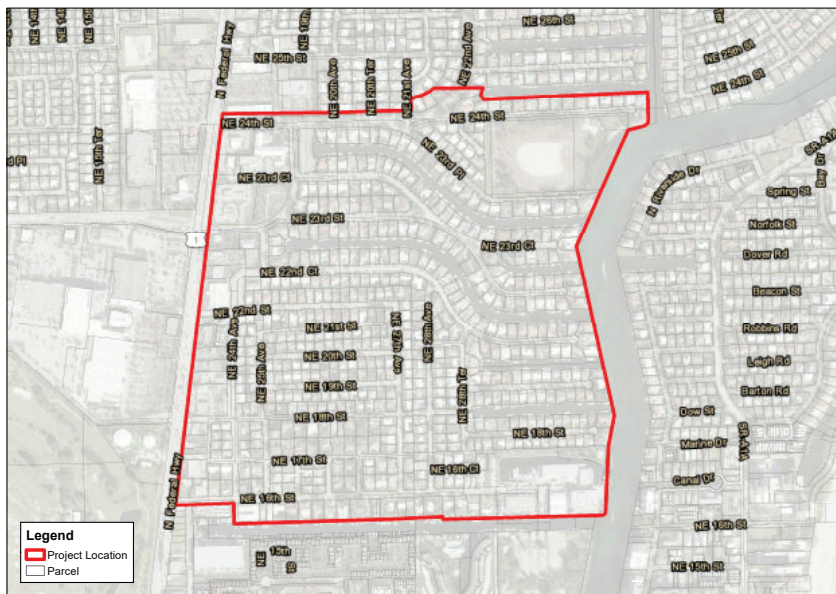
2020

Fee

\$35,900

Firm Role

Prime



CMA19-05 NE 22nd Ave Force Main Phase 2

Broward County, FL

Client

Broward County
Patrick MacGregor
2555 West Copans Road
Pompano Beach, FL 33069-1233
954.831.0904

Year Completed

2020

Fee

\$151,598

Firm Role

Prime

Chen Moore and Associates (CMA) will provide design services and services during construction on behalf of Broward County Water and Wastewater Services (BCWWS) for the installation of new force main along NE 39th Street between Federal Highway and NE 21st Way and NE 22nd Avenue from NE 21st Way to north of NE 41st Street within the City of Lighthouse Point. The new force main along NE 22nd Avenue and NE 39th Street includes the replacement of approximately 1,600 linear feet of 20-inch DIP force main.

CMA will provide Topographic Survey; Subsurface Utility Engineering; layout of the proposed utility improvements; Regulatory Permit Submittal; Bidding Assistance; Public Outreach; and Construction Observations.



References

TO-01 South River Forcemain Crossing Ft Lauderdale, Florida

Client

City of Fort Lauderdale
Daniel Fisher
100 N. Andrews Avenue
4th Floor
Fort Lauderdale, FL 33301
954.828.5850

Year Completed

2020

Fee

\$193,203

Firm Role

Prime

CMA is preparing the Design Criteria Package (DCP) for the South Middle River Force Main Crossing for the City of Fort Lauderdale, located along NE 19th Street / NE 21st Street between NE 22nd Avenue and Bayview Drive. The scope of work includes preliminary design and permitting of approximately 2,200 LF of 16" HDPE sanitary sewer force main to replace the existing 12" cast iron pipe force main which is currently out of service. This project includes approximately 1,410 LF of horizontal directional drill (HDD) of the 16" force main under the Middle River. CMA is preparing the DCP and has permitted the HDD with Broward County, SFWMD, U.S. Army Corps of Engineers (ACOE), and FDEP. CMA will also provide bidding assistance for this project.



TO-11 - P12352 - S. River Forcemain Crossing Design Review and CEI Services

City of Ft. Lauderdale, FL

Client

City of Fort Lauderdale
Diana Carrillo
100 N. Andrews Avenue
4th Floor
Fort Lauderdale, FL 33301

Year Completed

2020

Fee

\$98,709

Firm Role

Prime

CMA prepared a Design Criteria Package (DCP) and performed Construction Engineering and Inspection (CEI) services for the City of Fort Lauderdale Public Works Department for the replacement and upsizing of approximately 1,860 linear feet of 12” sanitary sewer forcemain in the Bal Harbour / Coral Ridge neighborhoods.

The project included a 16” horizontal directional drill (HDD) under the South Middle River and upland open-cut installation along NE 19th Street from NE 22nd Avenue and NE 21st Street to Bayview Drive. CMA prepared the DCP which included plans and specifications. CMA also performed permitting services with Broward County and FDEP. CMA performed CEI services during the Design-Build phase, including plans review, full time field representation, and project closeout services. The Design-Build construction cost was approximately \$1.3 Million.



Ft Lauderdale FM Rehab, HDD & Swageline (1-4)

Fort Lauderdale, Florida

Client

Murphy Pipeline Contractors Inc
Richard Crow
5400 S University Drive, Suite 301
Davie, FL 33328
954.842.4771

Year Completed

2018

Fee

\$836,710

Firm Role

Subconsultant

CMA was the prime consultant for the 30” Emergency Force Main Rehabilitation project in the City of Fort Lauderdale. This innovative design-build project, led by Murphy Pipeline Contractors (MPC), was undertaken to provide both mainline force main replacement for aging infrastructure and to provide additional redundancy in case of future issues.

The contract was divided into four (4) phases within the City of Fort Lauderdale. The nearly 20,000 linear feet of pipeline was rehabilitated through a combination of swagelining, directional drilling, and traditional open cut installation over these four phases. CMA provided planning, design, permitting, and engineering services during construction. Environmental compliance, subaqueous crossing, public involvement, and maintenance of traffic in the busy Sistrunk and Himmarshee Business Districts were some of the additional project complexities. CMA also provided dewatering permitting and groundwater modeling due to contaminated sites within quarter mile of the projects. This project was awarded the 2019 Project of the Year by the ASCE Broward Branch.



East Las Olas 12" FM Replacement Ft Lauderdale, Florida

Client

Murphy Pipeline Contractors Inc
Ronan Devlin
5400 S University Drive, Suite 301
Davie, FL 33328
954.842.4771

Year Completed

2020

Fee

\$115,000

Firm Role

Subconsultant

The City of Fort Lauderdale (CITY) entered into Consent Order (CO) Number 16-1487 with the Florida Department of Environmental Protection (FDEP) Office of the General Council on September 29, 2017. The CO identified various projects along with completion deadlines required to improve sanitary service within the CITY. The purpose of this project was to provide design-build services for the design, permitting, construction, testing, and startup of the Phase II Las Olas Boulevard Force Main Replacement. The project connects Pump Station D-37 on Lido Drive to the recently installed 16-inch force main that crosses under the Intracoastal Waterway. This proposed project included the installation of 16-inch high density polyethylene (HDPE) pipe under Las Olas Boulevard to connect Pump Station D-37 and Pump Station D-38 to the force main under the Intracoastal Waterway.

The project included approximately 3,000 LF of 16-inch HDPE force main along Las Olas Boulevard via horizontal directional drilling (HDD). This included three pulls of 1,600 LF, 900 LF and 500 LF. The three pulls were connected via open cut. In addition it included approximately 400 LF of 10-inch HDPE to connect proposed piping to the 10-inch discharge force main at Pump Station D-38 at SE 25th Avenue and for a future connection at Seven Isles Drive via open cut crossing Las Olas Boulevard. Las Olas Boulevard is a major road providing access to Fort Lauderdale Beach. Las Olas Boulevard is a busy corridor with multiple utilities including water mains, sewer, storm drainage, gas line and electrical duct banks. Chen Moore also performed dewatering calculations and obtained dewatering permits required due to challenging high water table only two feet below finished grade.

Chen Moore was responsible for all piping design, HDD calculations, MOT plans, permitting and certification.



Emergency Bypass 48" Forcemain Ft Lauderdale, Florida

Client

City of Fort Lauderdale
Krishan Kandial, P.E.
100 N. Andrews Avenue
4th Floor
Fort Lauderdale, FL 33301
954.828.4019

Year Completed

2018

Fee

\$1,200,000

Firm Role

Prime

CMA is responsible for the design, permitting, and construction observation of the replacement of the City of Fort Lauderdale's main transmission line going into the wastewater treatment plant. The new line consists of more than 22,000 linear feet of new pipe which will be installed via 12 horizontal directional drills (HDD) that range between 1,700 and 3,000 linear feet each to a depth of up to 70 feet. The new force main is mostly 48" HDPE pipe with some ductile iron pipe sections. The project route includes sensitive ecosystems including the crossing of South Middle River which require Benthic surveys for the subaqueous crossing, dewatering calculations, and permitting for construction within a quarter mile of contaminated areas with high-water table being close to the coastline. Crossing of the intracoastal (US Federal Waters) requires permitting through the US Army Corps of Engineers and the Department of Environmental Protection. There is a total of nine (9) jurisdictional agencies for this project. The project is an emergency project for the City of Fort Lauderdale which is being fast tracked to be completed (design, permitting, and construction) in 14 months. The project is a Design-Build project led by Murphy Pipeline Contractors with CMA as the lead Consultant.



NE 3rd Avenue Water Main Wilton Manors, Florida

Client

City of Wilton Manors
David Archacki
2020 Wilton Drive
Wilton Manors, FL 33305
954.390.2190

Year Completed

2016

Fee

\$47,405

Firm Role

Prime

The City of Wilton Manors retained Chen Moore and Associates (CMA) to prepare design plans for the replacement of the existing water mains in the northeast portion of the City limits. The project limits included NE 3rd Avenue between NE 21st Avenue and NE 26th Street. The project included the replacement of approximately 1,700 linear feet of 6-inch water main with 8-inch water main along with all existing water services, water meters, and meter boxes. The new HDPE water main was installed using pre-chlorinated pipe bursting methods throughout the project area. CMA designed the interconnections with the existing water main to remain along cross streets. CMA replaced the existing fire hydrants as necessary to ensure appropriate fire coverage.



NE 2nd Avenue Water Main Wilton Manors, Florida

Client

City of Wilton Manors
David Archacki
2020 Wilton Drive
Wilton Manors, FL 33305
954.390.2190

Year Completed

2016

Fee

\$38,835

Firm Role

Prime

The City of Wilton Manors retained Chen Moore and Associates (CMA) to prepare design plans for the replacement of the existing water mains in the northeast portion of the City limits. The project limits included NE 2nd Avenue between NE 26th Street and NE 28th Court and the service alleyway behind the shopping center at Andrews Avenue and Oakland Park Boulevard. The project included the replacement of approximately 1,200 linear feet of 6-inch water main with 8-inch water main along with all existing water services, water meters, and meter boxes. The new HDPE water main was installed using pre-chlorinated pipe bursting methods throughout the project area. CMA designed the interconnections with the existing water main to remain along cross streets. CMA replaced the existing fire hydrants as necessary to ensure appropriate fire coverage.



References

Wilton Drive Water Main Replacement Wilton Manors, Florida

Client

City of Wilton Manors
David Archacki
2020 Wilton Drive
Wilton Manors, FL 33305
954.390.2190

Year Completed

2018

Fee

\$96,175

Firm Role

Prime

CMA provided site investigation, topographic survey, utility coordination, design services, regulatory permitting, bidding assistance, and limited construction administration for the water main replacement along Wilton Drive between NE 19th Street and NE 26th Street and NE 21st Street between Wilton Drive and NE 3rd Avenue. CMA designed the interconnections to the existing water main to remain at intersections along Wilton Drive, which includes approximately 15 interconnections; the reconnection of the existing fire hydrants to the new water main or the replacement of the existing fire hydrants as necessary to ensure appropriate fire coverage, which included approximately 7 fire hydrants; and the reconnection of the existing water services to the new water main or the replacement of the existing water service, included approximately 13 water services.

CMA provided site investigation including a topographic survey and utility verification; design services including regulatory permit submittal; and construction administration including bidding assistance, document review, and construction oversight.

Murphy Pipeline Contractors served as the contractor.



References

NE 6th Avenue Water Main Replacement

Wilton Manors, Florida

Client

City of Wilton Manors
 David Archacki
 2020 Wilton Drive
 Wilton Manors, FL 33305
 954.390.2190

Year Completed

2020

Fee

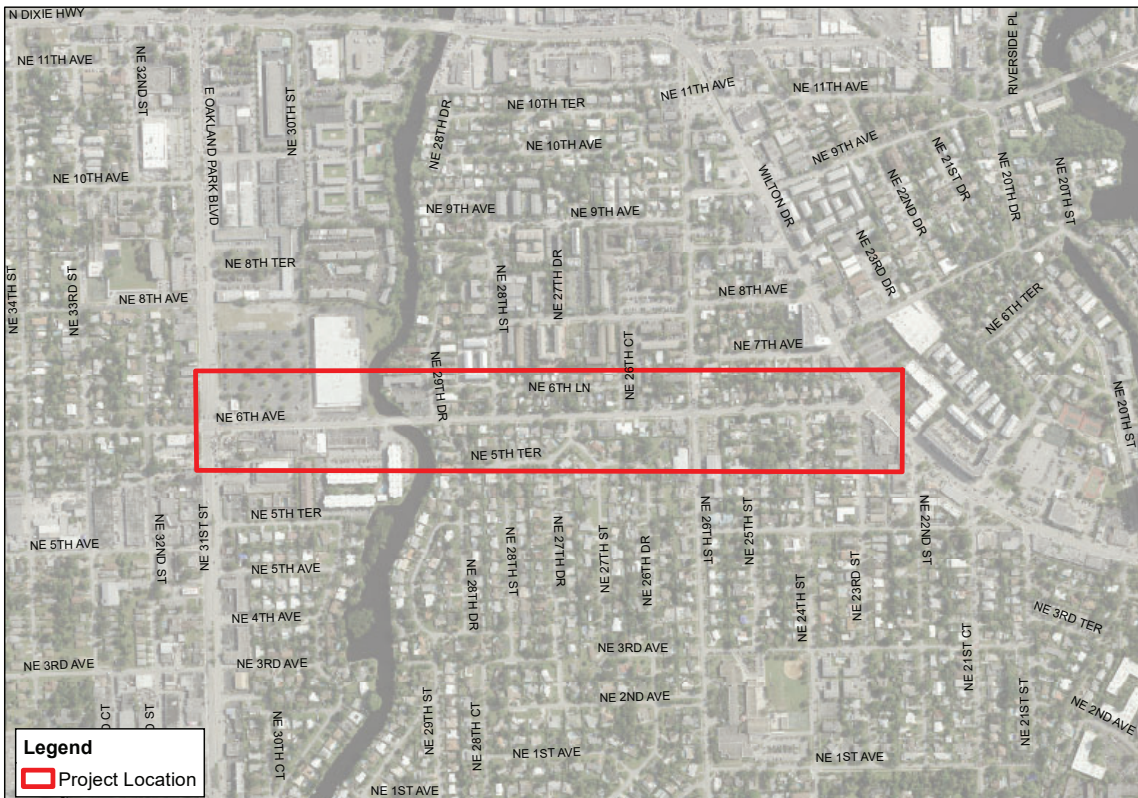
\$49,830

Firm Role

Prime

CMA will provide site investigation, topographic survey, utility coordination, design services, regulatory permitting, bidding assistance, and limited construction administration for this project. CMA develop the the design documents for the water main replacement along NE 6th Avenue between Wilton Drive and North Fork of the Middle River. The project includes the replacement of approximately 2,800 linear feet of 6-inch water main. The proposed water main will be HDPE pipe with 8-inch diameter installed via pre-chlorinated pipe bursting.

CMA will design the interconnections to the existing water main to remain at intersections along NE 6th Avenue; the reconnection of the existing fire hydrants to the new water main or the replacement of the existing fire hydrants as necessary to ensure appropriate fire coverage; and the reconnection of the existing water services to the new water main or the replacement of the existing water service. In addition to the water main replacement along NE 6th Avenue, CMA will prepare the technical specifications for the sandblasting and painted of the existing water main aerial crossing over the North Fork of the Middle River, which is attached to the existing bridge.



Jenada Isles Utility Improvement Project

Wilton Manors, Florida

Client

City of Wilton Manors
David Archacki
2020 Wilton Drive
Wilton Manors, FL 33305
954.390.2190

Year Completed

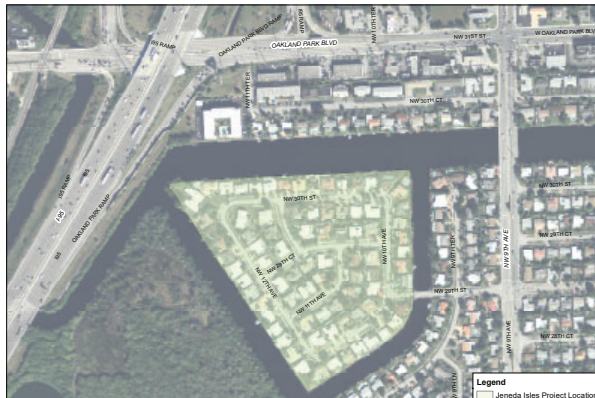
Ongoing

Fee

\$86,695

Firm Role

Prime



CMA is providing site investigation, topographic survey, utility coordination, design services, regulatory permitting, bidding assistance, and limited construction administration for the Jenada Isles Utility Improvement Project. CMA is responsible for the development of the design documents for the proposed utility improvements within the Jenada Isles neighborhood.

The proposed utility improvements within the Jenada Isles neighborhood include the following:

- Replace existing Lift Station #2 at northeast corner of NW 29th Street and NW 10th Avenue. The project includes the demolition of the existing lift station and the installation of a new submersible lift station adjacent to the current location. The proposed lift station will have duplex submersible pumps, which are installed within a new wetwell. The project will also include a new valve vault, new valves, new bypass piping connections, new instrumentation, new control panels, new telemetry, and associated sanitary piping to connect to the existing gravity sewer and existing force main.
- Replace existing 4-inch force main (approximately 350 LF) along NW 29th Street from Lift Station #2 to existing sanitary manhole at NW 9th Terrace. The proposed force main will be HDPE pipe with same diameter, which will be installed via either pipe bursting or directional drilling depending on the conditions at the existing canal crossing.
- Replace existing 4-inch AC water main (approximately 5,150 LF) throughout the neighborhood. The proposed water main will be HDPE pipe with 6-inch diameter installed via pre-chlorinated pipe bursting. The proposed improvements will also include the interconnections to the existing water main to remain at intersections along NE 11th Avenue and NW 9th Terrace, the replacement of the existing fire hydrants as necessary to ensure appropriate fire coverage, and the reconnection of the existing water services to the new water main.

NE 26th Street Water Main Replacement

Wilton Manors, Florida

CMA will provide site investigation, utility coordination, design services, and limited construction administration for this project. CMA will be responsible for the development of the design documents for the water main replacement along NE 26th Street between North Dixie Highway and Andrews Avenue.

Client

City of Wilton Manors
 David Archacki
 2020 Wilton Drive
 Wilton Manors, FL 33305
 954.390.2190

Year Completed

2020

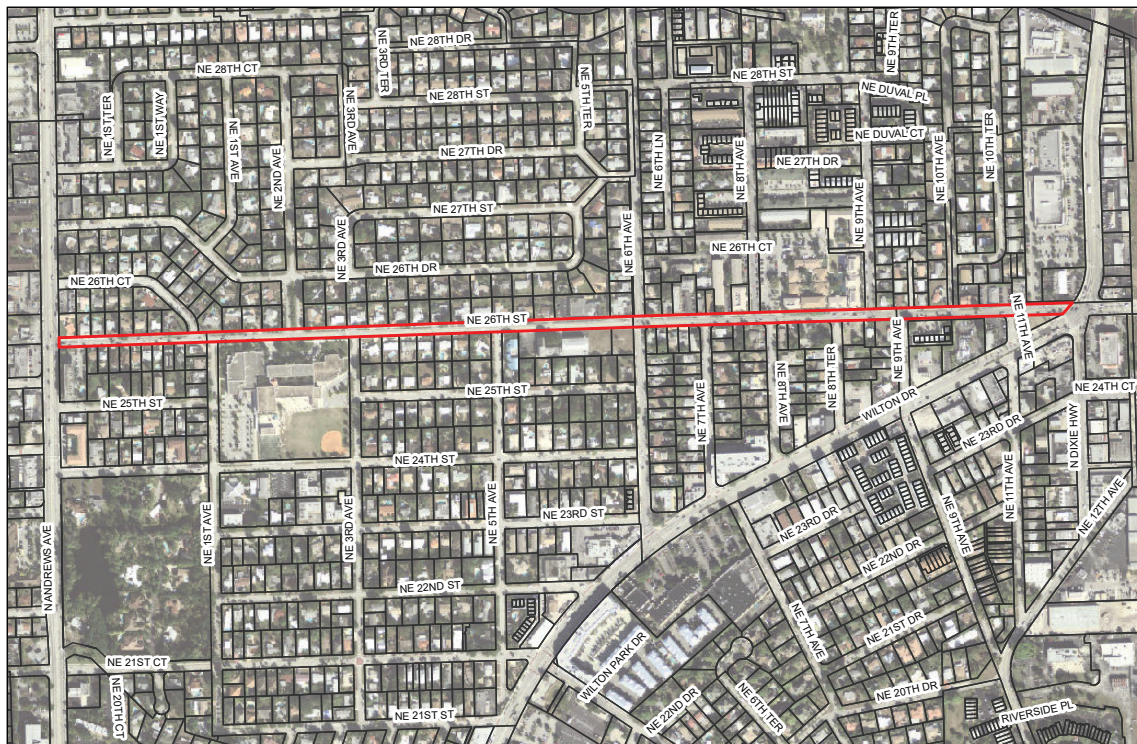
Fee

\$17,465

Firm Role

Prime

CMA will review all available topographic surveys, atlases, design drawings, and/or record drawings for the existing utilities within the project area to determine the configuration of existing conditions; prepare existing condition plans, water main plans, pavement markings and signage plans, and standard detail drawings for review by the City and the City's pipe bursting contractor; and prepare the final construction documents. CMA will also provide Construction Oversight.



Country Club Ranches Water Main Project

Miramar, Florida

Client

City of Miramar
 Ronnie Navarro
 13900 Pembroke Road
 Bldg. L - 1st Floor
 Miramar, FL 33027
 954.883.6825

Year Completed

2020

Fee

\$224,425

Firm Role

Prime

CMA is providing professional engineering services for the Country Club Ranches Water Main Project. CMA is completing the design and construction of a new water distribution system to services the Country Club Ranches community. Country Club Ranches is a developed, semi-rural, residential community, and is primarily served by private water wells and septic tanks. The project includes new water distribution system to include fire hydrants, valves, water services, air release assemblies and required appurtenances throughout the Country Club Ranches community in order to supply municipal water service to the residents.

The scope of services includes planning, engineering reporting, engineering design, technical specifications, contract preparation, permitting and construction management.



References

Hillsboro Beach Water Main Replacement Design/Construction Administration

Hillsboro Beach, Florida

Client

Town of Hillsboro Beach
 Mac Serda
 1210 Hillsboro Mile
 Hillsboro Beach, FL 33062
 954.427.4011

Year Completed

2020

Fee

\$409,582

Firm Role

Prime

CMA is providing engineering design services and construction administration for water improvement needs for the Town of Hillsboro Beach along A1A from SE 10th Street to the Hillsboro Inlet. CMA previously modeled and completed a system evaluation report determining the facilities in need of replacement. The improvements will include replacement of parallel water mains along the barrier island and has taken into consideration future needs, environment, pipe types, various installation methods, project coordination, and funding.



References

2017 Water Main Improvements Margate, Florida

The City of Margate wanted to install approximately 9,150 linear feet of water main to improve the level of service in various areas of the City. The improvements include distribution lines, services, fire protection, roadway and landscape restoration. Through Carollo Engineers, CMA was contracted to provide design, permitting and construction administration services for the water main improvements.

Client

Carollo Engineers
Eric Leveque, P.E.
703 Waterford Way Ste 805
Miami, FL 33126
305.261.2484

Year Completed

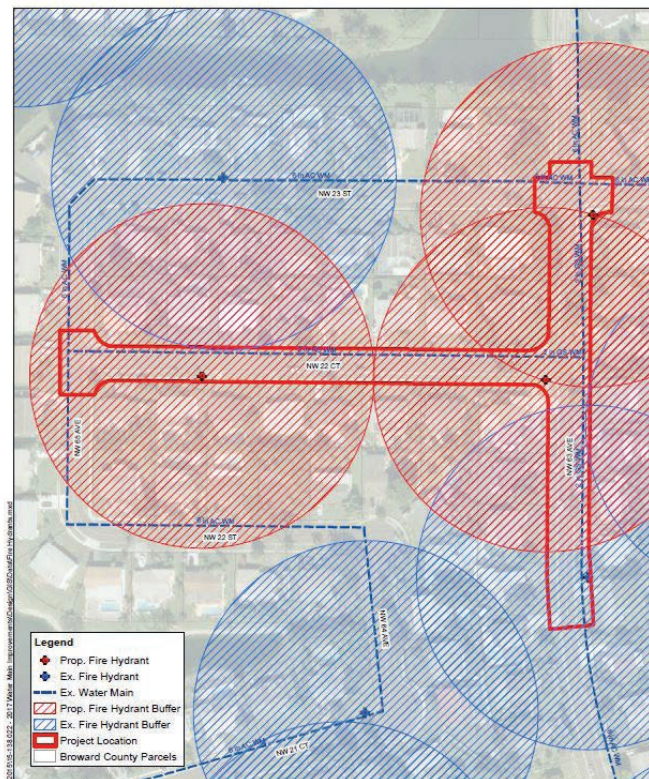
2017

Fee

\$350,685

Firm Role

Subconsultant



2018 Water Main Improvements Phase I

Margate, Florida

Client

Carollo Engineers
 Eric Leveque, P.E.
 703 Waterford Way Ste 805
 Miami, FL 33126
 305.261.2484

Year Completed

2018

Fee

\$234,633

Firm Role

Subconsultant

CMA is providing professional services to the City of Margate for the 2018 Water Main Improvements Phase I project. The City of Margate wishes to install approximately 11,500 linear feet of water main to improve the level of service in various areas of the City. The project includes:

- Construction of approximately 9,600 linear feet of new 6” diameter water main to replace existing 2” galvanized steel water main.
- Construction of approximately 1,900 linear feet of new 6” diameter water main to replace existing 6” asbestos cement water main
- Construction of water services from the new main to the existing water meters.
- Abandonment of the existing 2” galvanized steel and 6” asbestos cement water mains at replacement locations.
- Construction of approximately 60 linear feet of new 6” diameter water main and
- Installation of valves to improve isolation control of the water system including those recommended in the 2013 Water System Assessment completed by Carollo Engineers and Chen Moore & Associates.

CMA is providing survey, utility, geotechnical engineering, design, permitting and bidding assistance.



2019 Water Main Improvements - City of Margate

Margate, Florida

Client

City of Margate
 Milton Reinoso O.
 Environmental and Engineering Services
 901 NW 66th Avenue
 Suite A
 Margate, FL 33063
 954.972.0828 ext. 209

Year Completed

2019

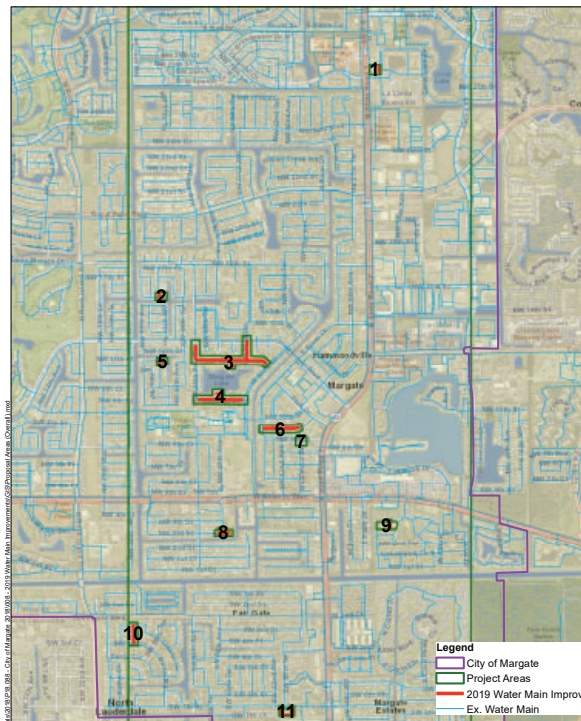
Fee

\$151,437

Firm Role

Prime

The City of Margate wishes to replace approximately 7,000 linear feet of existing water main to improve the level of service in various areas of the City which are 2” galvanized steel and 6-in asbestos cement pipes. The new water main size should be evaluated but are expected to be 6-inch diameter pipe for water quality. New water services from the new main to the existing water meters will replace existing water services. The existing water mains to be replaced will be abandoned in place and grout filled. In addition, propose valve locations shall improve isolation control of the water system, including those recommended in the 2013 Water System Assessment completed by Carollo Engineers and CMA. The proposed fire hydrants must comply with City code hydrant spacing requirements.



References

TOD SW 58th Ave Water Main Davie, Florida

Client

Town of Davie
Ronald Bolton
3500 NW 76th Avenue
Davie, FL 33024
954.797.1114

Year Completed

2020

Fee

\$29,781

Firm Role

Prime

CMA is the lead engineer for the SW 58th Street watermain extension for the Town of Davie Utilities Department. Improvements include approximately 3,500 linear feet of 8" PVC C-900 pipe with tees and stub-outs for future connections. The watermain is located in a residential area and as part of the design CMA will coordinate phasing of the construction to maintain traffic access to residential areas.



References

TOD Brentwood Water Main Improvements

Davie, Florida

Client

Town of Davie
 Renuka Mohammed
 6591 Orange Dr
 Davie, FL 33314-3348
 954.797.1114

Year Completed

2020

Fee

\$88,992

Firm Role

Prime

CMA is providing professional services for the coordination, design, permitting, bidding and construction administration of the Brentwood Watermain Improvements Project. The Brentwood Watermain Improvements Project entails abandoning existing 2", 4" and 6" water mains that are located within the Brentwood Townhouse Development and replacing them with new watermain and service lines to serve the existing properties within this development.

CMA is providing topographic survey & utility vacuum excavation; site investigation and utility designation; construction documents; regulatory agency permitting; bidding assistance; and construction administration.



TOD SW 36th Court Watermain Replacement (R-2018-097)

Davie, Florida

Client

Town of Davie
Renuka Mohammed
6591 Orange Dr
Davie, FL 33314-3348
954.797.1114

Year Completed

2021

Fee

\$81,235

Firm Role

Prime

The SW 36th Court Watermain Replacement Project entails abandoning approximately 2,500 linear feet of an existing 6" water main that runs along SW 36th Court between SW 55th Avenue and SW 61st Avenue. The existing pipe will be replaced with an 8" PVC. The existing pipe will be abandoned in place.

This scope of services will include the planning and design services necessary to prepare all required construction documents for the proposed infrastructure improvements within the Town of Davie.

It is anticipated that the design will incorporate open cut; however, trenchless technologies such as pipe bursting will be evaluated as part of the design. Addition of fire hydrants a stub-outs for future connections are part of the scope.

Flamingo Road Reclaimed Water Main Design Build Miramar, Florida

Client

Southern Underground Industries
 Juan Barrenche
 3075 NW South River Dr
 Miami, FL 33142
 954.650.4699

Year Completed

2017

Fee

\$123,680

Firm Role

Subconsultant

The City of Miramar retained Southern Underground Industries, Inc. and 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.



Septic Tank Elimination Area 2-F - D2 Sanitary Sewer Collection System Septic Tank Elimination Area 2 Broward County, FL

As a subconsultant to Thompson and Associates, CMA will provide design services and regulatory permitting for the design of a new sanitary sewer submersible lift station, in addition to regulatory permitting and quality assurance, quality control of the proposed sanitary sewer improvements within an industrial area called Septic Tank Elimination Area 2-F D2 for Broward County Water and Wastewater Services. CMA is providing site investigation including and sanitary flow analysis and design services including regulatory permit submittal. CMA will also assist with geohydraulic testing services and preparation of record drawings during construction.

Client

Thompson & Associates, Inc. Civil Engineering

James Thompson

PO Box 22398

Fort Lauderdale, FL 33335

954.761.1073

Year Completed

2020

Fee

\$70,016

Firm Role

Subconsultant



References

Lift Station #3 Replacement Wilton Manors, Florida

Client

City of Wilton Manors
David Archacki
2020 Wilton Drive
Wilton Manors, FL 33305
954.390.2190

Year Completed

2015

Fee

\$59,105

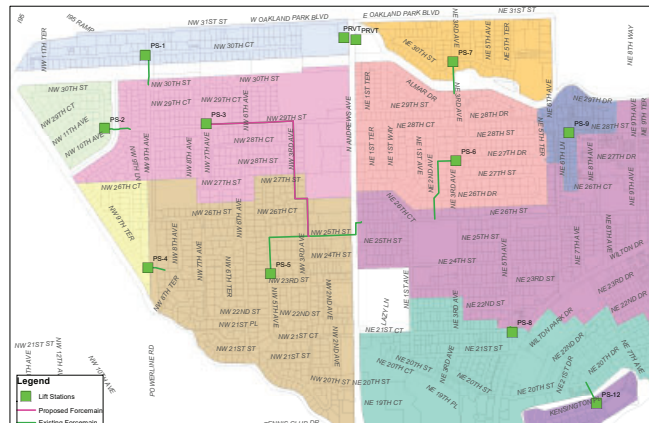
Firm Role

Prime

CMA provided professional engineering services for the Lift Station #3 Replacement Project. CMA provided site investigation, topographic survey, geotechnical investigation, utility coordination, hydraulic modeling, design services, regulatory permitting, bidding assistance, and limited construction administration for this project.

CMA also assisted with the replacement of the existing force main prior to the replacement of Lift Station #3 by using pipe bursting installation methods to minimize the impacts to the neighborhood and to limit the restoration costs typically required with open cut installation methods. CMA performed Regulatory Permit Submittal and Additional Construction Administration for the additional design services for the Force Main Replacement.

The lift station project included the demolition of the existing lift station and the installation of a new submersible lift station adjacent to the current location. The lift station has duplex submersible pumps which are installed within a new wetwell. The project also included a new valve vault, new valves, new bypass piping connections, new instrumentation, new control panels, new telemetry, and associated sanitary piping to connect to the existing gravity sewer and existing force main.



References



Lift Station #6 Replacement Wilton Manors, Florida

CMA will provide site investigation, topographic survey, geotechnical investigation, utility coordination, hydraulic modeling, design services, regulatory permitting, bidding assistance, and limited construction administration for the replacement of Lift Station #6 in Wilton Manors.

CMA is providing site investigation including geotechnical investigation, document review, and sanitary flow analysis; design services including regulatory permit submittal; and construction administration which includes bidding assistance, document review, and construction oversight.

Client

City of Wilton Manors
David Archacki
2020 Wilton Drive
Wilton Manors, FL 33305
954.390.2190

Year Completed

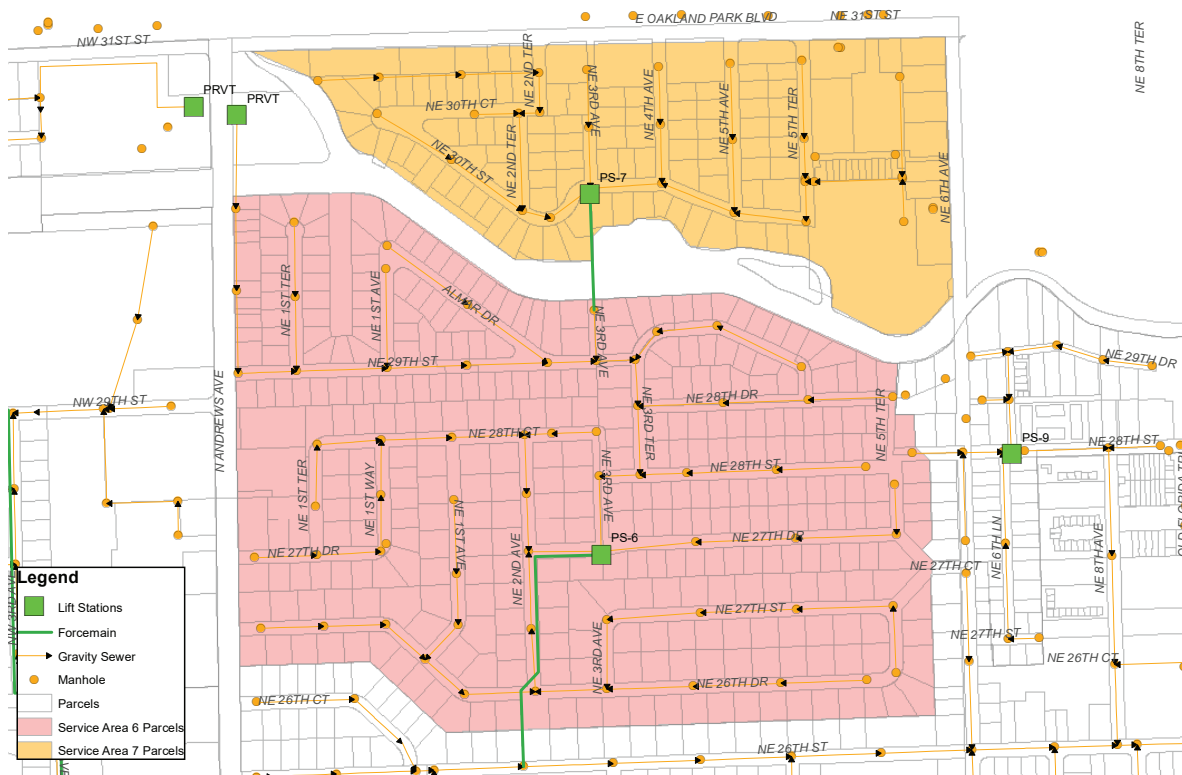
2017

Fee

\$39,785

Firm Role

Prime



References

Lift Station #12 Replacement Project Wilton Manors, Florida

CMA is providing professional engineering services on the Lift Station #12 Replacement Project. CMA is providing site investigation, topographic survey, geotechnical investigation, utility coordination, hydraulic modeling, design services, regulatory permitting, bidding assistance, and limited construction administration for this project. CMA is responsible for the development of the design documents for the replacement of Lift Station #12.

Client

City of Wilton Manors
David Archacki
2020 Wilton Drive
Wilton Manors, FL 33305
954.390.2190

Year Completed

2019

Fee

\$79,395

Firm Role

Prime



TO-10 - P12470 - NW 15th Avenue Streetscape

City of Ft. Lauderdale, FL

Client

City of Fort Lauderdale
 Karen Warfel
 Transportation & Mobility
 Department
 290 NE 3rd Avenue
 Fort Lauderdale, FL 33301
 954.828.3798

Year Completed

2020

Fee

\$169,985

Firm Role

Prime

The City has requested that CMA provide professional services to enhance the performance and aesthetic condition of NW 15th Avenue. The scope of work is primarily identified as developing and implementing a Complete Streets approach to the corridor to enhance safety and aesthetics for the community. Specific instruments to be included are traffic calming, a shared use path, sidewalk improvements, bring the corridor up to current Americans with Disabilities Act (ADA) standards, crosswalks, pedestrian lighting, landscape islands, landscape enhancements, and street furnishings.



TO-05 SW 2nd Ave Parking Improvements

Fort Lauderdale, Florida

Client

City of Fort Lauderdale
 Shiao Ching Low
 290 NE 3 Avenue
 Fort Lauderdale, FL 33301
 954.828.3779

Year Completed

2020

Fee

\$58,820

Firm Role

Prime

CMA is providing engineering design services, permitting, bidding and post design services for parking improvements on SW 2nd Avenue. The proposed parking improvements will convert two existing sodded medians with no curbing into angled parking and will create approximately 40 new public parking spaces. The project will also include speed humps, cross walks, minor landscaping improvements at the ends of the islands and stormwater drainage. CMA is providing preliminary investigation; construction documents; regulatory agency permitting and coordination; and bidding services.



NE 8th Terrace Parking Lot Wilton Manors, Florida

Client

City of Wilton Manors
David Archacki
2020 Wilton Drive
Wilton Manors, FL 33305
954.390.2190

Year Completed

2013

Fee

\$29,480

Firm Role

Prime

The City of Wilton Manors retained Chen Moore and Associates (CMA) to prepare the construction documents for the Kids In Distress Parking Project. The parking improvements are located on the southeast corner of NE 26th Street and NE 8th Terrace across from the Kids In Distress Facility. The City wished to construct a new surface parking lot for the purpose of increasing the number of parking spaces available to the public. The parking lot will be constructed on three properties, which include a ¼ acre vacant lot and two residential lots located immediately to the south. The vacant lot is currently owned by Kids In Distress and will be leased to the City for the proposed parking lot. The two residential lots were recently purchased by the City for the proposed parking lot. The project included the construction of a new asphalt parking lot along with associated landscaping, drainage, solar powered lighting, and sidewalk areas along the perimeter of the property. CMA was responsible for providing professional services necessary to develop construction documents for the proposed parking lot.



NE 23rd Drive Parking Wilton Manors, Florida

Client

City of Wilton Manors
David Archacki
2020 Wilton Drive
Wilton Manors, FL 33305
954.390.2190

Year Completed

2018

Fee

\$30,070

Firm Role

Prime

The City of Wilton Manors retained Chen Moore and Associates (CMA) to prepare the construction documents for the NE 23rd Drive Parking Project. The proposed parking improvements are located on the southwest corner of NE 23rd Drive and NE 11th Avenue. The City wishes to construct a new surface parking lot for the purpose of increasing the number of parking spaces available to the public. The proposed parking lot will be constructed on the vacant property located at 1008 NE 23rd Drive, which was recently purchased by the City for the proposed parking lot. The project will include the construction of a new asphalt parking lot along with associated landscaping, drainage, lighting, fencing, and sidewalk areas along the perimeter of the property.

NE 16th Avenue Roadway Improvements

Wilton Manors, Florida

Client

City of Wilton Manors
 David Archacki
 2020 Wilton Drive
 Wilton Manors, FL 33305
 954.390.2190

Year Completed

2016

Fee

\$29,840

Firm Role

Prime



The City of Wilton Manors requested Chen Moore and Associates (CMA) to prepare design plans which include new bike lanes, a new continuous sidewalk along west side and various traffic safety enhancements to NE 16th Avenue. The study limits include NE 16th Avenue between NE 26th Avenue at the south end and the existing bridge just north of NE 28th Drive at the northern City limits, which includes approximately 1,500 linear feet of 50-foot wide public right-of-way. The cross section of NE 16th Avenue within the study area encompasses two uncurbed travel lanes with adjacent grass swales and some limited pedestrian walkways. The roadway has a posted speed limit of 30 MPH within in this residential neighborhood. The City has observed high travel speeds along this corridor since it can be used as an alternate route by motorists to bypass main arterial roadways. The City wishes to investigate various roadway improvements to NE 16th Avenue which would reduce vehicular speeds and enhance pedestrian safety in the area. CMA will review the impacts of the various potential roadway improvements, which include but are not limited to the following items:

- Addition of stop sign at intersection with NE 27th Drive
- Construction of raised intersection with NE 27th Drive
- Addition of pedestrian crosswalks on NE 16th Avenue
- Addition of speed humps on NE 16th Avenue
- Installation of bike lanes along NE 16th Avenue
- Installation of curbing and sidewalk along NE 16th Avenue
- Installation of additional safety signage
- Installation of additional pavement markings

NE 26th Street Improvements Wilton Manors, Florida

Client

City of Wilton Manors
Todd DeJesus
2020 Wilton Drive
Wilton Manors, FL 33305
954.390.2105

Year Completed

2020

Fee

\$130,785

Firm Role

Prime

The City of Wilton Manors wishes to complete a roadway improvement along a portion of NE 26th Street within the City limits. The project is partially funded by FDOT through their Local Agency Program (LAP), which will define the project deadlines. The project limits include the public right-of-way of NE 26th Street from North Dixie Highway on the east to Andrews Avenue on the west. This section of NE 26th Street includes approximately 4,700 linear feet of roadway within public right-of-way which varies between 50 feet and 60 feet wide. The intention of the project is to implement the following elements along NE 26th Street within the project limits:

- Install new bicycle lanes along the corridor on both sides of roadway
- Install new curbing and gutter where necessary to accommodate new roadway section
- Install new continuous pedestrian sidewalks to accommodate new roadway section
- Install new ADA compliant ramps where required
- Install existing drainage facilities to accommodate new roadway section
- Install stamped asphalt pedestrian crosswalks where feasible

In order to implement new bicycle lanes along NE 26th Street, the roadway cross section will likely need to be modified along the majority of the project limits. The modified roadway cross section will be wider than the existing roadway cross section, which will likely require the reduction of some existing grass swale areas and driveway approaches along with the relocation of some existing drainage facilities. The configuration of the existing roadway cross section at the intersections with Andrews Avenue, NE 6th Avenue, and North Dixie Highway could prevent the implementation of continuous bicycle lanes across these intersections due to available right-of-way limitations.

Key West Bight Historic Seawall Assessment

Key West, Florida

Client

City of Key West
John Castro
201 William Street
Key West, FL 33040
305.809.3803

Year Completed

2014

Fee

\$3,805

Firm Role

Prime

Chen Moore and Associates, along with United Engineering, conducted a visual assessment of the wood piles for the City of Key West at the Key West Bight Marina. The purpose of the assessment was to evaluate the condition of the existing wood piles and braces on the City-owned piers. Wood piles were assessed from the dock and deterioration at the tidal range of the piling was documented. Approximately 1,965 linear feet of seawall was assessed in order to provide the information necessary to assess the condition (location, magnitude, type, and rate of deterioration) of the seawall, above and below the waterline.



Lauderhill EWP Canal 26, 28 & 29 Bank Stabilization and Debris Removal Project

Lauderhill, Florida

Client

City of Lauderhill
J Cala, P.E.
5581 W. Oakland Park Blvd.
Lauderhill, FL 33313
954.730.2961

Year Completed

2013

Fee

\$82,620

Firm Role

Prime

Chen Moore and Associates provided engineering services to the City of Lauderhill for the Lauderhill EWP Canal 26, 28, and 29 Improvements Project. The canal improvements included several types of bank improvements utilizing stone rip rap, sand cement bags, geotube and sheet piles. The project was partially funded by NRCS which requires that it been completed within a strict time frame. CMA provided CEI services and contract administration services on this project. The total length of the project's three canals add up to 4,495 feet.



Westside Park Baseball Field

Deerfield Beach, Florida

Client

City of Deerfield Beach
Kara Petty
150 NE 2nd Ave.
Deerfield Beach, FL 33441
954.480.4483

Year Completed

2014

Fee

\$181,565

Firm Role

Prime

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.



North Shore Bandshell Park Improvements

Miami Beach, Florida

Client

Borrelli & Partners Inc
 Jim Borrelli
 2600 South Douglas Road, Suite
 801
 Coral Gables, FL 33134
 305.665.8852

Year Completed

2016

Fee

\$44,000

Firm Role

Subconsultant

This project consists of proposed improvements to the existing Bandshell Park located east of Collins Avenue between 72nd and 73rd Streets within the City of Miami Beach. The project includes a new walkway connecting the park to the beachwalk at 72nd Street; the widening of the south sidewalk at 73rd Street which will require either the removal or reconfiguration of on-street parking; the demolition of the bus shelter; landscaping, outdoor accent and security lighting; reconfiguration and/or addition of walkways; installation of an electronic marquee; installation of the "Beatles Mandala", a mosaic tile artwork; and new urban elements such as drinking fountains, trash containers and bike racks.

Chen Moore and Associates provided services including civil engineering, landscape architecture and irrigation design work that includes conceptual drawings for the 72nd Street walkway and 73rd Street sidewalk; design development/final design submittals; estimates of probable construction cost; government permitting (including Miami Beach, PERA – formerly DERM, FDOT, FDEP, and Fish & Wildlife); bidding assistance; and construction administration services.



New Park, 2200 SW 9th Ave and 910 SW 22nd Rd
Miami, FL

Chen Moore and Associates is providing professional landscape architecture and civil engineering services for the development of concept plans for a new park proposed at 2200 SW 9th Avenue and 910 SW 22nd Road, Miami, FL in the Roads neighborhood. The scope of work includes data collection, site analysis and code research, stakeholder engagement (in Spanish and English), conceptual design and opinion of probable cost. This project is funded by the Miami Forever Obligation Bond. The project is currently in permitting.

Client

City of Miami
 Marisol Martinez Salazar
 444 SW 2nd Avenue, 8th Floor
 Miami, FL 33130
 305.416.1219

Year Completed

Ongoing

Fee

\$88,299

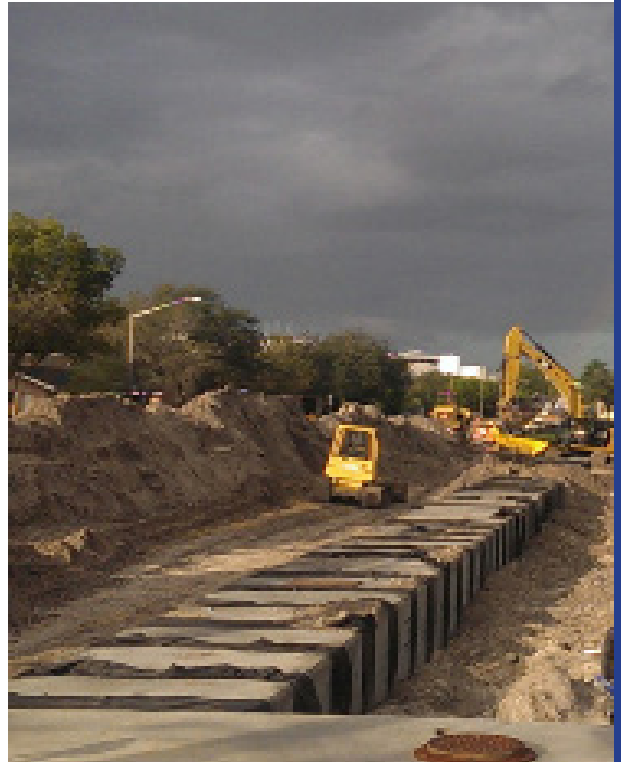
Firm Role

Prime



References

Section 6 - Project Team Form



CHEN MOORE AND ASSOCIATES

**Request for Qualifications (RFQ) E-20-20
CONTINUING CONTRACT FOR CIVIL ENGINEERING
SERVICES FOR VARIOUS CITY PROJECTS**

PROJECT TEAM FORM



COMPLETE THE PROJECT TEAM FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE FORM IN ITS ENTIRETY AND INCLUDE THE FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB FOR THE RLI IN THE EBID SYSTEM.

PROJECT TEAM

RLI NUMBER E-20-20

Federal I.D.# 59-2739866

PRIME

Role	Name of Individual Assigned to Project	Number of Years Experience	Education, Degrees
Principal-In-Charge	Peter Moore, P.E., F.ASCE, ENV SP, LEED AP	22	B.S, M.S.
Project Manager	Jason McClair, P.E., CFM, LEED AP	23	B.S.
Asst. Project Manager	Jennifer Smith, P.E. Dan Davila, P.E.	13 13	B.S. B.S.
Other Key Member	Safiya Brea, P.E., LEED AP	18	B.S
Other Key Member	Cris Betancourt, RLA	22	B.S., M.S

SUB-CONSULTANT

Role	Company Name and Address of Office Handling This Project	Name of Individual Assigned to the Project
Surveying	Stoner and Associates, Inc. 4341 SW 62nd Avenue Davie FL 33314	James Stoner, PSM
Landscaping	Chen Moore and Associates 500 West Cypress Creek Road Suite 630 Fort Lauderdale, FL 33309	Cris Betancourt, RLA
Engineering	Chen Moore and Associates 500 West Cypress Creek Road Suite 630 Fort Lauderdale, FL 33309	Jennifer Smith, P.E.
Other Key Member Environmental	The Chappell Group, Inc. 714 East McNab Road Pompano Beach FL 33060	Tyler Chappell
Other Key Member Geotechnical	Pan Geo Consultants, LLC 8464 W SR 84 Davie, FL 33324	Paul Catledge, P.E.
Other Key Member Electrical	C&W Engineering 2775 Vista Parkway, G-6 West Palm Beach FL 33411	Michael A. Guida, P.E.
Other Key Member Structural Engineering	MUEngineers Inc. 3440 NE 12th Avenue Oakland Park, FL 33334	Marcus Unterweger, P.E., S.I., LEED AP
(use attachments if necessary)		
Coastal Engineering	Cummins Cederberg 901 Progresso Drive Suite 205 Fort Lauderdale, FL 33304	Jason Cummins, P.E.



Section 7 - Organizational Chart



ORGANIZATIONAL CHART

CMA's management plan involves the extensive involvement of top management staff and the integration of the City's staff with our team. CMA top management is expected to maintain an active role in any project, no matter its size or complexity. For the City of Pompano Beach, CMA top management expects to be active in all projects to the extent necessary to complete and execute the projects successfully. Top management for CMA is comprised of Peter Moore, P.E., LEED AP and Dan Davila, P.E.. Such participation by top management provides the required direction and leadership required to successfully complete projects.

Top management involvement is individually developed for each project based on its specific requirements and any special requirements requested by the City.

The time spent on the City's projects by our top management is likely to consist of the following activities:

- Meeting with City staff to review project progress and CMA's quality of service and products.
- Meeting with City staff and managers to review project status and discuss any pending or outstanding project issues
- Meeting with the City's project manager (Jason McClair, P.E., CFM, LEED AP) to review project schedules, budgets, and progress of the work
- Review of contractual matters that are required
- Providing direction on key project issues and overall project direction
- Meeting with regulatory agencies from time to time as may be needed

For this RFQ, CMA has assigned a Deputy Project Manager to support Jason McClair, P.E., CFM, LEED AP to best serve the flexibility and variety of projects set forth by the City. Jennifer Smith, P.E., a senior engineer with many years of experience in Pompano Beach, shall serve as the civil engineering Deputy Project Manager. This strategy allows CMA to handle multiple projects with the highest level of service, vision and effectiveness.

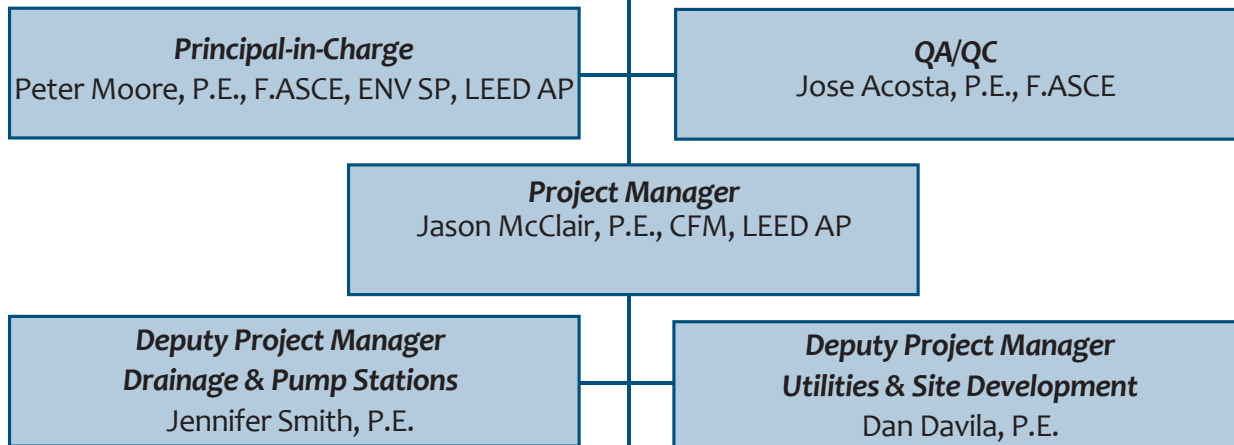
Experience has taught CMA that the most successful projects are those where our clients assume a principal part in decision making with the CMA team. As a result, CMA strives to integrate our clients in the various projects we undertake. This integration of the City staff and the CMA and Associates team can be achieved as follows:

- Organizationally, through the team structure that is initially developed
- Through structured team and progress meetings that integrate decision making with City staff
- Through communications on the project to the various levels at the City which will be used to encourage team integration

The project team has been structured to promote integration of the City staff into the project team. City staff will play a key role in the review function of all projects, being part of the technical review team on every project. As such, all key technical and management decisions will be reviewed by this technical review team which will be composed of key City staff, CMA technical experts, and other designated members on a project specific basis. This organizational structure helps promote integration of the City staff in several ways:

- City staff becomes very familiar with all key project decisions and understands technical criteria and conclusions.
- City staff has a voice in key decisions, whether these are technical or management in nature.
- City and Chen and Associates staff develop into a "team" by working together on the project and making project decisions together.

Structured team and progress meetings will also provide a mechanism to promote integration of City staff. Again, these are regular monthly meetings that are held with the City and CMA staff to discuss all pertinent aspects and issues of the various projects. These meetings also help promote staff integration as the staff becomes intimately familiar with each project and the Chen Moore and Associates staff working on the project. More importantly, such meetings create a regular structured forum for the discussion of important issues to both the City and CMA, thus, creating an integrated team.



Support Staff/Subconsultants	
<p>Drainage Design David Castro, P.E. Teresa Lewis, E.I.</p> <p>Utilities Safiya Brea, P.E., LEED AP Andres Rivera, ENV SP</p> <p>Site Development Joel Brownsey, P.E. Carlos Tijerino</p> <p>Landscape Architecture Cris Betancourt, RLA Eric Harrison, RLA</p> <p>Construction Administration Derrick Smith, CFM, LEED AP Jose McCray</p> <p>Surveying / Subsurface Utility Engineering James Stoner, PSM</p>	<p>Environmental Permitting Tyler Chappell Kathryn Bongarzone</p> <p>Geotechnical Pan Geo Consultants, LLC</p> <p>Electrical Michael Guida, P.E. Jose Reyes</p> <p>Structural Engineering Marcus Unterweger, P.E., S.I., LEED AP Ricardo Madriz, P.E., LEED AP</p> <p>Coastal Engineering Jason Cummins, P.E. Jordon Cheifet, P.E., CFM Jason Taylor, P.E. Christie Hurley Jessica Ward Jon Cunningham, E.I. Penny Cutt</p>

Support Staff/Subconsultants	
<p>The Chappell Group, Inc.*+##~ Stoner and Associates, Inc.~ C&W Engineering</p>	<p>Pan Geo Consultants, LLC MUEngineers Inc.~ Cummins Cederberg~</p>

Key		
*Pompano Beach Local Business +Broward County DBE	#State of Florida WBE ~Broward County CBE	`SFWMD SBE

Organizational Chart



Section 8 - Statement of Skills and Experience of Project Team



STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM

CMA's staffing plan involves the integration of the City's staff with our team. CMA top management is expected to maintain an active role in any project, no matter its size or complexity. For the City of Pompano Beach, CMA top management expects to be active in all projects to the extent necessary to complete and execute the projects successfully.

Peter Moore, P.E., F. ASCE, ENV SP, LEED AP is ultimately responsible for all day to day operations of the firm. Mr. Moore has over 23 years of engineering experience and continues to be involved in the successful completion of public infrastructure projects throughout South Florida. Mr. Moore will continue to be the Client Manager for all work with the City of Pompano Beach Mr. Moore will serve as Principal-in-Charge for all projects under this contract.



Jose Luis Acosta, P.E., F.ASCE has over 22 years of engineering experience in various sectors, including municipal continuing service contracts, K-12 education, higher education, healthcare, transportation, and commercial/residential/industrial private development. His background includes neighborhood improvement projects, streetscape enhancements, utility relocation, on- and off-site infrastructure design, bidding assistance, and construction administration services for several municipalities throughout Miami-Dade, Broward, and Palm Beach Counties. Mr. Acosta will serve as the primary QA/QC manager for all projects under this contract.



Jason McClair, P.E., CFM, LEED AP has over 24 years of engineering experience in utility infrastructure design, regulatory permitting, geotechnical engineering, and computer aided flow modeling for stormwater collection, water distribution, and sanitary transmission systems. He has worked as project manager on multiple previous projects for the City of Pompano Beach, which include the City's Stormwater Master Plan, the Avondale Stormwater Improvements, and the Old Pompano Infrastructure Improvements along with multiple lift station rehabilitation projects. Mr. McClair will serve as project manager for all projects under this contract.



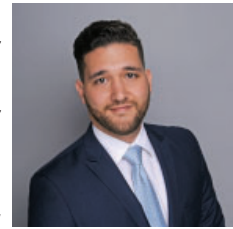
Jennifer Smith, P.E. has over 14 years of engineering experience on public infrastructure projects throughout Broward County, including on various projects in the City of Pompano Beach. Her project experience includes the Pompano Beach Stormwater Master Plan, various drainage projects in Pompano Beach and Coral Springs, and multiple Broward County UAZ Water and Sewer Improvements projects. Ms. Smith will serve as deputy project manager for any drainage improvement projects and lift station rehabilitation projects under this contract.



Daniel Davila, P.E. has over 20 years of engineering experience with water and wastewater facilities, facilities planning, utilities master planning, infrastructure renewal, construction management, and rate and financial studies, which some recent water main and reclaimed water main projects for the City of Pompano Beach. Mr. Davila has assisted numerous clients that range from municipalities, counties, federal agencies, healthcare districts, residential developers and commercial developers to educational institutions. Mr. Davila will serve as deputy project manager for any utility improvement projects and any site development projects under this contract.



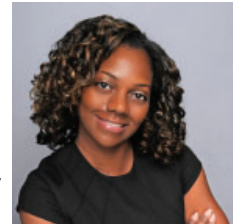
David Castro, P.E. is a Senior Engineer in our Fort Lauderdale office and has extensive project experience with the design and permitting of drainage and sanitary sewer improvements along with the associated construction oversight. In addition, he conducted several studies that included directional engineering analysis for trenchless pipeline installations, river analysis, storm sewer design, flood analysis, erosion control, hydrologic and hydraulic studies, and irrigation studies. Mr. Castro will provide engineering design support on any drainage improvements and utility improvements, particularly any using trenchless technologies, under this contract.



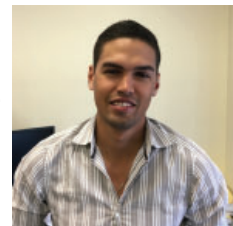
Teresa Lewis, E.I. is an associate engineer in our Fort Lauderdale office and has extensive project experience with the modeling, design, and permitting of drainage sewer improvements along with the associated construction oversight. Her project experience includes the design and permitting of various stormwater improvement projects for the City of Pompano Beach, the City of Fort Lauderdale, the City of Coral Springs, the City of Dania Beach, and Broward County Aviation Department. She also serves as the primary stormwater modeler on the FLL Stormwater Master Plan Update. Ms. Lewis will provide any hydraulic/hydrologic modeling, design, and permitting for any drainage improvements under this contract.



Safiya Brea, P.E., LEED AP has over 18 years of experience with neighborhood improvement projects, including the design of roadways, sidewalks, drainage, water, and wastewater infrastructure. As a senior civil engineer, she has managed projects ranging from thousands of dollars to multi-million dollar, large-scale neighborhood improvement programs. Ms. Brea has managed and designed streetscape improvements, roundabouts, lift stations, stormwater improvements and master plans, and booster pump station basis of design reports. Ms. Brea will provide engineering design support on any utility improvements under this contract.



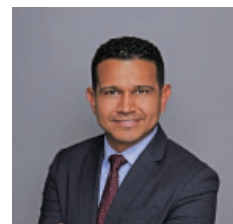
Andres Rivera, ENV SP is an associate engineer in our Fort Lauderdale office and has extensive project experience with various public infrastructure projects, which include utility improvements, lift station rehabilitation, and site development. Mr. Rivera will provide engineering design support on any utility improvements under this contract.



Joel Brownsey, P.E. is a senior engineer in our Fort Lauderdale office and is responsible the design and permitting for site development and utility infrastructure improvements for both public and private clients. Additionally, Mr. Brownsey has experience in utility coordination and construction engineering support for neighborhood improvement projects and utility transmission and distribution installation projects. Mr. Brownsey will provide engineering design support on any site development projects under this contract.



Carlos Tijerino has 11 years of experience in the field civil engineering with a focus on construction managements. His expertise includes project administration, procurement, and construction management of site development projects and structural restoration projects. He has experience with generating a cost savings, regulatory compliance, increased profit margin, quality control and assurance and noticeable safety successes. Mr. Tijerino will provide engineering design and construction support on any site development projects or any seawall restoration projects under this contract.



Cristobal Betancourt, RLA has over 23 years of experience providing planning and landscape architecture design solutions for public and private sector clients including the City of Pompano Beach. 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. Mr. Betancourt has a large portfolio of parks and recreation projects throughout South Florida including passive parks, sports fields, linear parks and parks master plans. Mr. Betancourt's streetscaping experience includes the Wiles Road project in Coral Springs; Euclid Streetscape Improvements in Miami Beach; Downtown Coral Springs Streetscaping; Fort Lauderdale Beach Park; Old Pompano Area Improvements, and Lauderdale-by-the-Sea E. Commercial Blvd Streetscape & Drainage Improvements. Mr. Betancourt will serve as deputy project manager for landscape architecture along with any streetscaping projects, parks projects, and public space projects under this contract.



Eric Harrison, RLA has over 15 years of landscape architecture experience with several municipalities throughout South Florida including the City of Pompano Beach. He has provided design services for parks and recreation, university campuses, K-12 education, corporate office, commercial developments and healthcare facilities. Mr. Harrison has a large portfolio of parks and recreation projects throughout South Florida including passive parks, sports fields, linear parks and parks master plans. Mr. Harrison's streetscaping experience includes Downtown Coral Springs Streetscaping; Old Pompano Area Improvements; South Pointe Phase III/IV/V - Right-of-Way Improvement Project in Miami Beach; Aviation Blvd Roadway & Hardscape Improvements in Marathon; the Wiles Road project in Coral Spring; and Coconut Creek Parkway in Margate. Mr. Harrison will provide landscape architecture services on any streetscaping projects, parks projects, and public space projects under this contract.



Derrick Smith, CFM, LEED AP has over 14 years of experience as a construction project administrator and engineering inspector. He has assisted municipal clients in the role of construction project administrator and owner's representative on several projects which included vertical construction as well as site development. In his role, Mr. Smith was the liaison between the Owner and Contractor performing the oversight of infrastructure, various municipal buildings and utility installations. His duties included managing budgets and schedules and monitoring construction activities. Mr. Smith has been responsible for the development of several projects for the City of Pompano Beach. In his role of owner's representative, he was also responsible for coordinating project activities, construction document interpretation, approving pay requests, assisting with dispute resolution and providing directives to multiple parties including contractors and consultants. Mr. Smith will provide construction administration support on any projects under this contract.



Jose McCray has over 35 years of construction experience, from surveying through project management. His present responsibilities include coordination and monitoring of construction activities including governmental projects and site development for residential, commercial and industrial use projects. He serves as liaison to owners, contractors, subcontractors, residents and governmental agencies. Additional responsibilities include overseeing the review/processing of change orders, progress payments and reports, and representation of owners and engineers at pre-construction meetings and other related conferences. Mr. McCray will provide construction administration support on any projects under this contract.

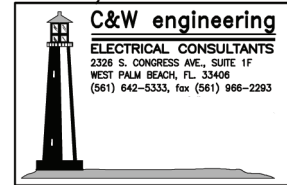


Subconsultants

Stoner and Associates, Inc. was founded in September of 1988 by James D. Stoner, P.S.M. Their mission is to provide quality Land Surveying services, while utilizing the latest technology and techniques. Stoner & Associates, Inc. is a Professional Land Surveying Consultant to numerous municipalities, including City of Fort Lauderdale, Broward County Aviation Department, South Florida Water Management District, Broward College, Town of Davie and City of Sunrise. Stoner and Associates will provide surveying services for this contract. Stoner and Associates, Inc. will provide Surveying/SUE for this contract.



C&W Engineering, established in 1992, provides electrical engineering services for municipal and industrial facilities. The firm is committed to utilizing state-of-the-art hardware, software and communication tools, which allow them to provide quality documentation, including construction plans and technical specifications. C&W Engineering is centrally located in West Palm Beach, Florida and conveniently serves clients throughout Southeast, Southwest and Central Florida. Past project locations have included Florida, North Carolina, Bermuda and Grand Bahamas Island.



MUEngineers, Inc. was founded by Marcus Unterweger, P.E., S.I., LEED AP who has experience in the design of educational facilities, municipal facilities, high-rise buildings, healthcare facilities, churches, clubhouses, building restoration, office buildings, pedestrian bridges and parking garages. From 1998

thru 2010, Mr. Unterweger was a Project manager and engineering manager at TRC Worldwide Engineering, Inc. Mr. Unterweger was responsible for managing design teams and project management for both public and private sector clients. His responsibilities include contract negotiations, analyzing workload and projecting manpower needs, development of plans and specifications, design team management, quality assurance, construction contract administration, project follow-through, and coordination with all individuals involved in the successful completion of our projects.

PanGeo Consultants, LLC has over 13 years of experience in the field of geotechnical and structural engineering. PanGeo Consultants specializes in the field of geotechnical engineering with a focus on the South Florida region. PanGeo will provide geotechnical engineering services for this project.



The Chappell Group, Inc. (TCG) was founded in 2005 and provides environmental consulting services to both the public and private sectors serving the South Florida area and the Caribbean. TCG is headquartered in Pompano Beach and has an office in Miami Shores. For over 13 years, TCG has provided environmental permitting services for various projects, project phases and permit compliance. TCG coordinates with various local, State, and Federal agencies during the pre-application process, the permitting processes, and the compliance phase. We have experience with agencies such as United States Army Corps of Engineers, South Florida Water Management District, Florida Department of Environmental Protection, Florida Game and Freshwater Fish Commission, and United States Fish and Wildlife Service. TCG will provide Environmental services for this contract.



The **Cummins Cederberg** team of engineers and marine scientists have extensive experience in coastal and marine related projects. Their project experience includes numerous \$100M+ waterfront and infrastructure projects with private and public clients. Their team has unique comprehensive knowledge ranging from initial field investigations, such as bathymetric surveying, tide/current/wave measurements, underwater structural inspections, environmental assessments, and soil borings, to detailed analyses utilizing complex computer models and the engineering design and permitting of coastal dredge and fill projects, marine structures, seawalls, marinas and ports.

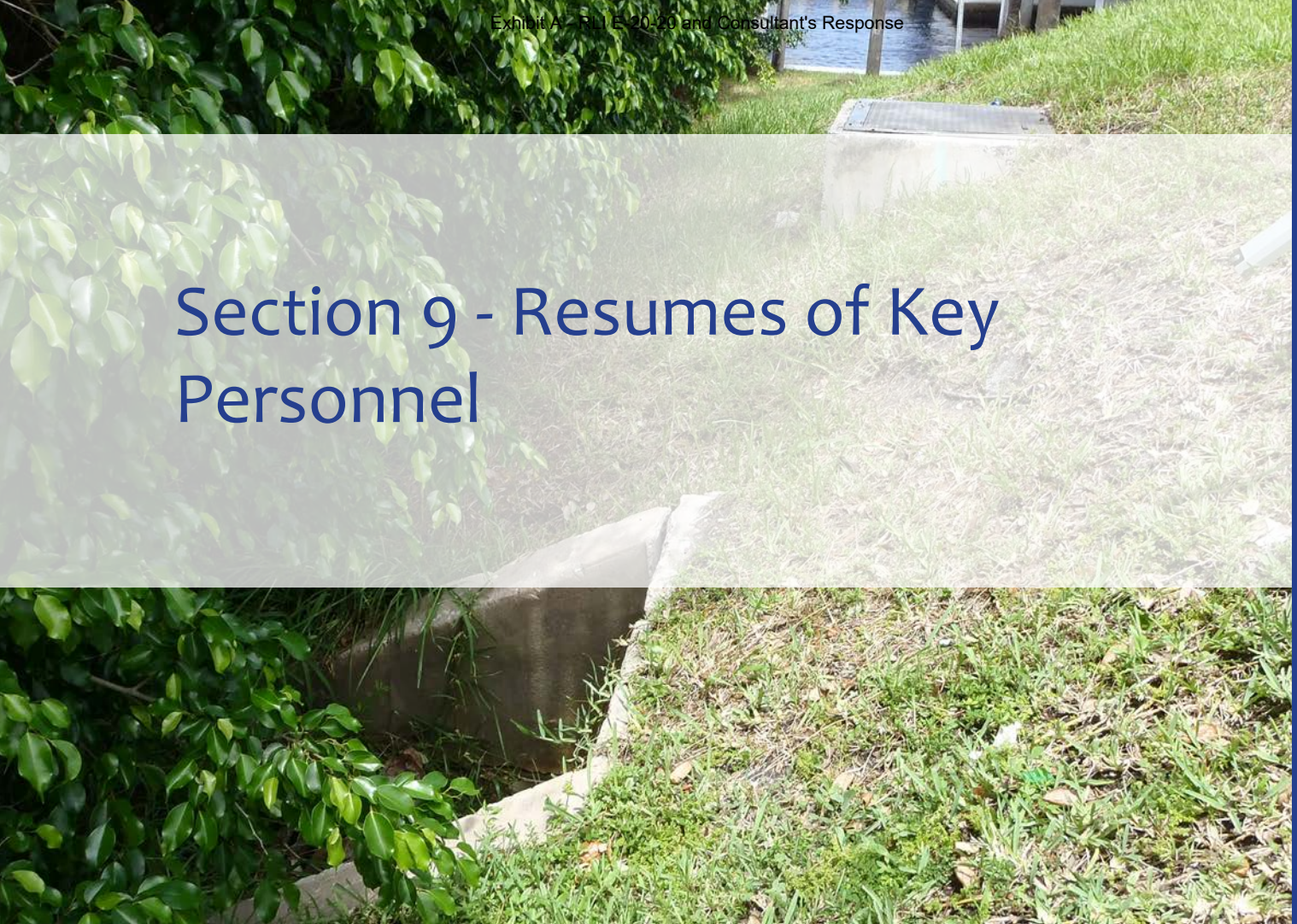
CUMMINS | CEDERBERG
Coastal & Marine Engineering

Cummins Cederberg recognizes that sea level rise and climate change are creating continually evolving conditions, which include a new reality to which we must adapt. Our coastal engineers routinely evaluate the potential impacts of local sea level rise and create flood mitigation roadmaps to address coastal flooding and shoreline protection projects throughout South Florida. They have a team of experts who understand coastal processes and the drivers of climate change. Cummins Cederberg will develop a general and technical approach, which includes both analytic (desktop) and numerical modeling of coastal flooding. Their approach will consider existing elevations, future conditions, storm surge impacts, and sea level rise projections.



Statement of Skills and Experience of Project Team

Section 9 - Resumes of Key Personnel



RESUMES OF KEY PERSONNEL

Resumes of Key Personnel

**Peter M Moore, P.E., F. ASCE,
ENV SP, LEED AP
President and CEO**

Education

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

Envision Sustainability
Professional
Certified Stormwater
Inspector
LEED Accredited
Professional

Awards

ACEC-FL President's Award
ASCE Broward Branch Young
Civil Engineer of the Year
Award (2001, 2004) (Local)
ASCE Edmund Friedman
Younger Member Award
2009 (National)
Florida Engineering Society
Most Active Member Award
(2000) (Local)
Florida Engineering Society
Young Engineer of the Year
Award 2009 (State-wide)
South Florida Business
Journal Top 40 Under 40
Award 2009 (Regional)
University of Florida
Outstanding Young Alumnus
Award 2009 (State-wide)

As the President of the firm, Mr. Moore is ultimately responsible for all day to day operations of the firm. Mr. Moore has over 23 years of engineering experience and continues to be involved in the successful completion of public infrastructure projects throughout South Florida. Mr. Moore will continue to be the Client Manager for all work with the City of Pompano Beach. Mr. Moore will serve as Principal-in-Charge for all projects under this contract.

Project Experience

Avondale Stormwater Improvements. The primary purpose of the Avondale Stormwater Improvement Project is to reduce the flooding depth and duration within the neighborhood during significant storm events. Based on our analysis of the various system improvement alternatives during the Stormwater Master Plan, the implementation of a stormwater pumping system into the SFWMD G16 Canal would be the most effective option for reducing the peak flood stage and reducing the flood duration within the Avondale Neighborhood by increasing the discharge rate via the existing outfalls when the canal levels are elevated. Stormwater improvements within the Avondale neighborhood will encounter limitations due to the regulatory requirements on the stormwater discharges via the system outfalls. Since this neighborhood discharges into the SFWMD G-16 Canal, which is currently listed as an impaired water body by the Florida Department of Environmental Protection, the level of water quality improvements is critical to enable the potential implementation of a new stormwater improvements within the Avondale neighborhood.

Pompano Beach Stormwater Master Plan. Chen Moore and Associates (CMA) prepared a Stormwater Master Plan (SWMP) for the entire City of Pompano Beach limits, which encompasses approximately 24.6 square miles. The City operates and maintains its own stormwater facilities within City right-of-way and properties to provide flood control and water quality treatment within the City limits. Existing drainage facilities within the City include catch basins, manholes, control structures, gravity pipes, outfalls, and canals that connect to the Intracoastal Waterway.

The purpose of this SWMP was to identify any deficiencies in the existing stormwater management system in regards to flood control and water quality treatment. The SWMP will allow the City to understand the necessary drainage improvements over the next few years and to budget accordingly. CMA recommended system improvements to meet regulatory Level of Service (LOS) criteria in regards to peak flood stage, peak discharge, and water quality. Within the SWMP, CMA provided recommendations for improvements to the system that will eliminate or reduce the ponding currently encountered within right-of-way areas during or after rainfall.

events. The SWMP will define the existing stormwater management system; summarize the results of the stormwater model for the existing conditions; prioritize the proposed improvements to the stormwater management system; and provide an estimated cost to construct these upgrades to the stormwater management system.

As part of this project, CMA assisted the City with the documentation of how the Floodplain Management Plan was prepared per the requirements of FEMA. The SWMP will be configured to address the relevant FEMA requirements related to Floodplain Management, including Activity 510 – Floodplain Management Planning, Activity 530 – Flood Protection, and Activity 540 – Drainage System Maintenance. CMA will submit the Floodplain Management Plan to FEMA for review.

Ft Lauderdale FM Rehab, HDD & Swageline (1-4). CMA was the prime consultant for the 30” Emergency Force Main Rehabilitation project in the City of Fort Lauderdale. This innovative design-build project, led by Murphy Pipeline Contractors (MPC), was undertaken to provide both mainline force main replacement for aging infrastructure and to provide additional redundancy in case of future issues.

The contract was divided into four (4) phases within the City of Fort Lauderdale. The nearly 20,000 linear feet of pipeline was rehabilitated through a combination of swagelining, directional drilling, and traditional open cut installation over these four phases. CMA provided planning, design, permitting, and engineering services during construction. Environmental compliance, subaqueous crossing, public involvement, and maintenance of traffic in the busy Sistrunk and Himmarshee Business Districts were some of the additional project complexities. CMA also provided dewatering permitting and groundwater modeling due to contaminated sites within quarter mile of the projects. This project was awarded the 2019 Project of the Year by the ASCE Broward Branch.

Broward County UAZ 110/111 & 113 Water Sewer Improvements 113B (RFP No. R1356803P1). The Water and Sanitary Sewer Improvements for the UAZ 110/111 & 113 Project include the improvements to the existing water distribution system, sanitary sewer system, and transmission systems within the project area along with the restoration of surface areas disturbed for the construction of said improvements. All projects combined a total area of over 1000 acres within multiple cities. The existing system being replaced consists of approximately 168,100 LF of water mains, 122,100 LF of sanitary sewer mains, and 23,600 LF force main. The existing water main consists of asbestos cement, cast iron, ductile iron, galvanized steel, and polyvinyl chloride pipe ranging from 2” - 24” in diameter size. The sanitary sewer consists of vitrified clay, fold and form liner, cured in place liner, and ductile iron pipe ranging from 8” – 15” in diameter size. The force main consists of asbestos cement, cured in place liner, ductile iron, and polyvinyl chloride pipe ranging from 6” – 16” in diameter size. There are 8 Broward County lift stations in these UAZ areas and 1 private lift station which sanitary sewer systems will need to connect to. Two of these stations will need rehabilitation/replacement. The restoration of roadways, sidewalks, driveways, and landscape areas will need to be performed as needed for water and sanitary sewer improvement construction. The project is currently under construction, in which CMA is performing construction administration for three separate bid packages.

Downtown Coral Springs Streetscaping. CMA 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.

Jose Luis Acosta, P.E., F.ASCE
Vice President

Education

Masters of Business
 Administration, Master of
 Business Administration,
 Auburn University, 2003
 Bachelor of Science, Civil
 Engineering, University of
 Miami, 1999
 Bachelor of Science,
 Architectural Engineering,
 University of Miami, 1999

Registration

Professional Engineer,
 Florida, 63827, 2004
 Natl. Council of Examiners
 for Eng. & Surveying, 41987

Professional Affiliations

American Society of Civil
 Engineers
 American Water Works
 Association
 Cuban American Association
 of Civil Engineers
 Design-Build Institute of
 America
 Florida Engineering
 Foundation
 Florida Engineering
 Leadership Institute
 Florida Engineering Society
 Florida Engineers Political
 Action Committee
 Florida Healthcare Engineers
 Association
 Leadership Florida
 National Society of
 Professional Engineers
 Society of Military Engineers
 Urban Land Institute

Certifications

ICPR Modeler (Streamline
 Technologies)
 Stormwater Management
 Inspector

Mr. Acosta has over 22 years of engineering experience in various sector, including municipal continuing service contracts, K-12 education, higher education, healthcare, transportation, and commercial/residential/industrial private development. His background includes neighborhood improvement projects, streetscape enhancements, utility relocation, on- and off-site infrastructure design, bidding assistance, and construction administration services for several municipalities throughout Miami-Dade, Broward, and Palm Beach Counties. Mr. Acosta will serve as the primary QA/QC manager for all projects under this contract.

Project Experience

Lauderdale-by-the-Sea E. Commercial Blvd Streetscape & Drainage Improvements. Chen Moore and Associates provided utility coordination; roadway and stormwater design; government permitting; and bidding assistance for the development of the design of streetscape and stormwater improvements to the downtown core and adjacent areas east of Bougainvillea Drive in the Town of Lauderdale by the Sea.

The goals of this project were to create an urban gathering place that provides beautiful vistas of the sea, provides increased shade from the intense sun and heat, enhances the pedestrian environment and safety while maintaining vehicular access to the businesses located on the street and improving vehicular circulation and parking, provides for expansion of outdoor dining areas, and pays tribute to the Town's history.

Chen Moore and Associates used GIS to assist with utility coordination and base map preparation; assisting with the design concepts and cost estimates; recommending alternatives for paving design for the roadway and pedestrian traffic areas; prepared initial roadway alignment plan; prepared initial drainage and utility relocation plans; completed a stormwater design model; submitted for government permits; and provided bidding assistance for this project.

Downtown Coral Springs Streetscaping. CMA 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 the projects.

Ft Lauderdale FM Rehab, HDD & Swageline (1-4). CMA was the prime consultant for the 30" Emergency Force Main Rehabilitation project in the City of Fort Lauderdale. This innovative design-build project, led by Murphy Pipeline Contractors (MPC), was undertaken to provide both mainline force main replacement for aging infrastructure and to provide additional redundancy in case of future issues.

The contract was divided into four (4) phases within the City of Fort Lauderdale. The nearly 20,000 linear feet of pipeline was rehabilitated through a combination of swagelining, directional drilling, and traditional open cut installation over these four phases. CMA provided planning, design, permitting, and engineering services during construction. Environmental compliance, subaqueous crossing, public involvement, and maintenance of traffic in the busy Sistrunk and Himmarshee Business Districts were some of the additional project complexities. CMA also provided dewatering permitting and groundwater modeling due to contaminated sites within quarter mile of the projects. This project was awarded the 2019 Project of the Year by the ASCE Broward Branch.

Westside Park Baseball Field. 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.

TO-01 South River Force Main Crossing. CMA is preparing the Design Criteria Package (DCP) for the South Middle River Force Main Crossing for the City of Fort Lauderdale, located along NE 19th Street / NE 21st Street between NE 22nd Avenue and Bayview Drive. The scope of work includes preliminary design and permitting of approximately 2,200 LF of 16" HDPE sanitary sewer force main to replace the existing 12" cast iron pipe force main which is currently out of service. This project includes approximately 1,410 LF of horizontal directional drill (HDD) of the 16" force main under the Middle River. CMA is preparing the DCP and has permitted the HDD with Broward County, SFWMD, U.S. Army Corps of Engineers (ACOE), and FDEP. CMA will also provide bidding assistance for this project.

**Jason J McClair, P.E., CFM,
LEED AP
Vice President**

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
SWMM Modeling Software Training
Advanced Work Zone Traffic Control (FICE)

Mr. McClair has over 24 years of engineering experience in utility infrastructure design, regulatory permitting, geotechnical engineering, and computer aided flow modeling for stormwater collection, water distribution, and sanitary transmission systems. He has worked as project manager on multiple previous projects for the City of Pompano Beach, which include the City's Stormwater Master Plan, the Avondale Stormwater Improvements, and the Old Pompano Infrastructure Improvements along with multiple lift station rehabilitation projects. Mr. McClair will serve as project manager for all projects under this contract.

Project Experience

Old Pompano Area Improvements. 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.

Avondale Stormwater Improvements. The primary purpose of the Avondale Stormwater Improvement Project is to reduce the flooding depth and duration within the neighborhood during significant storm events. Based on our analysis of the various system improvement alternatives during the Stormwater Master Plan, the implementation of a stormwater pumping system into the SFWMD G16 Canal would be the most effective option for reducing the peak flood stage and reducing the flood duration within the Avondale Neighborhood by increasing the discharge rate via the existing outfalls when the canal levels are elevated. Stormwater improvements within the Avondale neighborhood will encounter limitations due to the regulatory requirements on the stormwater discharges via the system outfalls. Since this neighborhood discharges into the SFWMD G-16 Canal, which is currently listed as an impaired water body by the Florida Department of Environmental Protection, the level of water quality improvements is critical to enable the potential implementation of a new stormwater improvements within the Avondale neighborhood. CMA completed a Preliminary Design Report for the Avondale neighborhood to assess the feasibility, the regulatory permit restrictions, the cost impacts, and the flood reduction effectiveness of each potential improvement alternative within the neighborhood. CMA prepared a Preliminary Design Report which outlined the impacts of the potential stormwater

improvement alternatives and presents the recommended stormwater improvements within the Avondale neighborhood. Within the Stormwater Master Plan, the recommended stormwater improvements for the Avondale neighborhood include the construction of a new stormwater pump station, which pumps into potential dry retention area(s) throughout the study area before overflowing into the SFWMD G16 Canal along with local stormwater improvements throughout the public right-of-way areas in the neighborhood.

Jenada Isles Utility Improvement Project. CMA is providing site investigation, topographic survey, utility coordination, design services, regulatory permitting, bidding assistance, and limited construction administration for the Jenada Isles Utility Improvement Project. CMA is responsible for the development of the design documents for the proposed utility improvements within the Jenada Isles neighborhood. The proposed utility improvements within the Jenada Isles neighborhood include the following:

- Replace existing Lift Station #2 at northeast corner of NW 29th Street and NW 10th Avenue. The project includes the demolition of the existing lift station and the installation of a new submersible lift station adjacent to the current location. The proposed lift station will have duplex submersible pumps, which are installed within a new wetwell. The project will also include a new valve vault, new valves, new bypass piping connections, new instrumentation, new control panels, new telemetry, and associated sanitary piping to connect to the existing gravity sewer and existing force main.
- Replace existing 4-inch force main (approximately 350 LF) along NW 29th Street from Lift Station #2 to existing sanitary manhole at NW 9th Terrace. The proposed force main will be HDPE pipe with same diameter, which will be installed via either pipe bursting or directional drilling depending on the conditions at the existing canal crossing.
- Replace existing 4-inch AC water main (approximately 5,150 LF) throughout the neighborhood. The proposed water main will be HDPE pipe with 6-inch diameter installed via pre-chlorinated pipe bursting. The proposed improvements will also include the interconnections to the existing water main to remain at intersections along NE 11th Avenue and NW 9th Terrace, the replacement of the existing fire hydrants as necessary to ensure appropriate fire coverage, and the reconnection of the existing water services to the new water main.

NE 26th Street Water Main Replacement - Amendment 36. CMA will provide site investigation, utility coordination, design services, and limited construction administration for this project. CMA will be responsible for the development of the design documents for the water main replacement along NE 26th Street between North Dixie Highway and Andrews Avenue.

CMA will review all available topographic surveys, atlases, design drawings, and/or record drawings for the existing utilities within the project area to determine the configuration of existing conditions; prepare existing condition plans, water main plans, pavement markings and signage plans, and standard detail drawings for review by the City and the City's pipe bursting contractor; and prepare the final construction documents. CMA will also provide Construction Oversight.

Lift Station #12 Replacement Project. CMA is providing professional engineering services on the Lift Station #12 Replacement Project. CMA is providing site investigation, topographic survey, geotechnical investigation, utility coordination, hydraulic modeling, design services, regulatory permitting, bidding assistance, and limited construction administration for this project. CMA is responsible for the development of the design documents for the replacement of Lift Station #12.

Daniel E Davila, P.E.
**Senior Engineer / Branch
 Manager**

Education

Bachelor of Science, Civil
 Engineering, University of
 Florida, 2000

Registration

Professional Engineer,
 Florida, 63014, 2005

Professional Affiliations

American Academy of
 Environmental Engineers
 Florida Engineering Society
 Florida Healthcare Engineers
 Association

Certifications

Stormwater Management
 Inspector

Mr. Davila has over 20 years of engineering experience with water and wastewater facilities, facilities planning, utilities master planning, infrastructure renewal, construction management, and rate and financial studies, which some recent water main and reclaimed water main projects for the City of Pompano Beach. Mr. Davila has assisted numerous clients that range from municipalities, counties, federal agencies, healthcare districts, residential developers and commercial developers to educational institutions. Mr. Davila will serve as deputy project manager for any utility improvement projects and any site development projects under this contract.

Project Experience

Ft Lauderdale FM Rehab, HDD & Swageline (1-4).CMA was the prime consultant for the 30" Emergency Force Main Rehabilitation project in the City of Fort Lauderdale. This innovative design-build project, led by Murphy Pipeline Contractors (MPC), was undertaken to provide both mainline force main replacement for aging infrastructure and to provide additional redundancy in case of future issues.

The contract was divided into four (4) phases within the City of Fort Lauderdale. The nearly 20,000 linear feet of pipeline was rehabilitated through a combination of swagelining, directional drilling, and traditional open cut installation over these four phases. CMA provided planning, design, permitting, and engineering services during construction. Environmental compliance, subaqueous crossing, public involvement, and maintenance of traffic in the busy Sistrunk and Himmarshee Business Districts were some of the additional project complexities. CMA also provided dewatering permitting and groundwater modeling due to contaminated sites within quarter mile of the projects. This project was awarded the 2019 Project of the Year by the ASCE Broward Branch.

Fort Lauderdale Forcemain Las Olas Phase II - Job No. 19FL016. The City of Fort Lauderdale (CITY) entered into Consent Order (CO) Number 16-1487 with the Florida Department of Environmental Protection (FDEP) Office of the General Council on September 29, 2017. The CO identified various projects along with completion deadlines required to improve sanitary service within the CITY. The purpose of this project was to provide design-build services for the design, permitting, construction, testing, and startup of the Phase II Las Olas Boulevard Force Main Replacement. The project connects Pump Station D-37 on Lido Drive to the recently installed 16-inch force main that crosses under the Intracoastal Waterway. This proposed project included the installation of 16-inch high density polyethylene (HDPE) pipe under Las Olas Boulevard to connect Pump Station D-37 and Pump Station D-38 to the force main under the Intracoastal Waterway. The project included approximately 3,000 LF of 16-inch HDPE force main along Las Olas Boulevard via horizontal directional drilling (HDD). This included three pulls of 1,600 LF, 900 LF and 500 LF. The three pulls were

connected via open cut. In addition it included approximately 400 LF of 10-inch HDPE to connect proposed piping to the 10-inch discharge force main at Pump Station D-38 at SE 25th Avenue and for a future connection at Seven Isles Drive via open cut crossing Las Olas Boulevard. Las Olas Boulevard is a major road providing access to Fort Lauderdale Beach. Las Olas Boulevard is a busy corridor with multiple utilities including water mains, sewer, storm drainage, gas line and electrical duct banks. Chen Moore also performed dewatering calculations and obtained dewatering permits required due to challenging high water table only two feet below finished grade. Chen Moore was responsible for all piping design, HDD calculations, MOT plans, permitting and certification.

Emergency Bypass 48" Forcemain. CMA is responsible for the design, permitting, and construction observation of the replacement of the City of Fort Lauderdale's main transmission line going into the wastewater treatment plant. The new line consists of more than 22,000 linear feet of new pipe which will be installed via 12 horizontal directional drills (HDD) that range between 1,700 and 3,000 linear feet each to a depth of up to 70 feet. The new force main is mostly 48" HDPE pipe with some ductile iron pipe sections. The project route includes sensitive ecosystems including the crossing of South Middle River which require Benthic surveys for the subaqueous crossing, dewatering calculations, and permitting for construction within a quarter mile of contaminated areas with high-water table being close to the coastline. Crossing of the intracoastal (US Federal Waters) requires permitting through the US Army Corps of Engineers and the Department of Environmental Protection. There is a total of nine (9) jurisdictional agencies for this project. The project is an emergency project for the City of Fort Lauderdale which is being fast tracked to be completed (design, permitting, and construction) in 14 months. The project is a Design-Build project led by Murphy Pipeline Contractors with CMA as the lead Consultant.

TO-07 23rd Ave Drainage Improvements. TO-03 Force Main Upsize From D-36 to D-35. The project consists in the replacement of an 8" and 10" diameter wastewater force main to be upsized to a 14" HDPE force main. The force main conveys flow from Pumping Station D-36 along SE 19th Place and Harbor Inlet Drive to Pumping Station D-35. It is located in a busy residential neighborhood abutting SE 17th Street one of the major corridors along the coast in Fort Lauderdale. The force main connects to an existing 24" force main in SE 17th Street, which is an FDOT road. The total force main is approximately 3,000 linear feet long. The design incorporated a combination of open cut and trenchless methods for the construction of the project with mostly horizontal directional drill (HDD) installation. The project is next to contaminated sites which required detailed permitting and calculations to account for potential contaminated plumes during construction dewatering.

TO-02 Bayshore Drive Intracoastal Crossing Forcemain. CMA is preparing a Design Criteria Package for the City of Fort Lauderdale. The City owns and operates 4,420 linear feet of 18" diameter wastewater force main which includes 650 feet of subaqueous crossing under the Intracoastal Waterway. The forcemain conveys flow from Pumping Station D-40 and the surrounding area east to the intersection of Middle River Drive and NE 9th Street where it connects to a 48" diameter force main. The City has experienced several pipeline failures over the years and determined the force main needs to be rehabilitated and or replaced. CMA will also provide Permitting Services, Geotechnical Investigations, Bidding Assistance, Topographic and Bathymetric Survey, and Services During Construction.

TO-01 South River Forcemain Crossing. CMA is preparing the Design Criteria Package (DCP) for the South Middle River Force Main Crossing for the City of Fort Lauderdale, located along NE 19th Street / NE 21st Street between NE 22nd Avenue and Bayview Drive. The scope of work includes preliminary design and permitting of approximately 2,200 LF of 16" HDPE sanitary sewer force main to replace the existing 12" cast iron pipe force main which is currently out of service. This project includes approximately 1,410 LF of horizontal directional drill (HDD) of the 16" force main under the Middle River. CMA is preparing the DCP and has permitted the HDD with Broward County, SFWMD, U.S. Army Corps of Engineers (ACOE), and FDEP. CMA will also provide bidding assistance for this project.

Jennifer Lea Smith, P.E.
Senior Engineer

Education

Bachelor of Science, Civil
 Engineering, Florida Atlantic
 Engineering, 2006

Registration

Professional Engineer,
 Florida, 72232, 2011

Professional Affiliations

American Society of Civil
 Engineers
 Florida Engineering Society
 Florida Water and
 Environmental Association
 National Society of
 Professional Engineers

Certifications

SWMM training
 ICPR 3 and ICPR 4 Training
 Stormwater Management
 Inspector

Awards

ASCE Broward Branch of the
 Year under Jennifer's
 leadership as President of
 the branch - 2019
 ASCE Young Engineer of the
 Year - 2019
 Most Active Broward ASCE
 Member - 2009

Ms. Smith has over 14 years of engineering experience on public infrastructure projects throughout Broward County, including on various projects in the City of Pompano Beach. Her project experience includes the Pompano Beach Stormwater Master Plan, various drainage projects in Pompano Beach and Coral Springs, and multiple Broward County UAZ Water and Sewer Improvements projects. Ms. Smith will serve as deputy project manager for any drainage improvement projects and lift station rehabilitation projects under this contract.

Project Experience

Pompano Beach Stormwater Master Plan. Chen Moore and Associates (CMA) prepared a Stormwater Master Plan (SWMP) for the entire City of Pompano Beach limits, which encompasses approximately 24.6 square miles. The City operates and maintains its own stormwater facilities within City right-of-way and properties to provide flood control and water quality treatment within the City limits. Existing drainage facilities within the City include catch basins, manholes, control structures, gravity pipes, outfalls, and canals that connect to the Intracoastal Waterway.

The purpose of this SWMP was to identify any deficiencies in the existing stormwater management system in regards to flood control and water quality treatment. The SWMP will allow the City to understand the necessary drainage improvements over the next few years and to budget accordingly. CMA recommended system improvements to meet regulatory Level of Service (LOS) criteria in regards to peak flood stage, peak discharge, and water quality. Within the SWMP, CMA provided recommendations for improvements to the system that will eliminate or reduce the ponding currently encountered within right-of-way areas during or after rainfall events. The SWMP will define the existing stormwater management system; summarize the results of the stormwater model for the existing conditions; prioritize the proposed improvements to the stormwater management system; and provide an estimated cost to construct these upgrades to the stormwater management system.

Avondale Stormwater Improvements. The primary purpose of the Avondale Stormwater Improvement Project is to reduce the flooding depth and duration within the neighborhood during significant storm events. Based on our analysis of the various system improvement alternatives during the Stormwater Master Plan, the implementation of a stormwater pumping system into the SFWMD G16 Canal would be the most effective option for reducing the peak flood stage and reducing the flood duration within the Avondale Neighborhood by increasing the discharge rate via the existing outfalls when the canal levels are elevated. Stormwater improvements within the Avondale neighborhood will encounter limitations due to the regulatory requirements on the stormwater discharges via the system

outfalls. Since this neighborhood discharges into the SFWMD G-16 Canal, which is currently listed as an impaired water body by the Florida Department of Environmental Protection, the level of water quality improvements is critical to enable the potential implementation of a new stormwater improvements within the Avondale neighborhood.

CMA completed a Preliminary Design Report for the Avondale neighborhood to assess the feasibility, the regulatory permit restrictions, the cost impacts, and the flood reduction effectiveness of each potential improvement alternative within the neighborhood. CMA prepared a Preliminary Design Report which outlined the impacts of the potential stormwater improvement alternatives and presents the recommended stormwater improvements within the Avondale neighborhood. Within the Stormwater Master Plan, the recommended stormwater improvements for the Avondale neighborhood include the construction of a new stormwater pump station, which pumps into potential dry retention area(s) throughout the study area before overflowing into the SFWMD G16 Canal along with local stormwater improvements throughout the public right-of-way areas in the neighborhood.

Old Pompano Area Improvements. 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.

Broward County UAZ 110/111 & 113 Water Sewer Improvements 113B (RFP No. R1356803P1). The Water and Sanitary Sewer Improvements for the UAZ 110/111 & 113 Project include the improvements to the existing water distribution system, sanitary sewer system, and transmission systems within the project area along with the restoration of surface areas disturbed for the construction of said improvements. All projects combined a total area of over 1000 acres within multiple cities. The existing system being replaced consists of approximately 168,100 LF of water mains, 122,100 LF of sanitary sewer mains, and 23,600 LF force main. The existing water main consists of asbestos cement, cast iron, ductile iron, galvanized steel, and polyvinyl chloride pipe ranging from 2" - 24" in diameter size. The sanitary sewer consists of vitrified clay, fold and form liner, cured in place liner, and ductile iron pipe ranging from 8" - 15" in diameter size. The force main consists of asbestos cement, cured in place liner, ductile iron, and polyvinyl chloride pipe ranging from 6" - 16" in diameter size. There are 8 Broward County lift stations in these UAZ areas and 1 private lift station which sanitary sewer systems will need to connect to. Two of these stations will need rehabilitation/replacement. The restoration of roadways, sidewalks, driveways, and landscape areas will need to be performed as needed for water and sanitary sewer improvement construction. The project is currently under construction, in which CMA is performing construction administration for three separate bid packages.

Lift Station #12 Replacement Project. CMA is providing professional engineering services on the Lift Station #12 Replacement Project. CMA is providing site investigation, topographic survey, geotechnical investigation, utility coordination, hydraulic modeling, design services, regulatory permitting, bidding assistance, and limited construction administration for this project. CMA is responsible for the development of the design documents for the replacement of Lift Station #12.

David E Castro, P.E.
Senior Engineer

Education

Bachelor of Science, Civil Engineering, University of Puerto Rico, 2014

Registration

Professional Engineer,
 Puerto Rico, 27186
 Professional Engineer,
 Florida, 85558
 Engineer In Training, Florida,
 1100021596

Professional Affiliations

American Society of Civil Engineers

Mr. Castro is a Senior Engineer in our Fort Lauderdale office and has extensive project experience with the design and permitting of drainage and sanitary sewer improvements along with the associated construction oversight. In addition, he conducted several studies that included directional engineering analysis for trenchless pipeline installations, river analysis, storm sewer design, flood analysis, erosion control, hydrologic and hydraulic studies, and irrigation studies. Mr. Castro will provide engineering design support on any drainage improvements and utility improvements, particularly any using trenchless technologies, under this contract.

Project Experience

TO-01 South River Force Main Crossing. CMA is preparing the Design Criteria Package (DCP) for the South Middle River Force Main Crossing for the City of Fort Lauderdale, located along NE 19th Street / NE 21st Street between NE 22nd Avenue and Bayview Drive. The scope of work includes preliminary design and permitting of approximately 2,200 LF of 16" HDPE sanitary sewer force main to replace the existing 12" cast iron pipe force main which is currently out of service. This project includes approximately 1,410 LF of horizontal directional drill (HDD) of the 16" force main under the Middle River. CMA is preparing the DCP and has permitted the HDD with Broward County, SFWMD, U.S. Army Corps of Engineers (ACOE), and FDEP. CMA will also provide bidding assistance for this project.

TO-02 Bayshore Drive Intracoastal Crossing Force Main. CMA is preparing a Design Criteria Package for the City of Fort Lauderdale. The City owns and operates 4,420 linear feet of 18" diameter wastewater force main which includes 650 feet of subaqueous crossing under the Intracoastal Waterway. The forcemain conveys flow from Pumping Station D-40 and the surrounding area east to the intersection of Middle River Drive and NE 9th Street where it connects to a 48" diameter force main. The City has experienced several pipeline failures over the years and determined the force main needs to be rehabilitated and or replaced. CMA will also provide Permitting Services, Geotechnical Investigations, Bidding Assistance, Topographic and Bathymetric Survey, and Services During Construction.

TO-03 Force Main Upsize From D-36 to D-35. The project consists in the replacement of an 8" and 10" diameter wastewater force main to be upsized to a 14" HDPE force main. The force main conveys flow from Pumping Station D-36 along SE 19th Place and Harbor Inlet Drive to Pumping Station D-35. It is located in a busy residential neighborhood abutting SE 17th Street one of the major corridors along the coast in Fort Lauderdale. The force main connects to an existing 24" force main in SE 17th Street, which is an FDOT road. The total force main is approximately 3,000 linear feet long. The design incorporated a combination of open cut and trenchless methods for the construction of the project with mostly horizontal directional drill (HDD)

installation. The project is next to contaminated sites which required detailed permitting and calculations to account for potential contaminated plumes during construction dewatering.

TO-04 - P12378 North Beach Parking Lot (PP171887-4). CMA is providing engineering design services, permitting, bidding and post design services for the North Beach Village Parking Lot. The proposed parking lot will be on approximately 1.5 acres of land and it will have an approximately 154 spaces of automobile parking spaces and 7 ADA parking spaces. The project should include one access driveway to Vistamar Street, at least one pedestrian access from the sidewalk to the parking lot on each street, concrete pad for bicycle parking, on-site retention basin, landscape and lighting per municipal code. CMA will perform preliminary investigation; construction documents; regulatory agency permitting and coordination; environmental permitting and coordination; bidding services; and post design services.

TO-08 SW 21st Terrace Drainage Improvements. CMA is providing engineering services for design, permitting, bidding assistance and construction engineering inspection to address local street flooding in SW 21st Terrace. CMA is also providing construction documents; permitting services; bidding assistance; and services during construction.

TO-12 - P11882 - B-22 Pumping Station Replacement - Contract 466-11723-2 with City of Ft. Lauderdale. CMA is providing engineering design services, permitting, bidding, and post design services for the replacement of a duplex waste water station with a prefabricated submersible package station within the Bay Colony neighborhood in East Fort Lauderdale, FL. The current station, equipped with centrifugal pumps in a dry well configuration, is at the end of its useful life and is to be replaced with a prefabricated fiberglass wet well odorless station. The scope of the project also includes the replacement of the existing force main with a new High-Density Polyethylene (HDPE) 4-inch force main, and the existing 8-inch Vitrified Clay Pipe (VCP) gravity influent with an 8-inch Polyvinyl Chloride (PVC) pipe. The station will continue to discharge to an adjacent manhole approximately 200 feet to the West, which subsequently discharges to Pumping Station B-12.

Fort Lauderdale Forcemain Las Olas Phase II - Job No. 19FL016. The City of Fort Lauderdale (CITY) entered into Consent Order (CO) Number 16-1487 with the Florida Department of Environmental Protection (FDEP) Office of the General Council on September 29, 2017. The CO identified various projects along with completion deadlines required to improve sanitary service within the CITY. The purpose of this project was to provide design-build services for the design, permitting, construction, testing, and startup of the Phase II Las Olas Boulevard Force Main Replacement. The project connects Pump Station D-37 on Lido Drive to the recently installed 16-inch force main that crosses under the Intracoastal Waterway. This proposed project included the installation of 16-inch high density polyethylene (HDPE) pipe under Las Olas Boulevard to connect Pump Station D-37 and Pump Station D-38 to the force main under the Intracoastal Waterway.

The project included approximately 3,000 LF of 16-inch HDPE force main along Las Olas Boulevard via horizontal directional drilling (HDD). This included three pulls of 1,600 LF, 900 LF and 500 LF. The three pulls were connected via open cut. In addition it included approximately 400 LF of 10-inch HDPE to connect proposed piping to the 10-inch discharge force main at Pump Station D-38 at SE 25th Avenue and for a future connection at Seven Isles Drive via open cut crossing Las Olas Boulevard. Las Olas Boulevard is a major road providing access to Fort Lauderdale Beach. Las Olas Boulevard is a busy corridor with multiple utilities including watermains, sewer, storm drainage, gas line and electrical duct banks. Chen Moore also performed dewatering calculations and obtained dewatering permits required due to challenging high water table only two feet below finished grade. Chen Moore was responsible for all piping design, HDD calculations, MOT plans, permitting and certification.

Teresa A Lewis, E.I.
Associate Engineer

Education

Bachelor of Science, Civil Engineering, University of Florida, 2016

Registration

Engineer In Training, Florida, 1100021145, 2017

Professional Affiliations

American Society of Civil Engineers

Ms. Lewis is an associate engineer in our Fort Lauderdale office and has extensive project experience with the modeling, design, and permitting of drainage sewer improvements along with the associated construction oversight. Her project experience includes the design and permitting of various stormwater improvement projects for the City of Pompano Beach, the City of Fort Lauderdale, the City of Coral Springs, the City of Dania Beach, and Broward County Aviation Department. She also serves as the primary stormwater modeler on the FLL Stormwater Master Plan Update. Ms. Lewis will provide any hydraulic/hydrologic modeling, design, and permitting for any drainage improvements under this contract.

Project Experience

Broward County UAZ 110/111 & 113 Water Sewer Improvements 113B (RFP No. R1356803P1). The Water and Sanitary Sewer Improvements for the UAZ 110/111 & 113 Project include the improvements to the existing water distribution system, sanitary sewer system, and transmission systems within the project area along with the restoration of surface areas disturbed for the construction of said improvements. All projects combined a total area of over 1000 acres within multiple cities. The existing system being replaced consists of approximately 168,100 LF of water mains, 122,100 LF of sanitary sewer mains, and 23,600 LF force main. The existing water main consists of asbestos cement, cast iron, ductile iron, galvanized steel, and polyvinyl chloride pipe ranging from 2" - 24" in diameter size. The sanitary sewer consists of vitrified clay, fold and form liner, cured in place liner, and ductile iron pipe ranging from 8" - 15" in diameter size. The force main consists of asbestos cement, cured in place liner, ductile iron, and polyvinyl chloride pipe ranging from 6" - 16" in diameter size. There are 8 Broward County lift stations in these UAZ areas and 1 private lift station which sanitary sewer systems will need to connect to. Two of these stations will need rehabilitation/replacement. The restoration of roadways, sidewalks, driveways, and landscape areas will need to be performed as needed for water and sanitary sewer improvement construction. The project is currently under construction, in which CMA is performing construction administration for three separate bid packages.

TO-01 South River Forcemain Crossing. CMA is preparing the Design Criteria Package (DCP) for the South Middle River Force Main Crossing for the City of Fort Lauderdale, located along NE 19th Street / NE 21st Street between NE 22nd Avenue and Bayview Drive. The scope of work includes preliminary design and permitting of approximately 2,200 LF of 16" HDPE sanitary sewer force main to replace the existing 12" cast iron pipe force main which is currently out of service. This project includes approximately 1,410 LF of horizontal directional drill (HDD) of the 16" force main under the Middle River. CMA is preparing the DCP and has permitted the HDD with Broward

County, SFWMD, U.S. Army Corps of Engineers (ACOE), and FDEP. CMA will also provide bidding assistance for this project.

TO-02 Baysshore Drive Intracoastal Crossing Forcemain. CMA is preparing a Design Criteria Package for the City of Fort Lauderdale. The City owns and operates 4,420 linear feet of 18" diameter wastewater force main which includes 650 feet of subaqueous crossing under the Intracoastal Waterway. The forcemain conveys flow from Pumping Station D-40 and the surrounding area east to the intersection of Middle River Drive and NE 9th Street where it connects to a 48" diameter force main. The City has experienced several pipeline failures over the years and determined the force main needs to be rehabilitated and or replaced. CMA will also provide Permitting Services, Geotechnical Investigations, Bidding Assistance, Topographic and Bathymetric Survey, and Services During Construction.

TO-03 Force Main Upsize From D-36 to D-35. The project consists in the replacement of an 8" and 10" diameter wastewater force main to be upsized to a 14" HDPE force main. The force main conveys flow from Pumping Station D-36 along SE 19th Place and Harbor Inlet Drive to Pumping Station D-35. It is located in a busy residential neighborhood abutting SE 17th Street one of the major corridors along the coast in Fort Lauderdale. The force main connects to an existing 24" force main in SE 17th Street, which is an FDOT road. The total force main is approximately 3,000 linear feet long. The design incorporated a combination of open cut and trenchless methods for the construction of the project with mostly horizontal directional drill (HDD) installation. The project is next to contaminated sites which required detailed permitting and calculations to account for potential contaminated plumes during construction dewatering.

Avondale Stormwater Improvements. The primary purpose of the Avondale Stormwater Improvement Project is to reduce the flooding depth and duration within the neighborhood during significant storm events. Based on our analysis of the various system improvement alternatives during the Stormwater Master Plan, the implementation of a stormwater pumping system into the SFWMD G16 Canal would be the most effective option for reducing the peak flood stage and reducing the flood duration within the Avondale Neighborhood by increasing the discharge rate via the existing outfalls when the canal levels are elevated. Stormwater improvements within the Avondale neighborhood will encounter limitations due to the regulatory requirements on the stormwater discharges via the system outfalls. Since this neighborhood discharges into the SFWMD G-16 Canal, which is currently listed as an impaired water body by the Florida Department of Environmental Protection, the level of water quality improvements is critical to enable the potential implementation of a new stormwater improvements within the Avondale neighborhood.

Old Pompano Area Improvements. 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.

**Safiya T Brea, P.E., LEED AP
Senior Engineer**

Education

Bachelor of Science, Civil Engineering, University of Florida, 2002

Registration

Professional Engineer, Florida, 66388, 2007

Professional Affiliations

American Society of Civil Engineers
Florida Engineering Leadership Institute
Florida Engineering Society
Leadership Broward
Women of Tomorrow

Certifications

Qualified Stormwater Management Inspector
OSHA Certification
LEED AP
Advanced Work Zone Traffic Control Certification

Ms. Brea has over 18 years of experience with neighborhood improvement projects, including the design of roadways, sidewalks, drainage, water, and wastewater infrastructure. As a senior civil engineer, she has managed projects ranging from thousands of dollars to multi-million dollar, large-scale neighborhood improvement programs. Ms. Brea has managed and designed streetscape improvements, roundabouts, lift stations, stormwater improvements and master plans, and booster pump station basis of design reports. Ms. Brea will provide engineering design support on any utility improvements under this contract.

Project Experience

Broward County UAZ 110/111 & 113 Water Sewer Improvements 113B (RFP No. R1356803P1).

The Water and Sanitary Sewer Improvements for the UAZ 110/111 & 113 Project include the improvements to the existing water distribution system, sanitary sewer system, and transmission systems within the project area along with the restoration of surface areas disturbed for the construction of said improvements. All projects combined a total area of over 1000 acres within multiple cities. The existing system being replaced consists of approximately 168,100 LF of water mains, 122,100 LF of sanitary sewer mains, and 23,600 LF force main. The existing water main consists of asbestos cement, cast iron, ductile iron, galvanized steel, and polyvinyl chloride pipe ranging from 2" - 24" in diameter size. The sanitary sewer consists of vitrified clay, fold and form liner, cured in place liner, and ductile iron pipe ranging from 8" - 15" in diameter size. The force main consists of asbestos cement, cured in place liner, ductile iron, and polyvinyl chloride pipe ranging from 6" - 16" in diameter size. There are 8 Broward County lift stations in these UAZ areas and 1 private lift station which sanitary sewer systems will need to connect to. Two of these stations will need rehabilitation/replacement. The restoration of roadways, sidewalks, driveways, and landscape areas will need to be performed as needed for water and sanitary sewer improvement construction.

The project is currently under construction, in which CMA is performing construction administration for three separate bid packages.

CMA19-04 Lift Station 50M Rehabilitation - Broward County Project 9253-100977 - Contract PNC2117097P1_1 - PO WWE2000016. This project includes the rehabilitation of lift station 50M within the City of Lauderdale Lakes. The improvements include the rehabilitation of the existing wet well, installing new submersible pumps, a new valve vault, new valves, new bypass piping connections, new instrumentation, new control panels, new telemetry, and associated sanitary piping to connect to the existing gravity sewer and existing force main. Chen Moore and Associates (CMA) will provide site investigation, design services, regulatory permitting, and construction services on behalf of Broward County Water and Wastewater Services (BCWWS) on this project.

CMA19-05 NE 22nd Ave Force Main Phase 2 - Broward County Project 9347-104736 - Contract PNC2117097P1_1 - PO WVE2000045. Chen Moore and Associates (CMA) will provide design services and services during construction on behalf of Broward County Water and Wastewater Services (BCWWS) for the installation of new force main along NE 39th Street between Federal Highway and NE 21st Way and NE 22nd Avenue from NE 21st Way to north of NE 41st Street within the City of Lighthouse Point. The new force main along NE 22nd Avenue and NE 39th Street includes the replacement of approximately 1,600 linear feet of 20-inch DIP force main.

CMA will provide Topographic Survey; Subsurface Utility Engineering; layout of the proposed utility improvements; Regulatory Permit Submittal; Bidding Assistance; Public Outreach; and Construction Observations.

TOD SW 77th Ave Water Main. CMA is fast tracking the design of new water mains for SW 77th Avenue for the Town of Davie. The project also includes expedited permitting with the Broward County Health Department and project construction/close out assistance.

Hillsboro Beach Water Main Replacement Design/Construction Administration. CMA is providing engineering design services and construction administration for water improvement needs for the Town of Hillsboro Beach along A1A from SE 10th Street to the Hillsboro Inlet. CMA previously modeled and completed a system evaluation report determining the facilities in need of replacement. The improvements will include replacement of parallel water mains along the barrier island and has taken into consideration future needs, environment, pipe types, various installation methods, project coordination, and funding.

**Andres Eduardo Rivera, ENV
SP
Associate Engineer**

Education

Bachelor of Science, Civil
Engineering, Rafael
Urdaneta University, 2008

Professional Affiliations

NY Water Environment
Association

Certifications

Envision Sustainability
Professional
FDOT Maintenance of Traffic
OSHA 30 hours for
Construction Industry

Mr. Rivera is an associate engineer in our Fort Lauderdale office and has extensive project experience with various public infrastructure projects, which include utility improvements, lift station rehabilitation, and site development. Mr. Rivera will provide engineering design support on any utility improvements under this contract.

Project Experience

TO-05 SW 2nd Ave Parking Improvements. CMA is providing engineering design services, permitting, bidding and post design services for parking improvements on SW 2nd Avenue. The proposed parking improvements will convert two existing sodded medians with no curbing into angled parking and will create approximately 40 new public parking spaces. The project will also include speed humps, cross walks, minor landscaping improvements at the ends of the islands and stormwater drainage. CMA is providing preliminary investigation; construction documents; regulatory agency permitting and coordination; and bidding services.

TO-12 - P11882 - B-22 Pumping Station Replacement - Contract 466-11723-2 with City of Ft. Lauderdale. CMA is providing engineering design services, permitting, bidding, and post design services for the replacement of a duplex waste water station with a prefabricated submersible package station within the Bay Colony neighborhood in East Fort Lauderdale, FL. The current station, equipped with centrifugal pumps in a dry well configuration, is at the end of its useful life and is to be replaced with a prefabricated fiberglass wet well odorless station. The scope of the project also includes the replacement of the existing force main with a new High-Density Polyethylene (HDPE) 4-inch force main, and the existing 8-inch Vitrified Clay Pipe (VCP) gravity influent with an 8-inch Polyvinyl Chloride (PVC) pipe. The station will continue to discharge to an adjacent manhole approximately 200 feet to the West, which subsequently discharges to Pumping Station B-12. The sewers within the B-22 station basin are VCP gravity lines. Sewer lines are to be inspected via closed circuit television by City crews, assessed by CMA, and if necessary lined to reduce inflow and infiltration. CMA is also providing construction documents for landscaping, including mitigation for removal and/or relocation of trees, water service connection, pavement restoration plans, grading, and stormwater pollution prevention plan, as well as permitting for water use and construction of wastewater system with the applicable regulatory agencies. The existing pump station is located within a few feet of a seawall and dewatering calculations as well as construction feasibility are included in the scope.

TO-10 - P12470 - NW 15th Avenue Streetscape - City of Ft. Lauderdale 466-11723-2. The City has requested that CMA provide professional services to enhance the performance and aesthetic condition of NW 15th Avenue. The scope of work is primarily identified as developing and implementing a Complete Streets approach to the corridor to enhance safety and aesthetics

for the community. Specific instruments to be included are traffic calming, a shared use path, sidewalk improvements, bring the corridor up to current Americans with Disabilities Act (ADA) standards, crosswalks, pedestrian lighting, landscape islands, landscape enhancements, and street furnishings.

Country Club Ranches Water Main Project with City of Miramar - RFQ 19-10-03. CMA is providing professional engineering services for the Country Club Ranches Water Main Project. CMA is completing the design and construction of a new water distribution system to services the Country Club Ranches community. Country Club Ranches is a developed, semi-rural, residential community, and is primarily served by private water wells and septic tanks. The project includes new water distribution system to include fire hydrants, valves, water services, air release assemblies and required appurtenances throughout the Country Club Ranches community in order to supply municipal water service to the residents.

The scope of services includes planning, engineering reporting, engineering design, technical specifications, contract preparation, permitting and construction management.

Jenada Isles Utility Improvement Project. CMA is providing site investigation, topographic survey, utility coordination, design services, regulatory permitting, bidding assistance, and limited construction administration for the Jenada Isles Utility Improvement Project. CMA is responsible for the development of the design documents for the proposed utility improvements within the Jenada Isles neighborhood.

The proposed utility improvements within the Jenada Isles neighborhood include the following:

- Replace existing Lift Station #2 at northeast corner of NW 29th Street and NW 10th Avenue. The project includes the demolition of the existing lift station and the installation of a new submersible lift station adjacent to the current location. The proposed lift station will have duplex submersible pumps, which are installed within a new wetwell. The project will also include a new valve vault, new valves, new bypass piping connections, new instrumentation, new control panels, new telemetry, and associated sanitary piping to connect to the existing gravity sewer and existing force main.
- Replace existing 4-inch force main (approximately 350 LF) along NW 29th Street from Lift Station #2 to existing sanitary manhole at NW 9th Terrace. The proposed force main will be HDPE pipe with same diameter, which will be installed via either pipe bursting or directional drilling depending on the conditions at the existing canal crossing.
- Replace existing 4-inch AC water main (approximately 5,150 LF) throughout the neighborhood. The proposed water main will be HDPE pipe with 6-inch diameter installed via pre-chlorinated pipe bursting. The proposed improvements will also include the interconnections to the existing water main to remain at intersections along NE 11th Avenue and NW 9th Terrace, the the replacement of the existing fire hydrants as necessary to ensure appropriate fire coverage, and the reconnection of the existing water services to the new water main.

Joel Peter Brownsey, P.E.
Senior Engineer

Education

Bachelor of Arts, Urban Planning, State University of New York at Albany, 2002
 Bachelor of Science, Civil Engineering, Florida Atlantic University, 2014
 Associate of Science, Surveying and Mapping, University of New Hampshire, 2000

Registration

Engineer In Training, Florida, 1100018916, 2015
 Professional Engineer, Florida, PE86466, 2019

Professional Affiliations

American Society of Civil Engineers

Certifications

ESRI ArcGIS Certificate
 Stormwater Management Inspector
 MOT Workzone Traffic Control: Intermediate Level

Mr. Brownsey is a senior engineer in our Fort Lauderdale office and is responsible the design and permitting for site development and utility infrastructure improvements for both public and private clients. Additionally, Mr. Brownsey has experience in utility coordination and construction engineering support for neighborhood improvement projects and utility transmission and distribution installation projects. Mr. Brownsey will provide engineering design support on any site development projects under this contract.

Project Experience

Lift Station #6 Replacement. CMA will provide site investigation, topographic survey, geotechnical investigation, utility coordination, hydraulic modeling, design services, regulatory permitting, bidding assistance, and limited construction administration for the replacement of Lift Station #6 in Wilton Manors.

CMA is providing site investigation including geotechnical investigation, document review, and sanitary flow analysis; design services including regulatory permit submittal; and construction administration which includes bidding assistance, document review, and construction oversight.

Lift Station #12 Replacement Project. CMA is providing professional engineering services on the Lift Station #12 Replacement Project. CMA is providing site investigation, topographic survey, geotechnical investigation, utility coordination, hydraulic modeling, design services, regulatory permitting, bidding assistance, and limited construction administration for this project. CMA is responsible for the development of the design documents for the replacement of Lift Station #12.

NE 6th Avenue Water Main Replacement. CMA will provide site investigation, topographic survey, utility coordination, design services, regulatory permitting, bidding assistance, and limited construction administration for this project. CMA develop the the design documents for the water main replacement along NE 6th Avenue between Wilton Drive and North Fork of the Middle River. The project includes the replacement of approximately 2,800 linear feet of 6-inch water main. The proposed water main will be HDPE pipe with 8-inch diameter installed via pre-chlorinated pipe bursting.

CMA will design the interconnections to the existing water main to remain at intersections along NE 6th Avenue; the reconnection of the existing fire hydrants to the new water main or the replacement of the existing fire hydrants as necessary to ensure appropriate fire coverage; and the reconnection of the existing water services to the new water main or the replacement of the existing water service. In addition to the water main replacement along NE 6th Avenue, CMA will prepare the technical specifications for the sandblasting and painted of the existing water main

aerial crossing over the North Fork of the Middle River, which is attached to the existing bridge.

Jenada Isles Utility Improvement Project. CMA is providing site investigation, topographic survey, utility coordination, design services, regulatory permitting, bidding assistance, and limited construction administration for the Jenada Isles Utility Improvement Project. CMA is responsible for the development of the design documents for the proposed utility improvements within the Jenada Isles neighborhood.

The proposed utility improvements within the Jenada Isles neighborhood include the following:

- Replace existing Lift Station #2 at northeast corner of NW 29th Street and NW 10th Avenue. The project includes the demolition of the existing lift station and the installation of a new submersible lift station adjacent to the current location. The proposed lift station will have duplex submersible pumps, which are installed within a new wetwell. The project will also include a new valve vault, new valves, new bypass piping connections, new instrumentation, new control panels, new telemetry, and associated sanitary piping to connect to the existing gravity sewer and existing force main.
- Replace existing 4-inch force main (approximately 350 LF) along NW 29th Street from Lift Station #2 to existing sanitary manhole at NW 9th Terrace. The proposed force main will be HDPE pipe with same diameter, which will be installed via either pipe bursting or directional drilling depending on the conditions at the existing canal crossing.
- Replace existing 4-inch AC water main (approximately 5,150 LF) throughout the neighborhood. The proposed water main will be HDPE pipe with 6-inch diameter installed via pre-chlorinated pipe bursting. The proposed improvements will also include the interconnections to the existing water main to remain at intersections along NE 11th Avenue and NW 9th Terrace, the replacement of the existing fire hydrants as necessary to ensure appropriate fire coverage, and the reconnection of the existing water services to the new water main.

Pompano Beach Stormwater Master Plan. Chen Moore and Associates (CMA) prepared a Stormwater Master Plan (SWMP) for the entire City of Pompano Beach limits, which encompasses approximately 24.6 square miles. The City operates and maintains its own stormwater facilities within City right-of-way and properties to provide flood control and water quality treatment within the City limits. Existing drainage facilities within the City include catch basins, manholes, control structures, gravity pipes, outfalls, and canals that connect to the Intracoastal Waterway. The purpose of this SWMP was to identify any deficiencies in the existing stormwater management system in regards to flood control and water quality treatment. The SWMP will allow the City to understand the necessary drainage improvements over the next few years and to budget accordingly. CMA recommended system improvements to meet regulatory Level of Service (LOS) criteria in regards to peak flood stage, peak discharge, and water quality. Within the SWMP, CMA provided recommendations for improvements to the system that will eliminate or reduce the ponding currently encountered within right-of-way areas during or after rainfall events. The SWMP will define the existing stormwater management system; summarize the results of the stormwater model for the existing conditions; prioritize the proposed improvements to the stormwater management system; and provide an estimated cost to construct these upgrades to the stormwater management system. As part of this project, CMA assisted the City with the documentation of how the Floodplain Management Plan was prepared per the requirements of FEMA. The SWMP will be configured to address the relevant FEMA requirements related to Floodplain Management, including Activity 510 – Floodplain Management Planning, Activity 530 – Flood Protection, and Activity 540 – Drainage System Maintenance. CMA will submit the Floodplain Management Plan to FEMA for review.

Carlos A Tijerino
Associate Engineer

Education

Bachelor of Engineering,
Civil Engineering, Florida
International University,
2008

Professional Affiliations

American Society of Civil
Engineers
Cuban American Association
of Civil Engineers
Florida Engineering Society

Mr. Tijerino has 11 years of experience in the field civil engineering with a focus on construction managements. His expertise includes project administration, procurement, and construction management of site development projects and structural restoration projects. He has experience with generating a cost savings, regulatory compliance, increased profit margin, quality control and assurance and noticeable safety successes. Mr. Tijerino will provide engineering design and construction support on any site development projects or any seawall restoration projects under this contract.

Project Experience

Broward County UAZ 110/111 & 113 Water Sewer Improvements 113B (RFP No. R1356803P1). The Water and Sanitary Sewer Improvements for the UAZ 110/111 & 113 Project include the improvements to the existing water distribution system, sanitary sewer system, and transmission systems within the project area along with the restoration of surface areas disturbed for the construction of said improvements. All projects combined a total area of over 1000 acres within multiple cities. The existing system being replaced consists of approximately 168,100 LF of water mains, 122,100 LF of sanitary sewer mains, and 23,600 LF force main. The existing water main consists of asbestos cement, cast iron, ductile iron, galvanized steel, and polyvinyl chloride pipe ranging from 2" - 24" in diameter size. The sanitary sewer consists of vitrified clay, fold and form liner, cured in place liner, and ductile iron pipe ranging from 8" - 15" in diameter size. The force main consists of asbestos cement, cured in place liner, ductile iron, and polyvinyl chloride pipe ranging from 6" - 16" in diameter size. There are 8 Broward County lift stations in these UAZ areas and 1 private lift station which sanitary sewer systems will need to connect to. Two of these stations will need rehabilitation/replacement. The restoration of roadways, sidewalks, driveways, and landscape areas will need to be performed as needed for water and sanitary sewer improvement construction.

The project is currently under construction, in which CMA is performing construction administration for three separate bid packages.

TOD SW 36th Court Watermain Replacement (R-2018-097). The SW 36th Court Watermain Replacement Project entails abandoning approximately 2,500 linear feet of an existing 6" water main that runs along SW 36th Court between SW 55th Avenue and SW 61st Avenue. The existing pipe will be replaced with an 8" PVC. The existing pipe will be abandoned in place. This scope of services will include the planning and design services necessary to prepare all required construction documents for the proposed infrastructure improvements within the Town of Davie. It is anticipated that the design will incorporate open cut; however, trenchless technologies such as pipe bursting will be evaluated as part of the design. Addition of fire hydrants a stub-outs for future connections are part of the scope.

Fort Lauderdale Forcemain Las Olas Phase II - Job No. 19FL016. The City of Fort Lauderdale (CITY) entered into Consent Order (CO) Number 16-1487 with the Florida Department of Environmental Protection (FDEP) Office of the General Council on September 29, 2017. The CO identified various projects along with completion deadlines required to improve sanitary service within the CITY. The purpose of this project was to provide design-build services for the design, permitting, construction, testing, and startup of the Phase II Las Olas Boulevard Force Main Replacement. The project connects Pump Station D-37 on Lido Drive to the recently installed 16-inch force main that crosses under the Intracoastal Waterway. This proposed project included the installation of 16-inch high density polyethylene (HDPE) pipe under Las Olas Boulevard to connect Pump Station D-37 and Pump Station D-38 to the force main under the Intracoastal Waterway.

The project included approximately 3,000 LF of 16-inch HDPE force main along Las Olas Boulevard via horizontal directional drilling (HDD). This included three pulls of 1,600 LF, 900 LF and 500 LF. The three pulls were connected via open cut. In addition it included approximately 400 LF of 10-inch HDPE to connect proposed piping to the 10-inch discharge force main at Pump Station D-38 at SE 25th Avenue and for a future connection at Seven Isles Drive via open cut crossing Las Olas Boulevard. Las Olas Boulevard is a major road providing access to Fort Lauderdale Beach. Las Olas Boulevard is a busy corridor with multiple utilities including water mains, sewer, storm drainage, gas line and electrical duct banks. Chen Moore also performed dewatering calculations and obtained dewatering permits required due to challenging high water table only two feet below finished grade. Chen Moore was responsible for all piping design, HDD calculations, MOT plans, permitting and certification.

Emergency Bypass 48" Forcemain. CMA is responsible for the design, permitting, and construction observation of the replacement of the City of Fort Lauderdale's main transmission line going into the wastewater treatment plant. The new line consists of more than 22,000 linear feet of new pipe which will be installed via 12 horizontal directional drills (HDD) that range between 1,700 and 3,000 linear feet each to a depth of up to 70 feet. The new force main is mostly 48" HDPE pipe with some ductile iron pipe sections. The project route includes sensitive ecosystems including the crossing of South Middle River which require Benthic surveys for the subaqueous crossing, dewatering calculations, and permitting for construction within a quarter mile of contaminated areas with high-water table being close to the coastline. Crossing of the intracoastal (US Federal Waters) requires permitting through the US Army Corps of Engineers and the Department of Environmental Protection. There is a total of nine (9) jurisdictional agencies for this project. The project is an emergency project for the City of Fort Lauderdale which is being fast tracked to be completed (design, permitting, and construction) in 14 months. The project is a Design-Build project led by Murphy Pipeline Contractors with CMA as the lead Consultant.

***Cristobal A Betancourt, RLA,
AICP
Director of Planning and
Landscape Architecture***

Education

Bachelor of Science,
Landscape Architecture,
Cornell University, 1995
Master of Science, Urban
Design, Royal Danish
Academy of Fine Arts,
School of Architecture, 1996

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
National Recreation and
Park Association
Urban Land Institute

Certifications

American Institute of
Certified Planners
Council of Landscape
Architectural Registration
Board

Mr. Betancourt has over 23 years of experience providing planning and landscape architecture design solutions for public and private sector clients including the City of Pompano Beach. 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. Mr. Betancourt has a large portfolio of parks and recreation projects throughout South Florida including passive parks, sports fields, linear parks and parks master plans. Mr. Betancourt's streetscaping experience includes the Wiles Road project in Coral Springs; Euclid Streetscape Improvements in Miami Beach; Downtown Coral Springs Streetscaping; Fort Lauderdale Beach Park; Old Pompano Area Improvements, and Lauderdale-by-the-Sea E. Commercial Blvd Streetscape & Drainage Improvements. Mr. Betancourt will serve as deputy project manager for landscape architecture along with any streetscaping projects, parks projects, and public space projects under this contract.

Project Experience

Downtown Coral Springs Streetscaping. CMA 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 the projects.

Lauderdale-by-the-Sea E. Commercial Blvd Streetscape & Drainage Improvements. Chen Moore and Associates provided utility coordination; roadway and stormwater design; government permitting; and bidding assistance for the development of the design of streetscape and stormwater improvements to the downtown core and adjacent areas east of Bougainvillea Drive in the Town of Lauderdale by the Sea.

The goals of this project were to create an urban gathering place that provides beautiful vistas of the sea, provides increased shade from the intense sun and heat, enhances the pedestrian environment and safety while

maintaining vehicular access to the businesses located on the street and improving vehicular circulation and parking, provides for expansion of outdoor dining areas, and pays tribute to the Town's history.

Westside Park Baseball Field. 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.

Dixie Highway Improvement Project Streetscape Plan. Chen Moore and Associates developed a streetscape master plan for Dixie Highway in the Middle River Terrace Neighborhood of Fort Lauderdale, Florida. CMA was contracted by the City to work with the local homeowners association who received a grant to fund the development of a complete streets master plan. The neighborhood was developed prior to many current planning and zoning standards being implemented in the City, as a result, the community had concerns about unsafe conditions for pedestrians and bicyclists due to unregulated land development patterns. CMA developed the master plan to include pedestrian and bike trails, to narrow the width of the travel ways, and added hardscape and landscape beautification, including the development of gateway features into the neighborhood. In order to facilitate the master plan, CMA analyzed the area with regard to current zoning and right of way conditions and conducting field studies at different times of the day to understand on the ground conditions that are affecting resident safety. The Project required coordination with the City of Fort Lauderdale and District 4 of the Florida Department of Transportation.

Old Pompano Area Improvements. 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.

Dixie Highway Improvements. The City of Wilton Manors retained CMA 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.

Eric D Harrison, RLA
Senior Landscape Architect

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 15 years of landscape architecture experience with several municipalities throughout South Florida including the City of Pompano Beach. He has provided design services for parks and recreation, university campuses, K-12 education, corporate office, commercial developments and healthcare facilities. Mr. Harrison has a large portfolio of parks and recreation projects throughout South Florida including passive parks, sports fields, linear parks and parks master plans. Mr. Harrison's streetscaping experience includes Downtown Coral Springs Streetscaping; Old Pompano Area Improvements; South Pointe Phase III/IV/V - Right-of-Way Improvement Project in Miami Beach; Aviation Blvd Roadway & Hardscape Improvements in Marathon; the Wiles Road project in Coral Spring; and Coconut Creek Parkway in Margate. Mr. Harrison will provide landscape architecture services on any streetscaping projects, parks projects, and public space projects under this contract.

Project Experience

Downtown Coral Springs Streetscaping. CMA 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 the projects.

Westside Park Baseball Field. 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.

Avondale Stormwater Improvements. The primary purpose of the Avondale Stormwater Improvement Project is to reduce the flooding depth and duration within the neighborhood during significant storm events. Based on our analysis of the various system improvement alternatives during the Stormwater Master Plan, the implementation of a stormwater pumping system into the SFWMD G16 Canal would be the most effective option for reducing the peak flood stage and reducing the flood duration within the Avondale Neighborhood by increasing the discharge rate via the existing outfalls when the canal levels are elevated. Stormwater improvements within the Avondale neighborhood will encounter limitations due to the regulatory requirements on the stormwater discharges via the system outfalls. Since this neighborhood discharges into the SFWMD G-16 Canal, which is currently listed as an impaired water body by the Florida Department of Environmental Protection, the level of water quality improvements is critical to enable the potential implementation of a new stormwater improvements within the Avondale neighborhood.

CMA completed a Preliminary Design Report for the Avondale neighborhood to assess the feasibility, the regulatory permit restrictions, the cost impacts, and the flood reduction effectiveness of each potential improvement alternative within the neighborhood. CMA prepared a Preliminary Design Report which outlined the impacts of the potential stormwater improvement alternatives and presents the recommended stormwater improvements within the Avondale neighborhood.

Old Pompano Area Improvements. 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.

Lift Station 21. 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.

Derrick E Smith, CFM, LEED AP
Senior Construction Specialist

Education

Bachelor of Science, Building Construction Management, University of Florida, 2005

Professional Affiliations

Member of the University of Florida Chapter of Beta Theta Pi
 Student Chapter of the Associated Builders and Contractors
 University of Florida Alumni Association

Certifications

Earthwork Construction Inspection Level I
 Concrete Field Inspector Specifications
 Managing Floodplain Development through the NFIP
 10-Hour OSHA Hazard Recognition Training for the Construction Industry Course
 NPDES Inspector
 Asphalt Paving Technician Level I
 ASFPM Certified Floodplain Manager
 Hazmat Certification

Mr. Smith has over 14 years of experience as a construction project administrator and engineering inspector. He has assisted municipal clients in the role of construction project administrator and owner's representative on several projects which included vertical construction as well as site development. In his role, Mr. Smith was the liaison between the Owner and Contractor performing the oversight of infrastructure, various municipal buildings and utility installations. His duties included managing budgets and schedules and monitoring construction activities. Mr. Smith has been responsible for the development of several projects for the City of Pompano Beach. In his role of owner's representative, he was also responsible for coordinating project activities, construction document interpretation, approving pay requests, assisting with dispute resolution and providing directives to multiple parties including contractors and consultants. Mr. Smith will provide construction administration support on any projects under this contract.

Project Experience

Old Pompano Area Improvements. 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.

Avondale Stormwater Improvements. The primary purpose of the Avondale Stormwater Improvement Project is to reduce the flooding depth and duration within the neighborhood during significant storm events. Based on our analysis of the various system improvement alternatives during the Stormwater Master Plan, the implementation of a stormwater pumping system into the SFWMD G16 Canal would be the most effective option for reducing the peak flood stage and reducing the flood duration within the Avondale Neighborhood by increasing the discharge rate via the existing outfalls when the canal levels are elevated. Stormwater improvements within the Avondale neighborhood will encounter limitations due to the regulatory requirements on the stormwater discharges via the system outfalls. Since this neighborhood discharges into the SFWMD G-16 Canal, which is currently listed as an impaired water body by the Florida Department of Environmental Protection, the level of water quality

improvements is critical to enable the potential implementation of a new stormwater improvements within the Avondale neighborhood.

CMA completed a Preliminary Design Report for the Avondale neighborhood to assess the feasibility, the regulatory permit restrictions, the cost impacts, and the flood reduction effectiveness of each potential improvement alternative within the neighborhood. CMA prepared a Preliminary Design Report which outlined the impacts of the potential stormwater improvement alternatives and presents the recommended stormwater improvements within the Avondale neighborhood. Within the Stormwater Master Plan, the recommended stormwater improvements for the Avondale neighborhood include the construction of a new stormwater pump station, which pumps into potential dry retention area(s) throughout the study area before overflowing into the SFWMD G16 Canal along with local stormwater improvements throughout the public right-of-way areas in the neighborhood.

Downtown Coral Springs Streetscaping. CMA 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 the projects.

Emergency Bypass 48" Forcemain. CMA is responsible for the design, permitting, and construction observation of the replacement of the City of Fort Lauderdale's main transmission line going into the wastewater treatment plant. The new line consists of more than 22,000 linear feet of new pipe which will be installed via 12 horizontal directional drills (HDD) that range between 1,700 and 3,000 linear feet each to a depth of up to 70 feet. The new force main is mostly 48" HDPE pipe with some ductile iron pipe sections. The project route includes sensitive ecosystems including the crossing of South Middle River which require Benthic surveys for the subaqueous crossing, dewatering calculations, and permitting for construction within a quarter mile of contaminated areas with high-water table being close to the coastline. Crossing of the intracoastal (US Federal Waters) requires permitting through the US Army Corps of Engineers and the Department of Environmental Protection. There is a total of nine (9) jurisdictional agencies for this project. The project is an emergency project for the City of Fort Lauderdale which is being fast tracked to be completed (design, permitting, and construction) in 14 months. The project is a Design-Build project led by Murphy Pipeline Contractors with CMA as the lead Consultant.

NE 26th Street Improvements. The City of Wilton Manors wishes to complete a roadway improvement along a portion of NE 26th Street within the City limits. The project is partially funded by FDOT through their Local Agency Program (LAP), which will define the project deadlines. The project limits include the public right-of-way of NE 26th Street from North Dixie Highway on the east to Andrews Avenue on the west. This section of NE 26th Street includes approximately 4,700 linear feet of roadway within public right-of-way which varies between 50 feet and 60 feet wide.

Jose B McCray
Senior Construction Specialist

Certifications

FDOT – CTQP Asphalt Level 1
 Troxler Radiation Safety Officer
 Troxler Nuclear Density Gauge Operator
 OSHA 8 Hour Trench Safety Course
 PSMJ Project Management Bootcamp
 Florida Stormwater and Sedimentation Control Inspector
 FEC Railroad Contractor Safety
 IMSA Traffic Signal Inspector

Mr. McCray has over 35 years of construction experience, from surveying through project management. His present responsibilities include coordination and monitoring of construction activities including governmental projects and site development for residential, commercial and industrial use projects. He serves as liaison to owners, contractors, subcontractors, residents and governmental agencies. Additional responsibilities include overseeing the review/processing of change orders, progress payments and reports, and representation of owners and engineers at pre-construction meetings and other related conferences. Mr. McCray will provide construction administration support on any projects under this contract.

Mr. McCray's most recent experience includes serving as Director of Construction Services at a South Florida multi-discipline engineering firm. His responsibilities included managing staff and construction administration services for several neighborhood improvement projects for Broward County Water and Wastewater Services and several private residential/commercial land development clients. These projects included the construction of water distribution, sewer, wastewater lift stations, drainage and paving. Mr. McCray has also served as a Project Manager and Superintendent for large South Florida contracting companies.

Project Experience

TOD SW 77th Ave Water Main. CMA is fast tracking the design of new water mains for SW 77th Avenue for the Town of Davie. The project also includes expedited permitting with the Broward County Health Department and project construction/close out assistance.

TOD SW 58th Ave Water Main. CMA is the lead engineer for the SW 58th Street watermain extension for the Town of Davie Utilities Department. Improvements include approximately 3,500 linear feet of 8" PVC C-900 pipe with tees and stub-outs for future connections. The watermain is located in a residential area and as part of the design CMA will coordinate phasing of the construction to maintain traffic access to residential areas.

Downtown Coral Springs Streetscaping. CMA 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 the projects.

Pompano Beach Stormwater Master Plan. Chen Moore and Associates (CMA) prepared a Stormwater Master Plan (SWMP) for the entire City of Pompano Beach limits, which encompasses approximately 24.6 square miles. The City operates and maintains its own stormwater facilities within City right-of-way and properties to provide flood control and water quality treatment within the City limits. Existing drainage facilities within the City include catch basins, manholes, control structures, gravity pipes, outfalls, and canals that connect to the Intracoastal Waterway. The purpose of this SWMP was to identify any deficiencies in the existing stormwater management system in regards to flood control and water quality treatment. The SWMP will allow the City to understand the necessary drainage improvements over the next few years and to budget accordingly. CMA recommended system improvements to meet regulatory Level of Service (LOS) criteria in regards to peak flood stage, peak discharge, and water quality. Within the SWMP, CMA provided recommendations for improvements to the system that will eliminate or reduce the ponding currently encountered within right-of-way areas during or after rainfall events. The SWMP will define the existing stormwater management system; summarize the results of the stormwater model for the existing conditions; prioritize the proposed improvements to the stormwater management system; and provide an estimated cost to construct these upgrades to the stormwater management system. As part of this project, CMA assisted the City with the documentation of how the Floodplain Management Plan was prepared per the requirements of FEMA. The SWMP will be configured to address the relevant FEMA requirements related to Floodplain Management, including Activity 510 – Floodplain Management Planning, Activity 530 – Flood Protection, and Activity 540 – Drainage System Maintenance. CMA will submit the Floodplain Management Plan to FEMA for review.

Old Pompano Area Improvements. 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.

Hillsboro Beach Water Main Replacement Design/Construction Administration. CMA is providing engineering design services and construction administration for water improvement needs for the Town of Hillsboro Beach along A1A from SE 10th Street to the Hillsboro Inlet. CMA previously modeled and completed a system evaluation report determining the facilities in need of replacement. The improvements will include replacement of parallel water mains along the barrier island and has taken into consideration future needs, environment, pipe types, various installation methods, project coordination, and funding.



Michael A. Guida, P.E.
C&W Engineering - President/Electrical Engineer

Professional Employment History

Michael has over 25 years of proven experience in commercial, industrial, health care, educational, residential and photovoltaic designs for construction. His experience includes electrical engineering design and project management of various residential, commercial, industrial, educational and health care facilities. Designed and permitted 208volt, 480volt and 4160volt electrical systems for these projects. Sized and specified generators for emergency and standby power application to comply with NFPA 110 and 70. Performed walk through inspections for 40-year old buildings to determine the electrical safety with report of findings. Performed "Due Diligence" reports for feasibility of owners desired electrical needed. Ability to perform FAULT Current and BREAKER Coordination Studies using power tools computerized software. Project managed/coordinated/designed projects with Electrical, HVAC, Plumbing and Fire Protection system through to completed construction. Firm knowledge of FFPC, NFPA codes, Florida Building Code and of course NEC.

Education

B.S. in Electrical Engineering – 1993
 Florida Atlantic University, Boca Raton

FL Registration:

PE No 60755

Professional Associations:

Florida Engineering Society (FES)
 Florida Institute of Consulting Engineers (FICE)

Training:

Mike Holt's **Solar Power Boot Camp**,
 Coral Springs, FL – 2010
 BOAF: 2014 Advanced Significant
 Code Changes for Florida Building
 Code 5th Edition

Major Commercial/Residential Projects:

Boca Museum of Art, Maritime Charter School, Pembroke Pines Apartments, Port Royal multi-story multi-building apartment complex, Global Response Call Centers, TD Bank Photovoltaic Systems, Florida Linen Generator, Walgreens, Winn Dixie, Publix, Bravo Supermarket, Humana Healthcare facilities, Panthers Arena Scoreboard Replacement. This is a small list compared to the over 900 designs permitted in the last 5 years.

Major Hospitality/Healthcare Projects:

Marriott Hotel-Ft Laud., Broward General Medical Center and North Broward Medical Center fire alarm replacement, BRMC-MOB, Weston MOB

Major Municipal Projects:

T1 Existing Chiller Plant Upgrade at FLL SAI-07-T9-01
 T1 Information Booths BO 8-45
 T2 FIDS Gate Podium Renovations at FLL SAI-07-T7-05
 T2 FIDS Monitor Replacement BO 8-123/124
 T3 Security Checkpoint Expansion/Relocation at FLL SAI-T4-08/09/10
 T4 FIDS Monitor Replacements for Gate Podiums at FLL SAI-07-T7-08
 T4 Post Security Concession/Seating Refurb. BO 7-129ARFF Water Integrated Dynamic Parking Display Systems at FLL SAI-07-T6-03
 Gate 100/101 Relocation at FLL SAI-T4-02, RCC Vender Space Shell Renovations BO 6-125, Stranahan H.S. Renovations, Veterans of Foreign War facility, Miramar Police Station, Pompano Park, Lauderdale Sports Park, Palm Beach Atlantic College Music Bldg.

Major Industrial Projects:

Mobil Gas Station, AutoNationUSA Recon. Facility, FIU research facility- "Wall of Wind", U.S. Sugar Corp. manuf. facility, Osceola Farms and Tropicana orange juice facilities, Lake Worth Waste Water Treatment Plant, Palms Springs Water Treatment Plant, Digital PCS Cellular phone towers, Praxair Industrial facility.

C&W Engineering
 27775 Vista Parkway, G-6
 West Palm Beach, FL 33411
 (561) 642-5333

Neiman Marcus alterations facility,
FAU building renovations,
Taravella High School new bldg.,
Miami Dade School renovations.

CarpetMax,
Miramar Business Park,
BagelMania,
Retail stores at Riverfront-Ft Laud.
Sawgrass Mills Mall tenants,
Burdines Furniture Gallery
Mobil Gas Station
Holy Cross Hospital MOB,
Holy Cross interior Renovations.

Ed Morse car dealers
Palm Beach estate homes

C&W Engineering
27775 Vista Parkway, G-6
West Palm Beach, FL 33411
(561) 642-5333



Jose L. Reyes

C&W Engineering – Electrical Engineer

Professional Employment History

Jose has over twenty years of proven experience in industrial, municipal and electric utility design and construction projects. His experience includes electric power distribution, design of water and waste water, and storm water projects, and their construction. He also has experience with telecommunications, lighting and recreational lighting. His greatest strengths include power, instrumentation, telecommunications systems, controls and telemetry systems

Education:

BS in Electrical Engineering,
1989, Florida International
University

Representative Projects

Town of Jupiter, South Jupiter Community Park - Phase II

The park included car parking area, sports field lighting, concession stand, rest rooms and the like. Our work included power distribution, parking lot photometrics, grounding, lightning protection and the like.

Town of Jupiter, Jupiter Town Hall Telecom Shelter

The work included providing a study and exhibits for the Town of Jupiter's use. The study indicated existing facilities and loads. It indicated capacity that may be used by multiple telecom tenants.

Town of Jupiter, Hotwire Fiber Optic – Telecom Shelter

The work included providing a study and exhibits for the Town of Jupiter's use. The study indicated existing facilities and loads. It indicated capacity that may be used by Hotwire telecom tenant.

City of Lake Worth Municipal Beach Lighting

The project included turtle lighting; parking lot and roadway lighting. Photometric and installation design.

Bethesda Hospital Parking Lot Lighting

The project included a photometric design and installation design.

Town of Palm Beach Ejector Lift Stations

The project included converting several air operated lift station to electrically operated stations, and interface new electrical equipment with telemetry.

Professional Experience

Project Engineer, Resource Management International, Inc.
Field Engineer, City of Lake Worth Utilities

Professional Resume
TYLER CHAPPELL

Education

Texas Christian University- Fort Worth, Texas, Bachelor of Science, August 1997, Environmental Science

Summary

Mr. Chappell's capabilities include wetland jurisdictional determinations, environmental feasibility studies, seagrass surveys, gopher tortoise surveys, environmental permitting, mitigation design, and mitigation monitoring. Mr. Chappell has performed a number of endangered and threatened species surveys, jurisdictional determinations, and environmental monitoring reports. Mr. Chappell has also conducted construction compliance inspections including turbidity monitoring for wetland and coastal projects. He has over eighteen years of experience in many types of environmental permitting, including residential docks, marinas and coastal development.

Professional Experience:

VICE PRESIDENT

APRIL 2005 – PRESENT

The Chappell Group, Inc. Pompano Beach, Florida

Responsibilities include wetland jurisdictional determinations, environmental feasibility studies, Phase I ESA's, seagrass surveys, gopher tortoise surveys, environmental permitting with all agencies, mitigation design, and mitigation monitoring. Residential and commercial marina permitting and design including all aspects of sovereign submerged land regulations with the Division of State Lands. Construction compliance inspections including turbidity monitoring for wetland and coastal projects.

DIRECTOR, ENVIRONMENTAL SERVICES

JANUARY 1998 – APRIL 2005

Craven Thompson & Associates, Inc. Fort Lauderdale, Florida

Responsibilities include wetland jurisdictional determinations, environmental feasibility studies, Phase I ESA's, seagrass surveys, gopher tortoise surveys, environmental permitting with all agencies, mitigation design, and mitigation monitoring. Residential and commercial marina permitting and design including all aspects of sovereign submerged land regulations with the Division of State Lands.

Partial List of Projects:

- Gateway Hotel & Marina, Daytona Beach
- Harbour Towne Marina – Dania Beach
- Sunrise Harbor Marina, Fort Lauderdale
- Port Everglades Bridge over the FPL Discharge Canal, Port Everglades
- Boca Raton Beach Club & Marina, Boca Raton
- Ocean Express Pipeline, Dania Beach / Bahamas
- Miramar Regional Park, Miramar
- Dania Beach Port Casino, Dania Beach
- Border Patrol Center, Hollywood, FL
- Heron Bay, Parkland
- White Bay Cay, Exumas
- Hall of Fame Marina, Fort Lauderdale
- Fort Lauderdale Hollywood International Airport, Broward County
- Broward County Mitigation Monitoring, BC Waste & Recycling Services
- Pembroke Road over I-75, Broward County
- Sheridan Street, Broward County
- Deerfield Beach Pier Renovation, Deerfield Beach, FL
- Radisson Riverwalk Hotel, Tampa
- Port Everglades Turning Notch Expansion, Fort Lauderdale, FL
- Dania Beach Marina, Dania Beach, FL
- Broward County Segment II Beach Renourishment
- Southport Phase XI A&B

Certifications:

- ISA Certified Arborist

Affiliations:

- South Florida Association of Environmental Professionals, Past President
- Florida Association of Environmental Professionals, Past Board Member
- Leadership Broward Graduate, Class XIX
- Marine Industries Association of South Florida, Member
- Florida Inland Navigation District, Past Broward Commissioner
- Riverwalk Trust, Past Board Member
- Broward Alliance, Past Investor
- International Society of Arboriculture, Certified Arborist, Member
- Hillsboro Inlet District, Broward Commissioner
- Friends of Hugh Taylor Birch State Park, Secretary of Board
- Port Everglades Association, Board Member
- Broward Workshop, Business Advocacy Committee
- Coastal Coalition, Fort Lauderdale Chamber of Commerce

*Professional Resume***KATHRYN BONGARZONE****Education**

Averett University, Danville Virginia 2007-2010
 B.S. Environmental Science, minor Political Science, Magna Cum Lade

Summary

Ms. Bongarzone's capabilities include wetland jurisdictional determinations, environmental feasibility studies, seagrass surveys, environmental permitting, mitigation design, and mitigation monitoring. Ms. Bongarzone has experience with endangered and threatened species surveys, jurisdictional determinations, and environmental monitoring reports. As a member of *The Chappell Group, Inc.*'s team, Ms. Bongarzone is handling environmental permitting, including residential docks, marinas and coastal development projects.

Professional Experience:

SENIOR PROJECT BIOLOGIST

MAY 2014 – PRESENT

The Chappell Group, Inc. Pompano Beach, Florida

Responsibilities include wetland jurisdictional determinations, environmental feasibility studies, seagrass surveys, environmental permitting with all agencies, mitigation design, and mitigation monitoring. Residential and commercial marina permitting and design including all aspects of sovereign submerged land regulations with the Division of State Lands.

Newfound Harbor Marine Institute at Seacamp Association

Head Unit Leader/Instructor

SEPTEMBER 2012- APRIL 2014

- Teach students through lecture, laboratory and field lessons in interpretive tropical marine science both on land and on water
- Captain a 26 ft. USCG designated research vessel, act as an ARC lifeguard, NAUI skin diving leader, and participate in hospitality services necessary to a residential facility
- Work directly with teachers to coordinate their trip for up to 120 students, including logistics, custom scheduling and lesson plans to fit the needs of each school

Partial List of Projects:

- Port Everglades Turning Notch Expansion, Port Everglades
- Dania Beach Marina, Dania Beach
- Yachts Miami Beach Boat show, Miami Beach
- Harbor Towne Marina, Dania Beach
- Lauderdale Marine Center, Fort Lauderdale
- Pier 66 Marina, Fort Lauderdale
- Sunrise Parks, City of Sunrise
- Cooper City Soccer Park, Cooper City
- Alsdorf Park, Pompano Beach
- Private client, single family home dock design and permitting
- Tortuga Music Festival

Affiliations:

- South Florida Association of Environmental Professionals, Member
- Leadership Broward, Class XXXVII
- International Society of Arboriculture, Certified Arborist, Member

Certifications:

- ISA Certified Arborist
- USCG OUVF Licensed Captain with Towing Endorsement
- ARC Lifeguard, First Aid and CPR certified
- ARC Lifeguard, First Aid and CPR Instructor
- PADI Open water SCUBA certified

Jason R. Cummins, PE

Principal Engineer, Marine Structural Engineer

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Coastal & Marine Engineering



SKILLS & EXPERTISE

- ✓ Planning and Feasibility of Marine Infrastructure Projects
- ✓ Underwater Investigations (SCUBA)
- ✓ Coastal Design Criteria - Tides, Waves, Currents and Hurricanes
- ✓ Structural Design of Steel and Concrete Marine Structures
- ✓ Bathymetric Surveying



YEARS OF EXPERIENCE

- 15

EDUCATION

- MSc Coastal and Oceanographic Engineering, University of Florida
- BSc Civil Engineering, University of Florida

LICENSES

- Florida PE No. 71538

CERTIFICATIONS

- Certified Diver
- FHWA A-NHI 130091 Underwater Bridge Inspection – National Highway Institute and Association of Diving Contractors

PROFESSIONAL AFFILIATIONS

- Urban Land Institute (ULI) SE Florida/Caribbean, Member
- American Society of Civil Engineers, ASCE
- American Institute of Architects
- South Florida Association of Environmental Professionals

RELEVANT EXPERIENCE

Jason Cummins is a Coastal Engineer with significant experience in inspections, planning, engineering, regulatory permitting and construction of coastal and waterfront development and infrastructure projects in Florida, Caribbean and Latin America. He is a registered Professional Engineer in the U.S., capable of designing marine facilities, shoreline stabilization and coastal structures. He is proficient in the application of numerical models, including the Danish Hydraulics Institute (DHI) MIKE-21 suite of numerical modeling tools, structural analysis tools and Federal State and Local design codes. In addition to his professional achievements, Jason presently serves on the non-profit Board for Bill Baggs Cape Florida State Park.

Concrete Dock Repairs at Sunset Harbour Yacht Club, Miami Beach, Florida. Repairs of concrete slabs, caps, and piles for a 125-slip yacht marina. Environmental permit applications were prepared and processed with the Miami-Dade County DERM, FDEP, and USACE. Detailed repair drawings were prepared with specific criteria to minimize impacts to adjacent structures, including the removal and replacement of severely deteriorated deck slabs. Construction administration services were provided to review in accordance with construction documents and environmental permits. In addition, ongoing engineering support services have been provided for various projects since 2013. (*Sunset Harbour Yacht Club, 2012 – Ongoing*). Reference: Doug Mason; 305-398-6800; dmason@sunsetharbouryc.com

Dade Boulevard/Collins Canal Shoreline Stabilization & Seawall Replacement, Miami Beach, Florida. Marine engineering and construction drawings for 2,670 LF of shoreline stabilization associated with a linear park and bike path. Structural design of steel sheet pile and reinforced concrete cap, including barrier wall connection, and utility crossover detail for FPL 69KV oil-filled transmission line (*Harbour Construction, 2011 – 2013*). Reference: Guy Lessor; 305-603-9944; gl@harbourconstruction.com

Seahaven Superyacht Marina, Dania Beach, Florida. Engineer of Record for new marina design and construction administration services for approximately 1,200 feet of new bulkhead for a deep-water yacht basin located in the Dania Cut-Off Canal. Part of the canal was excavated to create a new marina basin connected to the canal for this 40-slip superyacht marina. Bulkhead consists of steel sheet piling with concrete batter piles and reinforced concrete capping beams. Design criteria for a floating dock was also prepared including anticipate

Jason R. Cummins, PE

Principal Engineer, Marine Structural

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Coastal & Marine Engineering

mooring loads. (*Seven Kings Holdings, Inc., December 2017 – November 2019*). Reference: Ken Blair; 561-625-9443; Ken@SKHOLDINGS.com

Bentley Bay Marina, Miami, Florida. Cummins Cederberg designed a new marina utilizing concrete piles, cap and beams with grated decking, as required to allow for adequate light penetration to reach the submerged bottom supporting seagrass habitat. Design services also included material selection and coordination of utilities.

Costa Brava Marina, Miami Beach, Florida. Environmental permitting for reconstruction of a 30-slip marina in Biscayne Bay through local, State, and Federal Agencies such as Miami-Dade County DERM, FDEP, and USACE. Engineering support through construction bid process, including bid evaluation, contractor selection and construction administration.

Fisher Island Slip Widening Project, Miami, Florida. Dredge and scour protection design for slip widening. Evaluated required dredge elevation based on proposed commercial ferry required under-keel clearance and hardbottom location. Evaluated the scour resulting from the proposed commercial ferry at the slip and determined the protection scheme to prevent scour from the vessel to occur within the slip. Seabed velocities were determined from the proposed ferry's characteristics and the required scour protection (rock diameter, weight, layers, etc.) was determined at the slip.

Lake Worth Inlet Flood Shoal Dredging, Palm Beach County, Florida. Performed the coastal engineering analysis and dredge design for the Lake Worth Lagoon Flood Shoal Dredging Project. The coastal engineering analysis included the numerical model of the tidal hydrodynamics at the project site and the modeling of the sediment transport patterns following the dredging of the project. Conducted an analysis of the potential impacts to the local marine resources during dredging operations and developed construction methodologies to prevent impacts to the marine resources

Pelican Harbor Marina Dock D Maintenance Dredging Project, Miami-Dade County, Florida. Prepared a dredging design for maintenance dredging of the marina basin at the Pelican Harbor Marina in Miami-Dade County. As part of the dredge design sediment probes were conducted to identify the location of the limestone layer and the thickness of the silt layer. Based on bathymetric surveys conducted at the site, the design dredge template was developed for the proposed area adjacent to Dock "D" at the site. quantities of dredge materials were estimated using a 3-D surface model based on the design dredge template and the bathymetric survey.

Sea Breeze Resort Maintenance Dredging, Islamorada, Florida. Prepared a maintenance dredging design for the Seabreeze Resort in Islamorada. Conducted sediment probes as part of the data collection portion for the dredging design. The sediment probes identified the thickness of the silt layer and the location of the hardbottom. Based on the sediment probes and bathymetric survey information, a dredge template was established, and the dredging amount quantified.

Little Palm Island Restoration Dredge Project, Munson Island, Monroe County, Florida. Prepared a dredging design for the Little Palm Island Marina in Munson Island. The dredge design included the proposed dredge cross-sections based on data collected from bathymetric surveys at the project site. The developed dredge cross-sections included the cubic yards per linear foot of dredge for each cross-section and the delineation of the hardbottom.

1097 Hillsboro Mile Maintenance Dredging Project, Hillsboro Beach, Florida. Prepared a dredging design for maintenance dredging of a private residence in Hillsboro Beach. The material to be dredged was in front of an existing sheet pile retaining wall, and thus the design needed to consider potential stability issues based on the sheet pile characteristics and removed material. Dredge cross-sections were developed based on the stability requirements for the sheet pile wall and vessel under-keel clearance requirements. Quantities of dredge materials were estimated using a 3-D surface model based the bathymetric site and dredge cross-sections.

Ocean Breeze Community Maintenance Dredging, Marathon, Florida. Prepared a maintenance dredging design for the Ocean Breeze Community in Islamorada that faced significant damage from Hurricane Irma and was in need of repair. Conducted sediment probes as part of the data collection portion for the dredging design. The sediment probes identified the thickness of the silt layer and the location of the hardbottom. Based on the sediment probes and bathymetric survey information, a dredge template was established, and the dredging amount quantified.

Jordon P. Cheifet, PE, CFM

Senior Marine Structural Engineer

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Coastal & Marine Engineering



SKILLS & EXPERTISE

- ✓ Coastal Engineering and Modeling
- ✓ Waterfront Structural Design
- ✓ Underwater Inspection
- ✓ Construction Plans and Specifications
- ✓ Construction Oversight
- ✓ Feasibility Studies of Marine and Coastal Engineering Projects

YEARS OF EXPERIENCE

- 15

EDUCATION

- M.Sc. Ocean and Resources Engineering, University of Hawaii
- B.Sc. Civil Engineering, Pennsylvania State University

LICENSES

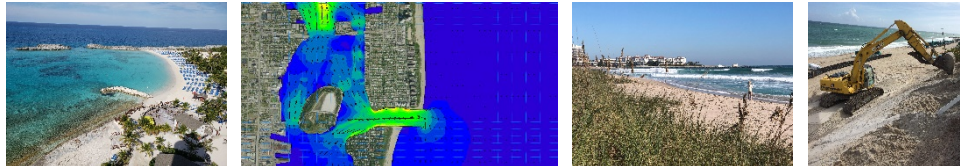
- Florida PE No. 72876

CERTIFICATIONS

- Professional Engineer – Florida No. 72876
- Certified Floodplain Manager
- Certified Video Ray ROV Operator
- Surface Supplied Air Underwater Inspection Certification
- Advanced/Rescue/Nitrox SCUBA

PROFESSIONAL AFFILIATIONS

- Association of State Floodplain Managers, Member
- Florida Floodplain Managers Association, Member



RELEVANT EXPERIENCE

Jordon Cheifet is a Marine/Coastal Engineer with more than 15 years of technical and project management experience, including coastal engineering, beach nourishment design, waterfront structure design, FEMA coastal floodplain mapping, shoreline restoration/stabilization design, numerical modeling, and marina design. His field experience includes underwater waterfront facility inspections, GIS/GPS data collection and analysis, surveying, and construction administration. Jordon is a registered Professional Engineer in the State of Florida, Alabama, and Texas, as well as a Certified Floodplain Manager.

City of Deerfield Beach Stormwater Master Plan, Deerfield Beach, Florida. Conducted a field investigation to evaluate existing coastal stormwater and flood defense structures in tidal waters relative to service life for the City. The project included a detailed analysis of historical water levels to establish design water levels based on king tides, storm events, and long-term sea level rise projections. Recommendations for maintenance and repairs were summarized in a Coastal Condition and Resiliency Report. *Owner: City of Deerfield Beach, Client: Geosyntec Consultants, Inc. (Jan 2020 – Mar 2020).*

NSU Ocean Campus Groin & Wharf Design, Dania Beach, Florida. Development of conceptual plans related to relocating the groin and fortifying the wharf and seawall to accommodate a USACE dredging project at the NSU Oceanographic Center. Project included evaluation of existing geotechnical data, navigational feasibility, cost estimating, and wave climate analysis. Coordination with U.S. Navy and U.S. Coast Guard to discuss concepts and feasibility. *Owner/Client: Nova Southeastern University, (Feb 2020 – Present).*

Mooring Buoy Design, Miami, Florida. Provided coastal engineering design for new mooring buoys at 6 artificial/natural reef sites in the Atlantic Ocean. The project included sediment probes to determine buoy foundation requirements, engineering design, and preparation of plans and specifications. Project is scheduled to begin construction Summer 2020. *Client/Owner: Miami-Dade County, (Oct 2019 – Feb 2020).*

Jordon P. Cheifet, PE, CFM

Senior Marine Structural Engineer

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Coco Plum Beach Nourishment, *City of Marathon, Florida*. Provided coastal engineering services for a beach restoration project along approximately 1,500 feet of shoreline eroded from Hurricane Irma. Project included beach template design, development of technical specifications, and sediment characterization. Obtained FDEP CCCL permit while coordinating with City staff and local sand mines. Project is scheduled to begin construction Summer 2020. *Owner: Monroe County, Client: Bermello Ajamil & Partners, Inc., (Oct 2019 – Present)*.

Hillsboro Imperial Condominium Seawall Condition Assessment, *Hillsboro Beach, Florida*. Performed a condition assessment of 250 feet of seawall fronting the Atlantic Ocean shoreline. An engineering report was developed to document the observed conditions and assist in developing repair and maintenance recommendations based on the severity of damage and results of the initial investigation. *Owner/Client: (Hillsboro Imperial Condominium Association, Inc., (January 2020 – February 2020))*.

Kristi House Shoreline Stabilization, *Miami, Florida*. Provided structural/coastal engineering design for 525 feet of shoreline stabilization along an eroded portion of Wagner Creek. The project included a steel sheet pile bulkhead and armor stones with transition grading to the existing upland parking lot. Services performed included scour analyses, wave load analyses, and structure design. The project is currently in environmental permitting with construction expected to commence in 2021. *Owner/Client: Miami-Dade County (Oct. 2019 - Present)*.

Sailfish Marina Condition Assessment, *Palm Beach Shores, Florida*. Performed a marine engineering inspection to compare as-built conditions to the approved construction drawings for a new dock, which may not have been constructed following the approved design drawings. A report will be including an assessment of the existing marine structures and a comparison summary with the approved plans, and recommendations for rehabilitation, if applicable. *Owner: Sailfish Marina & Resort, Client: Sompso International Insurance (Mar 2020 – Present)*.

Hurricane Irma Repairs, *City of Deerfield Beach, Florida*. Performed a structural engineering assessment of the International Fishing Pier to evaluate the current condition after damage sustained during Hurricane Irma. Engineering data obtained was used to provide recommendations for repair design. Provided structural engineering design and construction administration services for the repair of the structure. *Owner/Client: City of Deerfield Beach (Sep 2017 – Apr 2018)*.*

Southern Palm Beach Island Comprehensive Shoreline Stabilization, *Town of Palm Beach, Florida*. Provided coastal engineering support to respond to public comments associated with the USACE Environmental Impact Statement review process. Technical responses were prepared based on a review of the basis of design and technical documentation used to prepare the draft and final EIS documents. *Owner/Client: Town of Palm Beach, (Aug 2016 – Jan 2018)*.*

Groin Rehabilitation, *Town of Palm Beach, Florida*. Provided coastal engineering support to respond to public comments associated with the USACE environmental permit review process. Technical responses were prepared based on a review of the basis of design and technical documentation used to prepare the draft and final EIS documents. Prepared and submitted Individual Project Authorization (IPA) application materials to the FDEP to secure environmental permits under the Beach Management Agreement (BMA). *Owner/Client: Town of Palm Beach (Aug 2016 – May 2018)*.*

Mid-Town Beach Groin Construction, *Town of Palm Beach, Florida*. Provided structural/coastal engineering design for a 140-foot rubble mound groin to provide shoreline stabilization along a severely eroded portion of the Atlantic Ocean shoreline. The project included armor stones, a marine mattress foundation, and a beach fill to serve as a dry work area. Services performed included scour analyses, wave load analyses, bidding support, and construction administration. He was the Engineer-of-Record for the project. *Owner/Client: Town of Palm Beach, (Dec 2017 – Jun 2018)*.*

Mid-Town Seawall Post-Irma Assessment, *Town of Palm Beach, Florida*. Performed a structural engineering assessment of the Mid-Town Seawall to evaluate the current condition after damage sustained during Hurricane Irma. Engineering data obtained was used to provide recommendations for repair design including concrete hardness testing and non-destructive testing of the steel sheet pile thickness using an ultrasonic gauge. Provided engineering recommendations to the Town for possible repair and replacement of the structure. *Owner/Client: Town of Palm Beach, (Oct 2017 – Jan 2018)*.*

* Services provided while with former firms.

Jason Taylor, PE

Senior Marine Structural Engineer

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Coastal & Marine Engineering



SKILLS & EXPERTISE

- ✓ Above and below water inspections
- ✓ Bulkhead and seawall design
- ✓ Fixed and floating marina design
- ✓ Vessel mooring/berthing analysis
- ✓ Construction administration and inspections
- ✓ New construction, repairs, retrofits and forensic analysis

YEARS OF EXPERIENCE

- 22

EDUCATION

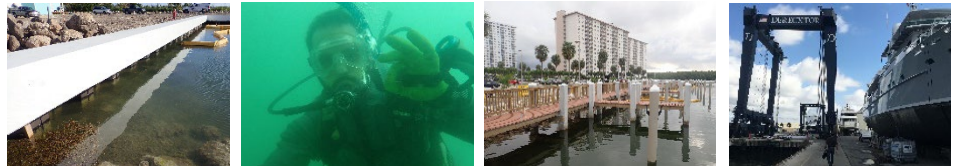
- M.Sc. Structural Engineering, Stanford University
- B.Sc. Civil Engineering, Stanford University

CERTIFICATIONS

- Florida PE No. 60277
- Special Inspector
- Certified Diver
- Advanced open water scuba

PROFESSIONAL AFFILIATIONS

- American Institute of Steel Construction
- American Concrete Institute



RELEVANT EXPERIENCE

As a Senior Project Engineer, Jason is responsible for the structural inspection, design and construction administration for marine structural engineering projects. He holds a master's degree in Structural Engineering from Stanford University and has twenty-two years of experience as a structural engineer with a focus on coastal and marine structures. Jason has completed marine structure projects in the US and the Bahamas, including ports, fender systems, mooring dolphins, bulkheads, seawalls, docks and piers. Jason is also a certified diver and leads the underwater structural inspection team.

Seahaven Superyacht Marina, Dania Beach, Florida. Marina design and construction administration services for approximately 1,200 feet of new bulkhead for a deep-water yacht basin located in the Dania Cut-Off Canal. Part of the canal was excavated to create a new marina basin connected to the canal for this 40-slip superyacht marina. Bulkhead consists of steel sheet piling with concrete batter piles and reinforced concrete capping beams. Design criteria for a floating dock was also prepared including anticipate mooring loads. Construction administration services included review of contractor payment, site observations with reports, pile driving logs, materials testing, final inspection, environmental permit close out services, and underwater inspections. (*Seven Kings Holdings, Inc., December 2017 – November 2019*). Reference: Ken Blair; 561-625-9443; Ken@SKHOLDINGS.com

Ocean Breeze RV Park, Marathon, Florida. Structural design of steel sheet pile bulkhead and timber dock structures to replace existing structures which experienced damaging impacts of Hurricane Irma in 2017. (*Sun Communities, October 2017 – May 2020*). Reference: Brad Pinover; 248-327-8109; BPinover@suncommunities.com

Sea Breeze RV Park, Islamorada, Florida. Project consisted of engineering design of marina basin and channel dredging, and structural design of bulkheads, shoreline stabilization and marina components that experienced damaging impacts of Hurricane Irma in 2017. Responsible for structural design of steel sheet pile bulkheads, and timber dock structures for the associated marina basins. (*Sun Communities, September 2017 – June 2020*). Reference: Brad Pinover; 248-327-8109; BPinover@suncommunities.com

Jason Taylor, PE

Senior Marine Structural Engineer

CUMMINS | CEDERBERG
Coastal & Marine Engineering

Bay Harbor Islands, Miami, Florida. Above and underwater inspection and condition assessment of approximately 20,000 feet of seawall, rock revetment and dock structures along the three Bay Harbor Islands. The focus of the inspection was to identify cracks, spalling, corrosion, deterioration, damage and/or displacement as well as excessive undermining or sediment transport along the toe of seawalls. The planning of the project includes analysis of the inspection findings to determine rehabilitation and/or replacement of the existing structures with respect to age, condition, and sea level rise resiliency. (*Chen Moore & Associates, February 2018 – October 2019*). Reference: *Gregory Mendez; Gmendez@chenmoore.com*.

Sunset Harbour Yacht Club, Miami Beach, Florida. Repairs of concrete slabs, caps and piles for 125 slip yacht marinas. Environmental permit applications were prepared and processed with the Miami Dade County Regulatory and Economical Resources Department, Florida Department of Environmental Protection and US Army Corps of Engineers. Detailed repair drawings were prepared with specific criteria to minimize impacts to adjacent structures, including the removal and replacement of severely deteriorated deck slabs. Construction administration services were provided to review in accordance with construction documents and environmental permits.

Costa Brava Marina, Miami Beach, Florida. Costa Brava Condominium Association. Engineering support through construction bid management process, including bid evaluation, contractor selection and construction administration. Construction administration services included special inspector, review of change orders, review of contractor submittals, payment applications and material specifications. Coordinated with the contractor to keep the project on budget and schedule. Specifically, following construction initiation access to the Island was restricted due to an unexpected weight restriction on nearby bridges following unrelated damage. To resolve this, Cummins Cederberg coordinated with the City as well as the concrete supplier and obtained special permits specifically for the concrete trucks.

Bentley Bay Marina, Miami, Florida. Cummins Cederberg designed a new marina utilizing concrete piles, cap and beams with grated decking, as required to allow for adequate light penetration to reach the submerged bottom supporting seagrass habitat. Design services also included material selection and coordination of utilities. Jason performed construction administration including bidding, inspections, field reports and permit close-out.

North Bulkhead Repair, Port of Miami, Miami, Florida. Design of underwater repairs for steel sheet pile bulkhead. Repairs included welded steel cover plates, cement bag armoring and installation of jet filters.

Bimini Bay Ferry Terminal, Bimini Islands, The Bahamas. Design of 30'W x 1,600 LF access pier for new cruise terminal. Precast concrete planks, caps and steel pipe piling supporting truck traffic. Concrete topping slab pavement. Steel sheet pile abutment at island.

Port Everglades Ship Unloader Upgrade, Fort Lauderdale, Florida. Marine engineering and structural analyses of existing unloader foundation for gravity loads from various machines for a new unloader which required retrofit or replacement of the existing substructure at the unloader fairway. The analyses focused on a proposed retrofit and a preliminary design was conducted as a feasibility study with modifications to the wharf structure that need to be made to support its operation at the Port Everglades facility.

Universal Marine Center, Fort Lauderdale, Florida. Component design and inspection for yachting facility on the South Fork of the New River. Structural design plans and construction administration for new steel sheet pile bulkhead with concrete batter piles, steel pipe mooring piles for floating docks, timber dolphin clusters. 125' LOA design vessel. Following the design, Jason served as special inspector and provided construction administration throughout the duration of construction.

Derecktor Megayacht Yard Travel Lift Piers, Dania Beach, Florida. Marine engineering services for the extension and relocation of existing travel lift piers located at the Derecktor shipyard. Designed pier extensions associated with 900-ton travel lift and new piers for relocation of a 200-ton travel lift. Managed the bidding process, assisted and made recommendations for contractor selection.

Christie Hurley

Environmental Science & Permitting

CUMMINS | CEDERBERG
Coastal & Marine Engineering



SKILLS & EXPERTISE

- ✓ Environmental Permitting and Compliance
- ✓ Sovereign Submerged Lands and Easement Permitting
- ✓ Biological Assessments and Marine Resource Mapping
- ✓ Environmental Impact Assessment and Minimization Analysis
- ✓ Mitigation Assessment, Planning and Monitoring
- ✓ Grant Funding Assistance and Compliance

YEARS OF EXPERIENCE

- 17

EDUCATION

- M.Sc. Biology, Florida Atlantic University
- B.A. Anthropology, Minor in Ecology & Evolutionary Biology, University of Arizona

CERTIFICATIONS

- DAN (First Aid, CPR, AED, & Oxygen)
- Florida Master Naturalist
- NMFS/MMS Marine Mammal/Protected Species Observer
- NITROX
- US Power Squadron Piloting
- US Power Squadron Safe Boat Operation
- PADI Rescue Diver
- PADI Advanced Diver
- PADI Open Water Diver

PROFESSIONAL AFFILIATIONS

- America Academy of Underwater Sciences (AAUS) – Individual Member
- South Florida Association of Environmental Professionals (SFAEP)
- Treasure Coast Chapter Florida Association of Environmental Professionals (TCCFAEP)
- South East Florida Coral Reef Initiative (SEFCRI)



RELEVANT EXPERIENCE

Christie Hurley is Project Manager and Marine Biologist with over 17 years of experience in the fields of environmental monitoring, assessment, planning, reporting, as well as federal, state, and local regulatory permitting, permit compliance, and closeout to support the firms' commitment to sustainability on all Cummins Cederberg projects.

She is responsible for managing projects including, dredge and fill projects, international, municipal and private marinas, municipal beach nourishment and coastal structure projects, shoreline protection projects, and mooring field projects. She is well versed in grant research and funding applications, due diligence/feasibility studies, environmental resource surveys including seagrass, hardbottom/reef and coral monitoring and mapping, preparation of management plans, contingency mitigation plans, and resource monitoring plans.

Fisher Island Sand Tightening Project, Miami-Dade County, Florida. Completed a seagrass/hardbottom mapping and coral survey/report in support of the upcoming sand tightening project. The Main Beach and Club Beach terminal groins along the eastern portion of Fisher Island are permeable, allowing sand to escape the beach and is affecting beach performance and causing shoaling in the adjacent marina. Held pre-application meetings and prepared permit applications through Miami-Dade County DERM, the FDEP, and the Corps to authorize construction activities. Additionally, had discussions with FWC regarding securing a Special Activity License for relocating corals and have negotiated no relocation mitigation to be necessary. Currently working processing permits. (*Fisher Island Community Association 2018 – Ongoing*) Reference: Nick Azar; 305-968-1688; nazar@fisherislandfca.com

Miami Harbor Phase III Federal Channel Expansion Project Miami, Florida. Project Manager responsible for overseeing, budgeting, scheduling, supervising staff, data collection, and report preparation for five separate marine resource surveys including coral health, coral transplantation survivorship, *Acropora cervicornis* monitoring, artificial reef and 5 years of seagrass monitoring projects over 8 acres in conjunction with the Project. (Miami Harbor 2012-2018). Reference: Becky Hope; 305-347-4972; bhope@miamidade.gov

Christie Hurley

Environmental Science & Permitting

CUMMINS | CEDERBERG
Coastal & Marine Engineering

The Bay Public Waterfront Project, Sarasota, Florida. The Bay is an environmental, resilient revitalization of the public waterfront in downtown Sarasota. Conducted a large-scale marine resource assessment of 43 acres of submerged lands within Sarasota Bay in 2018, as well as a follow up refined marine resource survey of the Phase I Project area in 2019 based on the revised conceptual designs for the Project. The 2018 marine resource investigation included 43 acres of the submerged lands along Sarasota Bayfront offshore of Centennial Park and the Van Wezel Properties. The survey involved monitoring of 20 transects (200 to 300 ft long), as well as three additional areas of investigation which confirmed the presence and density of three seagrass species (*Thalassia testudinum*, *Syringodium filiforme*, and *Halodule wrightii*), as well as the location, dimensions and health of stony corals. The 2019 survey included a marine resource investigation of the submerged lands along Sarasota Bayfront offshore of the Van Wezel Property in support of environmental permitting of Phase I of the Project. The survey involved monitoring of nine transects (approximately 300 ft long), as well as two additional areas of investigation which confirmed the presence, density and seagrass edge of the mouth of the mangrove creek and within the riprap beach area south of the mangrove creek. The survey confirmed the presence and density of four species of seagrass (*Thalassia testudinum*, *Syringodium filiforme*, *Halodule decipiens* and *Halodule wrightii*), as well as the location, dimensions and health of stony and soft corals. Additionally, directed a mangrove and exotic vegetation mapping survey and researched and prioritized applicable grants to fund the proposed Project. Presented the results of these surveys to the Corps, FDEP, and SWFWMD during pre-application meetings and solicited feedback. Once permit drawings are ready, will prepare and process environmental permit applications for State and Federal permits for Phase I. (The Bay Park Conservancy – 2018 – ongoing). *Reference: Bill Waddill; 941-266-1717; Bill.waddill@sbpo.org*

Village of Key Biscayne Beach Renourishment Project, Key Biscayne, Florida. Provided Project management, planning, and permitting services, as well as conducted biological surveys for the Village of Key Biscayne related to beach renourishment of 1.1 miles of beach. Conducted resource assessments of the proposed offshore borrow areas, nearshore seagrass edge mapping to facilitate project design, and permitting. Prepared a Project specific Biological Monitoring Plan for agency approval prior to commencement of construction. Conducted Braun Blanquet monitoring along twenty-seven 35-meter-long transects to establish a baseline for evaluation of any unanticipated project related impacts. Prepared Field Observation Reports documenting the findings of the borrow area surveys, nearshore seagrass edge surveys, and Braun Blanquet monitoring data, and three years of shorebird monitoring with report submittal to the environmental regulatory agencies. Prepared annual FDEP Local Government Funding Requests each year and coordinated awarded grant funding with FDEP.

Flagstone Island Gardens, Megayacht Marina Project, Miami-Dade County, Florida. Conducted an in-water assessment of all biological resources located within two large dredge holes. The dredge holes were filled by clean dredge spoil material as part of the dredging design and environmental mitigation for the 50-slip mega-yacht harbor, accommodating vessels up to 450 feet long. Utilized a Trimble AgGPS Differential Global Positioning System (DGPS) to very accurately map the location of existing marine resources to ensure that no adverse impacts will be suffered by the placement of fill. Also evaluated the donor seagrass areas for the project, noting seagrass species composition, density, and suitability for transplantation onto the clean dredge spoil.

Currie Park Staging Docks Project, West Palm Beach, Florida. Project Manager responsible for the permitting of an Environmental Resource Permit, Corps Individual Permit, U.S Coast Guard PATON Permit, and FWC Uniform Waterway Marker Permit for the staging docks, dredging and channel markers adjacent to Currie Park in West Palm Beach, Florida. Also conducted the marine resource survey and seagrass mapping for the planning and design of the Project.

Collier County Beach Renourishment Project 2003 and 2006 / Doctors Pass Maintenance Dredging, Collier County, Florida. Three years of experience working in Collier County as a Principal Investigator for environmental permitting and seagrass monitoring for the Doctors Pass Inlet Maintenance Dredging Project and as a project scientist for the Collier County Beach Nourishment Project, Collier County, FL (2004-2006). Conducted nearshore hardbottom edge mapping, biological monitoring using BEAMR methodology on nearshore transects, a resource investigation along the nearshore spoil, a seagrass survey along the shoal at Doctors Pass Inlet and assisted with data analysis and report preparation of the Marine Resource Investigation Report for the North Collier County, FL Beach Renourishment Project.

Collins Canal Dredging Project, Miami-Dade County, Florida. Conducted a seagrass survey using random sample analysis along 7,000 linear feet of Collins Canal, south end of Lake Pancoast and 300 linear feet of Indian Creek in 2004.

Jessica C. Ward

Environmental Science & Permitting

CUMMINS | CEDERBERG
Coastal & Marine Engineering



SKILLS & EXPERTISE

- ✓ Hardbottom mapping, characterization and monitoring
- ✓ Seagrass mapping and monitoring
- ✓ Marine Impact Assessment/NEPA
- ✓ Impact avoidance and mitigation planning/design
- ✓ Artificial reef design and monitoring
- ✓ ESA Section 7 Consultation
- ✓ Essential Fish Habitat Assessment

YEARS OF EXPERIENCE

- 20

EDUCATION

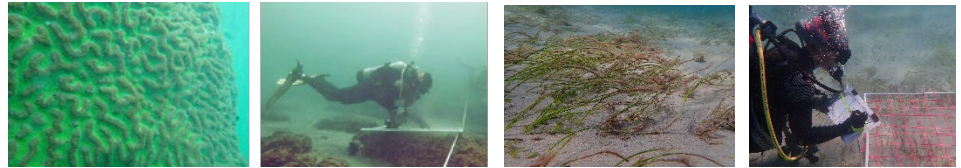
- M.Sc. (Dual) Marine Biology and Coastal Zone Management, Nova Southeastern University, Oceanographic Center
- B.Sc. Marine Biology, University of West Florida

CERTIFICATIONS

- PADI Divemaster; Drysuit Diver; Rescue Diver; Enriched Air Nitrox Diver (IAND/EANx); Specialty Diver; Open Water Diver
- TBOSET offshore safety
- NOAA/MMS Protected Species Observer for the Gulf of Mexico
- AAUS-compliant Scientific Diver

PROFESSIONAL AFFILIATIONS

- South Florida Association of Environmental Professionals (SFAEP) – Board of Directors
- American Academy of Underwater Sciences (AAUS)
- Port Everglades Association (PEA)



RELEVANT EXPERIENCE

Jessica Ward is a Marine Biologist and Project Manager with over 20 years of experience. She has a strong marine background and has worked both nationally and internationally. She has professional expertise in designing and conducting monitoring programs for marine hardbottom, coral reef, and seagrass habitat, siting and biological evaluation of artificial reefs, and leading offshore surveys, including deep-water surveys.

Jessica is very familiar with various types of coastal construction and has served on committees for the Maritime Industry Coastal Construction Impacts team under the US Coral Reef Task Force. She has managed international capital projects involving marine resources across multiple sectors and is frequently sought by project owners as managers as an advisor on marine resource management and impact avoidance.

Peanut Island Flood Shoal Dredging Project, Riviera Beach, Florida. Assisted with the coastal analysis and dredge design for the Peanut Island dredging project. The analysis focuses on potential effects of dredging such as sand accretion, reduction of sediment, and how long until the project needs to be dredged again (*Marine Industries Association of Palm Beach County, Inc., April 2020 – Ongoing*). Reference: Eric Anderson; 561-233-2514; EAnderson1@pbcgov.org

Pelican Harbor Marina, Dock D Maintenance Dredging, Miami, Florida. Conducted necessary field surveys, design, and permitting for maintenance dredging of Dock D area within Pelican Harbor Marina (*Miami-Dade County PROS; March 2019 – Ongoing*). Reference: Joe Garcia; 305-755-5456; JoseG.Garcia@miamidade.gov

Bal Harbor Project, Haulover Inlet Benthic Survey, Miami-Dade County, Florida. Lead biologist for large-scale habitat mapping and characterization study of seagrass, macroalgae and hardbottom communities around flood shoal to support permitting and NEPA efforts, and future monitoring design. Also provided ESA Section 7 consultation support and EFH Assessment (*LG2, December 2019 – February 2020*). Reference: Mark Howell; 904-923-5694; mhowell@lg2es.com

Jessica C. Ward

Environmental Science & Permitting

CUMMINS | CEDERBERG
Coastal & Marine Engineering

Lake Worth Lagoon Annual Fixed Seagrass Transect Monitoring, Palm Beach County, Florida. Conducted monitoring of seagrass along 10 fixed transects throughout the Lake Worth Lagoon and collected physical water quality parameters to assess changes in seagrass cover and distribution over time and examine potential correlation with water quality in the lagoon.

Lake Worth Lagoon Comprehensive Seagrass Mapping Project, Palm Beach County, Florida. Conducted extensive ground-truthing for seagrass distribution throughout the entire Lake Worth Lagoon resulting in comprehensive seagrass map of the Lagoon. Survey is conducted every five years for Palm Beach County to examine changes in seagrass cover and distribution within the lagoon.

St. Lucie Estuary Oyster Habitat Mapping Project, Florida. Project Manager for a large-scale habitat mapping project for the SFWMD to identify and map out existing oyster beds and substrate types within the St. Lucie Estuary. Project involved collection of side scan sonar data, interpretation of imagery in GIS, extensive ground-truthing and production of a final map deliverable. The mapping went through an Accuracy Assessment by District staff and passed at greater than 90% accuracy. The report will assess changes in oyster habitat over time and make inferences from corresponding environmental data, including water quality data.

Higgs Beach Sand Placement Project, Key West, Florida. Lead biologist for a reconnaissance survey of the project area and immediate vicinity to map out and characterize nearshore benthic habitats, including seagrass and hardbottom communities. Coordinated with both the FDEP and FKNMS on the design of the survey and subsequent biological monitoring plan.

Benthic Habitat Mapping of the Marquesas, Florida Keys. NOAA's hierarchical classification scheme to define and delineate southern Florida's shallow water benthic habitats was used to map approximately 1355 sq km of marine bottom in the Marquesas Quicksands Area of the Florida Keys. A large-scale, comprehensive GIS deliverable was produced with the intent of utilization by Marine Sanctuary managers. The data ultimately was incorporated into Florida's Unified Reef Map.

PUBLICATIONS, PRESENTATIONS AND TECHNICAL REPORTS

Craft, J., Palandro, D., Devine, T., Robertson, Q., Vollmer, H. 2010. Benthic Habitat Mapping of the Marquesas / Quicksands Area: Management Implications and Lessons Learned. Abstract. Linking Science to Management: A Conference & Workshop on the Florida Keys Marine Ecosystem. Duck Key, FL, Oct. 19-22, 2010.
https://conference.ifas.ufl.edu/floridakeys/Presentations/PDFS/JCraft_MarquesasQuicksands_40x60_FINAL.PDF

Craft, J.A., 2008. Using nearshore macrobenthos as environmental indicators adjacent to a major navigational inlet: Port Everglades inlet, Florida. Proceedings of the 11th Annual International Coral Reef Symposium, Ft. Lauderdale, FL, Jul. 7-11, 2008. Vol. 1: 100-104 http://www.reefbase.org/resource_center/publication/icrs.aspx

Craft, J.A., Ward, G, Prekel, S. 2008. Sand Key Beach Renourishment Project: 2008 Biological Monitoring Report. Boca Raton, Florida: Coastal Planning & Engineering, Inc. 34 pp. Prepared for Pinellas County.
https://www.researchgate.net/publication/237380270_SAND_KEY_BEACH_RENOURISHMENT_PROJECT_2008_Artificial_Reef_Natural_Hardbottom_Monitoring_Report

OUTREACH

FAEP Seagrass Identification and In-Water Workshop. Assisted in the preparation and presentation of a seagrass identification workshop hosted by the SFAEP. The workshop was open to students, government employees and consultants, and provided training in seagrass identification and seagrass survey methodologies.

Jon Cunningham, E.I.

Marine Structural Engineer

CUMMINS | CEDERBERG
Coastal & Marine Engineering



SKILLS & EXPERTISE

- ✓ Bulkhead and seawall design
- ✓ Fixed and floating marina design
- ✓ Vessel mooring/ berthing analysis
- ✓ Construction administration and inspections
- ✓ New construction, repairs and retrofits
- ✓ Structural building design and inspection

YEARS OF EXPERIENCE

- 4

EDUCATION

- B.Sc. Civil Engineering, Pennsylvania State University

CERTIFICATIONS

- Engineer Intern, E.I.
- Advanced open Water Scuba

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers (ASCE)
- Florida Association of Environmental Professionals (FAEP)



RELEVANT EXPERIENCE

Jon is a Project Engineer with experience in planning, engineering analysis, structural design, construction administration, and above- and below-water inspection, for marine and waterfront projects. He holds a bachelor's degree in Civil Engineering with a Structural Engineering concentration from Penn State University and has four years of experience as a Structural Engineer in building and marine/waterfront projects. Jon has completed and assisted with marine structure projects in the United States, Bahamas, and Turks & Caicos Islands, including ports, mooring dolphins, bulkheads, seawalls, docks, and piers.

Peanut Island Flood Shoal Dredging, Riveria Beach, Florida. Deployment of Acoustic Wave and Current Profiler (ADCP) units on the seabed of Lake Worth (Palm Beach) Inlet and on the seabed at the Blue Heron Bridge to measure current speeds throughout tidal variations. The ADCP's were placed and retrieved at the Inlet location in water depths of approximately 40 feet and at the Blue Heron Bridge location in water depths of approximately 15 feet. Upon retrieving the ADCP units, the measurement data was downloaded and processed to understand the magnitude and variation of the currents relative to the proposed dredging operation at the Peanut Island Shoal. (*Marine Industries Association of Palm Beach County, Inc., February 2020 – Ongoing*). Reference: Eric Anderson; 561-233-2514; EAnderson1@pbcgov.org

Ocean Breeze RV Park, Marathon, Florida. Structural design of steel sheet pile bulkhead and timber dock structures to replace existing structures which experienced damaging impacts of Hurricane Irma in 2017. (*Sun Communities, October 2017 – May 2020*). Reference: Brad Pinover; 248-327-8109; BPinover@suncommunities.com

Sea Breeze RV Park, Islamorada, Florida. Project consisted of engineering design of marina basin and channel dredging, and structural design of bulkheads, shoreline stabilization and marina components that experienced damaging impacts of Hurricane Irma in 2017. Responsible for structural design of steel sheet pile bulkheads, and timber dock structures for the associated marina basins. (*Sun Communities, September 2017 – June 2020*). Reference: Brad Pinover; 248-327-8109; BPinover@suncommunities.com

Jon Cunningham, EI

Marine Structural Engineer

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Bay Harbor Islands, Miami, Florida. Above and underwater inspection and condition assessment of approximately 20,000 feet of seawall, rock revetment and dock structures along the three Bay Harbor Islands. The focus of the inspection was to identify cracks, spalling, corrosion, deterioration, damage and/or displacement as well as excessive undermining or sediment transport along the toe of seawalls. The planning of the project includes analysis of the inspection findings to determine rehabilitation and/or replacement of the existing structures with respect to age, condition, and sea level rise resiliency. (*Chen Moore & Associates, February 2018 – October 2019*). Reference: *Gregory Mendez; Gmendez@chenmoore.com*.

River Landing Seawall and Mooring, Miami, Florida. The City of Miami proposed Public Riverwalk is being developed along the shoreline of the River Landing property site. The current seawall needs to be extended, stabilize the upland development, and establish mooring along the shoreline. Cummins Cederberg is managing the design, permitting, and construction administration of the seawall extension, as well as the design and development of a marginal dock. Currently in the process of submitting permit applications and selecting a contractor. (*Ongoing*)

Riverside Towers Association, Pompano Beach, Florida. Above- and below-water inspection and condition assessment of approximately 250 feet of seawall. Structural design of approximately 250 feet of concrete pile-panel supported seawall.

Little Palm Island, Little Torch Key, Florida. Project consisted of engineering design of dredging and rehabilitation of the sunset dock that experienced damaging impacts of Hurricane Irma in 2017. Responsible for above- and below-water inspection and condition assessment of the existing timber dock structure, and structural design of 4,000 (+/-) square feet fixed timber dock, 500 (+/-) floating dock and associated mooring piles to service up to 120-foot vessels.

Colonial Club Seawall Repair and Replacement, Boynton Beach, Florida. Initially performed above and below water inspection for a 1,500 LF seawall in need of repair. Designed the new seawall consisting of AZ hot-rolled steel sheet pile, pre-stressed concrete batter piles, and a steel reinforced cap. Construction administration services were also performed as well as a serving as Special Inspector for the marine structural components during construction.

Mariner's Cove Association, Palm Beach County, Florida. Above and underwater inspection and condition assessment of approximately 700 feet of docking with the freshwater basin and approximately 1,475 feet of docking and shoreline along the artificial canal West of the Intracoastal Waterway. The focus of the inspection was to identify cracking, spalling and other forms of deterioration of the concrete and timber elements as well as corrosion and deterioration of steel/aluminum connections and framing members of the travel lift separating the freshwater basin from the saltwater canal. The planning of the project includes implementing inspection findings to the design of timber dock structure replacement, aluminum sheet pile seawall replacement and concrete seawall repairs.

Fisher Island Underwater Inspection for Scour Analysis, Fisher Island, Florida. Conducted below-water probe analysis via SCUBA to determine the depth of hard soil layers encountered throughout the 120-foot ferry terminal.

Blue Haven Marina, Providenciales, Turks & Caicos. Above and underwater inspection and condition assessment of the marina servicing up to 220-foot yachts including components such as floating dock units, connections, guide piling, mooring piles, dock hardware and fenders. The inspection was conducted to assess damage and impacts associated with Hurricanes Irma and Maria in 2017.

MSC Cruises Ocean Cay Marine Reserve, Bimini Islands, The Bahamas. Long term current measurements were conducted to obtain an order of magnitude current speeds for discussion with the cruise ship captain relative to operational constraints and planning. The current measurements consisted of the deployment of Acoustic Wave and Current Profiler (ADCP) units on the seabed of the proposed cruise ship berth and within the turning basin. Prior to deployment, the units were digitally set up with associated software and mounting equipment were constructed. Exact location coordinates were determined and located via handheld GPS for the ADCP units were placed on the seabed at those locations in water depths of approximately 40 feet. Upon retrieving the ADCP units, the measurement data was downloaded and processed to understand the magnitude and variation of the currents at the specified deployment locations.

Penny Cutt

Environmental Science & Permitting

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YEARS OF EXPERIENCE

- 26

EDUCATION

- Dual M.Sc. Marine Biology and Coastal Zone Mgt. Nova Southeastern University (*Pending Capstone Review*)
- B.Sc. Agricultural Operations Management Specialization: Bioprocess Management University of Florida, 1992

CERTIFICATIONS

- Advanced open Water Scuba
- DAN (First Aid, CPR, AED & Oxygen)
- U.S. Power Squadron Safe Boat Operation Certification

PROFESSIONAL AFFILIATIONS

- Broward County Marine Advisory Committee, Appointed Member
- Pompano Beach Marine Advisory Board, Appointed Member, Vice-Chair
- Pompano Beach Zoning Board of Appeals, Appointed Member
- Friends of Our Florida Reefs, Board Director
- South Florida Association of Environmental Professionals (SFAEP)
- Treasure Coast Florida Association of Environmental Professionals (TCCFAEP)

SKILLS & EXPERTISE

- ✓ County, State, and Federal Environmental Permitting
- ✓ Avoidance, minimization, and compensation for ecological impacts
- ✓ Hardbottom and seagrass mapping, characterization, and monitoring
- ✓ Joint Coastal Permitting for Beaches and Inlet Management
- ✓ NEPA analysis and documentation
- ✓ Endangered Species Act Consultations
- ✓ Essential Fish Habitat assessment and consultation
- ✓ Mooring field design and permitting



RELEVANT EXPERIENCE

Penny Cutt applies 26 years of experience in the fields of environmental monitoring, assessment, planning and regulatory permitting to support the firms' commitment to sustainability. She applies this project management experience to ensure timeliness and accuracy of deliverables for her clients. Penny can quickly evaluate complex scientific information and communicate it to lay leaders for decision-making purposes. She has a proven track record negotiating complex technical issues, particularly regarding aquatic and coastal ecosystems. The first half of Penny's career was in the public sector administering federal, state, and county environmental regulatory programs. This government expertise has been paramount to her success in the more recent half of her career in the private sector assisting her public and private clients meet their goals.

The Bay, Bay Park Conservancy and Agency Landscape + Planning, Sarasota, Florida. The Bay is an environmental, resilient revitalization of the public waterfront in downtown Sarasota. Conducted a large-scale marine resource assessment of 43 acres of submerged lands within Sarasota Bay in 2018, as well as a follow up refined marine resource survey of the Phase I Project area in 2019 based on the revised conceptual designs for the Project. The 2018 marine resource investigation included 43 acres of the submerged lands along Sarasota Bayfront offshore of Centennial Park and the Van Wezel Properties. The survey involved monitoring of 20 transects (200 to 300 ft long), as well as three additional areas of investigation which confirmed the presence and density of three seagrass species (*Thalassia testudinum*, *Syringodium filiforme*, and *Halodule wrightii*), as well as the location, dimensions and health of stony corals. The 2019 survey included a marine resource investigation of the submerged lands along Sarasota Bayfront offshore of the Van Wezel Property in support of environmental permitting of Phase I of the Project. The survey involved monitoring of nine transects (approximately 300 ft long), as well as two additional areas of investigation which confirmed the presence, density and seagrass edge of the mouth of the mangrove creek and within the riprap beach area south of the mangrove creek. The survey confirmed the presence and density of four species of seagrass (*Thalassia testudinum*, *Syringodium filiforme*, *Halodule decipiens* and *Halodule wrightii*), as well as the location, dimensions and health of stony and soft corals. Additionally, directed a mangrove and exotic vegetation mapping survey

Penny Cutt

Environmental Science & Permitting

CUMMINS | CEDERBERG
Coastal & Marine Engineering

and researched and prioritized applicable grants to fund the proposed Project. Presented the results of these surveys to the Corps, FDEP, and SWFWMD during pre-application meetings and solicited feedback. Once permit drawings are ready, will prepare and process environmental permit applications for State and Federal permits for Phase I. (*The Bay Park Conservancy, 2018 – Ongoing*). *Bill Waddill, Chief Implementation Officer, The Bay Park Conservancy, Bill.waddill@sbpo.org, 941-266-1717*

Fisher Island Shoreline Management – Sand Tightening Project, *Fisher Island Community Association, Fisher Island, Miami-Dade County, Florida*. The Main Beach and Club Beach terminal groins along the eastern portion of Fisher Island are extremely permeable, which results in losses of beach width from the main beach and shoaling within the marina. Conducted nearshore hardbottom, seagrass edge mapping and a coral survey along the Fisher Island main beach and club beach to document resources within the project area in support of the sand tightening project. Pre-application meetings were held and permit applications were prepared and submitted to Miami-Dade County DERM, the FDEP, and the Corps to authorize construction activities. Environmental permit applications are currently being processed. Coastal Structure Rehabilitation - conducted nearshore hardbottom and seagrass mapping and assessment of corals on the seven coastal structures along the Fisher Island Main Beach. These structures were badly damaged during Hurricane Irma and could no longer provide adequate shore protection. Prepared and processed applications and secured permits from Miami-Dade County DERM, FDEP and the Corps to rehabilitate these structures to their previously authorized design. Additionally, conducting required post construction surveys of the nearshore resource limits for 3 years. (*Fisher Island Community Association, Ongoing*). *Reference: Nick Aza; nazar@fisherislandfica.com; 305-968-1688*

Las Olas Marina Redevelopment, *City of Fort Lauderdale, Ft. Lauderdale, Florida*. Environmental permitting for the Las Olas Marina Redevelopment Project. Conducted the benthic survey in accordance with National Marine Fisheries Service guidelines for sampling Johnson's seagrass. Environmental permits are being processed through Broward County, the Florida Department of Environmental Protection, and the US Army Corps of Engineers. Additionally, an expanded sovereign submerged lands lease, private easement, and upland deed modification are being secured to authorize the expanded marina footprint and areas needed for navigational ingress and egress. (*Las Olas SMI, LLC 2017 – Ongoing*). *Reference: Jonathan Luscomb; jluscomb@fortlauderdale.gov; 954-828-5343*

Islamorada Fish Company Maintenance Dredging and Bass Pro Shops Resiliency Upgrades, *Bass Pro Shops, Islamorada, Florida*. Many slips within the Bass Pro Shops Marina basin were silted in and emergent at low tide. Conducted a benthic survey delineating the limits of ecological resources including seagrasses and mangroves. Environmental permits were secured authorizing maintenance dredging in this ecologically sensitive area within the Florida Keys National Marine Sanctuary (FKNMS). The Islamorada Fish Company was suffering from deferred maintenance and increased frequency of king tides, with the commercial dock unsafe and the dining area being partially submerged several times a year. Secured environmental permits for shoreline stabilization, dock replacement, and elevating the peninsula that supports restaurant dining and the bar, within the FKNMS. (*Bass Pro Shops, 2017 – 2020*)

Melbourne Riverwalk Marina Project, *Riverwalk Partners, Melbourne, Florida*. This project involved the revitalization of a marina that was destroyed during past hurricanes. Conducted a marine resource survey of the project area, which included the marina basin, dredge area, and wave attenuator, to facilitate preparation of conceptual designs, also prepared a Marina Feasibility Study identifying project opportunities and the associated environmental regulatory permitting process. The marine resource assessment surveyed the existing bulkhead, remnant wooden breakwater and submerged lands within the marina basin of the old Intracoastal Marina of Melbourne. Sixteen temporary transects were assessed and used to map the species and density of seagrass, macroalgae and other marine resources. The survey confirmed the presence of the seagrasses (*Halodule wrightii* and *Ruppia maritima*), as well as dense beds of attached *Caulerpa prolifera* and unattached mats including *Gracilaria* sp. and *Hypnea* sp. macroalgae. Grant funding opportunities were identified to help fund the project. The results of the marine resource survey and the conceptual designs were presented at pre-application meetings with the FDEP and USACE. Applications were prepared for an Individual ERP from the FDEP to include a new State Lands Lease and an Individual Permit from the Corps. The Project includes a 1,120 ft riprap revetment to stabilize the existing bulkhead, a 950 ft long wooden boardwalk over the riprap revetment, dredging of 13,000 cy within 8.8 acres, and construction of 5 floating docks and a floating wave attenuator dock that will accommodate 231 vessels.



Marcus Unterweger, P.E., S.I., LEED AP
Principal

BENEFITS FOR THE CITY OF POMPANO BEACH

- 20+ years in professional practice
- Previous working experience with various municipalities in Florida including Broward County, Miami/ Dade County, City of Miami, City of Hallandale Beach, City of Pompano Beach, City of Aventura, Palm Beach County and City of Boca Raton
- LEED Certified

PROFESSIONAL EXPERIENCE

Mr. Unterweger is the President of MUEngineers, Inc. He is a Florida registered professional engineer with over twenty years of professional experience. His experience includes the structural design of educational facilities, municipal facilities, high-rise buildings, healthcare facilities, churches, clubhouses, building restoration, office buildings, pedestrian bridges and parking garages.

Marcus Unterweger has owned and operated MUEngineers since 2010, and leads a team of smart, pioneering professionals who share his vision and commitment to delivering superior results for the customers.

EDUCATION

Master of Engineering: Dipl. Ing.
Technical University of Munich,
Germany, 1999

Master of Business,
Business School of Edinburgh,
Britain, 2004

REGISTRATION

Registered Engineer
State of Florida
Reg. No. PE 63860

Registered Special
Inspector/Threshold
Buildings
State of Florida
Reg. No. 7027309

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers

American Institute of Steel
Construction

American Concrete Institute

RELEVANT PROJECT EXPERIENCE

Seawall Assessment and Restoration, Aventura, Florida-Principal-in-Charge. MUEngineers, Inc. was involved in the restoration for four sections of seawalls located along canals in the City of Aventura. Our office performed visual observations of the seawalls from both the land and the water equaling a total of 5.2 miles of canal. Structural assessment of the current conditions of the existing piles, seawall panels and seawall caps were obtained, analyzed and a written report of our findings was prepared.

Norwood-Oeffler Water Treatment Plant, Miami Gardens, Florida-Principal-in-Charge. MUEngineers was part of the team tasked to do architectural and engineering services for the City of North Miami Beach, Norwood-Oeffler Water Treatment Plant. MUEngineers, Inc.'s responsibility included: structural design of a new slab on grade and new parapets and vertical parapet extensions, in the electrical room; structural design of infill for existing wall openings and a new roof above the electrical room. We also provided wind pressures for new windows, doors, and roofing.

Torry Island Seawall & Walkway, Belle Glade, Florida - Principal in Charge – MUE's role on this project was to structurally design a new 800ft long new bulkhead/seawall structure and concrete boardwalk structure. Additionally, MUE engineered foundations and anchor points to secure floating dock structures designed by another company.

Senior Activity Center, Pompano Beach, Florida- Principal in Charge -A member of the team for the City of Pompano Beach for the structural design and engineering related to a new one-story senior activity community center.

Haulover Park-Seawall Repair, Miami, Florida Principal in Charge – MUE provided structural engineering services related to the repair procedure and scope for a failed stretch of seawall in Haulover Park.

Water Main Pipe Crossing, Hillsboro Canal, Florida-Principal in Charge. MUE provided the structural design of steel framing and foundations for a 90ft span pipe canal crossing and a new pipe bridge utilizing precast concrete pile supports.

Light Pole Improvements, Various Broward County, Florida-Principal in Charge. We provided assessments on the structural integrity of twelve existing light poles and their base connections, as well as the structural design of foundations for seven new light poles with camera mountings attached.

North Dixie Highway-Streetscaping, Wilton Manors, Florida-Principal in Charge. MUE was a member of the team for the City of Wilton Manors street improvement RFP, as a sub-consultant. Our role as structural engineers was the design of standard light pole foundations and standard entry sign foundations for improvements along North Dixie Highway in Wilton Manors.

ADDITIONAL RELEVANT EXPERIENCE

- Pompano Water Treatment Facility, Pompano Beach, Florida
- City of Coral Springs Westside Maintenance Facility, Coral Springs, Florida
- City of Pompano Beach Control Room, Pompano Beach, Florida
- City of Pompano Air Park Storage Building, Pompano Beach, Florida
- CTS Engines, Storage/Maintenance Room, Fort Lauderdale, Florida



Ricardo Madriz, P.E., LEED AP
Engineering Manager/Project Manager

BENEFITS FOR THE CITY OF POMPANO BEACH

- 15+ years in professional practice
- Previous working experience with various municipalities in Florida including: Broward County, City of Coral Springs, and City of Boca Raton
- LEED Certified

PROFESSIONAL EXPERIENCE

Mr. Madriz is the Engineering Manager for MUEngineers, Inc. and bringing more than fifteen years of structural engineering practice and skill to the table.

He is incredibly knowledgeable in building structures and analysis, the latest software, and current building codes and industry standards.

Ricardo Madriz has experience in the structural design of educational facilities, municipal, facilities, high-rise buildings, building restoration, residential buildings, water related structures, office buildings and parking garages.

EDUCATION

Master of Engineering:
McGill University, 2004

Bachelor of Civil Engineering
McGill University, 2002

REGISTRATION

Registered Engineer
State of Florida
Reg. No. PE 68444

RELEVANT PROJECT EXPERIENCE

Pompano Beach Control Room, Pompano Beach, Florida-Project Manager – MUEngineers, Inc. was involved in the structural design related to the new light gauge wall and ceiling framing for the interior renovations of the control room for the water treatment facility.

Pompano Beach Water Treatment Plant, Pompano Beach, Florida – Project Manager - MUEngineers, Inc. structurally designed modifications made to the exterior building and window replacement

Pompano Beach Airpark Admin Building & Control Tower, Pompano Beach, Florida- Project Manager. Our involvement on this project included interior and exterior renovations and modifications to the administration building and the control tower for the airpark.

Senior Activity Center, Pompano Beach, Florida-Project Manager-A member of the team for the City of Pompano Beach for the structural design and engineering related to a new one-story senior activity community center.

South Florida Water Management District, Southwest Ranches, Florida- Project Manager - MUEngineers, Inc. provided professional engineering services for the design of a one story, 3,000sf maintenance building, a 1,050sf covered parking area and a dumpster enclosure for the South Broward Drainage District.

Sunny Lakes Observation Deck, Davie, Florida-Project Manager. MUEngineers, Inc. was involved in the renovation and replacement of a wood observation deck and walkway in the park. MUE provided details and engineering for girders to wood piles, wood joists and connections and post bracing details.

Coral Springs Westside Maintenance Facility, Coral Springs, FL-Project Manager. Our office is a member of the team for this RFQ as a sub-consultant. We are providing structural consultant engineering for the renovation, redesign and repurposing of the Westside Maintenance Facility, Fire Training Academy and Police Firing Range for the City of Coral Springs.

Pedestrian Bridge, All Aboard Train Station, Miami, Florida-Project Manager. MUEngineers, Inc. was involved in the structural evaluation and design of a precast and steel pedestrian bridge to connect the All-Aboard train station to the existing station. We designed the bridge structure and foundation system, all gravity and lateral loads and provided structural construction documents and calculations.

ADDITIONAL RELEVANT EXPERIENCE

- Kelsey Park, Restroom Facility Building, City of Lake Park, Florida
- CTS Engines, Storage/Maintenance Room, Fort Lauderdale, Florida
- Double Eagle Distributors Warehouse, Deerfield Beach, Florida

PANGEO

CONSULTANTS

RESPONSIVE. INNOVATIVE. COST EFFECTIVE

Years of Experience:

- 16

Education:

- Louisiana State University-Baton Rouge
- BS in Civil Engineering -2003

Registrations:

- Professional Engineer State of Florida #68448

Professional Memberships:

- FES - Florida Engineering Society- Broward Chapter Past President
- ASCE

Awards:

- Outstanding Technical Achievement by the Florida Engineering Society Broward Chapter 2014

PAUL C. CATLEDGE, P.E. PRINCIPAL

Mr. Catledge is a graduate of Louisiana State University with a B.S. in Civil Engineering, with over sixteen (16) years of engineering experience including geotechnical analysis, design and inspection of deep and shallow foundation systems, and structural design. Mr. Catledge also has eleven (11) years of experience overseeing and performing construction materials testing and structural inspections. He is registered in multiple states including Florida, New York, Indiana, Texas, Kentucky, Michigan and Louisiana. He is a member of ASCE and a past President of the Broward Chapter of the Florida Engineering Society.

The following is a partial listing of his project experience.

RELATED EXPERIENCE

Miami-Dade County Airports - Runway, Taxiway and Apron Rehabilitation, Miami-Dade County

Performed geotechnical sampling and studies at Miami International Airport, Opa Locka Airport, Tamiami Airport, Homestead Airport, and Dade Collier Airport in order to evaluate pavement condition as well as recommend repairs and/or pavement design for reconstruction of damaged structures. Included coordination of activities with airport staff for runway closures, determining necessary laboratory testing, analysis and design.

Miami Children's Hospital Campus Expansion, Miami, FL

Conducted soil exploration, testing and geotechnical design for the expansion of the Miami Children's Main Campus. Projects included a new central energy plant, new 7 story parking garage, new emergency room department and new bed tower. Design elements and scope were ordered to minimize disturbance to the hospital activities. Designed and inspected elements include 18-inch diameter auger cast piles and jet grout soil improvement. Materials testing and inspections during construction were also part of the scope.

Broward College Parking Garage, Davie, FL

Performed the site analysis and geotechnical design for the pile supported 6 story parking garage as well overseeing the pile load test, testing and inspections during construction.

Floating Docks at Key West Bight, Key West, FL

Performed barge based borings, analysis and design for the construction of a 164 ft long floating dock system with 35 ft extensions along Trumbo Road in Key West. Piles were HSS 18 and 20 x 0.5 inch steel pipe. Lateral, uplift, and compressive capacities were analyzed.



RESPONSIVE. INNOVATIVE. COST EFFECTIVE

42nd St. Bridge, Miami, FL

Conducted a geotechnical exploration and evaluation for the design and construction of the 42nd St. Bridge in Miami, Florida. Performed foundation analyses for the proposed bridge that included compression, tension, and lateral load capacity predictions of square driven precast prestressed concrete pile foundations, as well as settlement estimates and pile installation criteria and addressed the potential impact of pile driving vibrations on the existing structures including utilities.

5th St. Marina

Designed square prestressed concrete piles for new docking facility for mega yachts on the Miami River. Lateral and uplift capacities were analyzed as well as monitoring of installation utilizing a Pile Driving Analyzer (PDA).

College Avenue Phase II Roadway Improvements, Davie, FL

Conducted geotechnical analysis for the reconstruction approximately ½ mile of College Ave in Davie, FL. Provided analyses included soil preparation recommendations as well as suitable layer thicknesses and relevant LBR values.

Highlands Drive Roadway Improvements, North Miami, FL

Performed the geotechnical analysis and design plans for the reconstruction of Highland Boulevard as a two-lane boulevard from Biscayne Boulevard south to interface with a new roundabout that is currently being designed at NE 137th Avenue.

South Florida Water Management District, S-125 Culvert Replacement, Weston, FL

The existing structure consists of a single barreled, 48-inch corrugated metal pipe culvert, approximately 40 feet in length. Project scope included foundation recommendations, falling head percolation testing and slope stability analyses.

LaDOTD Off System Bridge Program, Statewide

Project manager of Off System Bridge program, which included slab span bridges statewide. Responsibilities included performing geotechnical studies and analyses for design of driven pile foundations, including compression and lateral capacities.

Interstate 10 Expansion Drilled Shafts, Lafayette, LA

As an employee of the Louisiana Department of Transportation and Development (LaDOTD) monitored the installation of four, 60-inch diameter drilled shafts as part of Interstate 10 widening through Lafayette, La.

I-10 Crossover, Slidell, LA

Designed the alignment of a temporary crossover bridge for Interstate 10 over Lake Pontchartrain after Hurricane Katrina. Portions of I-10 were washed out by the storm surge and traffic was rerouted to the least affected section in order to perform emergency repairs.

I-75 Express Lane Segment D, Miramar, FL

Determined scope of work and subsequent geotechnical analyses for the new roadway section to be located in the median of Interstate 75.



4341 S.W. 62nd Avenue, Davie, Florida 33314
T: (954) 585-0997 • F: (954) 585-3927 • www.stonersurveyors.com

James D. Stoner, P.S.M.
President

Professional Profile

Mr. Stoner is a second generation Land Surveyor, with over forty years of surveying experience in South Florida. He began his surveying career at Williams, Hatfield, & Stoner, Inc. working from the bottom as a Rodman, all the way up to Vice President of the Surveying Department.

Mr. Stoner founded Stoner & Associates, Inc. in 1988, based on the philosophy that attention to detail and quality work would create a successful firm. He manages all aspects of the firm's growth and development.

Mr. Stoner has supervised both small and large scale surveying projects. His firm has successfully completed numerous roadway and other various projects, while working directly with the clients and consultants.



Education

Associates of Science in Land Surveying
Palm Beach Community College in 1979

Professional Registrations

State of Florida Professional Surveyor and Mapper
License Number LS4039

Professional Affiliations

Florida Surveying and Mapping Society
Florida Surveying and Mapping Society – Broward Chapter
American Congress on Surveying and Mapping
Leadership Broward



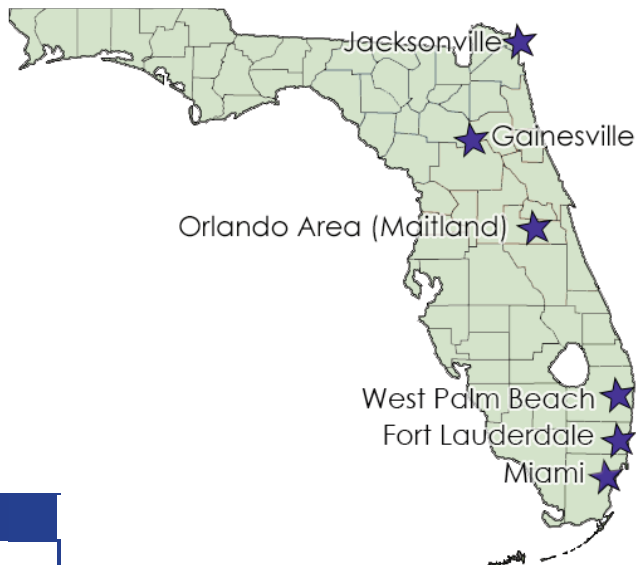
Section 10 - Office Locations



OFFICE LOCATIONS

Chen Moore and Associates has its corporate headquarters in Fort Lauderdale, with additional branch offices in Miami; West Palm Beach; Orlando; and Gainesville. Our office address is:

500 West Cypress Creek Road, Suite 630
 Fort Lauderdale, FL 33309
 Telephone: +1 (954) 730-0707
 Fax: +1 (954) 730-2030



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.

Prime Office Location	
Professional Staff	23
Administrative Staff	8

Subconsultants	
The Chappell Group, Inc. Environmental 714 East McNab Road Pompano Beach, FL 33060	Professional Staff: 7 Administrative Staff: 0
Stoner and Associates, Inc. Survey 4341 SW 62nd Avenue Davie, FL 33314	Professional Staff: 12 Administrative Staff: 1
C&W Engineering Electrical 2775 Vista Parkway, G-6 West Palm Beach, FL 33411	Professional Staff: 3 Administrative Staff: 1
Pan Geo Consultants, LLC Geotechnical 8464 W SR 84 Davie, FL 33324	Professional Staff: 2 Administrative Staff: 0
MUEngineers Inc. Structural Engineering 3440 NE 12th Avenue Oakland Park, FL 33334	Professional Staff: 13 Administrative Staff: 1
Cummins Cederberg 901 Progresso Drive Suite 205 Fort Lauderdale, FL 33304	Professional Staff: 1 Administrative Staff: 4

Office Locations

Section 11 - Local Businesses



LOCAL BUSINESSES

LOCAL BUSINESS EXHIBIT "A"
 CITY OF POMPANO BEACH, FLORIDA
 LOCAL BUSINESS PARTICIPATION FORM

Solicitation Number & Title: CONTINUING CONTRACT FOR CIVIL ENGINEERING SERVICES FOR Prime Contractor's Name: Chen Moore and Associates
VARIOUS CITY PROJECTS E-20-20

Name of Firm, Address	Contact Person, Telephone Number	Type of Work to be Performed/Material to be Purchased	Contract Amount or %
The Chappell Group, Inc. 714 East McNab Road Pompano Beach FL 33060	Tyler Chappell 954-782-1908	Environmental	5%

LOCAL BUSINESS EXHIBIT "A"

LOCAL BUSINESS EXHIBIT "B"
LOCAL BUSINESS
LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR

Solicitation Number E-20-20

TO: Chen Moore and Associates
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

 an individual

 X a corporation

 a partnership

 a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

environmental services such as threatened and endangered species surveys,
wetland assessments, wetland mitigation & design, etc.

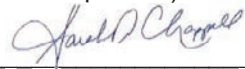
at the following price: _____

7/17/2020
(Date)

The Chappell Group, Inc.
(Print Name of Local Business Contractor)

714 E McNab Rd
(Street Address)

Pompano Beach, FL 33060
(City, State Zip Code)

BY: 
(Signature)

IMPORTANT NOTE: Signatures on this form MUST be by an authorized employee of Subcontractor and must be uploaded to the Response Attachment Tab

LOCAL BUSINESS EXHIBIT "B"

**State of Florida
Department of State**

I certify from the records of this office that THE CHAPPELL GROUP, INC. is a corporation organized under the laws of the State of Florida, filed on April 14, 2005.

The document number of this corporation is P05000055901.

I further certify that said corporation has paid all fees due this office through December 31, 2020, that its most recent annual report/uniform business report was filed on February 26, 2020, and that its status is active.

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

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Twenty-sixth day of February, 2020



Randy Abee
Secretary of State

Tracking Number: 2933653483CC
To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.
<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>



July 19, 2019

Ms. Sarah Chappell
THE CHAPPELL GROUP, INC.
714 East McNab Road
Pompano Beach, Florida 33060

ANNIVERSARY DATE – Annually, on August 31st

Dear Ms. Chappell:

Broward County is pleased to announce The Chappell Group, Inc. has renewed its certification as a Disadvantaged Business Enterprise (DBE) in Florida, under a Unified Certification Program (UCP) in accordance with 49 CFR, PART 26.

DBE certification continues from your anniversary date, but is contingent upon The Chappell Group, Inc. renewing its eligibility annually through this office, Office of Economic and Small Business Development (OESBD). OESBD will notify you in advance of your obligation to provide continuing eligibility documents; however, ensuring continued certification is your responsibility. Failure to continue your eligibility will result in immediate action to decertify The Chappell Group, Inc. as a DBE.

As long as The Chappell Group, Inc. is listed in the DBE Directory, it is considered DBE Certified by all Florida UCP Members.

DBE Certification is subject to actions by governmental agencies impacting the disadvantaged status of The Chappell Group, Inc.

The Chappell Group, Inc. will be listed in Florida's UCP DBE Directory which can be accessed via the internet, at:

<https://dotbwa02.dot.state.fl.us/EqualOpportunityOfficeBusinessDirectory/CustomSearch>

DBE certification is NOT a guarantee of work, but enables The Chappell Group, Inc. to compete for, and perform, contract work on all USDOT Federal Aid (FAA, FTA and FHWA) projects in Florida as a DBE contractor, sub-contractor, consultant, and sub-consultant or material supplier.

Broward County Board of County Commissioners
Mark D. Rogien • Lamar P. Fisher • Boon Fort • Steve Gular • Dale V.C. Holmes • Nan F. Joss • Tim Ryan • Barbara Strubel • Michael Upton
www.broward.org/board



**CITY OF POMPANO BEACH
BUSINESS TAX RECEIPT
FISCAL YEAR: 2019 - 2020**

Business Tax Receipt Valid from: October 1, 2019 through September 30, 2020

4438919
CHAPPELL GROUP INC, THE
714 E MCNAB RD
POMPANO BEACH FL 33060

10/2/2019

THIS IS NOT A BILL

THIS IS YOUR BUSINESS TAX RECEIPT. PLEASE POST IN A CONSPICUOUS PLACE AT THE BUSINESS LOCATION.

BUSINESS OWNER: CHAPPELL GROUP INC, THE
BUSINESS LOCATION: 714 SE 15 ST POMPANO BEACH FL

RECEIPT NO: 20-00062283
CLASSIFICATION: CONSULTANT

NOTICE: A NEW APPLICATION MUST BE FILED IF THE BUSINESS NAME, OWNERSHIP OR ADDRESS IS CHANGED. THE ISSUANCE OF A BUSINESS TAX RECEIPT SHALL NOT BE DEEMED A WAIVER OF ANY PROVISION OF THE CITY CODE NOR SHALL THE ISSUANCE OF A BUSINESS TAX RECEIPT BE CONSTRUED TO BE A JUDGMENT OF THE CITY AS TO THE COMPETENCE OF THE APPLICANT TO TRANSACT BUSINESS. THIS DOCUMENT CANNOT BE ALTERED.

BUSINESS TAX RECEIPTS EXPIRE SEPTEMBER 30TH OF EACH YEAR

LOCAL BUSINESS EXHIBIT "C"

N/A

LOCAL BUSINESS
UNAVAILABILITY FORM

BID # _____

I, _____
(Name and Title)

of _____, certify that on the _____ day of _____, _____, I invited the following LOCAL BUSINESSES to bid work items to be performed in the City of Pompano Beach:

Business Name, Address	Work Items Sought	Form of Bid Sought (i.e., Unit Price, Materials/Labor, Labor Only, etc.)
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Said Local Businesses:

- ___ Did not bid in response to the invitation
- ___ Submitted a bid which was not the low responsible bid
- ___ Other: _____

Name and Title: _____

Date: _____

Note: Attach additional documents as available.

N/A

LOCAL BUSINESS EXHIBIT "D"
GOOD FAITH EFFORT REPORT
LOCAL BUSINESS PARTICIPATION

BID # _____

1. What portions of the contract have you identified as Local Business opportunities?

2. Did you provide adequate information to identified Local Businesses? Please comment on how you provided this information.

3. Did you send written notices to Local Businesses?

___ Yes ___ No

If yes, please include copy of the notice and the list of individuals who were forwarded copies of the notices.

4. Did you advertise in local publications?

___ Yes ___ No

If yes, please attach copies of the ads, including name and dates of publication.

5. What type of efforts did you make to assist Local Businesses in contracting with you ?

7. List the Local Businesses you will utilize and subcontract amount.

_____	\$ _____
_____	\$ _____
_____	\$ _____

8. Other comments: _____

LOCAL BUSINESS EXHIBIT "D" – Page 2

N/A

Section 12 - Litigation



LITIGATION

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 four cases, all of which arose out of the same project, and which are explained in the detailed litigation history 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) has not had 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. Each of the cases were settled out of court and the monetary amounts, if any, are part of the confidential settlements.

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 four 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 was a co-defendant in a personal injury suit with one count for negligence.

Brief Description: During a streetscaping project, the plaintiff alleged that he fell off his 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 / dismissed

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 and Associates

Date Filed: March 12, 2014

Type of Case: Civil

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

Brief Description: The complaint asserted 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: closed / dismissed

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 was included as a defendant. The case was dismissed as part of a confidential settlement.

Case No: 16-011970 CA-01

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

Date Filed: May 11, 2016

Type of Case: Civil

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

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: closed / dismissed

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

This action arose out of the same motorcycle accident that was the subject of 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 was brought by the driver of 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 was included as a defendant. This case was also dismissed as part of a confidential settlement.

Case No: 17-017197-CA-06

Case Name: Mary and Fred Magner v. Chen Moore and Associates, M. Vila, Metro Express, Sherita Condominium Association, and City of Miami Beach

Date Filed: 7/31/17

Type of Case: Civil

Claim or Cause of Action: CMA was a co-defendant in a trip and fall accident with one count of negligence and one count for loss of consortium.

Brief Description: The complaint asserts that, during a streetscaping project, the complainant fell while walking on a sidewalk at night.

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: closed / dismissed

Opposing Counsel: Kaplan & Freedman, P.A., jkaplan@kaplanfreedman.com, 305.274.7533

The complaint asserts that, after substantial completion of a streetscaping project, the plaintiff fell and injured themselves when stepping down off of a sidewalk curb adjacent to an ADA ramp while walking at night. The Plaintiff sued CMA, the City of Miami Beach, two contractors and the nearby condominium association. With respect to CMA, the Plaintiff alleged that CMA negligently designed the ADA ramp. However, the ramp was designed and constructed in accordance with FDOT standards and accepted by the City of Miami Beach. The cause of the accident appeared to be poor lighting caused by insufficient lighting on the exterior of the nearby condo and a tree that had overgrown and blocked a nearby street light. CMA had no responsibility for maintaining the landscaping or trimming the trees. Instead, the landscaping and tree trimming was the responsibility of the City of Miami Beach. This case was dismissed as part of a confidential settlement.

Disposition of Case: closed / dismissed



Section 13 - City Forms



CITY FORMS

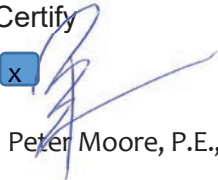
COMPLETE THE PROPOSER INFORMATION FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE THE FORM IN ITS ENTIRETY AND INCLUDE THE COMPLETED FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.

VENDOR CERTIFICATION REGARDING SCRUTINIZED COMPANIES LISTS

Respondent Vendor Name: E-20-20 CONTINUING CONTRACT FOR CIVIL ENGINEERING
SERVICES FOR VARIOUS CITY PROJECTS
Vendor FEIN: 59-2739866

Section 287.135, Florida Statutes, prohibits agencies from contracting with companies, for goods or services over \$1,000,000, that are on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List. Further, Section 215.4725, Florida Statutes, prohibits agencies from contracting (at any dollar amount) with companies on the Scrutinized Companies that Boycott Israel List, or with companies that are engaged in a boycott of Israel. As the person authorized to sign electronically on behalf of Respondent, I hereby certify by selecting the box below that the company responding to this solicitation is not listed on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List. I also certify that the company responding to this solicitation is not participating in a boycott of Israel, and is not engaged in business operations in Syria or Cuba. I understand that pursuant to sections 287.135 and 215.4725, Florida Statutes, the submission of a false certification may subject company to civil penalties, attorney's fees, and/or costs.

I Certify



Peter Moore, P.E., ENV SP, LEED AP President

Chen Moore and Associates

TIER 1/TIER 2 COMPLIANCE FORM

IN ORDER FOR YOUR FIRM TO COMPLY WITH THE CITY'S LOCAL BUSINESS PROGRAM AS A TIER 1 OR TIER 2 VENDOR, BIDDERS MUST COMPLETE THE INFORMATION BELOW AND UPLOAD THE FORM TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.

TIER 1 LOCAL VENDOR

My firm has maintained a permanent place of business within the city limits and maintains a staffing level, within this local office, of at least 10 % who are residents of the City of Pompano Beach.

And/Or

My firm has maintained a permanent place of business within the city limits and my submittal includes subcontracting commitments to Local Vendors Subcontractors for at least 10 % of the contract value.

Or

My firm does not qualify as a Tier 1 Vendor.

TIER 2 LOCAL VENDOR

My firm has maintained a permanent place of business within Broward County and maintains a staffing level, within this local office, of at least 15% who are residents of the City of Pompano Beach

And/Or

My firm has maintained a permanent place of business within Broward County and my submittal includes subcontracting commitments to Local Vendors Subcontractors for at least 20% of the contract value.

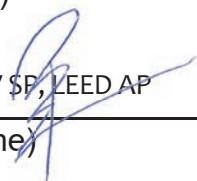
Or

My firm does not qualify as a Tier 2 Vendor.

I certify that the above information is true to the best of my knowledge.

July 30, 2020
(Date)

Chen Moore and Associates
(Name of Firm)

BY: Peter Moore, P.E., ENV SP, LEED AP
(Name) 

BIDDERS ARE TO COMPLETE FORM AND UPLOAD COMPLETED FORM TO THE EBID SYSTEM

EXHIBIT E

MINORITY BUSINESS ENTERPRISE PARTICIPATION

RLI # E-20-20

List all members of your team that are a certified Minority Business Enterprise (as defined by the State of Florida.) You must include copies of the MBE certificates for each firm listed with your electronic submittal.

Name of Firm	Certificate Included?
The Chappell Group, Inc.	Yes
Stoner and Associates, Inc.	Yes
MUEngineers Inc.	Yes
Cummins Cederberg	Yes



OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT
Governmental Center Annex
115 S. Andrews Avenue, Room A680 • Fort Lauderdale, Florida 33301
954-357-6400 • FAX 954-357-5674 • TTY 954-357-5664

August 29, 2017

Ms. Sarah Chappell
THE CHAPPELL GROUP, INC.
714 East McNab Road
Pompano Beach, Florida 33060

ANNIVERSARY DATE – Annually, on August 31st

Dear Ms. Chappell:

Broward County is pleased to announce The Chappell Group, Inc. has renewed its certification as a **Disadvantaged Business Enterprise (DBE)** in Florida, under a **Unified Certification Program (UCP)** in accordance with 49 CFR, PART 26.

DBE certification continues from your anniversary date, but is contingent upon The Chappell Group, Inc. renewing its eligibility annually through this office, Office of Economic and Small Business Development (OESBD). OESBD will notify you in advance of your obligation to provide continuing eligibility documents; however, assuring continued certification is your responsibility. Failure to continue your eligibility will result in immediate action to remove The Chappell Group, Inc. as a DBE.

As long as The Chappell Group, Inc. is listed in the DBE Directory, it is considered DBE Certified by all Florida UCP Members.

DBE Certification is subject to actions by governmental agencies impacting the disadvantaged status of The Chappell Group, Inc.

The Chappell Group, Inc. will be listed in Florida's **UCP DBE Directory** which can be accessed via the internet, at

<http://www3b.dot.state.fl.us/EqualOpportunityOfficeBusinessDirectory/>.

DBE certification is **NOT** a guarantee of work, but enables The Chappell Group, Inc. to compete for, and perform, contract work on all USDOT Federal Aid (FAA, FTA and FHWA) projects in Florida as a DBE contractor, sub-contractor, consultant, and sub-consultant or material supplier.

Broward County Board • Broward County Board of County Commissioners
Mark D. Sogin • Sean Fur • Steve Geller • Dale V.C. Helms • Chip Liddens • Ken R. Rich • Tim Ryan • Barbara Shustel • Michael Lubin
www.broward.org

Re: The Chappell Group, Inc.

August 29, 2017

If, at any time, there is a material change in The Chappell Group, Inc. including, but not limited to, ownership, officers, directors, scope of work being performed, daily operations, affiliations with other businesses or individuals or physical location of The Chappell Group, Inc., you must notify OESBD, in writing, without delay. Notification should include supporting documentation. You will receive acknowledgement and confirmation of continued eligibility, if applicable after notification of changes.

The Chappell Group, Inc. may compete for, and perform, work on all USDOT Federal Aid projects throughout Florida, receiving DBE credit for work performed in the following area:

- NAICS CODE: 541340 Drafting Services
- NAICS CODE: 541820 Environmental Consulting Services
- NAICS CODE: 541690 Other Scientific and Technical Consulting Services
- NAICS CODE: 541990 All Other Professional, Scientific, and Technical Services

Please feel free to contact OESBD for any questions or concerns pertaining to your DBE certification. Our telephone number is (954) 357-6400; our fax number is (954) 357-5674.

Sincerely,

Sandy-Michael McDonald, Director,
Office of Economic and Small Business Development

State of Florida

Woman Business Certification

The Chappell Group

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

10/28/2019 to 10/28/2021



Jonathan R. Satter, Secretary
Florida Department of Management Services



Office of Supplier Diversity
4650 Capriwood Way, Suite 280
Tallahassee, FL 32399
850-487-0915
www.dms.myflorida.com/od





Corporate Office

Fort Lauderdale
500 West Cypress Creek Road, Suite 630
Fort Lauderdale, FL 33309
Telephone: +1 (954) 730-0707

Regional Offices

Miami
2103 Coral Way, Suite 401
Miami, FL 33145
Telephone: +1 (786) 497-1500

West Palm Beach
500 Australian Ave. South, Suite 850
West Palm Beach, FL 33401
Telephone: +1 (561) 746-6900

Orlando (Maitland)
341 North Maitland Ave., Suite 346
Maitland, FL 32751
Telephone: (407) 536-7970

Project Offices

Gainesville
2233 Northwest 41st Street, Suite 400
Gainesville, FL 32606
Telephone: +1 (352) 374-1997

Tampa
401 East Jackson Street, Suite 2340
(SunTrust Financial Center)
Tampa, FL 33602
Telephone: +1 (813) 345-5965

Jacksonville
9424 Baymeadows Road, Suite 250
Jacksonville, FL 32256
Telephone: +1 (904) 712-1002

Exhibit B - Fee Schedule



2020 Labor Hourly Rate Schedule

<u>Labor Category</u>	<u>Hourly Rate</u>
Principal	\$360.00
Project Director	\$285.00
Senior Project Manager	\$210.00
Project Manager	\$200.00
Senior Engineer	\$165.00
Project Engineer	\$125.00
Associate Engineer	\$115.00
Engineer	\$100.00
Senior Landscape Architect	\$210.00
Project Landscape Architect	\$135.00
Associate Landscape Architect	\$95.00
Senior Designer	\$135.00
Designer	\$110.00
Senior Technician	\$90.00
Technician	\$80.00
Senior Construction Specialist	\$125.00
Construction Specialist	\$95.00
Clerical	\$65.00
Engineering Intern	\$55.00

EXHIBIT C

INSURANCE REQUIREMENTS

CONSULTANT shall not commence services under the terms of this Agreement until certification or proof of insurance detailing terms and provisions has been received and approved in writing by the CITY's Risk Manager. If you are responding to a bid and have questions regarding the insurance requirements hereunder, please contact the City's Purchasing Department at (954) 786-4098. If the contract has already been awarded, please direct any queries and proof of the requisite insurance coverage to City staff responsible for oversight of the subject project/contract.

CONSULTANT is responsible to deliver to the CITY for timely review and written approval/disapproval Certificates of Insurance which evidence that all insurance required hereunder is in full force and effect and which name on a primary basis, the CITY as an additional insured on all such coverage.

Throughout the term of this Agreement, CITY, by and through its Risk Manager, reserve the right to review, modify, reject or accept any insurance policies required by this Agreement, including limits, coverages or endorsements. CITY reserves the right, but not the obligation, to review and reject any insurer providing coverage because of poor financial condition or failure to operate legally.

Failure to maintain the required insurance shall be considered an event of default. The requirements herein, as well as CITY's review or acceptance of insurance maintained by CONSULTANT, are not intended to and shall not in any way limit or qualify the liabilities and obligations assumed by CONSULTANT under this Agreement.

Throughout the term of this Agreement, CONSULTANT and all subcontractors or other agents hereunder, shall, at their sole expense, maintain in full force and effect, the following insurance coverages and limits described herein, including endorsements.

A. Worker's Compensation Insurance covering all employees and providing benefits as required by Florida Statute, Chapter 440. CONSULTANT further agrees to be responsible for employment, control and conduct of its employees and for any injury sustained by such employees in the course of their employment.

B. Liability Insurance.

(1) Naming the City of Pompano Beach as an additional insured as CITY's interests may appear, on General Liability Insurance only, relative to claims which arise from CONSULTANT's negligent acts or omissions in connection with CONSULTANT's performance under this Agreement.

(2) Such Liability insurance shall include the following checked types of insurance and indicated minimum policy limits.

Type of Insurance**Limits of Liability****GENERAL LIABILITY:**

Minimum 1,000,000 Per Occurrence and
\$1,000,000 Per Aggregate

* Policy to be written on a claims incurred basis

XX	comprehensive form	bodily injury and property damage
XX	premises - operations	bodily injury and property damage
—	explosion & collapse hazard	
—	underground hazard	
XX	products/completed operations hazard	bodily injury and property damage combined
XX	contractual insurance	bodily injury and property damage combined
XX	broad form property damage	bodily injury and property damage combined
XX	independent contractors	personal injury
XX	personal injury	

AUTOMOBILE LIABILITY:

Minimum \$1,000,000 Per Occurrence and \$1,000,000 Per Aggregate. Bodily injury (each person) bodily injury (each accident), property damage, bodily injury and property damage combined.

- XX comprehensive form
- XX owned
- XX hired
- XX non-owned

REAL & PERSONAL PROPERTY

— comprehensive form Agent must show proof they have this coverage.

EXCESS LIABILITY

Per Occurrence Aggregate

XX	Umbrella and other than umbrella	bodily injury and property damage combined	\$2,000,000	\$2,000,000
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PROFESSIONAL LIABILITY

Per Occurrence Aggregate

XX	* Policy to be written on a claims made basis		\$2,000,000	\$2,000,000
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(3) If Professional Liability insurance is required, CONSULTANT agrees the indemnification and hold harmless provisions set forth in the Agreement shall survive the termination or expiration of the Agreement for a period of three (3) years unless terminated sooner by the applicable statute of limitations.

C. Employer's Liability. If required by law, CONSULTANT and all subcontractors shall, for the benefit of their employees, provide, carry, maintain and pay for Employer's Liability

Insurance in the minimum amount of One Hundred Thousand Dollars (\$100,000.00) per employee, Five Hundred Thousand Dollars (\$500,000) per aggregate.

D. Policies: Whenever, under the provisions of this Agreement, insurance is required of the CONSULTANT, the CONSULTANT shall promptly provide the following:

- (1) Certificates of Insurance evidencing the required coverage;
- (2) Names and addresses of companies providing coverage;
- (3) Effective and expiration dates of policies; and
- (4) A provision in all policies affording CITY thirty (30) days written notice by a carrier of any cancellation or material change in any policy.

E. Insurance Cancellation or Modification. Should any of the required insurance policies be canceled before the expiration date, or modified or substantially modified, the issuing company shall provide thirty (30) days written notice to the CITY.

F. Waiver of Subrogation. CONSULTANT hereby waives any and all right of subrogation against the CITY, its officers, employees and agents for each required policy. When required by the insurer, or should a policy condition not permit an insured to enter into a pre-loss agreement to waive subrogation without an endorsement, then CONSULTANT shall notify the insurer and request the policy be endorsed with a Waiver of Transfer of Rights of Recovery Against Others, or its equivalent. This Waiver of Subrogation requirement shall not apply to any policy which includes a condition to the policy not specifically prohibiting such an endorsement, or voids coverage should CONSULTANT enter into such an agreement on a pre-loss basis.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

03/11/2020

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 Lassiter-Ware Insurance of Tampa Bay 1300 N. Westshore Blvd. Suite 110 Tampa FL 33607		CONTACT NAME: Wendy Tyree PHONE (A/C, No, Ext): (800) 845-8437 FAX (A/C, No): (888) 883-8680 E-MAIL ADDRESS: wendyt@lassiterware.com	
		INSURER(S) AFFORDING COVERAGE	
		INSURER A: Crum & Forster Specialty Insurance Co	NAIC # 44520
		INSURER B: Old Dominion Insurance Co.	40231
		INSURER C:	
		INSURER D:	
		INSURER E:	
		INSURER F:	
INSURED Chen Moore & Associates, Inc. 500 W. Cypress Creek Road, Suite 630 Fort Lauderdale FL 33309			

COVERAGES

CERTIFICATE NUMBER: 20-21 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.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY	Y	Y	EPK129413	01/01/2020	01/01/2021	EACH OCCURRENCE	\$ 1,000,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 300,000
	<input checked="" type="checkbox"/> Contractors Pollution Liability						MED EXP (Any one person)	\$ 5,000
	GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:						PERSONAL & ADV INJURY	\$ 1,000,000
							GENERAL AGGREGATE	\$ 2,000,000
							PRODUCTS - COMP/OP AGG	\$ 2,000,000
								\$
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY	Y		B1T2667W	01/01/2020	01/01/2021	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000
	<input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY						BODILY INJURY (Per person)	\$
	<input checked="" type="checkbox"/> HIRED AUTOS ONLY						BODILY INJURY (Per accident)	\$
	<input type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	\$
							PIP-Basic	\$ 10,000
A	<input checked="" type="checkbox"/> UMBRELLA LIAB			EFX114215	01/01/2020	01/01/2021	EACH OCCURRENCE	\$ 5,000,000
	<input checked="" type="checkbox"/> EXCESS LIAB						AGGREGATE	\$ 5,000,000
	DED: RETENTION \$							\$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY						PER STATUTE	OTHE-R
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	Y / N	N / A				E.L. EACH ACCIDENT	\$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	\$
							E.L. DISEASE - POLICY LIMIT	\$
A	Professional Liability (Claims-Made) Limits included with General Liability			EPK129413	01/01/2020	01/01/2021	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)

The City of Pompano Beach is included as additional insured under the terms and conditions of the attached forms on the General Liability policy, when additional insured status is required by written contract. Blanket Waiver of Subrogation is included as part of the General Liability and Automobile Liability policies and apply when required by written contract, provided the contract is executed prior to any loss.

APPROVED

By Danielle Thorpe at 3:29 pm, Apr 15, 2020

CERTIFICATE HOLDER**CANCELLATION**

The City of Pompano Beach 1201 NE 3rd Avenue Pompano Beach FL 33060	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 
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© 1988-2015 ACORD CORPORATION. All rights reserved.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART
CONTRACTORS POLLUTION LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) or Organization(s)
Where Required By Written Contract.

SECTION III – WHO IS AN INSURED within the Common Provisions is amended to include as an additional insured the person(s) or organization(s) indicated in the Schedule shown above, but only with respect to liability caused, in whole or in part, by "your work" for that insured which is performed by you or by those acting on your behalf.

ALL OTHER TERMS AND CONDITIONS OF THE POLICY REMAIN UNCHANGED.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS –
COMPLETED OPERATIONS**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name of Additional Person(s) or Organization(s):	Location And Description Of Completed Operations
Where Required By Written Contract.	Where Required By Written Contract.
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

A. Section III – Who Is An Insured within the Common Provisions is amended to include as an insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for “bodily injury” or “property damage” caused, in whole or in part, by “your work” at the location designated and described in the schedule of this endorsement performed for that additional insured and included in the “products-completed operations hazard”.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**COMMERCIAL AUTOMOBILE ELITE ENDORSEMENT**

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM

With respect to coverage provided by this endorsement, the provisions of the Coverage Form apply unless modified by this endorsement.

1. BROAD FORM INSURED**A. Subsidiaries and Newly Acquired or Formed Organizations**

The Named Insured shown in the Declarations is amended to include:

- (1) Any legally incorporated subsidiary in which you own more than 50% of the voting stock on the effective date of the Coverage Form. However, the Named Insured does not include any subsidiary:
 - (a) That is an "insured" under any other automobile policy or
 - (b) That would be an "insured" under such a policy but for (i) its termination or (ii) the exhaustion of its Limit of Insurance.
- (2) Any organization that is acquired or formed by you and over which you maintain majority ownership. However, the Named Insured does not include any newly formed or acquired organization:
 - (a) That is a partnership, joint venture or limited liability company,
 - (b) That is an "insured" under any other policy,
 - (c) That has exhausted its Limit of Insurance under any other policy, or
 - (d) 180 days or more after its acquisition or formation by you, unless you have given us notice of the acquisition or formation.

Coverage does not apply to "bodily injury" or "property damage" that results from an "accident" that occurred before you formed or acquired the organization.

B. Employees as Insureds

Paragraph **A.1. - WHO IS AN INSURED – of SECTION II - LIABILITY COVERAGE** is amended to add:

Any "employee" of yours while using a covered "auto" you don't own, hire or borrow in your business or your personal affairs.

C. Lessors as Insureds

Paragraph **A.1 - WHO IS AN INSURED of SECTION II - LIABILITY COVERAGE** is amended to add:

- e. The lessor of a covered "auto" while the "auto" is leased to you under a written agreement if:
 - (1) The agreement requires you to provide direct primary insurance for the lessor and
 - (2) The "auto" is leased without a driver. Such a leased "auto" will be considered a covered "auto" you own and not a covered "auto" you hire.

2. ADDITIONAL INSURED BY CONTRACT, PERMIT OR AGREEMENT

The following is added to **A.1 WHO IS AN INSURED of SECTION II - LIABILITY COVERAGE**:

Any person or organization for whom you are required to name as an additional insured in a written contract or agreement that is executed or signed by you prior to a "bodily injury" or "property damage" occurrence is an "insured" for liability coverage, but only to the extent that person or organization qualifies as an "insured" under the **WHO IS AN INSURED** provision contained in **SECTION II** of the coverage form.

If specifically required by the written contract or agreement referenced in the paragraph above, any coverage provided by this endorsement to an additional insured shall be primary and any other valid and collectible insurance available to the additional insured shall be non-contributory with this insurance. If the written contract does not require this coverage to be primary and the additional insured's coverage to be non-contributory, then this insurance will be excess

over any other valid and collectible insurance available to the additional insured.

3. AUTOS RENTED BY EMPLOYEES

Any "auto" hired or rented by your "employee" on your behalf and at your direction will be considered an "auto" you hire.

The **OTHER INSURANCE** Condition is amended by adding the following:

If an "employee's" personal insurance also applies on an excess basis to a covered "auto" hired or rented by your "employee" on your behalf and at your direction, this insurance will be primary to the "employee's" personal insurance.

4. HIRED AUTO PHYSICAL DAMAGE COVERAGE

If hired "autos" are covered "autos" for Liability Coverage and if Comprehensive, Specified Causes of Loss, or Collision coverages are provided under this Coverage Form for any "auto" you own, then the Physical Damage Coverages provided are extended to "autos" you hire or borrow, subject to the following limit. The most we will pay for "loss" to any hired "auto" is:

- (1) \$50,000;
- (2) The actual cash value of the damaged or stolen property at the time of the "loss"; or
- (3) The cost of repairing or replacing the damaged or stolen property,

whichever is smallest, minus a deductible. The deductible will be equal to the largest deductible applicable to any owned "auto" for that coverage. No deductible applies to "loss" caused by fire or lightning. Hired Auto Physical Damage coverage is excess over any other collectible insurance. Subject to the above limit, deductible and excess provisions, we will provide coverage equal to the broadest coverage applicable to any covered "auto" you own.

We will also cover loss of use of the hired "auto" if it results from an "accident", you are legally liable and the lessor incurs an actual financial loss, subject to a maximum of \$1,000 per "accident".

This extension of coverage does not apply to any "auto" you hire or borrow from any of your "employees", partners (if you are a partnership), members (if you are a limited liability company), or members of their households.

5. PHYSICAL DAMAGE – ADDITIONAL TEMPORARY TRANSPORTATION EXPENSE COVERAGE

Paragraph A.4.a. of SECTION III – PHYSICAL DAMAGE COVERAGE is amended to provide a limit of \$75 per day and a maximum limit of \$2,250.

6. EXTRA EXPENSE – BROADENED COVERAGE

Under paragraph A. of SECTION III – PHYSICAL DAMAGE COVERAGE, the following Coverage is added:

We will pay for the expense of returning a stolen covered "auto" to you subject to Paragraph C. **Limit of Insurance.**

7. LEASE GAP COVERAGE

Under SECTION III - PHYSICAL DAMAGE COVERAGE, if a long-term leased "auto" is a covered "auto" and the lessor is named as an Additional Insured - Lessor, we will pay in the event of a total "loss" your additional legal obligation to the lessor for any difference between the actual cash value of the "auto" at the time of the "loss" and the "outstanding balance" of the lease.

"Outstanding balance" means the amount you owe on the lease at the time of "loss" less any amounts representing taxes; overdue payments; penalties, interest or charges resulting from overdue payments; additional mileage charges; excess wear and tear charges; lease termination fees.

8. AIRBAG COVERAGE

Under Paragraph B. Exclusions of SECTION III - PHYSICAL DAMAGE COVERAGE, the following is added:

The exclusion relating to mechanical breakdown does not apply to the accidental discharge of an air bag.

9. AMENDED DUTIES IN THE EVENT OF ACCIDENT, CLAIM, SUIT, OR LOSS

The requirement in 2.a of A. **Loss Conditions, 2. Duties in the Event Of Accident, Claim, Suit or Loss of SECTION IV – BUSINESS AUTO CONDITIONS** that you must notify us of an "accident" applies only when the "accident" is known to:

- (1) You, if you are an individual
- (2) A partner, if you are a partnership; or

- (3) A member, if you are a limited liability company; or
- (4) An executive officer or insurance manager, if you are a corporation.

10. UNINTENTIONAL FAILURE TO DISCLOSE HAZARDS

If you unintentionally fail to disclose any hazards existing at the inception date of your policy, we will not deny coverage under this Coverage Form because of such failure.

11. WAIVER OF SUBROGATION

Transfer Of Rights Of Recovery Against Others To Us of SECTION IV – BUSINESS AUTO CONDITIONS is amended by adding the following:

We waive any right of recovery we may have against any person or organization to or for whom we make payment and with whom you have a written contract that requires such waiver because of payments we make for damages under this Coverage Form.

12. RESULTANT MENTAL ANGUISH COVERAGE

The definition of “bodily injury” in **SECTION V – DEFINITIONS** is replaced by the following:

“Bodily injury” means bodily injury, sickness, or disease sustained by any person, including mental anguish or death resulting from any of these.

13. NOTICE OF CANCELLATION TO THIRD PARTY

The following is added to **A.2., Cancellation of COMMON POLICY CONDITIONS**

If we initiate a cancellation or non-renewal for any reason, other than non-payment of premium, we will mail notice of cancellation to the person or organization scheduled on the policy as an additional insured 30 days before the effective date of cancellation. We will mail such notice to the address of the Additional Insured scheduled on the policy and in at least 30 days before the effective date of the cancellation or non-renewal.

If the Insured initiates the cancellation or in case of non-payment of premium, we will not mail advance notice but, a final cancellation notice will be sent to the person or organization scheduled on the policy as an additional insured. We will mail such notice to the additional insured address upon final cancellation of the policy.

14. Vehicle wrap coverage

Paragraph **A. Coverage of SECTION III – PHYSICAL DAMAGE COVERAGE** is amended to include the following additional paragraph:

Vehicle Wrap

In the event of a “loss” to a covered “auto”, we will provide the following coverage if such “loss” is caused by:

- A. Other than collision only if the Declarations indicates that comprehensive Coverage is provided for the covered “auto”;
- B. Specified Causes Of Loss only if the Declarations indicates that Specified Causes Of Loss Coverage is provided for the covered “auto”; or
- C. Collision only if the Declarations indicates that Collision Coverage is provided for the covered “auto”.

We will pay for “loss” to a “vehicle wrap” that is installed on the covered “auto”. The most we will pay for “loss” is \$5,000 per policy period.

We will not pay for “loss” due to and confined to wear and tear; or damage to paint or the vehicle caused by faulty installation of a “vehicle wrap”.

The “vehicle wrap” is subject to the Comprehensive deductible for the covered “auto”, except in the event of a “loss” to a covered “auto” for which such vehicle is involved in a collision and there is both:

- (1) Collision damage to the vehicle; and
- (2) Damage to the “vehicle wrap”

Then the collision deductible will apply.

If the “vehicle wrap” is damaged in a collision the lesser of replacement cost or original purchase cost of the “vehicle wrap” will apply.

SECTION V. DEFINITIONS is amended to include the following additional definition.

“Vehicle Wrap” means self-adhesive vinyl decals or sheets applied to the exterior body or window of a covered “auto”. Signs or other graphics painted or magnetically affixed to the vehicle are not considered vehicle wraps.

15. GARAGEKEEPERS

The most current version of endorsement CA 99 37 that is approved in your state is added to the policy on an Excess insurance basis with a maximum limit of \$10,000 and a \$500 deductible for each Customer's Auto for all perils. The limit is applicable on a blanket basis to all Insured owned locations.

16. ORIGINAL EQUIPMENT MANUFACTURER REPLACEMENT PARTS

SECTION III – PHYSICAL DAMAGE COVERAGE, C. Limits of Insurance, Paragraph 1. Is amended to include:

However, if the covered "auto" has less than 36,000 miles on its odometer, then the following condition will apply:

We will pay the cost to replace the damaged parts (excluding glass and mechanical parts) with new Original Equipment Manufacturer replacement parts if the damaged parts cannot be repaired.

17. FIRE DEPARTMENT SERVICE CHARGE

Paragraph A.4. Coverage Extensions of **SECTION III – PHYSICAL DAMAGE COVERAGE** is amended by adding the following:

c. Fire Department Service Charge

When a fire department is called to save or protect a covered "auto", its equipment, its contents, or occupants from a covered cause of loss, we will pay up to \$1,500 for your liability for fire department service charges:

- (1) Assumed by contract or agreement prior to loss; or
- (2) Required by local ordinance

No deductible applies to this additional coverage.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

3/11/2020

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 Libertate Insurance Services, LLC 20 N. Orange Avenue, Suite 500 Orlando, FL 32801 www.libertateins.com	CONTACT NAME: Engage PEO Certificate of Insurance Dept. PHONE (A/C, No. Ext): 727-565-2950 FAX (A/C, No): 727-214-9088 E-MAIL ADDRESS: wc@engagepeo.com
	INSURER(S) AFFORDING COVERAGE
INSURED The S2 HR Group, LLC dba Engage PEO (A PEO) Chen Moore & Associates, Inc. (A client of PEO) 3001 Executive Drive, Suite 340 St. Petersburg FL 33762	INSURER A: Illinois National Insurance Co. NAIC # 23817 INSURER B: INSURER C: INSURER D: INSURER E: INSURER F:

COVERAGES

CERTIFICATE NUMBER: 54552453

REVISION NUMBER:

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		N/A	WC014559391 (FL)	1/1/2020	1/1/2021	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE - EA EMPLOYEE \$1,000,000 E.L. DISEASE - POLICY LIMIT \$1,000,000

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

Coverage is provided to the leased employees of, but not the subcontractors of, The S2 HR Group, LLC dba Engage PEO (A PEO) Chen Moore & Associates, Inc. (A client of PEO)

APPROVED

By Danielle Thorpe at 3:26 pm, Apr 15, 2020

CERTIFICATE HOLDER
 191083
 City of Pompano Beach
 1201 NE 3rd Avenue
 Pompano Beach FL 33060
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

Paul R. Hughes

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ACORD 25 (2016/03)

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