## CITY OF POMPANO BEACH, FLORIDA

## PROFESSIONAL CONSULTING AGREEMENT

with

CRAIG A. SMITH & 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 Craig A. Smith 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 Stephen C. Smith

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. <u>Price Formula</u>. 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. <u>Final Invoice</u>. In order for both parties herein to close their books and records, the Consultant will clearly state "<u>Final Invoice</u>" 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 off 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:**

Stephen C. Smith, PE, President Craig A. Smith and Associates, Inc. 21045 Commercial Trail Boca Raton, Fl 33486

## **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"

	Craig A. Smith and Associates, Inc.
Witnesses:	
EM2x feld Signature	By: Stephen C. Smith, President
Name Typed, Printed or Stamped	
Ju Duscotto Signature	
Jim Discoll Name Type, Printed or Stamped	
STATE OF FLORIDA COUNTY OF Palm Beach	
as President of Craig A. Smith and Association. He is personally	wledged before me, by means of physical presence f
NOTARY'S SEAL:	NOTARY PUBLIC, STATE OF FLORIDA
Notary Public State of Florida Andrea Cole My Commission GG 353948 Expires 07/11/2023	(Name of Acknowledger Typed, Printed or Stamped)  GG 353948  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: <a href="https://pompanobeachfl.ionwave.net">https://pompanobeachfl.ionwave.net</a>. 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: <u>Adopted</u>
   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. <u>Term of Contract</u>

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<sup>™</sup>, 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<sup>™</sup> 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<sup>™</sup> 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.
- Lead and Sub-Consultants shall conduct project controls outlined by the Owner, Project Manager, and/or Construction Manager, utilizing e-Builder Enterprise<sup>™</sup>. 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. <u>Local Business Program</u>

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: <a href="www.pompanobeachfl.gov">www.pompanobeachfl.gov</a> 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, subconsultants, 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 <u>must</u> 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 <u>all subcontractors or other</u> <u>agents hereunder</u>, 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.

Туре	e of Insurance		Limits of Liab	ility
GEN	ERAL LIABILITY:	Minimum \$1,000,000 Per Occurrence and \$2,000,000 Per Aggregate		ce and
* Pol XX <b>XX</b> —	licy to be written on a claims inc comprehensive form premises - operations explosion & collapse hazard		operty damage	e
$\overline{XX}$	underground hazard products/completed operations hazard	bodily injury and pr	operty damage c	combined
XX XX XX XX	contractual insurance broad form property damage independent contractors personal injury	bodily injury and probodily injury and propersional injury		
	sexual abuse/molestation	Minimum \$1,000,00	00 Per Occurrend	ce and Aggregate
	liquor legal liability	Minimum \$1,000,00	00 Per Occurrend	ce and Aggregate
XX XX XX XX	comprehensive form owned hired non-owned	Minimum \$1,000,000 Bodily injury (each po Property damage, bo combined.	erson) bodily inju	ıry (each accident),
REA	L & PERSONAL PROPERTY			
	comprehensive form	Agent must show proof they have this coverage.		nis coverage.
EXC	ESS LIABILITY		Per Occurrence	e Aggregate
_	other than umbrella	bodily injury and property damage combined	\$1,000,000	\$1,000,000
PRO	FESSIONAL LIABILITY		Per Occurrence	e Aggregate
XX	* Policy to be written on a clair	ns 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 th	e applicable statute of limitations.	\	
СҮВ	ER LIABILITY	Per Occurrenc	ce 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 I Technology Products E&O - \$1,000,000 (only applied related services and or products) Coverage shall be maintained in effect during the perthan four (4) years after termination/ completion of the second services.	cable for vendorseriod of the Agre	s supplying technology

- 3. <u>Employer's Liability</u>. 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. <u>Policies</u>: 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. <u>Insurance Cancellation or Modification</u>. 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. <u>Waiver of Subrogation</u>. 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 1	Criteria  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)	Point Range 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	0-15
	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	
5	Demonstrated Prior Ability to Complete Project on Time	0-15
	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.	
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.

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.)

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

#### NOTE:

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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 <u>not</u> required by the City, may be subject to public disclosure.

<u>Value of Work Previously Awarded to Firm (Tie-breaker)</u> - 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 gualified 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.

<u>Value of Work Previously Awarded to Firm (Tie-breaker)</u> - 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. <u>Communications</u>

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. <u>Independent Contractor</u>

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. <u>Termination</u>

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. <u>Acceptance Period</u>

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 Provisions

## 1. 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. <u>Drug Free Workplace</u>

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. 3<sup>rd</sup> 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

,		
(nur	nber)	(Title)
To: The City of Pompano Beach,	Florida	
stated subject to all instructions, to and conditions contained in the s including the specifications, and fu	erms, con solicitatio illy under by the Ci	es to furnish the proposed services under the terms nditions, specifications, addenda, legal advertisement, n. I have read the solicitation and all attachments, estand what is required. By submitting this proposal, I ity and such acceptance covers all terms, conditions,
Proposal submitted by:		
Name (printed)		Title
Company (Legal Registered)		
Federal Tax Identification Number		
Address		
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 NUMB	ER		
PRIME		Federal I.D.#	
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 Individua to the Project	l Assigned
Surveying			
		_	
Landscaping			
Engineering		_	
Other Key Member		_	
Oth and Kara Manakan			
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 ENTIRITY 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**



#### City of Pompano Beach, Purchasing Division 1190 N.E. 3rd Avenue, Building C Pompano Beach, Florida, 33060

#### CITY OF POMPANO BEACH CONTRACTOR PERFORMANCE REPORT

1. Report Period: from	to	_
2. Contract Period: from	to	_
3. Bid# & or P.O.#:		_
4. Contractor Name:		_
5. City Department:		_
6. Project Manager:		_
7. Scope of Work (Service Deliverables):		_

#### **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	
<ul><li>5. Cost Control</li><li>- Monitoring subcontractors</li><li>- Change-orders</li><li>- Meeting budget</li></ul>	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.* 

Yould you select/recommend this contractor	again? Yes No	
lease attach any supporting documents to th	is report to substantiate the ratings that hav	e been provid
Ratings completed by (print name)	Ratings completed by signature	Date
Department Head (print name)	Department Head Signature	Date
Vendor Representative (print name)	Contractor Representative Signature	Date

## City of Pompano Beach Florida Local Business Subcontractor Utilization Report

	Local Busili	ess subcontractor offization	Report			
Project Name (1)			Contract Number and Work Order Number (if applicable) (2)		applicable) (2)	
Report Number (3)		Reporting Period (4)	Local Business Contract Goal (5)		Estimated Contract Completion Date (6)	
Contractor Name (7)			Contractor Telephone Number (8)		Contractor Email Address (9)	
Contractor Street Add	lress (10)	Project Manager Name (11)	Project Manager Tele	phone 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 A	II I coal Business Sub	contractors (64) \$	0.00
I certify that the	above information is true to		Total Palu to Date for A	II LOCAI DUSITIESS SUD	CONTRACTORS (21) \$	0.00
	uthorized 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.

## REQUESTED INFORMATION BELOW IS ON LOCAL BUSINESS PROGRAM FORM ON THE BID ATTACHMENTS TAB. BIDDERS ARE TO COMPLETE FORM IN ITS ENTIRITY AND INCLUDE COMPLETED FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.

### CITY OF POMPANO BEACH, FLORIDA LOCAL BUSINESS PARTICIPATION FORM

Solicitation # & Title:	<del></del>	Prime Contractor's Name:				
Name of Firm Address	Contact Person,					
Name of Firm, Address	<u>Telephone Number</u>	<u>Purchased</u>	Contract Amount			

**LOCAL BUSINESS EXHIBIT "A** 

## LOCAL BUSINESS EXHIBIT "B" LOCAL BUSINESS LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR

	Solicitation Number
TO:	
TO: (Name of Prime or Gen	eral Bidder)
	pano Beach business intends to perform subcontracting bove contract as (check below)
an individual	a corporation
a partnership	a joint venture
The undersigned is prepared Contract, as hereafter describ	to perform the following work in connection with the above ped in detail:
at the following price:	
at the fellowing price.	
(Date)	(Print Name of Local Business Contractor)
	(Street Address)
	(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"** 

#### LOCAL BUSINESS EXHIBIT "C" LOCAL BUSINESS UNAVAILABILITY FORM

	Solicitation #	-
I,		
(Name and Title)		
	, certify that on the	
(Month) (Year), I	invited the following LOCAL BUSINES:	S(s) to bid work
items to be performed in the	e 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	n
	Submitted a bid which was not the low	v responsible bid
	Other:	
	Name and Title:	
	Date:	
Note: Attach additional doc	cuments as available.	

LOCAL BUSINESS EXHIBIT "C"

### <u>LOCAL BUSINESS EXHIBIT "D"</u> 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. Other comments: 8.

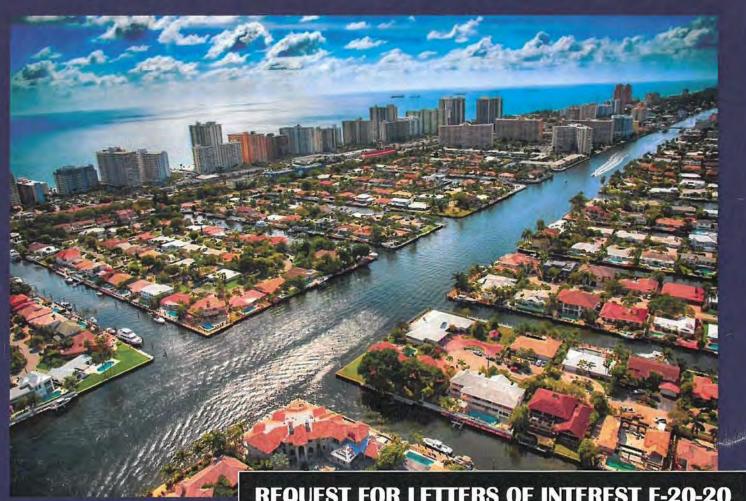
LOCAL BUSINESS EXHIBIT "D" - Page 2

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_	 	 	 
_	 	 	 

LOCAL BUSINESS EXHIBIT "D"

## CITY OF POMPANO BEACH

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



**REQUEST FOR LETTERS OF INTEREST E-20-20** 

July 30, 2020

ssmith@craigasmith.com



(954) 782-8222

www.craigasmith.com

Local Office: 277 Goolsby Blvd. #4C Deerfield Beach, FL 33442

**Corporate Office: 21045 Commercial Trail** Boca Raton, FL 33486



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## SECTION 1 LETTER OF TRANSMITTAL





#### **CRAIG A. SMITH & ASSOCIATES**

21045 Commercial Trail · Boca Raton, FL 33486

CONSULTING ENGINEERS · SURVEYORS · UTILITY LOCATORS

www.cralgasmith.com

July 30, 2020

City of Pompano Beach Purchasing Office 1190 N.E. 3<sup>rd</sup> Avenue, Building C Pompano Beach, FL 33060

RE: RLI No. E-20-20

CONTINUING CONTRACT FOR CIVIL ENGINEERING SERVICES FOR VARIOUS CITY PROJECTS

CAS PROPOSAL NO. 3998

Dear Selection Committee:

For your consideration, Craig A. Smith & Associates, Inc. (CAS) is pleased to submit this proposal in response to your Request for Letters of Interest for the Continuing Contract for Civil Engineering Services for Various City Projects.

#### **Executive Summary**

CAS is a 40-year established Civil/Utility Engineering, Utility Locating, Surveying, and Construction Management firm headquartered in Pompano Beach for 25 years prior to relocating to its current location in Boca Raton, Palm Beach County, Florida. CAS retains a Broward County office location in Deerfield Beach which includes a 15% full-time local resident staff (residing in Pompano Beach) to serve the City's interests and thus satisfying the tier 2 local vendor requirements. CAS overall has 40+ dedicated staff members consisting of registered professional engineers, registered professional surveyors, GIS specialists and the balance of staff, including technical CADD drafting personnel, certified field inspectors, utility locators, as well as exceptional administrative, clerical and accounting personnel, to provide the City with the expertise required to perform duties requested for engineering services, including survey, utility locates, design, engineering reports, utility modelling, permitting, bidding assistance, construction management through project close-out, grant preparation/administration and any other consulting engineering services as needed to assist the City in completing projects under their Capital Improvement Plan. CAS understands the scope of work requested by the City and has extensive experience in performing such duties. CAS specializes in serving South Florida municipal governments and understands the needs of such communities. We are a client-oriented firm and our emphasis is on providing exemplar service. CAS is currently providing the City with continuing professional engineering services on a work authorization basis and commits to continue to provide our technical, professional, and financial resources to the City for the duration of this contract.

#### **Understanding Scope of Work**

CAS has reviewed in detail the City Adopted Capital Improvement Plan (CIP) FY 2020-2024 and understands the scope of work. The Capital Improvement Plan supports capital projects that will decrease operating expenses by reducing costs associated with emergency repairs, maintenance of old systems, and energy inefficiency. The City has the following seven (7) funds to finance their CIP: General Capital, Renewal & Replacement, Stormwater, Airpark, Streets & Bridges, Parks & Recreation and Public Safety. The combined allocated budget for the five-year period is \$146,793,097 according to the plan. The type of capital improvement projects under the plan and this five-year contract include but are not limited to roadway, bridge rehabilitation, sidewalks, streetscape/landscape, park lots, water distribution, reuse water system, wastewater conveyance and collection system, lift/pump station rehabilitation, seawall and docks, stormwater/drainage system, water/wastewater and stormwater inspection and repairs, canal/lake dredging, grant funding assistance and park and recreational facility improvements. The CAS Team is experienced in the design and rehabilitation of numerous similar utility and infrastructure projects in the City and the in Tri-County area at large. We highly value the City of Pompano Beach as a client and look forward to continuing to serve the City with the utmost quality, cost effectiveness and expeditious service. CAS's extensive knowledge and project experience will continue to be a benefit the City of Pompano Beach. Please refer to Section 4 – References and Section 7 – Statement of Skills and Experience of Project Team.

#### General Approach & Methodology

We provide long term relationship-based engineering services to our clients. Our philosophy is to continue to work with City staff to provide the best possible services and solutions to complete projects cost-effectively and within the City's budget and schedule. CAS provides a team approach while making the City's staff an integral part of that team. The assigned improvement projects will be developed in the most cost-effective manner to achieve successful satisfactory results. The CAS philosophy utilizes a phased approach towards assisting the City in problem solving and for implementation of a cost

954.782.8222 — 561.314.4445 — PHONE — 561.314.4453 — 305.940.4661 561.314.4458 — FAX 561.314.4459 City of Pompano Beach July 30, 2020 Page 2 of 2

effective and timely project completion. Our general project approach incorporates four phases consisting of the following: PHASE I - PROJECT DEVELOPMENT & PLANNING, PHASE II - SURVEY & ENGINEERING DESIGN, PHASE III - FINAL ENGINEERING DESIGN & BIDDING, PHASE IV - CONSTRUCTION MANAGEMENT and PHASE V - TESTING START-UP & PROJECT CLOSEOUT. These phases are defined in detail in **Section 2 - Technical Approach**.

#### **Continuity of Staff**

Our internal company culture has created an environment for staff to excel and experience satisfaction. CAS is proud to state that the current average employee tenure is over 12 years. The City of Pompano Beach will have the advantage of knowing that our assigned staff will be there throughout the duration of these projects and beyond to offer continued knowledge as well as experience to serve the City's interests. Most Key CAS staff proposed for this contract are currently serving the City.

#### The CAS Team

Mr. Frank Vilar, P.E. will be the Project Manager/Production Team Leader for the duration of the contract. He can be reached at (954) 815 8898 or via email at fvilar@craigasmith.com. In addition to our CAS staff, the following five (5) subconsultants will provide the additional professional disciplines and support which will be necessary to fulfill the scope of work. The sub-consultants are as follows: Radise International, LLC. for geotechnical and material testing. Smith Engineering Consultants, Inc. for electrical engineering services, Bermello Ajamil & Partners, Inc. for landscape architecture, park/recreational facility improvements, public outreach and permitting support, MUEngineers, Inc. for structural engineering services and Shenandoah Construction Co., (a local City of Pompano Beach firm) for wastewater/stormwater system inspection, rehabilitation and pipeline repair services. CAS is a full-service engineering firm and shall provide many major services "in-house" such as, overall project coordination, survey, utility locating, utility engineering design, cost estimating, permitting, bidding assistance, utility coordination, construction management, and grant funding assistance, etc., thus allowing for a more cost-effective and efficient streamlined engineering process. The CAS Team is also knowledgeable in the latest state and local regulatory requirements related to sustainability, resiliency and sea-level rise affecting South Florida coastal communities. In addition, CAS always strives to provide "value-added" services to clients such as our proprietary 3D Radar Tomography scanning technology (Refer to Section 14 - Subsurface Utility Engineering). The CAS Team is composed of quality and experienced local South Florida firms, all retaining previous similar project experience in the City of Pompano Beach and/or the Tri-County area at large. Several firms on the CAS Team are currently working on or have successfully completed capital improvement projects for the City of Pompano Beach.

#### **Principal CAS Staff**

Mr. Stephen Smith, P.E., Senior Vice President and Mr. Gene Shriner, P.E., President are the Principals of the firm and are authorized to make representations for the firm. Mr. Smith will serve as the *Principle-In-Charge* and Mr. Schriner will serve as the *Quality Assurance/Quality Control Officer*. Mr. Schriner can be reached by telephone at (561) 644-3232 or via email at <a href="mailto:gschriner@craigasmith.com">gschriner@craigasmith.com</a> and Mr. Smith can be reached by telephone at (954) 815-4111 or via email at <a href="mailto:ssmith@craigasmith.com">ssmith@craigasmith.com</a>. Mr. Schriner and Mr. Smith will ensure the necessary resources are provided for the duration of the contract. All assigned CAS staff will be available for appropriate meetings with the City as needed.

Corporate Name: Craig A. Smith & Associates, Inc.

CAS Corporate Headquarters: 21045 Commercial Trail, Boca Raton, FL 33486 CAS Broward Office: 277 Goolsby Blvd. #4C, Deerfield Beach, FL 33442

Company Telephone: (954)-782 8222 / Company Fax: (561)-314-4458 / Company Website:www.craigasmith.com

We believe we are the best firm to perform the advertised services because of our current and past experience with similar capital improvement projects in the City and Tri-County area. **We can provide comprehensive solutions due to our breadth of expertise based on years of experience, talent and innovation**. We retain personnel with experience and training, along with a proven track record, to perform on time and within budget. CAS would be honored to have the opportunity to continue to work with the City of Pompano Beach and looks forward to favorable consideration.

Stephen C. Smith, P.E., Senior Vice President

Sincerely



## SECTION 2 TECHNICAL APPROACH





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## SECTION 2 – TECHNICAL APPROACH

#### **TECHNICAL APPROACH**

CAS utilizes a phased approach towards assisting the City in problem solving and for implementation of assigned projects. Our general project approach is as follows:

#### PHASE I - PROJECT DEVELOPMENT AND PLANNING

- Meeting with City Staff to develop the project scope (for each work authorization as assigned)
- Develop a fee proposal to match the project scope as per established fee schedule
- Finalize the scope and proceed with a kickoff meeting with the City Staff
- Perform Pre-Design Field Condition Assessment
- Develop Project Prioritization and Phasing (as needed)

- Conduct Modeling/Feasibility Studies (as needed)
- Provide Grant Funding Assistance (as needed)
- Prepare preliminary (conceptual) engineering design/plans
- Prepare preliminary construction cost estimate
- Public Involvement/Community Outreach (as needed)



CAS shall develop project scope, prioritize and phase design work for projects in a manner that will avoid schedule conflicts and allow for an efficient flow of work. CAS believes a **high level of consistent communication** will be essential in providing a successful completion of the assigned projects. Our management team will maintain a high level of communication with continuous accessibility to CAS staff and all other team members (sub-consultants). The CAS Team's goal is to seamlessly operate as an extension to City staff to satisfactorily complete projects on time and on or under budget.



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#### PHASE II - SURVEY & ENGINEERING DESIGN

- Survey site as needed
- Soil borings and testing as required
- Review existing record drawings, utility atlases and evaluate field conditions
- Utility Locates utilizing available technologies, such as, Vacuum Soft Digs, EM Designation, 2-D GPR and use of 3D Radar Scanning
- Utilize necessary Engineering design methods
- Utility Coordination (Cable Companies, FPL, Gas Companies, etc.)
- Establish all design requirements

## SECTION 2 – TECHNICAL APPROACH

- Establish all permitting requirements
- Prepare engineering (30%-60% construction plans) project plans
- Quality control meetings with CAS staff
- Meet with City Staff to review project design, schedule and budget
- Adjust preliminary project quantities and estimated costs
- Approval and adjustments to engineering project plans
- Quality Assurance Review with City

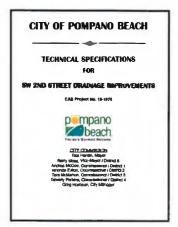
CAS' unified design process along with its unique utility locating capabilities allows for accurate design deliverables at an accelerated schedule. (i.e., 60% design plan deliverables at traditional 30% design phase). CAS' unified design process includes survey and utility locates which are services provided "inhouse" by CAS thus, eliminating the need for subconsultants for the development of basemaps and allowing for a streamlined efficient and more cost-effective design. Acquiring comprehensive and accurate utility locates in order to develop complete basemaps will be critical to the successful completion of most projects, eliminating design deficiencies.

#### PHASE III - FINAL DESIGN ENGINEERING AND BIDDING

- Preparation of 90% design and final construction plans
- Preparation of final specifications and contract documents
- Quality Assurance Review with City
- Finalize cost estimate; Develop Bid Tabulation (Schedule of Values)
- Meet with City Staff to review final project design, schedule and budget
- Finalize permitting (SFWMD, BC HEALTH DEPT, FDEP, FDOT, etc.)
- Advertise for bidding

- Provide plan adjustments and finalize for bidding
- Bid project (typical 30 days); solicit qualified bidders
- Prepare bid addendums and answer contractor RFI's
- Assist City in receipt of bids
- Review bids and bidder qualifications
- Recommend award
- Assist City with contract management

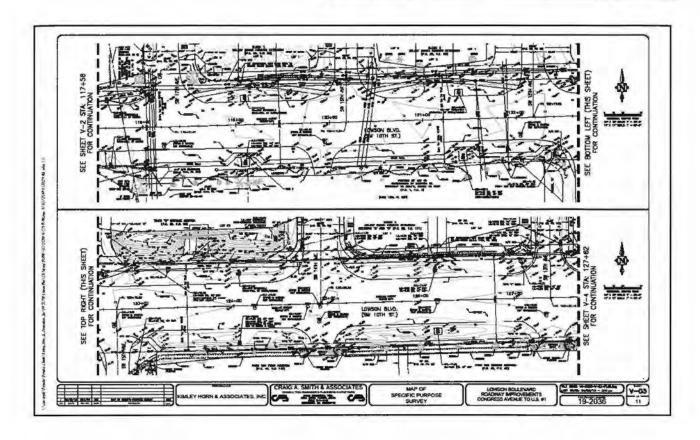






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## SECTION 2 - TECHNICAL APPROACH



A 90% Design Review meeting will be scheduled with City staff for final comments and revisions prior to submitting to regulatory agencies for permitting. CAS has over 40 years of experience and understanding of the regulations and statutes in South Florida and as they pertain to utility and infrastructure projects. **Permitting Agency Coordination** which includes compliance with the necessary regulations and proper communication with agencies is an important aspect of any project. Coordinating with permitting agencies during the early stages of the project to identify any "permitting challenges" that may impact the schedule of the project is very important. CAS's experience and relationships with local regulatory agencies combined with a proactive approach will ensure each project is permitted in a timely manner. Coordination with pertinent regulatory and/or funding agencies for projects under this contract may be the Broward County Health Department, FDEP, FDOT, EPA, SFWMD, FPL, Broward County Engineering, SRF, CRA and FAA.

#### **PHASE IV - CONSTRUCTION MANAGEMENT**

- Mobilize and prepare site
- Prepare safety plan
- Project field stake-out
- NPDES permits & MOT plans
- Shop drawing submittal and approval
- Begin construction
- Construction inspection and reporting
- Construction management and administration
- Public Involvement/Community
   Outreach Coordination
- Adherence to contract/permitting requirements
- Final construction & restoration
- Final punch-list



SECTION 2 – TECHNICAL APPROACH

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CAS has a knowledgeable and experienced construction management team which is important for keeping a construction project on schedule, realizing potential cost savings and minimizing construction impacts. CAS has experienced staff to provide effective contract administration including cost estimating, schedule review, shop-drawing submittal review, processing of change orders and any other related construction management activities. CAS will ensure key construction project elements are documented and updated regularly in the **E-Bullder Enterprise** system and that any issues are addressed efficiently. CAS will ensure that the contractor is held accountable, abiding according to design documents and meeting all contractual obligations. Construction progress reporting, to the City of Pompano Beach, will include summary of work completed, critical issues requiring resolution in order to maintain project schedule, planned budget versus actual cost to-date, planned work schedule for the next month and identification of any upcoming conflicts or other critical items requiring tracking in the **E-Bullder Enterprise** system.

#### PHASE V - TESTING, START-UP AND PROJECT CLOSEOUT

- Pressure tests, bacteriological sampling & clearance, sewer lamping and material inspections
- Lift & pump station operational testing/trouble shooting
- Review record drawings
- Prepare Project Startup
- Prepare final accounting, certifications and close out reports
- Project Close-Out

#### QUALITY ASSURANCE/QUALITY CONTROL

Quality control throughout the Project Duration is handled by means of a check and balance system and through the team's client relationships we form during the project providing continuous open, often face-to-face and honest lines of communication. CAS conducts weekly QA/QC meetings in-house every Monday to ensure the projects are on schedule and within budget. The CAS process will be methodical and timely in approach. The established goals identified in the project initiation will be implemented throughout the design, construction and close-out phase of each project.

Members of the CAS Project Team will meet regularly to establish consistent quality review framework.



SECTION 2 – TECHNICAL APPROACH

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- Quality Standards are fundamental to the success of the project. CAS prides itself on the
  consistent high quality of our output, whether it is project plans, specifications, design
  elements, comprehensive studies, survey, utility locates or grant writing.
- At CAS we are committed to achieving and maintaining the highest quality standards possible
  and ensuring the client's satisfaction. Refer to the CAS Design Process Flow Chart as an
  example of the typical QA/QC process implemented at the end of this section.

#### **ABILITY TO MEET PROJECT SCHEDULES**

CAS prides itself on our ability to **tallor our services to meet our clients' needs**. We are proud of our past history of successful design projects. This success is a result of our **highly experienced staff members** who have created a cohesive team ensuring projects are completed in a **tlmely and cost effective manner**. CAS is dedicated to execute assigned project schedules established at the beginning of each project. The CAS Team shall include a pre-design conference to establish the project contact with the City, regulating agency and CAS. From this meeting a detailed project schedule will be established. This will be updated through the project design/construction process via the **E-Bullder Enterprise** system. Design team updates will be provided on a regular basis. Weekly project progress reports will be provided to the City if requested and to all involved with the project. Otherwise status of each milestone identified at the initial project "kick-off" meeting will be updated on a regular basis along with any updates to the project schedule.

The CAS process will be a methodical and timely approach. CAS will assist in implementing goals established in each project scope during the design and construction phase of each project. Many similar projects for other municipalities that CAS provides engineering services for are grant funded and therefore have established deadlines that MUST be met in order to secure funding. CAS staff are well accustomed to working and completing projects within strict deadlines.

#### PROJECT MONITORING & BUDGETING

In order to get the most accurate budget price at the pre-construction phase and the construction phase, the CAS Team details all design items into many small parts that will add up to one whole part (Bill of Materials). By doing this our cost estimates are very accurate. Our track record with cost estimates to bids has usually been within 5-10%. The CAS Team' philosophy utilizes a phased approach towards assisting the City in problem solving and for implementation of public works and planning projects. "Schedule, Cost Control and Team Work" - The CAS Team approach is to develop milestones and defined deliverables with the City in order to meet the City's requirements. We will identify potential issues early in the project so necessary action can be taken to keep the project on schedule.

The CAS Team will provide the City of Pompano Beach with the design schedule for review and approval prior to commencement of design, including critical path items. CAS will review the design schedule with the City staff on a weekly or monthly basis and verify that it is consistent with the requirements of the contract for design and bidding. Any changes to the schedule milestones or deadlines shall be approved by the City of Pompano Beach. CAS will advise the City of any areas where the schedule is not in compliance with the contract.

We will continually update the cost of each project (as needed) in order to stay on budget. If an issue develops with the schedule, cost or the budget, we advise the City and develop a plan for corrective measures with the staff. We consider the City and The CAS Team as one team, all striving for the same goal of a quality product on schedule and on or below budget. The CAS Team Technical Reviews shall be



SECTION 2 – TECHNICAL APPROACH

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conducted throughout the project schedule by the Principal members of our firm as part of our commitment to quality engineering.

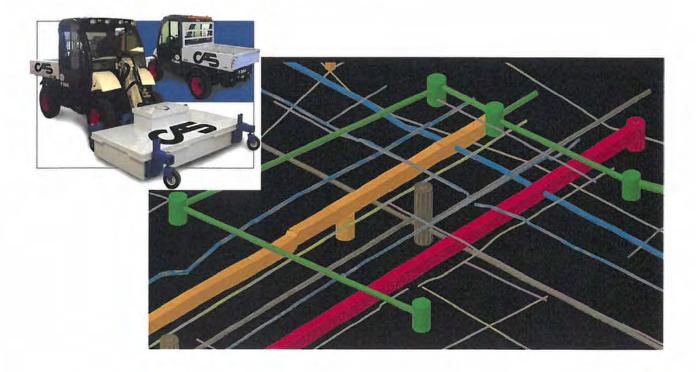
The CAS Team will prepare an opinion of probable construction cost in accordance with the American Association of Cost Engineering (AACE) at the following stages of each assigned project (as needed):

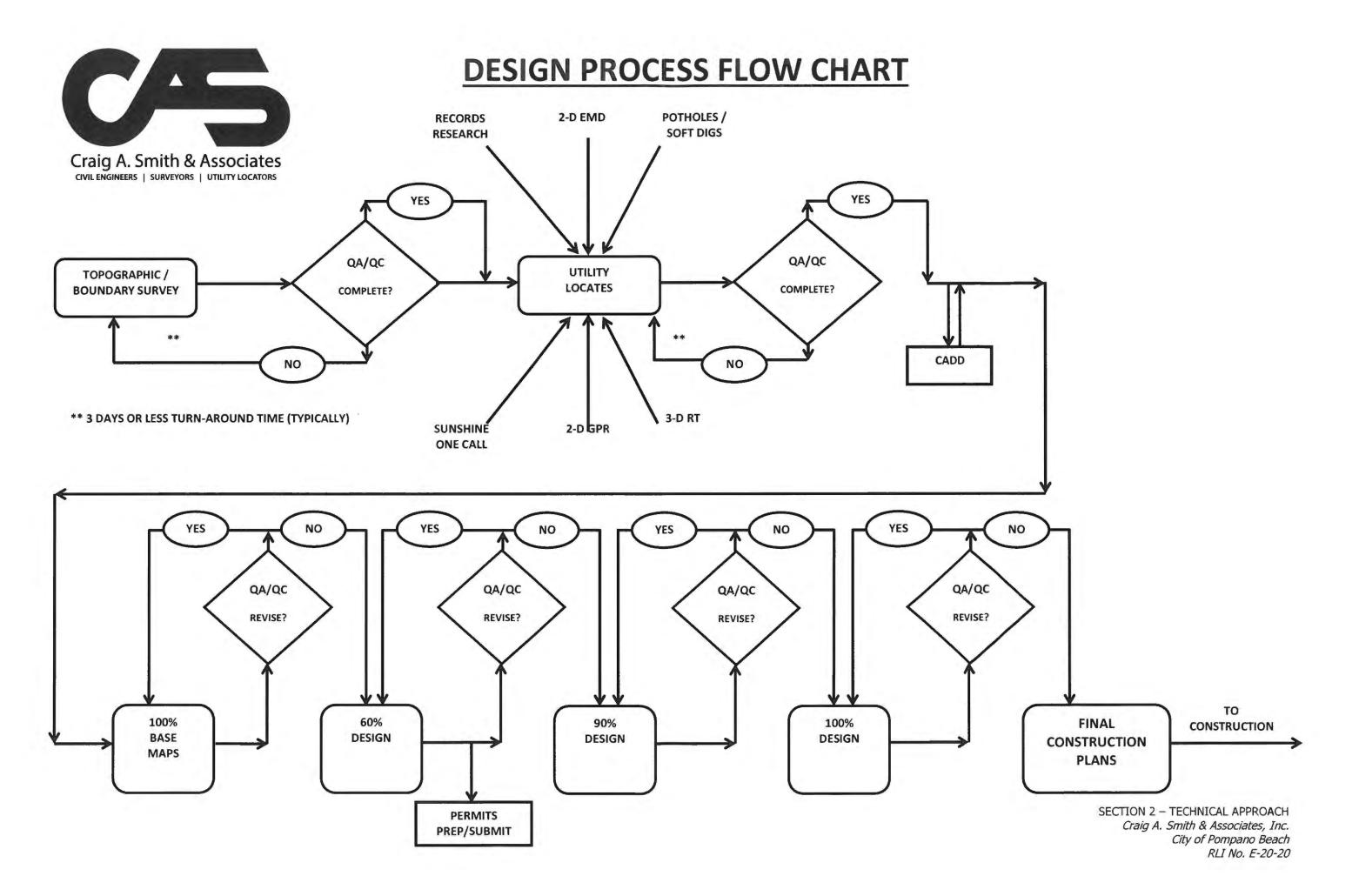
- 30% schematic design
- 60% design development
- 90% design development
- 100% construction documents

Cost estimates will be prepared for guidance in project evaluation and implementation from the information available at the time the estimate is developed. The final costs of each project will depend on actual labor and material cost, competitive market conditions, final project scope, implementation schedule, and other variable conditions.

#### THE CAS ADVANTAGE

The CAS Team's experienced engineering staff, in-house survey and extensive utility locating capabilities allows for the development of very accurate and complete basemaps for design of capital improvement projects. There is no second guessing as to the location of existing buried utilities (both active and abandoned), therefore greatly reducing or altogether eliminating change orders. **This is the "CAS ADVANTAGE"**. Our goal is to have no change orders.







## SECTION 3 SCHEDULE



#### **Project Schedule**

CITY OF POMPANO BEACH: US1 & NE 14 St. Drainage Improvements (Study Area #8)

Assumed NTP Date: December 1, 2019

TASK	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21
SURVEY AND LOCATES							7							
GEOTECHNICAL ENGINEERING														
ENGR. DRAINAGE ANALYSIS														
PRELIMINARY ENGINEERING DESIGN														
SOFT DIGS							Millian							
FINAL ENGINEERING DESIGN						***								
PERMITTING														
BIDDING PHASE														

Note:

Schedule time frames include 3 week review periods by City at the preliminary design phase and final design phase submittals

#### **Project Schedule**

CITY OF POMPANO BEACH: Non Sewer Area C Sanitary Sewer Improvements

NTP Date: October 22, 2019

TASK	OCTOBER'19	NOVEMBER'19	DECEMBER'19	JANUARY'20	FEBRUARY'20	MARCH'20	APRIL'20	MAY'20	JUNE'20	JULY'20	AUGUST'20	SEPTEMBER'20	OCTOBER'20
SURVEY AND LOCATES									1 1 1 1 1 1 1 1 1				
GEOTECHNICAL ENGINEERING													
WW COLLECTION & LS DESIGN													
60% ENGINEERING DESIGN						棚							
SOFT DIGS													
90-100% ENGINEERING DESIGN													
PERMITTING													
ONST. DOCS AND BIDDING ASSIST.			A										

#### Note:

Schedule time frames include 3 week review periods by City at the 60% design phase and 90% design phase submittals

#### **Project Schedule**

CITY OF POMPANO BEACH: SW 2nd Street Drainage Improvements Project

NTP ISSUED: April 12, 2018

TASK	APRIL' 18	MAY' 18	JUNE' 18	JULY' 18	AUGUST' 18	SEPTEMBER' 18	OCTOBER' 18	NOVEMBER' 18	DECEMBER' 18	JANUARY' 19	FEBRUARY' 19	MARCH' 19	APRIL' 19	MAY' 19	JUNE' 19
SURVEY AND LOCATES															
GEOTECHNICAL ENGINEERING										77 00 00 00 00		**			
ENG. DRAINAGE ANALYSIS															
PREL. ENGINEERING DESIGN												"			
SOFT DIGS															
FINAL ENGINEERING DESIGN															
PERMITTING						<b>化制制制制制</b>									
CONST. DOCS AND BIDDING ASSIST.															
CONST. OBSERVATION SERV'S							1 1								
SHOP DRAWING REVIEWS															
ENG. SERVICES DURING CONST.															

Notes: Initial permit submittal to Broward County was on 04/17/19. Permitting comments required major design revision utilimately resulting in permit approval on December 2019. Project is Bid ready and awaiting SRF funding availability.



## SECTION 4 REFERENCES





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## CITY OF POMPANO BEACH SW 2<sup>ND</sup> STREET DRAINAGE IMPROVEMENTS

#### **Project Entity:**

City of Pompano Beach 1201 NE 5<sup>th</sup> Avenue Pompano Beach, FL 33060

#### **Contact:**

Tammy Good Engineering Project Mgr. (954) 786-5520 tammy.good@copbfl.com

CAS Project No.: 18-1976
CAS Profile No.: 197

#### **Project Description:**

Craig A. Smith & Associates (CAS) was contracted to provide professional engineering and surveying services for proposed drainage improvements within the project limits of SW 2nd Street between Dixie Highway and Cypress Road, SW 1st Avenue between SW 2nd Street and Atlantic Blvd, SW 1st Terrace and SW 1st Court between SW 2nd Street and S. Cypress Road, located in Pompano Beach, Fl. The project site experiences flooding during even small storm events. After meeting with city staff to discuss the flooding problems experienced in the project area, it was decided that proposed drainage improvements for the project area would include a combination of new swale systems and new exfiltration trenches where feasible. The proposed drainage improvements will also use two existing drainage outfalls discharging to the Pompano Canal system (C-14) which currently serve the project limits. Total project fees (survey, design and construction) for the project are \$143,833.

Design is currently 80% complete and has a projected construction cost of \$900,000.00. **CAS HAS ADHERED TO THE INITIAL DESIGN BUDGET WITH NO BUDGETARY OVERRRUNS.** 

#### Responsibilities:

Survey, utility locates, geotechnical engineering, engineering drainage analysis, preparation of civil engineering plans, cost estimating, permitting, contract documents and assistance during bidding, shop drawing review, construction observation and engineering services during construction and certification through project closeout.

#### **Key Personnel:**

Stephen C. Smith, P.E. – Senior Vice President; Frank Vilar, P.E. – Senior Supervising Engineer; Robert D. Keener, P.S.M. – Vice President-Survey; James Driscoll – Director of Utility Locates









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## CITY OF POMPANO BEACH

#### **NON-SEWER AREA C: SANITARY SEWER IMPROVEMENTS**

#### **Project Entity:**

City of Pompano Beach 1201 NE 5<sup>th</sup> Avenue Pompano Beach, FL 33060

#### **Contact:**

Tammy Good CIP Manager (954) 786-5512 Tammy.good@copbfl.com

CAS Project No.: 19-2070 CAS Profile No.: 309

#### **Project Description:**

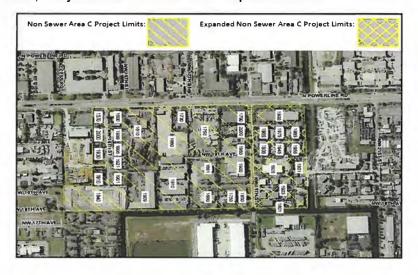
CAS is providing engineering design services for the installation of a new wastewater collection system to provide sanitary sewer service to the city's Non-Sewer Area C service area. The project area consists of 38 commercial/light industrial properties which are currently on septic tanks. CAS conducted a Sanitary Sewer Service Study for the city to identify design solutions. The recommendations from the study determined that the new system shall consist of one wastewater lift station along with associated gravity sewer and force main lines and include connections to two (2) existing city wastewater lift stations. Design fees for this project are \$198,803. The project design commenced in January 2020 and is currently 60% complete. The construction cost estimate is \$1,800,000. CAS HAS ADHERED TO THE INITIAL DESIGN BUDGET WITH NO BUDGETARY OVERRUNS.

#### Responsibilities:

Survey, utility locates, geotechnical engineering services (by others), engineering design, preparation of construction plans and contract documents, permitting, assistance during bidding, construction management, construction observation services and final certifications.

#### **Key Personnel:**

Stephen C. Smith, P.E. – Senior Vice President; James R. Orth, P.E. – Vice President of Engineering; Robert D. Keener, P.S.M. – Vice President of Survey; Frank Vilar, P.E. – Supervising Engineer; James Driscoll – Director of SUE; Tony Gomes – Senior Field Representative





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## **CITY OF POMPANO BEACH**

#### US-1 AND NE 14TH STREET DRAINAGE IMPROVEMENTS

#### **Project Entity:**

City of Pompano Beach 1201 NE 5<sup>th</sup> Avenue Pompano Beach, FL 33060

#### **Contact:**

Tammy Good CIP Manager (954) 786-5512 Tammy.Good@copbfl.com

CAS Project No.: 19-2093 CAS Profile No.: 310

#### **Project Description:**

CAS is providing engineering design services for the drainage improvements for the US-1 and NE 14th Street Causeway area encompassing a neighborhood area of approximately 60 acres. The project area is composed of primarily residential homes with some commercial development within the project limits. CAS was directed to evaluate options available for providing drainage improvements for the area with the goal of addressing flooding and water quality treatment to the greatest extent practical. The proposed alternatives will examine the feasibility of exfiltration trench, improved pipe conveyance and swale improvements where feasible. Proposed improvements will use existing cityowned outfall systems within the project area where feasible and evaluate upsizing these systems. Design fees for this project are The project design began in April 2020 and is currently 30% complete. The construction cost estimate is \$1.626.000. CAS HAS ADHERED TO THE INITIAL DESIGN BUDGET WITH NO BUDGETARY OVERRUNS.

#### Responsibilities:

Survey, utility locates, geotechnical engineering services (by others), engineering design, preparation of construction plans and contract documents, permitting, assistance during bidding, construction management, construction observation services and final certifications.

#### **Key Personnel:**

Stephen C. Smith, P.E. - Senior Vice President; James R. Orth, P.E. - Vice President of Engineering; Robert D. Keener, P.S.M. - Vice President of Survey; Frank Vilar, P.E. - Supervising Engineer; James Driscoll - Director of SUE; Tony Gomes - Senior Field Representative





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# CITY OF SUNNY ISLES BEACH NE 174TH STREET ROADWAY INFRASTRUCTURE IMPROVEMENTS

#### **Project Entity:**

City of Sunny Isles Beach 18070 Collins Avenue Sunny Isles Beach, FL 33160

#### **Contact:**

Christopher Russo City Manager (305) 792-1776 crusso@sibfl.net

CAS Project No.: 14-1758 CAS Profile No.: 91

#### **Project Description:**

The Roadway Improvements Project for NE 174th Street consisted of a reconstruction of both the drainage and the road for approximately 0.2 miles from Collins Avenue to North Bay Road. The existing roadway system was failing due to poor soil conditions, a limited drainage system and an undersized outfall. The new roadway incorporated a reconstructed base with geotech fabric to offset the soils. The design also included a new drainage system that met water quality requirements, site demolition, road regrading, utility relocations, sidewalks and paver walkways, landscaping, curbing, bike paths and parallel parking. The design was completed within two years under budget at a cost of \$212,180. Construction of the project was completed in the Spring of 2017 with an initial construction cost of \$2,965,750.20. OWNER DRIVEN CHANGE ORDERS TOTALED \$765,536.13. The total final construction cost was \$3,731,286.33.

#### Responsibilities:

Survey, utility locates, preparation of engineering design and construction plans, stormwater modeling and calculations, cost estimates, contract documents and permitting.

#### **Key Personnel:**

Stephen C. Smith, P.E. – Senior Vice President; Robert D. Keener, P.S.M. – Vice President of Survey; James Driscoll – Director of SUE; Orlando A. Rubio, P.E. – Senior Supervising Engineer; Tony Gomes – Senior Field Representative; William Tanto – Senior Field Representative









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## TOWN OF GOLDEN BEACH PHASE 4 STORMWATER IMPROVEMENTS

#### **Project Entity:**

Town of Golden Beach 1 Golden Beach Drive Golden Beach, FL 33160

#### **Contact:**

Alexander Diaz Town Manager (305) 932-0744 alexdiaz@townofgoldenbeach.us

CAS Project No.: 00-0984B CAS Profile No.: 20

#### **Project Description:**

The Town of Golden Beach Phase 4 Stormwater Improvements were the initial phase of development from the town's Stormwater Master Plan. Construction included the installation of 1,775 linear feet of DIP drainage pipe ranging in diameter from 15-inch to 72-inch, 600 linear feet of force main, 32 drainage structures, a stormwater pump station with two 28-HP pumps, a bypass weir structure and a water quality structure in the town's north and south park areas. Due to the town's soils make-up, all structures and pipes were placed on piles to avoid settling. Total design costs including construction management for the project were \$318,170. Total construction cost was \$2,031,740. The project began in July 2004 and was completed in April 2006 without liquidated damages.

CAS ADHERED TO INITIAL DESIGN BUDGET WITH NO BUDGETARY OVERRUNS.

#### Responsibilities:

Survey, utility locates, preparation of engineering design and construction plans, cost estimates, contract documents, bidding, construction management and construction observation, and certification through project close-out.

#### **Key Personnel:**

Stephen C. Smith, P.E. – Senior Vice President; Orlando A. Rubio, P.E. – Senior Supervising Engineer; William H. Landis, P.E., – Senior Supervising Engineer; Al Caruso, E.I. – Project Manager; Robert D. Keener, P.S.M. – Vice President of Survey; James Driscoll – Director of SUE; Tony Gomes – Senior Field Representative; William Tanto – Senior Field Representative









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# TOWN OF GOLDEN BEACH WATER DISTRIBUTION SYSTEM IMPROVEMENTS

## **Project Entity:**

Town of Golden Beach 1 Golden Beach Drive Golden Beach, FL 33160

#### **Contact:**

Alexander Diaz Town Manager (305) 932-0744 alexdiaz@townofgoldenbeach.us

CAS Project No.: 08-1464

CAS Profile No.: 22

## **Project Description:**

The Water Distribution System Improvements project for the Town of Golden Beach was an integral part of the town's Capital Improvements Plan. Work included the installation of approximately 1,215 linear feet of 12-inch water main, 13,850 linear feet of 8-inch water main and 1,050 linear feet of 6-inch water main, 37 fire hydrant assemblies, and the transfer of 370 new water meters for a complete retrofit of the town's water main infrastructure. This project was funded through FDEP's State Revolving Fund Program. Total design cost including construction management for the project was \$317,441. Total construction cost was \$2,200,000. The project began in May 2009 and was completed in November 2011 without liquidated damages. CAS ADHERED TO INITIAL DESIGN BUDGET WITH NO BUDGETARY OVERRUNS.

## Responsibilities:

Survey, utility locates, preparation of engineering design and construction plans, cost estimates, contract documents, permitting, construction management and construction observation, certification through project close-out and assistance in securing funding for project.

## **Key Personnel:**

Stephen C. Smith, P.E. – Senior Vice President; Robert D. Keener, P.S.M. – Vice President-Survey; James Driscoll, Utility Locates Director; Al Caruso – Project Manager, Tony Gomes – Senior Field Representative









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# TOWN OF PEMBROKE PARK SANITARY SEWER PUMP STATIONS AND FORCE MAIN IMPROVEMENTS

### **Project Entity:**

Town of Pembroke Park 3150 SW 52<sup>nd</sup> Avenue Pembroke Park, FL 33023

#### **Contact:**

Todd Larson
Public Works Director
(954) 966-4600
tlarson@townofpembrokepark.com

CAS Project No.: 04-1248 CAS Profile No.: 74

## **Project Description:**

The Sanitary Pump Station and Force Main Improvements Project for the Town of Pembroke Park was completely funded by a Rural Development Grant. **Improvements** included the installation of 1,500 linear feet of 10-inch force main which remained a dry line for four years until further funding became available. Remaining work included the rehabilitation of 22 lift stations, the decommissioning of 6 existing lift stations and the installation of a magmeter with telemetry system. Design fees for this project were \$417,700. The project was completed in 2009 after six years with a construction cost of \$2,907,930. The project was completed within the accepted schedule and budget with no liquidated damages. CAS ADHERED TO INITIAL DESIGN BUDGET WITH NO BUDGETARY OVERRUNS.

## Responsibilities:

Survey, utility locates, grant assistance and administration, design, preparation of construction plans and contract documents, permitting, assistance during bidding, construction management and construction observation, start-up, as-builts and final certification through project close-out.

## **Key Personnel:**

Stephen C. Smith, P.E. – Senior Vice President; Robert D. Keener, P.S.M. – Vice President of Survey; Greg A. Giarratana – Senior Supervising Engineer; James Driscoll – Director of SUE; Tony Gomes – Senior Field Representative







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# TOWN OF PEMBROKE PARK SOUTHWEST 25TH STREET STORMWATER IMPROVEMENTS PHASE I-II

### **Project Entity:**

Town of Pembroke Park 3150 SW 52<sup>nd</sup> Avenue Pembroke Park, FL 33023

#### Contact:

Todd Larson
Public Works Director
(954) 966-4600
tlarson@townofpembrokepark.com

CAS Project No.: 17-1854 CAS Profile No.: 237

## **Project Description:**

The Southwest 25th Street Stormwater Improvements for the Town of Pembroke Park is part of a multi-phase stormwater improvement project totaling 14.34 acres. Phase I and II included 2.44 acres of drainage sub basin area. The purpose of the project was to alleviate flooding in the town by improving hydraulic conveyance throughout the existing stormwater drainage system serving the 14.34 acre study area. A hydraulic analysis to determine the acceptable level of service to the town was performed by the development of an ICPR model for the project area. In order to develop the ICPR model, a comprehensive review of existing survey and utility information, available photography record drawings. aerial and investigations were performed. After the model was

completed, proposed recommendations were made for upsizing the existing stormwater drainage pipes by analyzing the ICPR results for reduction in peak stages and flood duration times in the pre and post conditions. Existing discharge pipes were upsized from 24" to new 54" diameter drainage pipes. The total design costs for the project was \$50,305 with anticipated construction costs totaling \$300,000. The project is currently in the design phase. NO BUDGETARY OVERRUNS.

## Responsibilities:

Survey, hydraulic modeling, design, construction contract development and bidding services

#### **Key Personnel:**

Steve C. Smith, P.E. – Senior Vice President; Robert D. Keener, P.S.M. – Vice President-Survey; Frank Vilar – Senior Supervising Engineer; Tony Gomes – Senior Field Representative; William Tanto – Senior Field Representative





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# CITY OF SWEETWATER STORMWATER & PUMP STATION IMPROVEMENTS (PHASES I & III)

## **Project Entity:**

City of Sweetwater 500 SW 109th Avenue Sweetwater, FL 33174

#### **Contact:**

Eric Gomez, P.E. City Engineer (305) 553-5457 egomez.egsc@att.net

CAS Project No.: 01-1001 CAS Profile No.: 98

## **Project Description:**

Due to repetitive historical flooding within the 225 acre area, Phase I and III Stormwater Improvements for the City of Sweetwater received substantial HMGP/PDMC funding from FEMA. The projects consisted of 115 structures, 7,400 linear feet of drainage pipe ranging in size from 15-inch to 72-inch, 7,325 linear feet of force main ranging in size from 24-inch to 48-inch, four duplex pump stations, roadway restoration and the complete reconstruction of 2,500 linear feet of NW 112<sup>th</sup> Avenue. Construction fees for Phase I and III totaled \$7,058,530 and design fees totaled \$1,483,440. The project began in February 2000 and was completed in December 2004 within the accepted schedules and no liquidated damages. CAS ADHERED TO INITIAL DESIGN BUDGET WITH NO BUDGETARY OVERRUNS.

## Responsibilities:

Survey, utility locates, FEMA grant applications, planning, design, cost estimates, preparation of construction plans and contract documents, permitting, bidding, construction management and full-time resident construction observation services, survey as-builts and certification through project close-out.

### **Key Personnel:**

Stephen C. Smith, P.E. – Senior Vice President; Robert D. Keener, P.S.M. – Vice President of Survey; Orlando A. Rubio, P.E. – Senior Supervising Engineer; Al Caruso, E.I. – Project Manager; James Driscoll – Director of SUE; Tony Gomes – Senior Field Representative









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# CITY OF SWEETWATER STORMWATER & PUMP STATION IMPROVEMENTS PHASE IV

## **Project Entity:**

City of Sweetwater 500 SW 109th Avenue Sweetwater, FL 33174

#### Contact:

Eric Gomez, P.E. City Engineer (305) 553-5457 egomez.egsc@att.net

CAS Project No.: 10-1578 CAS Profile No.: 180

## **Project Description:**

Due to repetitive, historical flooding within the 138 acre residential area, Phase IV Stormwater Improvements for the City of Sweetwater received substantial HMGP funding from FEMA. The projects consisted of 130 structures, 10,795 linear feet of drainage pipe ranging in size from 15-inch to 72-inch, 1,506 linear feet of 30-inch force main and 2-triplex pumping stations (28 HP). Design fees for the project were \$403,151. The \$4.09M project began in May 2011 and was completed in January 2014 with no liquidated damages. CAS ADHERED TO INITIAL DESIGN BUDGET WITH NO BUDGETARY OVERRUNS.

## Responsibilities:

Surveying, utility easement acquisition, utility locating, FEMA grant applications, planning, design, cost estimates, preparation of construction plans and contract documents, permitting, bidding, construction management and limited engineering services during construction. The project was inspected and certified by the City Engineer's office.

## **Key Personnel:**

Stephen C. Smith, P.E. - Senior Vice President; Robert D. Keener, P.S.M. - Vice President of Survey; Orlando A. Rubio, P.E. - Senior Supervising Engineer; Al Caruso, E.I. - Project Manager; James Driscoll - Director of SUE; Tony Gomes - Senior Field Representative







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# VILLAGE OF EL PORTAL STORMWATER MASTER PLAN

## **Project Entity:**

Village of El Portal 500 NE 87<sup>th</sup> Street El Portal, FL 33138

#### **Contact:**

Claudia V. Cubillos Mayor (305) 795-7880 mayorcubillos@villageofelportal.org

CAS Project No.: 02-1080 CAS Profile No.: 12

### **Project Description:**

A comprehensive Stormwater Master Plan was developed for the entire Village of El Portal to identify and determine corrective actions required to resolve existing flooding conditions throughout the village. The village was evaluated based on a year-long cycle of rain events and an analysis of properties with repetitive flooding. Preliminary cost estimates were developed for new and retrofitted stormwater systems through best management practices while addressing water quality and water quantity concerns. Preliminary surface water modeling was performed, and projects were then ranked by priority. The estimated total costs of village-wide stormwater improvements were \$8.1 million. The design costs for development of the Stormwater Master Plan were \$152,800. The Master Plan has proved beneficial to the village in obtaining funding for numerous stormwater projects throughout the community. The Master Plan began in 2002 and was completed within a ten month timeframe. CAS ADHERED TO

INITIAL DESIGN BUDGET WITH NO BUDGETARY OVERRUNS.

#### Responsibilities:

Survey, preliminary drainage design of infrastructure, drainage calculations and modeling, preliminary cost estimates, develop priority lists, construction details, stormwater-related maps and present findings to Village Commission.

#### **Key Personnel:**

Stephen C. Smith, P.E. – Senior Vice President; Robert D. Keener, P.S.M. – Vice President of Survey; Orlando A. Rubio, P.E. – Senior Supervising Engineer; Al Caruso, E.I. – Project Manager; Tony Gomes – Senior Field Representative; Bill Tanto – Senior Field Representative









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# CITY OF LAUDERHILL WATER TREATMENT PLANT EVALUATION REPORT

### **Project Entity:**

City of Lauderhill 5581 W. Oakland Park Blvd. Lauderhill, FL 33313

#### **Contact:**

Herb Johnson Utilities Director (954) 730-4207

CAS Project No.: 16-1748
CAS Project No.: 190

## **Project Description:**

The City of Lauderhill owns and operates a lime softening water treatment plant currently permitted for a rated capacity of 16 MGD. The city requested that Craig A. Smith & Associates (CAS) conduct a plant assessment consisting of an on-site review and evaluation of the raw water source, plant facilities, treatment and mechanical equipment, so as to ensure that the city's water treatment plant continues to produce and distribute safe drinking water for the all of their potable water customers. CAS developed recommendations and a list of prioritized repairs or replacements at the water treatment plant site with a cost estimate for improvements totaling \$2,805,505. The project assessment began in May 2016 and was completed on time and within the Initial budget with no budgetary overruns. Project Evaluation Report cost was \$33,642.

## Responsibilities:

CAS submitted an Engineering report documenting the site inspection/evaluation of the water treatment plant including the interviews with the plant staff and its plant operators. The engineering evaluation provided recommendations concerning the plants mechanical equipment deficiencies, it made recommendations on the repairs and or replacement of the equipment as required.

### **Key Personnel:**

Gene R. Schriner, P.E. – President; Greg Giarratana - Senior Supervising Engineer, Tony Gomes Senior Field Representative









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# CITY OF LAUDERHILL WATER TREATMENT PLANT GREEN LEAF FILTER REHABILITATION

## **Project Entity:**

City of Lauderhill 5581 W. Oakland Park Blvd. Lauderhill, FL 33313

#### **Contact:**

Herb Johnson Utilities Director (954) 730-4207

CAS Project No.: 16-1748 CAS Profile No.: 185

## **Project Description:**

The City of Lauderhill owns and operates a lime softening water treatment plant currently permitted for a rated capacity of 16 MGD. CAS conducted a plant assessment consisting of an on-site review and evaluation of the raw water source, plant facilities, treatment and mechanical equipment, so as to ensure that the city's water treatment plant continues to produce and distribute safe drinking water. The engineering evaluation provided recommendations concerning the plants mechanical equipment deficiencies, it made recommendations on the repairs and or replacement of the equipment as required. included the replacement of two (2) Green Leaf filters at the city's water treatment plant. Work also included the replacement of underdrain components, vacuum piping, solenoid and vacuum tank valves, effluent weirs, and media. Tanks were sand blasted internally and externally, then repainted. Construction began in August of 2017 and was completed in April of 2018 at a cost of

\$1,635,612. CAS services during construction were \$100,260. CAS ADHERED TO THE INITIAL DESIGN AND CONSTRUCTION SERVICES BUDGET WITH NO BUDGATRY OVERRUNS.

## Responsibilities:

Plant assessment and recommendations, construction management, shop drawing and pay request reviews, site observations and certification through project close-out.

#### **Key Personnel:**

Gene R. Schriner, P.E. – President; Greg Giarratana - Senior Supervising Engineer, Tony Gomes Senior Field Representative









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# CITY OF BELLE GLADE 2020 SCOP FUNDED CITY-WIDE ROAD RESURFACING AND SIGNAGE UPGRADES

### **Project Entity:**

City of Belle Glade Municipal Complex Belle Glade, FL 33430

#### **Contact:**

Lomax Harrelle
City Manager
(561) 992-1601
Iharrelle@belleglade-fl.com

CAS Project No.: 19-2095

CAS Profile No.: 337

## **Project Description:**

The project consists of roadway improvements on 13 roads city-wide totaling approximately 3.38 miles and includes milling and resurfacing, pavement overlays, pavement markings and signage improvements. Professional services included limited design and bidding assistance including complete engineering services during construction and construction observation. The project is funded by the FDOT Small County Outreach Program (SCOP). Total cost for bidding and construction services is \$43,000. Project construction began on January 21, 2020 and was July 23, 2020. Construction cost is \$877,548. PROJECT WAS COMPLETED UNDER THE INITIAL FUNDED BUDGET WITH NO BUDGETARY OVERRUNS.

## **Responsibilities:**

Engineering design, cost estimates, permitting, bidding assistance and construction contract administration and observation through project close-out.

## **Key Personnel:**

Gene R. Schriner, P.E. – President; James R. Orth – Director of Engineering; Keith Schriner - Project Engineer; Tony Gomes – Senior Field Representative; William Tanto – Senior Field Representative







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# CITY OF BELLE GLADE SW 3RD STREET DRAINAGE IMPROVEMENTS

#### **Project Entity:**

City of Belle Glade Municipal Complex Belle Glade, FL 33430

#### **Contact:**

Lomax Harrelle
City Manager
(561) 992-1601
Iharrelle@belleglade-fl.com

CAS Project No.: 17-1959-1LS CAS Profile No.: 239

## **Project Description:**

The project consists of removal and replacement of existing failing catch basins and CMP drainage pipes on approximately 350 linear feet of roadway in the downtown Belle Glade area. Total design cost including construction management was \$57,800. Total construction cost was \$294,486. The project was completed January 11, 2019 on schedule and within the initial budget with no budgetary overruns.

## **Responsibilities:**

Route Survey, engineering design, cost estimates, permitting, bidding assistance and construction contract administration and observation through project close-out.

## **Key Personnel:**

Gene R. Schriner, P.E. – President; James R. Orth, P.E. – Director of Engineering; Al Caruso - Design Engineer; William Tanto – Senior Field Representative; Mike Jones – Senior Field Representative









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# SEACOAST UTILITY AUTHORITY NORTHLAKE BOULEVARD WATER AND SEWER REPLACEMENT PHASES 1 - 3

## **Project Entity:**

Seacoast Utility Authority 4200 Hood Road Palm Beach Gardens, FL 33410

#### **Contact:**

George A. Brown, P.E. 2101 NW Corporate Blvd., Suite 301 Boca Raton, FL 33431 (561) 997-8070 gbrown@hazenandsawyer.com

CAS Project No.: 17-1965 CAS Profile No.: 245

## **Project Description:**

CAS was hired as a subconsultant to Hazen & Sawyer to perform surveying, mapping and utility locating and provide a pre-design survey for 3 phases of a water distribution and sewer force main piping replacement project. CAS performed a complete right-of-way survey which included all existing above-ground/below-ground utilities, easements, landscaping, property ownership and utility poles and wires. The project included 1.3 miles of Northlake Boulevard from Old Dixie Highway (SR 811) in Phase 1, 1 mile of US Highway 1 from Northlake Boulevard south to Silver Beach Road in Phase 2, and 1.7 miles of US Highway 1 from Northlake Boulevard north to the North Palm Beach waterway in Phase 3. 3D laser scanning was utilized to accurately capture point clouds in order to re-create all surface objects. The survey, locates and soft dig work for the project totaled \$203,325.00. The project began in December of 2017 and was completed in May of 2018. THE PROJECT WAS COMPLETED WITHIN THE

INITIAL BUDGET WITH NO BUDGETARY OVERRRUNS.

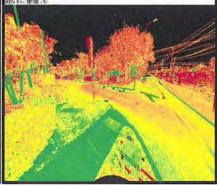
## Responsibilities:

Topographic/route survey, mapping, soft digs and utility locates with 30 surface and subsurface data files and hard copy drawing deliverables.

#### **Key Personnel:**

Stephen C. Smith, P.E. –Senior Vice President; Robert D. Keener, P.S.M. – Vice President-Survey; David Lookabill – Survey Crew Leader; Jim Driscoll – Director of SUE









# SECTION 5 PROJECT TEAM FORM



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 E-20-20

Engineering

and Repairs

22115		Federal I.D.# <u>59-2010476</u>	
PRIME			
Role	Name of Individual Assigned to Project	Number of Years Experience	Education, Degrees
Principal-In-Charge	Stephen C. Smith, P.E.	34	P.E BS. Civil
Project Manager	Frank Vilar, P.E.	25	P.E., BS.Civil/Enviro.
Asst. Project Manager	Orlando A. Rubio, P.E.	32	P.E., BS. Civil
Other Key Member	Robert D. Keener, PSM	42	PSM, Surveyor
Other Key Member	James Driscoll	26	NULCA Locates

#### SEE ORGANIZATION CHART SECTION 6 FOR DETAILS **SUB-CONSULTANT** Role Company Name and Address of Name of Individual Assigned Office Handling This Project to the Project Robert D. Keener, PSM Craig A. Smith and Associates, Inc. Surveying 277 Goolsby Blvd. #4C Deerfield Beach, FL 33442 Bermello Ajamil & Partners, Inc. Kirk Olney, RLA Landscaping 2601 S. Bayshore Drive, #1000, Miami, FL 33133 Jose Lopez, P.E.

Structural Engineering

MU Engineers, Inc.

Other Key Member

Electrical Engineering

Smith Consulting Engineers, Inc.

Other Key Member

Geotechnical Services

Marcus Unterweger, P.E.

Larry M. Smith, P.E.

Larry M. Smith, P.E.

Tom Mullin, P.E. & Andrew Nixon

James R. Orth, P.E.

4152 W. Blue Heron Blvd. Suite 1114, Riviera Beach, FL 33404

Other Key Member

Pipeline Cleaning, Inspection Shenandoah Construction Co.

Danny DiMura & Lenny Jaglarski

1888 NW 22nd Street, Pompano Beach, FL 33069

Craig A. Smith and Associates, Inc.

(use attachments if necessary) Local City of Pompano Beach Firm



# SECTION 6 ORGANIZATIONAL CHART, STRUCTURE & RESPONSIBILITIES



#### CITY OF POMPANO BEACH **CRAIG A. SMITH & ASSOCIATES** \*CIVIL ENGINEERS \* SURVEYORS \* UTILITY LOCATORS \* Stephen C. Smith, P.E. Senior Vice President PRINCIPAL-IN-CHARGE Gene R. Schriner, P.E. President \*KEY CAS STAFF ARE HIGHLIGHTED IN YELLOW QA/QC OFFICER Frank Vilar, P.E. Senior Supervising Engineer PROJECT MANAGER WATER/WASTEWATER **STORMWATER & SURVEY & MAPPING** SUBSURFACE UTILITY CADD / DRAFTING CONSTRUCTION **ENGINEERING ROADWAY MANAGEMENT & INSPECTION ENGINEERING ENGINEERING** (UTILITY LOCATES) Mike Marenco **Greg Giarratana Tony Gomes CADD Manager** Robert Keener, PSM Senior Supervising Engineer Senior Field Representative Orlando Rubio, P.E. Vice President - Survey **James Driscoll** Senior Supervising Engineer Miguel Rodrigues William H. Landis, P.E. **Director Utility Locates William Tanto** CADD Technician **David Lookabill** Senior Supervising Engineer William H. Landis, P.E. Senior Field Representative Party Chief **Alan Lopez** Senior Supervising Engineer Michael LaVella Al Caruso, E.I. **Locates Supervisor** Michael Jones **Donald Drake CADD Technician Project Engineer** Al Caruso, E.I. Senior Field Representative Party Chief **Project Engineer Keith Schriner** Project/Field Engineer PIPELINE INSPECTION **STRUCTURAL** LANDSCAPE **ELECTRICAL GEOTECHNICAL REHABILITATION & ENGINEERING ENGINEERING** SERVICES **ARCHITECTURE & REPAIRS PUBLIC OUTREACH** MUEngineers, Inc. **Smith Consulting** Radise International, Shenandoah Bermello Ajamil & Engineers, Inc. LLC. Partners, Inc. **Construction Co.** Marcus Unterweger, P.E., Larry M. Smith, P.E., Principal S.I., LEED, President Tom Mullin, P.E., Chief Geotech Jose Lopez, P.E., Dir. of Electrical Engineer Danny Dimura, Vice President Engineer, Vice President **Environmental Engineering** Ricardo Madriz, P.E., Steve Hockman, Sr. Electrical Lenny Jaglarski, Project Manager Andrew Nixon, P.E., Project Engineer and Project Mgr. Superintendent Kirk Olney, RLA, Sr. Assoc. Manager uther E. Fair, P.E., Sr. Project Randy Hollingworth, Vice Staffin C. Zebarth, Project Manager Akash Bissoon, P.E., Sr. Project President, Dir. of LA Engineer



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# SECTION 6 - ORGANIZATIONAL STRUCTURE & RESPONSIBILITES

Refer to the **Organizational Chart** on the previous page of this section for the CAS Team structure. Below is a detailed breakdown of responsibilities for team staff for City assigned capital improvement projects.

#### **KEY CAS PERSONNEL TO PERFORM SERVICES**

#### **CONTRACT MANAGEMENT**

CAS Staff: Gene R. Schriner, P.E., Stephen C. Smith, P.E.

- Contract Negotiation & Administration
- Allocate Staff & Resources for Work Orders
- . Initial Project Planning & Scheduling
- Project Cost Control
- Project Quality Assurance & Control
- · Develop Fee Proposal for each Project
- Project Management Support
- Policy Development & Guidance
- . Financial Studies
- Engineering Plan Review
- Grant Application & Management
- Bond Preparation
- City Commission Presentations



#### PROJECT MANAGEMENT

#### CAS Staff: Frank Vilar, P.E.

- CAS Liaison to City Staff
- Preliminary Project Planning & Conceptual Design Assistance
- Oversee Survey, Design, Contract Document Development, Bidding/Contract Award and Construction Management Efforts through Project Close-Out
- Regulatory Permitting Support
- Provide Monthly Project Updates/E-Builder Enterprise System Updates (as required)
- Provide Public Involvement Support
- Schedule Meetings with City Staff (as required)
- Cost Estimation and Budget Support
- Policy Development & Guidance
- City Commission Presentations
- Technical Engineering Support as Required throughout Contract duration

#### **ENGINEERING DESIGN - WATER & WASTEWATER UTILITIES**

CAS Staff: Gene R. Schriner, P.E., Frank Vilar, P.E., Albert J. Caruso, E.I., Greg Giarratana, Keith Schriner

- Project Planning & Conceptual Design
- Project Design (Water/Wastewater Treatment, Water Distribution, Wastewater Collection & Conveyance)
- Regulatory Permitting
- Contract Document Development
- Cost Estimation and Budget Support
- Cost/Benefit Analysis
- Engineering/Technical Reports
- Bidding & Contract Award Services
- Water/Wastewater Treatment Process Evaluations



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# SECTION 6 - ORGANIZATIONAL STRUCTURE & RESPONSIBILITES

#### **ENGINEERING DESIGN - STORMWATER/DRAINAGE & ROADWAY**

CAS Staff: Stephen C. Smith, P.E., William H. Landis, P.E., Orlando Rubio, P.E., Frank Vllar, P.E., Albert J. Caruso, E.I.

- Project Planning & Conceptual Design
- Project Design (Stormwater/Drainage System, Roadways)
- · Regulatory Permitting
- Contract Document Development
- Cost Estimation and Budget Support
- Bidding & Contract Award Services
- Stormwater/Flood Management
- Stormwater Pollution Prevention Plans
- Engineering/Technical Reports
- Canal/Lake Dredge Fill & Bank Restoration

#### STORMWATER UTILITY MASTER PLANNING

CAS Staff: Stephen C. Smith, P.E., Orlando Rubio, P.E., Albert J. Caruso, E.I.

- Feasibility Studies
- Master Plan Development
- Document Procurement & Updating
- Hydraulic Modeling

#### WATER/WASTEWATER UTILITY MASTER PLANNING

CAS Staff: Gene R. Schriner, P.E., Albert J. Caruso, E.I., Greg Giarratana

- Feasibility Studies
- Master Plan Development
- Document Procurement & Updating
- Hydraulic Modeling

#### **SURVEY**

#### CAS Staff: Robert Keener, P.S.M., David Lookabill, Donald Drake

- Allocate Survey Crews
- Conduct Survey
- Develop Topographic/Boundary, Right-of-Way, Utility Survey
- Legal Description & Easement Recording
- Coordinate with Utility Locating Crews

#### CADD

#### CAS Staff: Mike Marenco, Miguel Rodrigues, Michael LaVella

Drafting/CAD Design

#### **SUBSURFACE UTILITY ENGINEERING -UTILITY LOCATES**

#### CAS Staff: James F. Driscoll, Alan Lopez

- Vacuum Potholes
- Electromagnetic Induction (EM) for tonable utilities
- 2-D Ground Penetrating Radar (GPR)
- 3-D Radar Tomography Scanning

#### **SRF ADMINISTRATION & GRANT FUNDING ASSISTANCE**

#### CAS Staff: Frank Vilar, P.E., Orlando Rubio, P.E., Keith Schriner

- Prepare SRF and/or Grant Applications
- . Coordinate with State (or Local) Administrators for loans & grants
- Provide support for Davis Bacon Wages and other reporting requirements





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## SECTION 6 - ORGANIZATIONAL STRUCTURE & RESPONSIBILITES

#### **CONSTRUCTION MANAGEMENT & INSPECTION**

CAS Staff: Frank Vilar, P.E., Keith Schriner, Tony Gomes, William Tanto, Mike Jones

- Schedule Pre-Construction Meeting
- Schedule Construction Progress Meetings
- Provide Inspection of Materials
- Provide Inspection during Construction
- Provide Daily Construction Log
- Update E-Builder Enterprise System (as required)
- Field Adjustments/Trouble Shooting
- Process Contractor Payments/Change Orders
- Develop Final Punch List
- Certification of Work/Permit Close-Out
- Project Close-Out

### **KEY SUBCONSULTANT PERSONNEL TO PERFORM SERVICES**











### **MUENGINEERS, INC. (STRUCTURAL ENGINEERING)**

Key Staff: Marcus Unterweger, P.E., S.I., LEED AP, Ricardo Madriz, P.E., S.I. LEED AP

- Lift & Pump Station Structures
- Road/Pedestrian Bridges
- Pipeline Aerial Crossings
- Seawalls
- Erosion control
- Pier/docks and other municipally owned structures
- · Other municipal building facilities
- Structural Inspections

# SMITH CONSULTING ENGINEERS, INC. (ELECTRICAL ENGINEERING) Key Staff: Larry M. Smith, P.E., Steve Hockman, Luther E. Fair, P.E.

- Electrical Engineering Services for Stormwater/Wastewater Lift Station Design/Rehabilitation
- Electrical Engineering Services for Mechanical/Electrical Controls
- Electrical Engineering Services for Street Lighting & Photometrics





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# SECTION 6 - ORGANIZATIONAL STRUCTURE & RESPONSIBILITES

## RADISE INTERNATIONAL, LLC. (GEOTECHNICAL ANALYSIS)

Key Staff:, Tom Mullin, P.E., Andrew Nixon, P.E., Akash Bissoon, P.E.

Geotechnical and Material Testing Services

# BERMELLO AJAMIL & PARTNERS, INC. (LANDSCAPE ARCHITECTURE, PUBLIC OUTREACH & PERMITTING SUPPORT)

Key Staff: Randy P. Hollingworth, Kirk Olney, RLA

- Median Beautification
- Landscape Plans
- Streetscape Plans
- Ancillary Architectural Services
- Parks & Recreational Facilities

#### Key Staff: Jose L. Lopez, P.E., PMP

- Public Outreach Services
- Permitting Support & Regulatory Compliance

## SHENANDOAH CONSTRUCTION CO. (PIPELINE INSPECTION SERVICES, REPAIRS & REHABILITATION)

Key Staff: Danny Dimura, Lenny Jaglarski, Staffin C. Zebarth

- Stormwater & Wastewater Collection System Pipe Inspection (CCTV) & Cleaning
- Emergency Water/Wastewater/Stormwater Pipe Repairs
- Wastewater Collection System Pipe Rehabilitation/Lining
- Stormwater Pipe Rehabilitation/Lining
- Sewer Manhole Rehabilitation





# SECTION 7 STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM





# SECTION 7 - STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM

## **FIRM OVERVIEW**

Craig A. Smith and Associates, Inc. (CAS) is a Florida Corporation licensed for the practice of Professional Engineering, Surveying, Utility Locates Services and Construction Management. CAS is a local South Florida firm with corporate headquarters located in Boca Raton and a Broward County office in Deerfield Beach.

#### OFFICE LOCATIONS

#### **Broward Office:**

277 Goolsby Blvd. Unit 4C Deerfield Beach, FL 33442 (954) 782 8222 Palm Beach Office: Corporate Headquarters 21045 Commercial Trail Boca Raton, FL 33486 (561) 314 4445





CAS was established in 1980. Since then, the firm expanded from its original, technical orientation in municipal engineering and surveying into a full service civil engineering practice with specialized expertise in engineering, surveying & mapping, grants/loan assistance, construction management, utility locates and CAD design & development.

FIRM SIZE – CAS's professional, technical and administrative personnel numbering 40+ people represent professionals in the fields of civil engineering, water and wastewater engineering, storm water engineering, surveying, mechanical engineering, construction engineering, grant specialists, utility locating, computer sciences, and finance. More specifically, CAS staff members consists of experienced registered professional engineers, professional surveyors, certified CADD technicians, GIS specialists, certified field inspectors, utility locators as well as competent administrative, clerical and accounting personnel, to provide the City with the expertise required to perform the duties requested under this contract.

**ORGANIZATION** - CAS is organized into five technical operating divisions each under the supervision of a Vice President or Director. These operating divisions are:



Engineers ● Surveyors ● Subsurface Utility Engineering 3D Subsurface Imaging ● Utility Coordination

SECTION 7 – STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM

- Civil Engineering
- CADD (Computer -Aided Design & Drafting)
- Construction Management

- Surveying
- Subsurface Utility Locates

FIRM PHILOSOPHY & EXPERIENCE - CAS is committed to providing its clients with cost-effective, timely, comprehensive, high-quality professional services in the practice of civil engineering, surveying, construction management, utility locating and grant/legislative services. This commitment to excellence is achieved through the development of a team spirit of service to clients. CAS is a full-service civil engineering firm and has extensive local South Florida experience in engineering design and construction management spanning over 40 years.

### **CAPABILITIES & CLIENT SERVICES**

Craig A. Smith & Associates (CAS) is a local South Florida client-oriented firm tailored to serving the needs of many governmental clients. We currently serve the City Pompano Beach along with numerous other Florida municipalities (counties, cities, towns, special districts and utility departments/authorities) similar to the City. CAS is highly experienced and qualified to perform consulting services with respect to Civil Engineering - specifically, Utility (Water & Wastewater) Engineering Drainage/Roadway Design and, Surveying, Permitting, Bidding Assistance, Construction Management, Subsurface Utility Engineering (Utility Locates), SRF loan administration and grant funding assistance as described in the Request For Letter of Interest (RLI). Additional services described in the RLI, such as landscape architecture, parks/recreational facilities, seawall and dock construction/repair, pipeline inspection, rehabilitation and emergency repairs will be provided by qualified subconsultants that will comprise the CAS Team. (Refer to the subconsultants' information in this section).

Our success can be exhibited by our tenure with our clients, many of which we have served for over 20 years. We put premium value on the opinions and input of the end users of our services, officials, staff and residents and strive to produce an end product that addresses their needs and expectations. CAS is committed to making clients successful by understanding their organization, methods of operation, challenges and achieving their objectives through a multi-discipline approach based on experience, innovation and teamwork. We pride ourselves in establishing long-term relationships with our clients by providing them with the ultimate in successful consulting engineering services. We believe in providing clear and concise face-to-face communication with clients. And any communication via phone, fax, email or other method shall be provided clearly and concisely. Response time to a client's request is usually within the hour if not by the close of the business day. CAS also strives to adopt platforms or software programs, such as **E-builder Enterprise**, that clients require or utilize for project management in order to increase efficiency and flow of work.

CLIENTS - Our 40+ years of experience gives us the perspective to provide services for large municipal projects (over \$200,000) as well as smaller projects (under \$200,000). More specifically, design and construction administration/management of water mains, stormwater and wastewater force mains, sanitary sewer gravity lines, inflow and infiltration studies/repairs, wastewater pump station rehabilitation, pump sizing/expansion improvements, water treatment plant design/processes including expansions and improvements, regulatory compliance, drainage outfalls, roadway design, stormwater management, swale, sidewalk and drainage improvements and other related services such as hydraulic modeling, water, sewer and stormwater master planning, technical studies or engineering reports as required. CAS has successfully completed numerous utility and road/drainage improvement projects for the City of Belle Glade, Indian Trail Improvement District, Sunshine Water



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## SECTION 7 – STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM

Control District, City of Sunny Isles, Glades County, City of Miami Beach, Town of Golden Beach and the Town of Pembroke Park. In addition, recent projects which included water main and wastewater collection system improvements were completed for the following municipalities, authorities, districts, utilities or other entities as follows: City of Margate, Bal Harbour Village, Town of Pembroke Park, Indian Trail Improvement District, Glades County/City-County Public Works Authority, Spring Lake Improvement District and Miccosukee Tribe of Florida. CAS is currently providing engineering services for three (3) drainage improvement projects and one (1) sanitary sewer improvement project for the City of Pompano Beach. For further details refer to Similar Project Experience in this section and Section 4 - References. We are currently providing professional engineering services to the following municipalities:

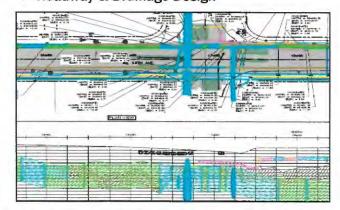
City of Moore Haven (since 1995)
City of Sweetwater (since 2000)
City of Belle Glade (since 2013)
City of Sunny Isles Beach (since 2013)
Spring Lake Improvement District (since 2001)
Town of Golden Beach (since 2000)
Village of El Portal (since 2003)
CCPWA Utility Authority (since 1994)

City of Pompano Beach (since 2015)
Hardee County (since 2000)
City of Lauderhill (since 2013)
City of Lake Worth Beach (since 2018)
City of Margate (since 1988)
Town of Pembroke Park (since 1987)
Sunshine Water Control District (since 2015)
Glades County (since 1993)

CIVIL ENGINEERING - CAS provides our clients with a full range of engineering consulting services. Our engineers and trained specialists have extensive experience in assisting municipalities and utility departments with daily engineering needs such as planning, design, permitting and construction of cost-efficient operational utility systems. CAS engineering consulting services include:

- Storm Water Management
- Storm Water Utilities
- Water Treatment & Distribution Systems
- Wastewater Collection/Transmission & Treatment
- Potable Water Treatment Systems
- Wastewater Pump Station Design
- Stormwater Pump Station Design
- Canal Dredging and Sediment Removal
- Surface Water Management
- Utility Permitting
- Water/Wastewater Treatment Plant Design/Rehabilitation
- Utility Pipeline Design & Relocation (Water, Wastewater & Reclaimed Water)
- Utility Master Planning
- Grant Funding Assistance

- Facility Planning
- Solid Waste Studies
- Solid Waste Disposal and Leachate Treatment
- Development Permitting
- Feasibility Studies
- Inflow & Infiltration Studies
- Construction Cost Estimate
- Construction Management
- Construction Observation and Certification
- Contract Administration
- Effluent Reuse & Disposal
- Sludge Treatment & Disposal
- · Roadway & Drainage Design





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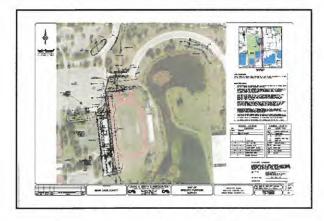


**SURVEYING** - CAS is one of South Florida tenured and respected surveying firms that provides complete land surveying services. Our surveying staff is comprised of licensed land surveyors who adhere to strict standards and give special attention to accuracy and detail. CAS utilizes the most up to-date electronic survey equipment such as Topcon and Trimble SC Robotic Total Stations, Trimble 5800 RTK Base/Rovers, Leica P 30 Laser Scanners, Recon 400 TDS, TSCE 2 and Ranger 500X Data Collectors along with Topcon ATC Levels and tablets. In addition, our survey crews have been trained based on engineering principles and implement daily quality control measures ensure that our clients receive the highest quality service and most accurate basemaps. CAS surveying services include:

- Mapping & Platting
- Boundary & Acreage Surveys
- Land Description Preparation
- Construction Surveys
- Subdivision Designs & Calculation
- GPS Mapping
- Route Surveys
- Canal Cross-Sections
- Drone Aerial Imagery and Surveys

- Parcel Description & Sketches
- Condemnation Surveys
- Highway Construction Surveys
- Quantity Surveys
- Accident Surveys
- As-Built Certifications
- Mean High Water Surveys
- Title Searches

CAS' "in-house" surveying capabilities eliminates the need for an additional subconsultant for this service and thus allows for more cost-effective and faster response to revisions or modifications to basemaps or scope of work as requested by the City or as required for the duration of the contract.







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## SECTION 7 – STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM

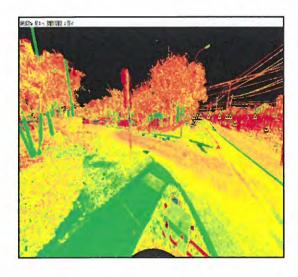




CADD (COMPUTER-AIDED DESIGN & DRAFTING) - CAS employs an on-staff Florida Certified American Design & Drafting Association CADD operator and an Autodesk Certified professional. Our CADD technicians prepare detailed drawings, layouts, exhibits, topographical maps, and graphic representations of survey information & engineering designs. Designs relate to engineering projects such as water, sewer, reclaimed water, paving and drainage systems. Craig A. Smith & Associates prides itself on keeping its workforce educated and equipped to handle today's most challenging and rewarding tasks. CAS is utilizing the latest AutoCAD software (Civil3D), custom-built AutoCAD systems and functions, as well as some industry-first hardware including 3D laser scanning technologies. In summation, the CADD systems CAS uses are:

- AutoCAD
- Autodesk 2019 Civil 3D
- Autodesk Map 3D

The City will benefit from CAS' experienced CADD staff which will work closely with project managers and City staff on assigned capital improvement projects and provide any technical support to City staff related to Autodesk Civil & Map 3D use.







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## SECTION 7 – STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM





SUE (SUBSURFACE UTILITY ENGINEERING) - CAS provides complete subsurface utility engineering and location services utilizing the latest in electronic verification, ground penetrating radar, vacuum excavation and GPS survey equipment. CAS can provide utility location information in various formats from simplistic 2D (two dimensional) to comprehensive 3D (three dimensional) Radar Tomography coupled with advanced software platforms (AutoCAD Civil 3D). CAS performs subsurface utility electromagnetic engineering providing utility mapping, designating (EMD), designating/ground penetrating radar (GPR), 3D radar tomography (RT), vacuum soft digs, and conventional and GPS utility surveys. CAS also provides utility coordination services, interfacing with utility owner/operators on behalf of engineers, planners and project designers. CAS provides comprehensive utility locating services for projects during the design phase and also during construction as needed. CAS' extensive SUE experience coupled with its EMD, 2D GPR and unique 3D RT capabilities will provide the City with accurate and comprehensive utility locates for complete survey basemaps regardless of quality of existing record drawings and thus superior engineering design for the City's utility projects. This will translate also to time saving and minimization of charge orders during construction by eliminating "unforeseen" field conditions. Refer to Section 14 -Subsurface Utility Engineering (SUE) for further information.







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## SECTION 7 – STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM





**CONSTRUCTION MANAGEMENT** - The CAS construction management team has a combined total experience of nearly 80 years. CAS field representatives are qualified to perform a full-service program, assuring total monitoring on-site to protect the client's interest on their projects. The CAS construction management team will keep the client informed of all facets of construction including, but not limited to, weekly progress notices, advice on any change orders and monthly monitoring of project finances. The construction management team of professionals provides extra attention to detail to ensure that all projects are built to specifications and are fully operational to meet the needs of our client. CAS construction management services include:

- Value Engineering
- Design Document Review
- Contract Administration
- Contract Documents
- Construction Management
- Construction Engineering & Inspection
- Cost & Payment Verification
- Bidding Coordination
- Contract Negotiation
- Residential/Commercial/Municipal Project Observations







SECTION 7 – STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM

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### **GRANT ASSISTANCE EXPERIENCE**

Since the early 1990's CAS has assisted our clients with securing grant funding and financing for multiple utility and infrastructure projects. We assisted our clients (municipalities, counties, special districts and utility authorities) in obtaining grants and/or loans through multiple funding sources such as: USDA, SRF, FEMA (HMGP), State Legislative Appropriations, SFWMD Cooperative Agreement Program, EPA 319 Program, CDBG, etc.

CAS assists our clients with the preparation of grant applications, supporting documents, such as preliminary engineering reports, environmental assessments, preliminary designs, project scope development, cost estimating, present worth cost analysis, cost benefit analysis, project beneficial use, etc.

CAS continually provides many of these services to our clients annually for state appropriation requests or during grant funding cycles. CAS provides grant evaluation for competitive grants requiring scoring and consultation with respect to the need for phasing of projects to achieve a high success rate from funding institutions.

CAS is continually involved with infrastructure utility funding assistance and has a **high success rate** in securing funding. We understand the nuances of "grantsmanship." CAS is committed to providing these services to all of our clients, with an estimated 70-80% of our on-going projects being funded through our assistance. CAS is also aware of the deadlines required in achieving these grants/loans and delivers grant assistance services on time.

Some of the capital improvement projects that CAS has acquired granting funding (indicating dollar amount secured and funding source) are as follows:

- Town of Golden Beach Stormwater Improvements \$9,500,000 (FEMA Funded); \$1,500,000 (SRF Funded)
- City of Lake Worth Beach: Lake Osborne Estates Water Main Improvements \$2,153,224 (SRF Funded)
- Spring Lake Improvement District (SLID): Design & Construction of a 70 Acres Stormwater Treatment Area (STA) – \$1,666,000 (25% SRF /75% FDEP 319 Funded)
- Spring Lake Improvement District (SLID): Design and Construction of a 80,000 GPD Wastewater Treatment Plant – \$3,300,000 (SRF Funded)
- City of Moore Haven: Design and Construction of a 500,000 GPD ultrafiltration (Zenon) system to expand an existing 750,000 GPD Lime Softening Water Treatment Plant – \$3,663,800 (USDA Funded)
- Town of Pembroke Park: Wastewater Master Plan for the rehabilitation of 22 Wastewater Lift Stations – \$100,000 (FDEP Legislative Funded)
- South Bay Water Treatment Plant and Water Distribution Improvements \$1,200,000 (USDA Funded)
- Port Labelle: Design and Construction of a 900, 000 GPD Reverse Osmosis Water Treatment Plant (ROWTP) - \$5,500,000 (USDA Funded)



# SECTION 7 - STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM

#### LOCAL STORMWATER/DRAINAGE PROJECT EXPERIENCE

CAS is familiar with the City's 2013 Stormwater Master Plan including regulations that will impact stormwater projects. CAS is currently in the design phase of three drainage improvement projects as follows: SW 2<sup>nd</sup> Street, US-1 & NE 14<sup>th</sup> Street and NW 16<sup>th</sup> Lane Drainage Improvements. The CAS Team has knowledge of Pompano Beach regulations and sea level forecasts in South Florida. Sea levels in South Florida are expected to rise 40 inches in the next 50 years. Capital projects funded in 2021 under the new State Legislation SB-178 shall consider the impact of rising sea levels and assess the vulnerability of their facilities including utilities, surface water management, and other infrastructures. More specifically this bill requires all public entities that commissions or manages a construction project within the coastal building zone (5000' + coastal control line from seasonal high water line) using State funds, to conduct a Sea Level Impact Project (SLIP) study before construction. The SLIP needs to be submitted to FDEP, signed by a licensed professional engineer, and it will be published on FDEP's website for at least 30 days before construction can start. This rule applies for all projects starting construction after July 1, 2021 and it is the responsibility of the construction company to abide by the new regulations. Some of the main items that the SLIP will cover are the following

- Assess the flooding, inundation and wave action damage risks faced by the structure over 50 years.
- The study must take into account the projected SLR and increase storm risks as well as land subsidence.
- Potential public safety and environmental impacts resulting due to failures for leakage of pollutants, electrocution and explosion hazards and floating of flying debris
- The study needs to include alternatives for the design and siting
- The study must analyze the risks and costs associated with maintaining, repairing and constructing of the structure.

The CAS Team will incorporate the necessary regulatory requirements into the design of the city's ongoing and future stormwater/drainage projects and provide updates to the Stormwater Master Plan as assigned.





## SECTION 7 – STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM

## SIMILAR PROJECT EXPERIENCE

### WATER DISTRIBUTION, SEWER COLLECTION SYSTEMS & FORCE MAIN PROJECTS







 Glades County – Washington Park Sanitary Sewer Improvements – Phase I, Moore Haven, Florida Status: On-going (Beginning Construction Phase)

**Prime Consultant: CAS** 

Key CAS Staff: Gene R. Schriner, James Orth, Keith Schriner, Robert Keener

Scope of Work: Survey, design, permitting, preparation of construction plans, cost estimates, contract documents, assistance during bidding, construction management and certification through project close-out for a new park/playground for residents, one (1) duplex submersible sanitary sewer lift station, 1,750-LF of FM, 9,630-LF of gravity sewer collection system, sewer services for approximately 120 existing units with the potential of servicing approximately 300 units at residential buildout. Phase I includes the construction of the wastewater lift station, force main and 800 linear feet of gravity sewer. This project is 50% CDBG funded with matching funds being provided by Glades County.

<u>Project Challenges & Approach:</u> Engineering analysis was made to determine the optimal feasible location of the wastewater lift station to maximize gravity sewer service connections prior to final engineering design.

Design Cost (including Construction Management): \$134,000

Construction Cost: \$615,000

City of Lake Worth Beach - Lake Osborne Estates Water Main Replacement Project - Phase I,
 Lake Worth, Florida

**Status:** On-going (Construction Phase – 75% Complete)

**Prime Consultant: CAS** 

Key CAS Staff: James Orth, Dimitrios Scarlatos, Frank Vilar, Robert Keener, James F. Driscoll, William Tanto

Scope of Work: Survey, utility locates, design, permitting, preparation of construction plans, cost estimates, contract documents, assistance during bidding, construction management and certification through project close-out for the replacement of approximately 16,400 linear feet of water main varying in size from 4" to 12" serving 228 homes in the Lake Osborne Estates residential area. The majority of the existing water mains and water services are located in the rear of properties and have exceeded their useful life, requiring relocation to the frontage of homes. Additional services include public outreach and preparation of application package for SRF funding. The contracted construction cost was approximately \$800,000 below the engineers estimate and SRF loan has been secured for the project. The project completion date has been



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## SECTION 7 – STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM

extended due to owner requested expansion to scope of work.

Project Challenges & Approach: Records drawings for this project are extremely limited. CAS performed utility locates and coordinated with City O&M staff where necessary to verify locations of existing water mains, valves and services and designed new water mains in a manner which minimized water service disruption to customers and reduced restoration impacts to roadways, driveways and landscaping. In addition, CAS through public informational meetings familiarized homeowners with the project scope and involved them during the design process by incorporating design elements such as location of water service lines and meter box location preferences on their property and addressed any other concerns during the design and construction phase. In addition, project construction scheduling (phasing) was clearly provided to homeowners well in advance of construction.

Design Cost: \$310,149

Construction Cost: \$2,618,649

Hardee County – Wauchula Hills Water Main Improvements – Phase VI, Wauchula, Florida

**Status:** On-going (Construction Phase – 60% complete)

**Prime Consultant: CAS** 

Key CAS Staff: Gene R. Schriner, Greg Giarratana, Keith Schriner, Robert D. Keener

<u>Scope of Work:</u> Survey, design, contract document development, permitting, bidding, construction management and observation through project close-out for the installation of approximately 1,000 linear feet of 6" water main, 4,000 linear feet of 8" water main, and 4,450 linear feet of 10 water main including roadway/driveway restoration including fire hydrants and valves, and connections to existing 4" and 12" water mains.

<u>Project Challenges & Approach:</u> Community outreach and coordination with residents for water service connections is essential for the successful completion of this project. Also close coordination with the contractor during construction has been maintained in order to ensure that driveway and roadway damage/restoration is minimized.

Design Cost (including Construction Management): \$100,426

Construction Cost: \$1,775,635

 Hardee County – Wauchula Hills Water & Sanitary Sewer Improvements – Phase V, Wauchula, Florida

**Status:** On-going (Construction Phase - 80% complete)

Prime Consultant: CAS

Key CAS Staff: Gene R. Schriner, Greg Giarratana, Keith Schriner, Robert D. Keener

<u>Scope of Work:</u> Survey, design, contract document development, permitting, bidding, construction management and observation through project close-out for the installation of approximately 7,500 linear feet of 8" water main including fire hydrants, one duplex submersible wastewater lift station, approximately 1,500 linear feet of 6" force main and approximately 5,000 linear feet of 8" gravity sanitary sewer.

<u>Project Challenges & Approach:</u> Community outreach and coordination with residents for water and sewer service connections is essential for the successful completion of this project. Also close coordination with the contractor during construction has been maintained in order to ensure that driveway and roadway damage/restoration is minimized.

Design Cost (including Construction Management): \$221,453

Construction Cost: \$2,068,956

City of Margate – 2018 Water Main Improvements, Margate, Florida

**Status:** On-going (Construction Phase – 50% complete)

**Prime Consultant: CAS** 



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# SECTION 7 – STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM

<u>Key CAS Staff:</u> James Orth, Greg Giarratana, Keith Schriner, Robert Keener, James F. Driscoll, Tony Gomes

Scope of Work: Survey, design, utility locates, preparation of construction plans and contract documents, permitting, bidding assistance, construction management and limited construction observation through project closeout/start-up services for the replacement of 2-inch galvanized steel water mains with 6-inch DIP at fifteen (15) different locations throughout the City including a total water main replacement of approximately 12,000 linear feet, GPR scanning, locates, test hole investigations, water service replacements, asbestos concrete pipe removal, fire hydrant replacement, fire hydrant spacing analysis and a valve shutdown plan.

<u>Project Challenges & Approach:</u> The project area is discontinuous and the water main replacements are being made in a corridor that is very congested with buried utilities. Comprehensive subsurface utility engineering was essential to determine a feasible new water main alignment. The project is being constructed in phases in order to minimize restoration impacts at any given time. CAS is also coordinating closely with City staff to address any resident concerns or complaints during construction.

**Design Cost:** \$212,280

Construction Cost: \$1,407,821

 Spring Lake Improvement District – Force Main & Water Main Installation Project to provide service to the New Wastewater Treatment Plant, Sebring, Florida.

Status: Completed 2019
Prime Consultant: CAS

Key CAS Staff: James Orth, Greg Giarratana, Keith Schriner, Robert Keener, James F. Driscoll,

Michael Jones

<u>Scope of Work:</u> Design, preparation of construction plans, contract documents, permitting, bidding, construction management and SRF funding assistance and administration through project closeout/start-up services for the construction of 9,505 linear feet of 8"-10" force main and water main to the New Wastewater Treatment Plant site. The project was 100% SRF funded. This project was completed on time and within budget.

Design Cost (including Construction Management: \$125,500

Construction Cost: \$750,000

City of Belle Glade – Torry Island Sanitary Sewer Extension, Belle Glade, Florida

Status: Completed 2019
Prime Consultant: CAS

Key CAS Staff: James Orth, Al Caruso, Robert Keener, James F. Driscoll, Willian Tanto, Michael

Jones

Scope of Work: Design, preparation of construction plans and contract documents, permitting, bidding, construction management through project closeout for the extension of the existing gravity sanitary sewer system at the Torry Island Campground and Marina. More specifically the project included expansion of the existing gravity sewer collection system with 131 sewer lateral connections to select campsites along Kentucky, Florida, Georgia, Main Street and Liars Island. Design included installation of a private duplex lift station, 152 linear feet of 2" PVC sewer force main, 1,546 linear feet of 8" gravity sanitary sewer with 8 associated manholes. Additional improvements included electrical service upgrades and hose bib installations at each campsite. This project was completed on time and within budget.

**Design Cost: \$183,200** 

Construction Cost: \$1,639,631



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## SECTION 7 - STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM

 Hardee County - Wauchula Hills Water & Sanitary Sewer Improvements - Phase IV, Wauchula, Florida

Status: Completed 2017
Prime Consultant: CAS

Key CAS Staff: Gene R. Schriner, Greg Giarratana, Keith Schriner, Robert D. Keener

Scope of Work: Survey, design, contract document development, permitting, bidding, construction management and observation through project close-out for the installation of approximately 6,125 linear feet of 8" water main and 5,277 linear feet of 8" gravity sanitary sewer including connection to 51 private residences and the decommissioning of septic tanks. This project was completed on time and within budget.

<u>Project Challenges & Approach:</u> Community outreach and coordination with residents for water and sewer service connections was essential for the successful completion of this project. Also close coordination with the contractor during construction was necessary in order to ensure that road damage/restoration was minimized.

Design Cost (including Construction Management): \$189,628

Construction Cost: \$1,249,013

 City-County Public Works Authority (CCPWA) - Avenue R Wastewater Collection/Conveyance System Improvements, Moore Haven, Florida

Status: Completed 2017 Prime Consultant: CAS

Key CAS Staff: Gene R. Schriner, Keith Schriner, Greg Giarratana, Robert Keener

Scope of Work: Survey, design, preparation of construction plans and contract document development, permitting, bidding, construction management, construction observation through project closeout/start-up services for the installation 1,200 linear feet of 8-inch FM replacement, one (1) 180-linear foot directional drill, seven (7) sanitary sewer manhole structures, 2,800 linear feet of gravity sewer, thirty-two (32) service laterals, fifty-two (52) clean-outs for residential hookups, roadway reconstruction. This project is a continuation of an existing system and part of a gravity sewer collection master plan which addresses infrastructure needs within the southeastern residential area of the City. This project was completed on time and within budget.

Design Cost (including Construction Management): \$47,280

Construction Cost: \$426,787

Miccosukee Tribe of Florida - Water Distribution System Improvements, Miami Dade, Florida

Status: Completed 2015
Prime Consultant: CAS

Key CAS Staff: Gene R. Schriner, Greg Giarratana, Robert Keener

Scope of Work: Survey, design, permitting, contract development, bidding services and construction oversight for the installation of 15,000 LF of 12" water main which included eight (8) 12" diameter horizontal directional drilling installations, one (1) 8" horizontal directional drill and new water service lines to residences. This project was completed on time and within budget.

Design Cost: (including Construction Management) \$516,000

Construction Cost: \$2,580,000



# SECTION 7 – STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM

## **WASTEWATER LIFT & PUMP STATION PROJECTS**







City of Margate - Lift Station No.7 Rehabilitation, Margate, Florida

<u>Status:</u> On-Hold as per Owner/Client's Request (Design Complete)

Prime Consultant: CAS

Key CAS Staff: James Orth, Greg Giarratana, Keith Schriner, Robert Keener, James F. Driscoll, Tony Gomes

Scope of Work: Design, preparation of construction plans and contract documents, permitting, bidding assistance, construction management and limited construction observation through project closeout/start-up services for the decommissioning the existing wet pit/dry pit lift station and converting to a duplex submersible station along with the installation of a new wetwell and valve vault. In addition, the installation of all stainless steel piping inside the proposed wet well, relining existing structures, force main replacement, new water service line and backflow preventer, fencing, and upgrading the electrical equipment including control panel and SCADA system. This project is a continuation of a design that was started in 2008 and CAS was tasked to update the design plans to current standards. Design was completed on time and within budget.

<u>Project Challenges & Approach:</u> This project consists of retrofitting the existing dry can wetwell into a terminal sewer manhole and installing a new wetwell within a congested utility area and nearby overhead powerlines. A tremie-pour installation may be the preferred method of wetwell construction for this project.

**Design Cost:** \$54,932

Construction Cost Estimate: \$ 560,000

City of Margate – East WWTP Dumping Station Rehabilitation, Margate, Florida

Status: On-Hold as per Owner/Client's Request (Design Complete)

**Prime Consultant: CAS** 

Key CAS Staff: James Orth, Greg Giarratana, Keith Schriner, Robert Keener, James F. Driscoll, Tony Gomes

Scope of Work: Design, preparation of construction plans and contract documents, permitting, bidding assistance, construction management and limited construction observation through project closeout/start-up services for the replacing/rehabilitation of the City's existing vacuum truck decant dumping station for storm, sewer and soft dig wastes. The project included a report outlining the different options, demolition of the existing site, utility research within the plant and improvements to the existing conveyance system. Design was completed on time and within budget.

<u>Project Challenges & Approach:</u> The project scope entails retrofitting of the existing pump station. Close coordination with the City's Plant Operator will be essential during the design process,



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because record drawings for the project area are outdated and incomplete. In addition, existing soil conditions are not conducive to the use of GPR or other radar scanning equipment for locating buried utilities.

<u>Design Cost:</u> \$62,239 <u>Construction Cost:</u> TBD

## City of Margate – East WWTP Triplex Lift Station Rehabilitation, Margate, Florida

**<u>Status:</u>** On-Hold as per Owner/Client's Request (Design Complete)

**Prime Consultant:** CAS

<u>Key CAS Staff:</u> James Orth, Greg Giarratana, Keith Schriner, Robert Keener, James F. Driscoll, Tony Gomes

**Scope of Work:** Design, preparation of construction plans and contract documents, permitting, bidding, construction management and limited construction observation through project closeout/start-up services for the removal and replacement of the station's existing pumps, checks, valves and control panel. **Design was completed on time and within budget.** 

<u>Project Challenges & Approach:</u> The project scope entails retrofitting of the existing pump station. Close coordination with the city's plant operator will be essential during the design process, because record drawings for the project area are outdated and incomplete. In addition, existing soil conditions are not conducive to the use of GPR or other radar scanning equipment for locating buried utilities.

<u>Design Cost:</u> \$53,619 <u>Construction Cost:</u> \$ TBD

#### City of Margate – Lift Station No.21 Rehabilitation, Margate, Florida

Status: Completed 2020 Prime Consultant: CAS

Key CAS Staff: James Orth, Greg Giarratana, Keith Schriner, Robert Keener, James F. Driscoll, Tony

Gomes

<u>Scope of Work:</u> Design, preparation of construction plans and contract documents, permitting, bidding, construction management and limited construction observation through project closeout/start-up services for the decommissioning the lift station's existing dry pit and retrofitting the existing wet pit into a duplex submersible lift station with above ground valves and piping; including the installation of a retaining wall, relining existing structures, FDOT MOT, new water service line and backflow preventer, fencing, and upgrading the electrical equipment including control panel and SCADA system.

<u>Project Challenges & Approach:</u> This project consisted of a lift conversion from a wet pit/dry pit to a submersible type station within a limited easement area and low overhead powerlines. Therefore, the design was modified to include above-grade piping, valves and fittings and the reuse of the existing wetwell.

**Design Cost:** \$60,990

Construction Cost: \$ 298,216

### Spring Lake Improvement District – Wastewater Treatment Plant Duplex Sanitary Sewer Lift Station, Sebring, Florida

Status: Completed 2019
Prime Consultant: CAS

Key CAS Staff: James Orth, Greg Giarratana, Keith Schriner, Robert Keener, James F. Driscoll,

Michael Jones

<u>Scope of Work:</u> Design, preparation of construction plans, contract documents, permitting, bidding, construction management and SRF funding assistance and administration through



## SECTION 7 – STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM

project closeout/start-up services for the construction of a new 15 HP duplex submersible lift station rated at 510GPM @ 67 TDH with SCADA system and backup power generator to service the new Wastewater Treatment Plant. The project was 100% SRF funded. This project was completed on time and within budget.

Design Cost: \$60,000 Construction Cost: \$250.000

City of Margate - Lift Station No.22 Rehabilitation, Margate, Florida

Status: Completed 2017
Prime Consultant: CAS

Key CAS Staff: James Orth, Greg Giarratana, Keith Schriner, Robert Keener, James F. Driscoll, Tony Gomes

Scope of Work: Design, preparation of construction plans and contract documents, permitting, bidding, construction management and limited construction observation through project closeout/start-up services for the decommissioning the existing wet pit/dry pit lift station and converting to a duplex submersible station along with installation a new wet well and valve vault. In addition, the installation of all stainless steel piping inside the proposed wet well, relining existing structures, manholes, gravity sewer, fencing, upgrading the electrical equipment, control panel and installation of a SCADA system.

Design Cost: \$18,488 Construction Cost: \$571,667

 Bal Harbour Village - Wastewater Pump Station No. 3 and Gravity Sewer Improvements, Bal Harbour, Florida

Status: Completed 2017 Prime Consultant: CAS

<u>Key CAS Staff:</u> Stephen C. Smith, William H. Landis, Greg Giarratana, Al Caruso, James F. Driscoll, Robert Keener, William Tanto

<u>Scope of Work:</u> Survey, utility locates, design, permitting, preparation of construction plans, cost estimates, contract documents, assistance during bidding, construction management and certification through project close-out for the installation of a new triplex submersible pump station with a 12-foot diameter wetwell with electrical controls building and approximately 1,350 linear feet of 18" gravity sanitary sewer. This project was partially grant funded and was completed on time and within budget.

Design Cost: \$147,860

Construction Cost: \$1.985,000



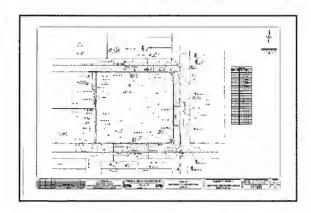




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# SECTION 7 – STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM

#### **SURVEYING & UTILITY LOCATING PROJECTS**





 City of Delray Beach - Lowson Boulevard Roadway & Drainage Improvements, Delray Beach, Florida

Status: Completed 2019

Prime Consultant: Kimley-Horn & Associates, Inc.

**Subconsultant: CAS** 

Key CAS Staff: Stephen C. Smith, James F. Driscoll, David Lookabill, Robert Keener

Scope of Work: Survey of all above ground visible improvements and utilities within the right-of-way of Lowson Boulevard (SW 10<sup>th</sup> Street) and 10 feet beyond the right-of-way line from the east right-of-way of Congress Avenue to the intersection of SE 6<sup>th</sup> Avenue. In addition, rims, pipe invert elevations, sizes and pipe materials were acquired for all existing drainage structures within the project limits. Subsurface utility engineering included soft digs at fifty (50) designated locations to verify depths, sizes and materials of conflicting buried utilities. This project was completed on time and within budget.

Project Cost: \$58,550

 City of West Palm Beach – East Central Regional Water Reclamation Facility Record Drawing Updates, West Palm Beach, Florida

Status: Completed 2019

Prime Consultant: Hazen & Sawyer, Inc.

Subconsultant: CAS

Key CAS Staff: Stephen C. Smith, James F. Driscoll, Robert Keener, David Lookabill, Donald Drake Scope of Work: Surveyed to establish horizontal control, benchmarks and locating all pertinent above ground visible improvements and utilities within the project area. Utility surface designation and mapping was performed utilizing 2D Ground Penetrating Radar, 3D Radar Tomography scanning and calibration soft digs for approximately 260,000 ft² of the facility to identify types, sizes and locations of buried utilities. Deliverables included full electronic files containing CAD, survey data and imagery collected and scanning performed for this project. All files were compatible with the Civil 3D CADD platform. This project was completed on time and within budget.

Project Cost: \$36,330

 Seacoast Utility Authority - Northlake Boulevard Water & Force Main Replacement Project -Phase i-III, Palm Beach Gardens, Florida

Status: Completed 2018



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Prime Consultant: Hazen & Sawyer, Inc.

**Subconsultant:** CAS

Key CAS Staff: Stephen C. Smith, James F. Driscoll, Robert Keener, David Lookabill, Donald Drake Scope of Work: Performed surveying, mapping and utility locating and provide a pre-design survey for 3 phases of a water distribution and sewer force main piping replacement project. CAS performed a complete right-of-way survey which included all existing above-ground/below-ground utilities, easements, trees, landscaping, property ownership and utility poles and wires. The project included 1.3 miles of Northlake Boulevard from Old Dixie Highway (SR 811) in Phase 1, 1 mile of US Highway 1 from Northlake Boulevard south to Silver Beach Road in Phase 2, and 1.7 miles of US Highway 1 from Northlake Boulevard north to the North Palm Beach waterway in Phase 3. 3D laser scanning was utilized to accurately capture point clouds in order to re-create all surface objects. This project was completed on time and within budget.

**Project Cost:** \$203,325

 Sunshine Water Control District West Outfall Canal Survey – Phase 1A, 1C & 2, Coconut Creek, Florida

Status: Completed 2017
Prime Consultant: CAS

Key CAS Staff: Gene R. Schriner, Robert Keener, James F. Driscoll

<u>Scope of Work:</u> CAS prepared 1.89 miles of topographic and route survey for the development of engineering dredging plans. CAS performed a complete survey beyond the limits of the canal's 170-foot right-of-way including 100-foot cross sections for canal depth, utility locations, elevations, trees and landscaping, and bridge pile configurations at Coral Springs Drive and Pump Station No. 2. This project was completed on time and within budget.

**Project Cost:** \$45,032

Miami-Dade Public Housing & Community Development – Elizabeth Virrick Public Housing Project
 Phase I & II, Miami-Dade County, Florida

Status: Completed 2017
Prime Consultant: CAS

Key CAS Staff: Stephen C. Smith, James F. Driscoll, Robert Keener, David Lookabill

Scope of Work: Provided field and office surveying services to produce a map of boundary and topographic survey for Public Housing and Community Development Elizabeth Virrick I and II public housing units. The scope of work included survey of all above ground, visible improvements with pertinent elevations to 25 feet beyond each property line, on-site elevations relative to the North American Vertical Datum (NAVD) of 1988 were collected on a minimum 50-foot grid, generation of 1-foot surface contours, trees 4" of greater were located and shown with their caliper sizes at breast height (ABH), outlines of onsite hedges and brush areas were located and shown, surface elevations adjacent to trees were shown, drainage and gravity sewer structure information was collected including pipe size, inverts, material and direction as available. Also crown elevations were gathered along each adjacent road at approximately 50-foot intervals. Utility locates were also performed to verify location of buried utilities within the project area. The survey was conducted relative to the Florida Minimum Technical Standards as defined by chapter MTS 5J-17, Florida Administrative Code. This project was completed on time and within budget.

**Project Cost:** \$9,266.17



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# SECTION 7 - STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM

Palm Beach County Water Utilities Department - Lake Region Water Treatment Plant (No. 11)
 Subsurface Utility Engineering (SUE), Palm Beach County, Florida

Status: Completed 2015

Prime Consultant: Baxter & Woodman, Inc. (former Mathews Consulting)

Subconsultant: CAS

Key CAS Staff: Stephen C. Smith, James F. Driscoll, Robert Keener

Scope of Work: Survey and subsurface utility engineering to locate existing utilities at water treatment plant site for record drawing updates. Utility locates included establishing benchmarks, horizontal control, depth, size, material and utility type including updated utility record drawings. This project was completed within budget though there were delays in completion due to misinformation provided by the owner regarding the soil conditions in the project area. (Muck within the project area was not removed as stated by the owner therefore locating of the buried utilities could not be accomplished by 2D or 3D radar scanning and thus extensive vacuum soft digs was required).

Project Cost: \$74,928





#### STORMWATER/DRAINAGE & ROADWAY PROJECTS







 City of Pompano Beach – SW 2<sup>nd</sup> Street Drainage Improvements, City of Pompano Beach, Florida <u>Status:</u> On-going (Design 100% Complete, Bidding Phase in Progress – Awaiting SRF Funding)
 <u>Prime Consultant:</u> CAS

Key CAS Staff: Stephen C. Smith, Frank Vilar, Robert D. Keener, Tony Gomes

Scope of Work: Engineering services for proposed drainage along SW 2nd Street between Dixie Highway and Cypress Road, SW 1st Avenue between SW 2nd Street and Atlantic Blvd. CAS met with City of Pompano Beach to discuss City concerns with flooding at the described project limits and identify potential solutions. It is anticipated the proposed drainage improvements could include a combination of new swale systems and new exfiltration trenches where feasible and utilization of existing stormwater outfalls. The project scope is limited to implementation of new stormwater management systems and does not include major roadway re-grading or full reconstruction. CAS services include surveying, utility locates services, engineering design, permitting, bidding and negotiating services, construction management services and final certifications through project closeout.

Project Challenges & Approach: The project's existing site conditions include low site grade elevations, lack of available land space and low soil permeability rates making it challenging to implement new stormwater management design elements such as swales, retention areas and exfiltration trench. Additional challenges included congested corridors with various existing utilities that make it difficult to accommodate proposed exfiltration trenches within the road right of ways. The project design approach included maximizing offsite discharge rates to maximum allowable rates using two existing outfalls, creating new swale areas and implementing exfiltration trenches to the greatest extent possible. The design also included improving stormwater conveyance by expanding the current drainage system to encompass the entire drainage areas through new interconnected catch basins and utilization of both existing stormwater outfalls.

**Design Cost:** \$143,833

Construction Cost Estimate: \$750,000

 Town of Pembroke Park - SW 25th Street Stormwater Improvements, Pembroke Park, Florida Status: On-going (Bidding Phase)

**Prime Consultant: CAS** 

<u>Key CAS Staff:</u> Stephen C. Smith, Frank Vilar, Robert D. Keener, Tony Gomes, William Tanto <u>Scope of Work:</u> Multi-phase stormwater improvement project totaling 14.34 acres. Project scope includes survey, hydraulic modeling, design, construction contract development and bidding services for Phase I and II which was a 2.44 acre drainage sub basin area. The purpose of the



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# SECTION 7 – STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM

project was to alleviate flooding in the Town of Pembroke Park by improving hydraulic conveyance throughout the existing stormwater drainage system serving the 14.34 acre study area. A hydraulic analysis to determine the acceptable level of service to the Town was performed by the development of an ICPR model for the project area. In order to develop the ICPR model, a comprehensive review of existing survey and utility information, available record drawings, aerial photography and field investigations were performed. After the model was completed, proposed recommendations were made for upsizing the existing stormwater drainage pipes by analyzing the ICPR results for reduction in peak stages and flood duration times in the pre and post conditions. Existing discharge pipes are proposed to be upsized from 24" to new 54" diameter drainage pipes.

**Design Cost:** \$79,000

Construction Cost Estimate: \$275,000 (Phase I & II)

City of Belle Glade – 2019 Road Resurfacing and Signage Upgrades (SCOP), Belle Glade, Florida

**Status:** Completed 2019 **Prime Consultant:** CAS

Key CAS Staff: James R. Orth, Keith Schriner, William Tanto

<u>Scope of Work:</u> The project consists of roadway improvements on 25 roads city-wide totaling approximately 6.4 miles and includes milling and resurfacing, pavement overlays, pavement marking and signage improvements. Professional services included design, permitting, bidding assistance and construction oversight. The project is funded by the FDOT Small County Outreach Program (SCOP). This project was completed on time and within budget.

**Design Cost (including Construction Oversight):** \$85,000

Construction Cost: \$1,506,991

City of Belle Glade – Orange Avenue Circle Roadway Improvements Belle Glade, Florida

<u>Status:</u> Completed 2019 <u>Prime Consultant:</u> CAS

Key CAS Staff: Gene R. Schriner, James R. Orth, Keith Schriner, Al Caruso, Robert Keener, James F.

Driscoll

Scope of Work: Provide survey, utility locates, engineering design and bidding assistance for roadway improvements to the Orange Avenue Circle Access Road from State Road 15 (Main Street) west approximately 1,200 linear feet and provide proper connections at all connecting streets. The proposed roadway will be a two-lane facility west of the FEC railroad tracks with 24 feet of pavement for two (2) 12-foot driving lane surfaces tapering from two lanes to three lanes east from the railroad tracks to Highway US 98 including a turning lane at State Road 15 and 4 feet of shoulder on each side. CAS successfully acquired a FDOT driveway connection permit for modifications to the existing access driveway. Design included drainage culverts. This project was completed on time and within budget.

**Design Cost:** \$59,600

Construction Cost: \$295,000

City of Belle Glade – SW 3rd Street Drainage Improvements, Belle Glade, Florida

Status: Completed 2018
Prime Consultant: CAS

Key CAS Staff: James R. Orth, Keith Schriner, William Tanto

<u>Scope of Work:</u> The project consists of removal and replacement of existing failing catch basins and CMP drainage pipes on approximately 350 linear feet of roadway in the downtown Belle Glade area. This project was completed on time and within budget.

**Design Cost (including Construction Oversight):** \$57,800

Construction Cost: \$294,486



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City of Moore Haven - Avenue R Stormwater Improvements, Moore Haven, Florida

Status: Completed 2018
Prime Consultant: CAS

Key CAS Staff: Gene R. Schriner, Orlando Rubio, Robert D. Keener, James F. Driscoll

Scope of Work: Survey, utility locates, design, preparation of construction plans and contract document development, permitting, bidding, construction management, construction observation through project closeout/start-up services for the installation of 1,200 linear feet of plastic swale liner (1/4 section of 12-inch ID smooth inner wall perforated black P.E. pipe), 350 linear feet of PVC culverts, ten (10) concrete headwalls, one (1) drainage structure, 4,000 square yards of S0D and the regarding of 4,000 square yards of swale. The project also involved the relocation of existing utilities. This project was 100% grant funded and completed on time and within budget.

Design Cost (including Construction Management): \$94,290

Construction Cost: \$393,304

• City of Sunny Isles - 174th Street Stormwater & Pavement Improvements, Sunny Isles Beach, Florida

<u>Status:</u> Completed 2017 <u>Prime Consultant:</u> CAS

Key CAS Staff: Stephen C. Smith, Orlando Rubio, Robert D. Keener, Tony Gomes

Scope of Work: Survey, utility locates, design, stormwater modeling, cost estimating, contract document development and permitting for road and drainage improvements along 174th Street which included reconstruction of existing roadway and drainage with a Hydrodynamic Separator (Downstream Defender) for water quality treatment and a Tideflex Checkmate Valve for tidal backflow prevention purposes, bike lanes, curbing, landscaping, parallel parking and traffic calming. The project achieved improved drainage and road pavement, reduction in traffic speed, enhanced pedestrian safety and street aesthetics. The project schedule was extended due to owner initiated change orders in the amount of \$765,536.13.

**Design Cost:** \$212,180

**Construction Cost:** \$3,682,392

• Town of Pembroke Park - SW 31st Avenue Stormwater Improvements, Pembroke Park, Florida

Status: Completed 2016
Prime Consultant: CAS

Key CAS Staff: Stephen C. Smith, Frank Vilar, Robert D. Keener, Tony Gomes, William Tanto Scope of Work: Survey and design of a stormwater management system to serve an existing 1.2 acre commercial/residential flood prone area in the Town of Pembroke Park. Proposed improvements included 2,050 linear feet of roadway improvements by re-grading the existing roadway from a crowned road to an inverted crown section and included addition of approximately 1,800 linear feet of exfiltration trench. Additional project related responsibilities included pavement marking & signage, permitting, cost estimating and preparation of the construction contract documents and bidding services. Construction services were also provided and included shop drawing reviews, review and approval of pay requests, general construction management, field inspections to review Contractor installation of proposed work and final certification to all regulatory agencies through project close-out. This project was completed on time and within budget.

**Design Cost:** \$56,000

Construction Cost: \$565,000



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# SECTION 7 – STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM

• Glades County - Kirby Thompson Roadway & Drainage Improvements, Moore Haven, Florida

Status: Completed 2016
Prime Consultant: CAS

Key CAS Staff: Gene R. Schriner, Robert D. Keener

<u>Scope of Work:</u> Survey, design, contract document development, permitting, bidding, construction management and observation through project close-out for roadway resurfacing, drainage and striping for approximately four (4) miles along Kirby Thompson Road from the Hendry County line to County Road 720. CAS utilized a new state-of-the-art design saving money and time through the use of "Full Depth Reclamation", a process which is cost effective, providing a stronger pavement with a longer life. This project was completed on time and within budget.

Design Cost (including Construction Management): \$195,610

Construction Cost: \$1,679,114

City of Belle Glade – 2016 Road Resurfacing and Safety Upgrades (SCOP), Belle Glade, Florida

Status: Completed 2016
Prime Consultant: CAS

Applicable Professional Categories RFQ 18-19-405: 119

Key CAS Staff: Stephen C. Smith, Frank Vilar

Scope of Work: The project areas totaled approximately 10,800 linear feet of roadway improvements which included milling and resurfacing, pavement reconstruction, pavement overlays, sidewalk installation, guardrail improvements and pavement marking and signage improvements. Professional services included design, permitting and preparation of bid documents. The project was funded by the FDOT Small County Outreach Program (SCOP) for road improvements at 6 different locations in City of Belle Glade. This project was completed on time and within budget.

Design Cost: \$206,954

City of Belle Glade – SE Avenue K Roadway and Drainage Improvements, Belle Glade, Florida

Status: Completed 2015
Prime Consultant: CAS

Key CAS Staff: Gene R. Schriner, Robert D. Keener

<u>Scope of Work:</u> The project consisted of survey, design and contract document development for a quarter-mile of roadway reconstruction pavement resurfacing, drainage pipe upgrades, swale restoration, striping and signage. Professional services included survey, engineering design and development of construction plans, cost estimates, preparation of bid schedule and bidding assistance.

**Design Cost:** \$37,340

City of Belle Glade –NW Avenue H Roadway and Drainage Improvements, Belle Glade, Florida

Status: Completed 2015
Prime Consultant: CAS

Key CAS Staff: Gene R. Schriner, Robert D. Keener

<u>Scope of Work:</u> The project consisted of survey, design and contract document development for a half-mile of roadway reconstruction pavement resurfacing, drainage pipe upgrades, swale restoration, striping and signage. Professional services included survey, engineering design and development of construction plans, cost estimates, preparation of bid schedule and bidding assistance.

Design Cost: \$48,725



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## SECTION 7 – STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM

City of Moore Haven Stormwater System Improvements, Moore Haven, Florida

Status: Completed 2015
Prime Consultant: CAS

Key CAS Staff: Gene R. Schriner, Orlando Rubio, Robert D. Keener, James F. Driscoll, William Tanto Scope of Work: Planning, survey, utility locates, design, permitting bidding assistance and construction management and inspection services for The Ranch Lakes Estates Improvements Project for the City of Moore Haven which consisted of the construction of a gravity stormwater drainage system along with two master stormwater pump stations including force mains and canal dredging. Construction included the installation of 7,103 linear feet of HDPE drainage pipe ranging in diameter from 15-inch to 48-inch, 1,044 linear feet of force main, 76 drainage structures and two duplex stormwater pump stations. This project was completed on time and within budget.

Design Cost (including Construction Management): \$271,175

Construction Cost: \$2,031,000

 City of Miami Beach - Palm & Hibiscus Islands Infrastructure Improvements Project, City of Miami Beach, Florida

Status: Completed 2015

Prime Consultant: Wade Trim Associates, Inc.

Subconsultant: CAS

Key CAS Staff: Stephen C. Smith, Orlando Rubio, Tony Gomes

<u>Scope of Work:</u> Drainage, roadway and stormwater pump station design, preparation of construction plans for design-build team, permitting, coordination with team members, construction observation through project closeout for infrastructure improvements consisting of water main upgrades, utility relocation, new drainage systems with three (3) stormwater pump stations along with Hydrodynamic Separators (Downstream Defenders) for water quality treatment and Tideflex Checkmate Valves for tidal backflow prevention purposes, landscaping and roadway reconstruction to address sea level rise. This project was completed on time and within budget.

Design Cost: \$194,000

Construction Cost: \$8,000,000



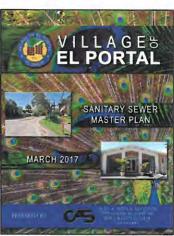




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#### WATER RESOURCE & STORMWATER/SANITARY SEWER MASTER PLANNING PROJECTS





City of Pompano Beach Non-Sewer Area C Sanitary Sewer Study, Pompano Beach, Florida

Status: Completed 2019
Prime Consultant: CAS

Key CAS Staff: Stephen C. Smith, Frank Vilar, Robert D. Keener

Scope of Work: CAS prepared an engineering design report to explore the various options available for providing sewer service to approximately 62 acres comprising of a light industrial/small commercial area where a number of the properties have little or no access to public streets and limited right-of-way for the installation of a sanitary sewer system. The work included survey of approximately 1,400 linear feet of the subject area and utilized GPS equipment of data collection in both the horizontal and vertical planes creating a basemap of the project area with building floor, road and parking lot elevations. Based on the findings and data collected CAS prepared a report outlining design criteria, assumptions, baseline data, project cost estimates and included a summary of the findings with proposed design alternatives clearly outlined with exhibits. The Sanitary Sewer Study was completed on time and within budget.

Project Cost: \$44,540

Sunshine Water Control District West Outfall Canal Improvements - Phase I & 1A, Coconut Creek,
 Florida

Status: Completed 2017
Prime Consultant: CAS

Key CAS Staff: Gene R. Schriner, Orlando Rubio, Robert D. Keener

Scope of Work: The West Outfall Canal is the primary conveyance canal for the Sunshine Water Control District's west basin serving 3,361-acres. The dredging project improved stormwater conveyance to Pump Station No. 2 by widening and deepening the existing canal to improve flood protection to the West Basin. The project entailed the removal of 19,500 cubic yards of material to the targeted bottom elevation for the entire canal. The channel modifications improved conveyance and allowed the pump station to perform more efficiently by reducing headloss in the canal. Phase I of the project included dredging 2,900 linear feet of the overall 10,200 linear feet West Canal. The project also included public outreach with individual homeowners to remove encroachments within the canal right-of-way. This project was completed on time and within budget.

**Design Cost:** \$175,000

Construction Cost: \$3,000,000



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Spring Lake Improvement District Stormwater Treatment Area Project, Sebring, Florida

Status: Completed 2017
Prime Consultant: CAS

Key CAS Staff: Gene R. Schriner, Orlando Rubio, Robert D. Keener

<u>Scope of Work:</u> Survey, design, stormwater modeling, cost estimating, contract document development and permitting for the construction of a 70 acre stormwater treatment area (STA) to provide additional water quality treatment benefits prior to discharging into Arbuckle Creek and provide added storage during rain events thus reducing flooding. Secured grants for this project were as follow: State Appropriation \$416,000 and two 319 FDEP grants \$1,250,000. The project was completed on time and within budget.

**Design Cost:** \$462,560

Construction Cost: \$3,304,579

Village of El Portal Sanitary Sewer Master Plan, El Portal, Florida

Status: Completed 2017
Prime Consultant: CAS

Key CAS Staff: Stephen C. Smith, Orlando Rubio, Greg Giarratana, Al Caruso, Robert D. Keener Scope of Work: The Sanitary Sewer Master Plan was a comprehensive report to define priority areas and determined corrective actions required to convert from a decentralized wastewater treatment system (septic system) to a new sanitary sewer gravity collection system with lift stations. The Master Plan also included a comprehensive survey base map for the entire village, hydraulic sewer modeling and the overall design of eighteen phases of construction. The sanitary sewer systems were developed using best management practices, current levels of service, and investigated various funding sources. The Master Plan was completed on time and within budget.

Project Cost: \$75,000

Village of Biscayne Park Stormwater Master Plan, Biscayne Park, Florida

Status: Completed 2016
Prime Consultant: CAS

Key CAS Staff: Gene R. Schriner, Orlando Rubio, Albert J. Caruso, Robert Keener

Scope of Work: The Stormwater Master Plan was a comprehensive report to define priority areas, determined corrective actions required to resolve flooding conditions and established a level of service. The Master Plan also included a comprehensive survey base map for the entire village including stormwater modeling and the design of five stormwater networks that would take into account future sea level rising. The stormwater systems were developed using best management practices while addressing water quality and water quantity concerns. The estimated total cost of the village's stormwater improvements were estimated at \$13.08 Million. The Master Plan was completed on time and within budget.

**Project Cost: \$134,500** 



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Bal Harbour Village Stormwater Master Plan, Bal Harbour, Florida

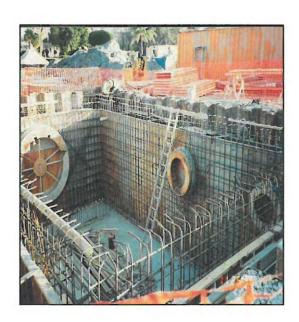
Status: Completed 2015
Prime Consultant: CAS

Key CAS Staff: Stephen C. Smith, William H. Landis, Albert J. Caruso, Orlando Rubio, James F.

Driscoll, Robert Keener

Scope of Work: A comprehensive CIP project within the Village included roadway and stormwater elements that identified and determined corrective actions required to resolve existing flooding conditions throughout the Village. The Master Plan included preliminary survey and calculations, drainage and roadway design that would take into account future sea level rising, and preliminary cost estimates in the development of new stormwater systems, through best management practices, while addressing water quality and water quantity concerns. The estimated total cost of Village-wide road and stormwater improvements was \$15.9 Million. The Master Plan was completed on time and within budget.

**Project Cost:** \$136,675





#### **KEY CAS PERSONNEL EXPERIENCE**

#### **MANAGEMENT & ADMINISTRATION**

Stephen C. Smith, P.E., Senior Vice President & COO/Owner. Mr. Smith's responsibilities include management of daily business operations for 40+ member civil engineering and surveying firm with gross sales of \$5.5+ million. Oversee all areas of business including engineering, surveying, construction management services, accounting and human resources. He ensures proper allocation of resources, staffing, financial management, quality control and timely project completion. Mr. Smith managed the survey, utility locating, design and construction of approximately 15,000 linear feet of 6"-12" water mains for the Town of Golden Beach as part of a complete retrofit of the town's entire existing water distribution system. In addition, Mr. Smith was responsible for the master planning, project management, resource allocation and quality assurance of the stormwater design, as well as the project management of stormwater construction projects for the City of Sweetwater, Miami-Dade and the City of Oakland Park. He has extensive experience in the design and management of roadway improvement projects as well. Mr. Smith was responsible for the Andrews Avenue Widening and Intersection Improvements in Broward County and roadway widening and intersection improvements for Biscayne Boulevard from NE 163rd Street to 203rd Street (along with stormwater improvements) and the 174th Street Stormwater & Pavement Improvements for the City of Sunny Isles Beach. Mr. Smith will be the Principal-In-Charge and will be ensuring that the necessary resources and staff are provided for each assigned project throughout the duration of the contract.

Gene R. Schriner, P.E., President. Mr. Schriner has over 40 years experience and is responsible for the business development of the 40+ member civil engineering and surveying firm with gross sales of \$5.0 million. Mr. Schriner initiates business development opportunities, provides quality assurance/quality control, client coordination and manages client contracts while overseeing daily operations of the firm. Mr. Schriner has also been involved with securing and developing over 20 municipal client contracts throughout South Florida. Mr. Schriner has extensive experience with the conceptual design and planning of water distribution and wastewater transmission/collection and/or treatment plant projects. Mr. Schriner managed the master planning, modeling, design and construction of approximately 114 miles of 4"-12" water mains throughout the Port LaBelle in Hendry County to supply potable water service to local residents. Mr. Schriner also managed the preliminary planning, design, bidding and construction oversight of 91,200 linear feet of 12"-30" water distribution mains as part of Palm Beach County Water Utility's Lake Region 12" Water Main Transmission Project to serve the cities of Pahokee, Belle Glade and South Bay. In addition, Mr. Schriner managed the construction of the Moore Haven Phase I-III Sewer System Improvements which included the construction of a 90,000 GPD wastewater treatment plant, two (2) master pump stations, over two (2) miles of gravity sewer collection system and two (2) miles of force main. As County Engineer for Okeechobee County, District Engineer for Spring Lake Improvement District and Sunshine Water Control District, Mr. Schriner has been responsible for the direction of all County and District related projects including development review, County and District wide stormwater improvements as well as local and state roadway improvements. Mr. Schriner has been directly involved with the development of three (3) 80 acre+ industrial parks including water, sewer, paving and drainage design and project funding. Mr. Schriner will be the Quality Assurance/Quality Control officer for assigned projects.



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# SECTION 7 – STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM

#### **ENGINEERING**

Frank Vilar, P.E., Senior Supervising Engineer. Mr. Vilar has over 23 years of professional experience managing and designing numerous public and private sector utility/infrastructure projects throughout the South Florida region. He has extensive experience in the design of water and wastewater systems. design of storm water management systems, site plan design and development, permitting through various South Florida Regulatory Agencies, including preparation of contract documents and specifications for bid, construction management, inspections and final project certification services. Specific project related experience includes design of water and wastewater improvements for the City of Fort Lauderdale, rehabilitation of wastewater lift stations in City of Coconut Creek and North Lauderdale, neighborhood improvements for the Westgate CRA, stormwater improvement projects for Town of Pembroke Park and work on various land development projects for Seminole Tribe of Florida. Coscan Homes, Indian Trail Improvement District and Waste Management Inc. of Florida, Mr. Vilar's previous professional experience also included administering the NPDES Program for the City of Miami. Mr. Vilar is currently responsible for the project management and design of the SW 2nd Street Drainage Improvements, Sanitary Improvements for Non-Sewer Area C and US-1 and NE 14th Street Drainage Improvements for the City of Pompano Beach. Mr. Vilar will serve as the Project Manager and client liaison for the duration of the contract.

Orlando Rubio, P.E., Senior Supervising Engineer, will serve as a Senior Design Engineer. Mr. Rubio has over 30 years of experience as a designer of various surface water management systems with established criteria, engineering principles, and normal construction practices. Mr. Rubio conducts field and office visits with clients, permitting agency staff, and other project coordination as necessary. In the past, Mr. Rubio has worked for Broward County in the Water Resources Division. Mr. Rubio has extensive experience reviewing complex surface water management license applications consisting of administrative and legal data, engineering reports, computer program output and construction plans. Mr. Rubio conducted review in accordance with established criteria, engineering principles, and normal construction practices to produce a written report in a prescribed format. Mr. Rubio coordinated reviews with the SFWMD, FDEP and/or County agencies and the delegation of the Environmental Resource Permitting program for Broward County from SFWMD and FDEP. Mr. Rubio is proficient in ICPR stormwater modeling. Mr. Rubio also has extensive roadway and stormwater design experience in South Florida with respect to both gravity and pumped drainage systems. Mr. Rubio will serve as Assistant Project Manager and will provide stormwater/drainage, roadway engineering design and construction management services along with permitting and hydraulic modeling for assigned projects on an as-need basis.

Greg Giarratana, Senior Supervising Engineer. Mr. Giarratana has extensive experience (over 40 years) with planning, permitting, designing and construction management of various municipal civil/environmental engineering projects and specializes in design of water/wastewater distribution and sanitary sewer collection systems including treatment facilities, hydraulic modeling and wastewater lift stations. Mr. Giarratana has recently successfully worked with the City of Moore Haven and Hardee County in provided the planning, design, permitting, bidding and construction management services for their water distribution (over 20,000 linear feet) and wastewater system expansion (over 30,,000 linear feet of combined force main and gravity sewer lines) along with associated roadway improvements. Mr. Giarratana was also the project manager for the Wauchula Hills Service Area Water Main & Force Main Project which included the design, hydraulic modeling, permitting, surveying and construction management of a \$3.5 million pipeline project consisting of 16,200 feet of 12" HDPE water mains, 7,250 feet of 10" force main and 1,630 feet of 8" force main. Mr. Giarratana was also directly responsible for the design, permitting and construction management of the Village Bal Harbour Master Triplex Wastewater Lift Station Rehabilitation and 1,350 linear feet of associated 18" gravity sewer



line. In addition, he designed and managed through project closeout the installation of 5,060 linear feet of wastewater force main replacement (replacing existing 12" asbestos concrete pipe with 20" ductile iron pipe) for the City of Margate. Mr. Giarratana was also responsible for the design of a water treatment plant including new potable water well pumps, degasifiers, carbon vessels, a new utility office/storage/high service pump station building, ground storage tank and 12 miles of water main construction at the Miccosukee Tribe of Indians located in the Florida Everglades. Mr. Giarratana also retains previous water and wastewater system design experience with the City of Belle Glade, City of Lauderhill and Palm Beach County Water Utilities. Mr. Giarratana will be providing engineering design, construction management and technical services relating to water distribution, wastewater conveyance & collection system and water/wastewater treatment improvements for the duration of the contract.

Al Caruso, E.I., Project Engineer, has over 30 years of experience and is responsible for the design of various components of land development and engineering projects, including the design of wastewater force mains, sanitary collection systems, reclaimed/reuse mains and potable water distribution pipe lines. Mr. Caruso is also involved in detailed design calculations, cost estimates and certifications, feasibility studies for projects including bidding services and close-out packages. He also is responsible for project coordination with clients, municipalities, permitting agencies and contractors to ensure that projects meet their budget goals and are completed within the scheduled timeframe. In addition, Mr. Caruso has extensive experience in developing utility master plans and providing technical reporting to regulatory agencies for water and sewer projects. Mr. Caruso also has extensive experience in document preparation for grant funding assistance. Mr. Caruso will provide any additional design support, technical report writing and grant administration assistance (as needed) for the duration of the contract.

Kelth Schriner, Design/Field Engineer. Mr. Schriner received a degree of Bachelor of Science in Civil Engineering from the University of Central Florida with focus in water resources. Mr. Schriner has been responsible for the design and construction management of several wastewater lift stations at the City of Margate, Hardee County's Wauchula Hills Gravity Sewer Extension Project – Phase V, City-County Public Works Authority (CCPWA) - Avenue R & 4<sup>TH</sup> Street Sanitary Sewer Extension consisting of 2,550 linear feet of 8" gravity sanitary sewer including seven (7) manholes and Spring Lake Improvement District Wastewater Treatment lift station and force installation. Mr. Schriner also provided technical support for an SRF funding application for over \$2 million associated with the City of Lake Worth Beach's Lake Osborne Estates Water Main Replacement Project which entails the replacement of over 16,000 linear feet of old asbestos concrete and galvanized steel water mains. Mr. Schriner will be providing design and construction management services for water distribution systems, wastewater conveyance/collection systems and grant/loan funding assistance support.

#### **SURVEY & MAPPING**

Robert D. Keener, P.S.M., Vice President of Surveying, has been licensed in the State of Florida for 22 years and with over forty (40) years of surveying experience in utility design, construction and master planning. As Vice President of the CAS Survey Division, Mr. Keener heads a qualified survey staff that includes both CADD and field personnel. His staff is proficient with the latest survey technology available to the industry. Mr. Keener will serve as Principal Surveyor for all surveys and will coordinate all survey activities with various disciplines as needed. All utility related components such as 2D Ground Penetrating Radar, 3D Radar Tomography, Utility Surface Mapping, Utility Excavations, etc. will be certified by Mr. Keener. Mr. Keener holds a Florida Surveyors and Mappers License and is a member of the Florida Surveying and Mapping Society of Florida. Mr. Keener will be responsible for coordinating all surveying and mapping efforts for the duration of the contract.



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## SECTION 7 - STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM

#### CADD

Mike Marenco, CADD Manager, has 15 years of experience in computer aided design and drafting as it applies to survey, engineering and utility construction fields. Mr. Marenco is responsible for managing the CADD staff and ensuring deadlines for engineering or survey basemap plans are met. Mr. Marenco is also proficient in preparing detailed drawings, layouts, exhibits, topographical maps, and graphic representations of survey information as well as engineering projects such as water distribution, sewer collection, paving and drainage systems. Mr. Marenco will be responsible for coordinating with the engineering and survey staff for all drafting-related tasks for the duration of the contract.

#### CONSTRUCTION INSPECTION

Tony Gomes is a Senior Field Representative. Mr. Gomes has over 40 years experience and provides assistance to the Project Engineer for the inspection of work accomplished and materials furnished by contractors, with specialized expertise in utility pipeline (water and wastewater), roadway, drainage and bridge construction. Mr. Gomes will be providing construction inspection services for the duration of the contract.

William Tanto is a Project/Field Utility Coordinator. Mr. Tanto provides assistance to the Project Engineers for the inspection of work accomplished and materials furnished by the contractor with specialized expertise in utility pipeline (water and wastewater), roadway, drainage and bridge construction. Mr. Tanto will be providing construction inspection services for the duration of the contract.

#### SUBSURFACE UTILITY ENGINEERING (UTILITY LOCATES)

James F. Driscoll is the Director of Subsurface Utility Engineering (SUE). Mr. Driscoll has 29 years of experience in the engineering, survey and utility locates fields. Mr. Driscoll coordinates the utility locate crews that perform horizontal locates as well as vertical utility locating using both vacuum pothole excavation, electromagnetic induction (EM) for toned utilities, 2-D ground penetrating radar (GPR) and 3-D scanning (radar tomography). Mr. Driscoll will be responsible for coordinating all aspects of subsurface utility engineering (utility locates) as needed for the duration of the contract.

Alan Lopez is the *Utility Locates (SUE) Field Supervisor*. Mr. Lopez has 18 years of experience in the survey, utility locating and utility construction fields. He has performed or overseen in excess of 5,000 vacuum soft digs and conducted thousands of 2-D ground penetrating radar studies and 3-D radar tomography scanning's for buried utility mapping efforts. Mr. Lopez will be responsible for providing field supervision for subsurface utility engineering (utility locates) services as needed for the duration of the contract.

Note: Please refer to Section 8A - Prime Consultant Resumes of Key Personnel for further information.



#### CAS TEAM (SUBCONSULTANT) EXPERIENCE

The CAS Team is an experienced team which has worked together to successfully complete numerous municipal utility and infrastructure capital improvement projects throughout South Florida.



Smith Engineering Consultants, Inc. (SEC) is a multidisciplined consulting engineering firm specializing in electrical, instrumentation and SCADA system designs for Water/Wastewater, Stormwater and lighting projects. SEC has a niche for providing

professional services on such civil engineering projects. Their experienced staff have in-depth knowledge of energy, water, telecommunications, transportation and architectural projects. Their costeffective and energy efficient designs provide facility owners with security in the knowledge that their operating expenses are among the lowest in the area. Whether a client's project calls for new construction or the renovation of aging facilities, their staff can provide planning and design services, cost estimates, and construction phase services. SEC has built a deserved reputation for completing assignments in a cost-effective and timely manner. You can count on SEC to provide the detailed plans and specifications necessary for smooth construction, start-up, and operation. They interface with design engineers from complimentary disciplines during the design process to review design principles and to assist in the preparation of design drawings and specifications for specific project needs. The firm will be providing all electrical engineering work related to lift and pump stations, street lighting and other facilities necessary to complete projects under this contract. SEC recently provided electrical engineering services for CAS which included site lighting and electrical plans for 2 multi-purpose fields, an amphitheater and associated parking lot for the Acreage Community Park South Expansion project, electrical and control panel upgrades for Sun-N-Lake Improvement District's Mantanzas Wastewater Lift Station and Glades County's Washington Park Wastewater Lift Station. Below is a list of municipal clients in the Tri-County area that Smith Engineering Consultants has provided electrical engineering services for utility and infrastructure projects.

City of Atlantis City of Homestead City of Boca Raton City of Pompano Beach City of Delray Beach **Town of Jupiter** Town of Manalapan City of Lake Worth Beach Northern Palm Beach County Improvement District Palm Beach County Solid Waste Authority Indian Trail Improvement District Town of Palm Beach Palm Beach County City of West Palm Beach Village of Royal Palm Beach Village of Wellington **Broward County Aviation Department** City of Ft. Lauderdale City of Boynton Beach City of Hallandale Beach





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# SECTION 7 – STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM

City of Doral

City of Belle Glade

**Beeline Community Development District** 

Town of Lantana

City of Palm Beach Gardens

City of Sunrise

City of Fort Lauderdale

City of Miami Beach

Lake Worth Drainage District

Florida Department of Transportation

South Florida Water Management District

Below is a sample list of successfully completed water, wastewater and stormwater related projects:

#### Palm Beach County

WTP No. 8 Wellfield Cable Replacement

WTP No. 8 UPS Installation

**CROC Generator to SCADA Connection** 

PS 5229 Arc Flash & Condition Assessment

PS's 9S. 9N. & 5 Arc Flash & Condition Assessment

PS's 4100, 5241, & Mecca Arc Flash & Condition Assessment

**SRWRF Biogas Generators** 

Pahokee WWTP Arc Flash & Condition Assessment

Belle Glade WWTP Arc Flash & Condition Assessment

WTP No. 8 Arc Flash & Condition Assessment

SRWRF PLC Programming

Belle Glade WWTP PLC Programming

2016 Telemetry Information Management System (TIMS) Lift Station Upgrades, Design and

**Construction Phase Services** 

2017 Telemetry Information Management System (TIMS) Improvements, Design and Construction

**Phase Services** 

**WUD Electrical Safety Plan** 

**SRWRF PLC Programming** 

**SRWRF Electrical Master Plan** 

Belle Glade and Pahokee WWTP Electrical Switchgear Assessment

Morikami SCADA Tower Design and Construction Phase Services

Miscellaneous Services (Morikami Park Pump Station, Other smaller projects)

#### City of West Palm Beach

Lift Station No. 5 Electrical Service Relocation

Lift Station No. 75 Improvements

Lift Station No. 4, 7, and 153 Improvements

Lift Station No. 74 Improvements

Lift Station No. 44 Improvements

Renaissance Project Stormwater Treatment and Pump Station

Water Treatment Plant Generator Replacement

#### **Town of Jupiter**

R.O Well No. 12 Acid Spill Report







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SKILLS AND EXPERIENCE OF PROJECT TEAM

**SECTION 7 - STATEMENT OF** 

N. Central Pump Station VFD's WTP High Service Pumps Replacement WTP Wells Installation WTP Transfer Pump Installation

#### Town of Palm Beach

Wastewater Flow Meter Installation Stormwater Pump Stations D-6 & D-7 Stormwater Pump Station D-10 Stormwater Pump Station D-9 El Brillo and Jungle Road Lift Station Generators

#### Village of Wellington

Stormwater Pump Stations 3, 6, & 7 VFD Installations Stormwater Pump Stations 4 & 8 VFD Installations Binks Forest Lift Station Water Level Monitoring Sites Village Utilities Standards Design Update Village Royale Lift Station Multiple Village Lift Station Evaluations



George T. Lohmeyer WWTP Effluent Pumps VFD Replacement Peele-Dixie WWTP Electrical Service Modifications Fiveash WTP Backwash Pump Replacement George T. Lohmeyer WWTP Arc Flash Study



SEC also has in-depth knowledge of lighting design projects. Their cost-effective and energy efficient designs provide facility owners with security in the knowledge that their operating expenses are among the lowest in the area. Whether projects require new construction or the renovation of aging facilities, SEC staff can provide planning and design services, cost estimates, and construction phase services related to street lighting projects. They have extensive experience in the following areas of electrical engineering design applicable to lighting projects: electrical service and distribution design; conventional, decorative, and high mast lighting design (including illumination calculations (photometrics)); signalization (including signal timing, cable diagrams, system quantities and conduit sizing calculations, and programmable logic controller integration); and electrical power systems analysis (including voltage drop calculations, short-circuit coordination, and arc-flash).

SEC has established a reputation for completing assignments in a cost-effective and timely manner. They have accomplished this through innovative thinking, careful planning, and professionals who believe in quality and hard work. You can count on SEC to provide the detailed plans and specifications necessary for smooth construction, start-up, and operation. SEC has completed numerous successful lighting projects in the Tri-County area.

Smith Engineering Consultants, Inc. is a **Certified CBE firm with Broward County** and will be providing electrical engineering services for the duration of this contract.





Founded in 1997, RADISE International, L.C. (RADISE) specializes in providing Geotechnical Engineering, Materials Testing and Inspection Services. RADISE has a staff of 64 including local professional engineers, field and laboratory technicians, geotechnical drillers, inspectors and support staff servicing Miami Dade, Broward and Palm Beach Counties. Our senior staff has

250+ years of combined Geotechnical Engineering, Materials Testing and Inspection experience.

RADISE has been serving Florida for 20 years and has always been a financially sound firm. They have a history of no litigation, and maintain a safety first record of no OSHA lost time.

Certifications: RADISE also holds minority certifications including State of Florida M/WBE; Palm Beach County SBE and M/WBE; Florida DOT DBE and South Florida Water Management District SBE.

#### **Specialized Experience and Technical Competence:**

- Geotechnical Engineering and Drilling
- Field and Laboratory Materials Testing
- QA/QC Testing During Construction
- Geotechnical Analyses and Reporting
- FDOT Construction Testing Qualification Program (CTQP) Training Provider

As experts in providing geotechnical engineering and materials testing and inspection services, they are skilled in conducting site investigation, evaluation, design and preparation of engineering plans; preparing specifications and contract documents; master planning and permit preparation; as well as serving as liaison with project owners, cities, counties, consultants, agencies and stakeholders. They perform all drilling in-house with multiple truck and track mounted drill rigs. RADISE is also an FDOT CTQP Training Provider, training in-house staff, FDOT personnel and outside clients.

Offices and Certified Testing Labs: RADISE has 3 offices in Palm Beach, Broward and Miami-Dade Counties; and 2 certified construction materials testing laboratories in Palm Beach (FDOT/CMEC/USACE certified) and Broward (FDOT/CMEC certified) Counties.

**Experience:** For over 20 years, RADISE has provided geotechnical engineering, field and lab construction materials testing, inspection and quality control services for projects throughout Florida. Their significant experience and a solid background working with both the Public and Private Sectors in South Florida includes continuing service contracts with numerous Cities, Counties, and School Districts, and they work extensively with the SFWMD, FDOT and USACE, on operations that run 24/7.

**Quality Control:** RADISE developed and utilizes a Quality Control System that is a powerful, web-based application. The QC system enhances project success with features that simplify reporting, and create instant results/reports for clients, 24/7, accessible via the internet. The QC System has proven to be a significant advantage when reporting to the level that is required by many agencies.

RADISE International also offers engineering inspection and testing services to clients to confirm the quality of the work performed and construction materials used in their projects. RADISE's engineering inspectors and technicians are trained to monitor and record workmanship and to inspect and document material conformance to project specifications. Their involvement helps prevent deviations that can affect the quality or compromise the design of projects.



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## SECTION 7 – STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM

#### RADISE Certified or Validated test methods (CMEC/AMRL/USACE/FDOT)

- Soil
- Aggregate
- Concrete

- Bituminous
- Masonry
- Rock

Mr. Andrew Nixon has coordinated closely with CAS as project manager in providing geotechnical services for numerous municipal projects for CAS throughout South Florida. Mr. Nixon was responsible for ensuring quality and timely geotechnical services for a myriad of utility projects (i.e., water main, sewer force main, drainage, roadway and pump station projects) designed and managed by CAS for the following municipal clients:

Indian Trail Improvement District
Spring Lake Improvement District
City of Margate
City of Moore Haven
Hardee County
Okeechobee County
City of Belle Glade
Sunny Isles Beach

In addition, RADISE is currently part of the CAS Team and provides geotechnical engineering services for the City of Margate, Sunshine Water Control District and the City of Delray Beach NW Neighborhood Improvement Project.

RADISE is a Certified SBE-M/WBE firm with the Palm Beach County and M/WBE State certified and will be providing geotechnical and material testing services for the duration of this contract.



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Bermello Ajamil & Partners Inc. (B&A) is a global interdisciplinary A/E firm established in 1939. Offering services that include Engineering, Architecture, Planning, Landscape Architecture, Interior Design and Construction Services, B&A serves various

market sectors consisting of Municipal, Maritime, Aviation, Commercial, Residential, Healthcare, Education, and Transportation. Headquartered in Miami, the firm operates on 6 continents from its offices in Florida, New York and Denmark and is highly recognized for its award-winning designs and extraordinary service of over our 75 years of experience.

Landscape Architecture: B&A's Landscape Architectural Design Studio focuses on providing clients with innovative and sustainable design solutions that celebrate the natural environment and compliment the built environment. Their professional staff bring expertise in many facets of design and development including: master planning, defining community aesthetics and enhancements, as well as planning and designing of parks, recreation complexes, and municipal facilities. B&A has extensive experience in similar types of site development/beautification, recreational parks and right-of-way streetscape projects for a wide range of municipalities throughout Florida. Their municipal client's range in size and complexity from small towns and cities to large metropolitan areas. Their professional staff understand the dynamics and economic conditions that most municipalities find themselves in, and will work hard to be responsive to the Towns' needs throughout the contract's duration.

Their professional staff of over 130 talented individuals is always committed to embracing the client's vision and needs first. With an abiding promise to clients and the communities that they serve, B&A has the unique expertise to connect projects on an intimate level and constantly evolve the quality of life in regions around the world. They have continuously developed innovative design technologies resulting in solutions that provide intelligent, sustainable and enrich the built environment. B&A has been recognized both locally and nationally with many awards and by publications, of which some include:

- #4 Top Architecture Firms 2018 South Florida Business Journal
- Top Design Firms 2018 Engineering News Record
- Top 50 Fastest Growing Private Companies 2018 South Florida Business Journal
- Top Design Firm in the Southeast 2018 Engineering News Record
- Top 100 Private Companies 2017 South Florida Business Journal
- Top U.S. Architecture Firms 2018 Architectural Record
- Top 200 International Design Firms Engineering News Record
- Firm of the Year AIA Miami Chapter
- Firm of the Year Society of American Registered Architects
- Architectural Firm of the Year Latin Builders Association

B&A is currently part of the CAS Team in providing Architectural Landscape, Urban Design and Planning services for the City of Lake Worth and the City of Delray Beach's NW Neighborhood Improvement Project. In addition, CAS is part of B&A's Team in providing survey and utility locating services for the City of Deefield Beach. Lastly, B&A and CAS have also teamed in pursuit of other South Florida municipal contracts over the last four years. B&A successfully completed a City-Wide Parks Master Plan for the City of Pompano Beach. Other successful projects completed for the City Included providing landscape architectural services for improvements to the George Brummer



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SECTION 7 – STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM

Community Park and the Pompano Beach Library. Please refer to project profiles in this section.

Regulatory Compliance & Permitting Support: B&A has worked closely with Broward County, Broward County Environmental Protection & Growth Management Department (EPGMD), Broward County Technical Advisory Committee, various academic and municipal partners, and a network of communities to understand how rising sea levels impact flood risks in South Florida. This analysis includes a review of existing and future requirements by Federal, State (SB#178), Broward County and local legislation governing sustainability, resiliency and sea levels to develop detailed requirements, permit schedules and compliance for recommended alternatives in the planning phase of any project.

**Public Outreach:** B&A has a successful track record in developing communication plans for utility and infrastructure project stakeholders. They will lead numerous workshops and public meetings, utilize social media and additional communication tools such as newsletters, bulletins, project websites, emails, renderings and power point presentations. Their goal will be to keep stakeholders updated in securing their acceptance of master plans and key utility initiatives of local and regional proportions.

Bermello Ajamil & Partners, Inc. will be providing Landscape Architectural, Public Outreach and permitting support services from their Ft. Lauderdale (Broward County) office location for the duration of this contract.







Engineers 

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## **SECTION 7 - STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM**



MUE Engineers, Inc. is a full service, dynamic ngineers, Inc. a sound understanding of all types of building structural engineering, and inspection firm. They have processes and provide services for municipal,

commercial, industrial, legal, and residential clients for any type and size of project. Whether they are designing a one floor, an eight floor or a thirty-floor building, it is important to select the structural system which best suits the project, while keeping in mind the project budget, constructability, and local construction techniques and methods.

Founded in 2010, MUE provides a full range of structural engineering services, including: structural design, specialty engineering, structural assessments, threshold, special and 40-year inspections. restoration, peer reviews and feasibility studies. Their professional experience covers a comprehensive array of projects including: multi-family and condominium residences, custom single-family residences, car dealerships, hotels, parking garages, road/pedestrian bridges, fire stations, public safety complexes, police stations, public parks, lifeguard towers, sea wall restoration and repair, retail structures, medical facilities, office buildings, courthouses, etc. In addition to new construction, they have extensive experience with remodels, restorations and renovations of existing structures needing additional space, upgrades, or repairs of failing structural components. Example projects include: wood observation deck and tower repairs, hotel remodels, sea wall restorations, water proofing replacements, all types of concrete restoration and corrosion protections, streetscaping improvements, airport expansions, water park features, etc.

MUE has extensive experience in the public sector and have been involved on numerous city and county continuing contracts within the state. Their involvement with these projects have ranged from structural design and engineering of new fire stations, maintenance buildings, administration buildings, park observations walkways, boardwalks, gazebos and restrooms, to the remodel, conversion or restoration of existing structures, such as police stations, sea walls, jetties, piers and park structures. In Pompano Beach, MUE has/Is working on several successful projects, including structural modifications and inspections to the Pompano Beach Airpark Water Treatment Plant Control Room, Administration Building and Control Tower. Additionally, MUE are the structural engineers for the future Senior Activity Center currently in the design phase.

MUE is a Broward County-Certified CBE firm and provides structural engineering services for projects of all types and sizes as stated above. MUEngineers is committed to providing innovative, sustainable and high quality design solutions to meet and exceed client expectations and needs.

Currently MUEngineers is part of the CAS Team to provide structural engineering services for continuing professional engineering services with the City of Lake Worth. In addition, MUEngineers recently completed for CAS a seawall design for Torry Island Campgrounds in the City of Belle Glade.

MUEngineers, Inc. is a Certified CBE firm with Broward County and will be providing the structural engineering needs for the duration of this contract.



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## SECTION 7 – STATEMENT OF SKILLS AND EXPERIENCE OF PROJECT TEAM



Shenandoah Construction has been providing quality services in the trenchless construction industry for over 43 years. They are equipped with 25 hydraulic cleaning trucks, 11 CCTV Inspection trucks (6 of which have test and seal capability), Excavators, Backhoes, and Specialty Equipment, all under the direction of their experienced support staff consisting of

managers, estimators and superintendents. Their Pompano Beach, Port St. Lucie and Ft. Myers locations allows the company to serve a wide variety of markets from Jacksonville to Key West. In addition, they have the capability to mobilize crews to provide service well beyond their target area. Over the years the company focus has been to keep up with the changing technologies in the industry to provide better service to clients.

Currently they are working with municipalities such as, Broward County, FDOT Districts 1, 2, 4, 5, 6 & 7, Collier County, City of Sarasota, Northern Palm Beach County, Village of Wellington, City of West Palm Beach, City of Tamarac, City of Coconut Creek, City of Fort Pierce, and St. Lucie County.

Shenandoah works closely with a variety of companies and contractors throughout Florida. Each client/customer has a specific need to be met whether it is controlling ground water infiltration in a sanitary sewer collection system, cleaning and evaluating a storm water system that is causing flooding in a community or rehabilitation of deteriorating sanitary sewer or stormwater systems and a large variety of other specialty work such as repair and/or replacement of utilities.

In addition, they provide many types of commercial diving services, including: pipe inspection, welding, cutting, cofferdam, rigging, construction, power plant etc.

They are also authorized installers of the Cured-In-Place-Lining (CIPP) and Sectional Liners. CIPP and Sectional Liners can be used to repair specific pipeline problems trenchlessly. By using these trenchless processes, pipelines can be inspected and repaired quickly at a fraction of the cost of alternative methods, all without the inconvenience of conventional excavation or manhole-to-manhole repair systems and extended traffic disruption.

Shenandoah Construction is currently on the CAS Team in providing sanitary sewer and stormwater inspection and repair services for the City of Delray Beach and the City of Lake Worth. Shenandoah recently completed cleaning and CCTV inspection of 92,740 linear feet of sanitary sewer pipe and 24,500 linear feet of stormwater pipe for the NW Neighborhood Improvement Project for the City of Delray Beach and completed cleaning, CCTV inspection, diving (72" diameter outfall pipes) and repair services for over 10,000 linear feet of stormwater pipe for the City of Lake Worth.

Shenandoah Construction Company is a **local City of Pompano Beach firm** and will be providing cleaning, inspection, rehabilitation and emergency repair services for sanitary sewer and stormwater pipelines for the duration of this contract.

Note: Refer to the end of this section for subconsultant similar project experience and **Section 8B – Subconsultants Resumes of Key Personnel** for staff experience.

# **Electrical Engineering**





# City of Fort Lauderdale Peele-Dixie WTP Electrical Service Modifications

#### **Project Entity:**

City of Fort Lauderdale 100 N Andrews Avenue Fort Lauderdale, FL 33301

#### Contact:

Alex Torres Public Works City of Fort Lauderdale (954) 828-6231

#### **Project Description:**

The Peele Water Treatment Plant (Peele WTP) experienced a recent failure of its main electrical service transformer and was operating under backup power provided by a portable generator.

This project provided for the electrical engineering services necessary to design the modifications to the existing electrical service to bypass the failed transformer so that it was longer required, and to observe the contractor during the construction phase of the project.

A new electrical service was designed to serve this facility from the existing adjacent electrical building

The design portion of the project began in late 2019 and was completed in early 2020. Construction is to begin in 2020.

#### Responsibilities:

Electrical engineering, preliminary design, preparation of engineering design and construction plans and specifications, cost estimates, contract documents, bidding, permitting, construction management and construction observation, and certification through project close-out.

Key Personnel:

Luther E. Fair, P.E.;



# Palm Beach County WUD WTP No. 8 Arc Flash Analysis and Condition Assessment

#### **Project Entity:**

Palm Beach County
Water Utilities Department
8100 Forest Hill Blvd.
West Palm Beach, FL 33413

#### Contact:

Mr. Craig Irwin, P.E. Project Manager (561) 493-6024

#### **Project Description:**

The intent of the arc flash analysis was to address the specific requirements of NFPA 70 and NFPA 70E related to arc flash hazards. The arc flash analysis determined the amount of thermal energy that could be generated in an arc flash incident within the various electrical equipment throughout the building using the method outlined in the IEEE Std. 1584. This information was used to define a flash protection boundary around a potential source, and to determine the level of flame-resistant apparel and other personal protection equipment (PPE) required when employees cross the boundary while they work on or near live parts as recommended by NFPA 70E. This analysis also addressed the National Electric Code (NFPA 70) labeling requirements for warning of a potential arc flash hazard.

Condition Assessment: Our staff visited the site and structures to examine the electrical and instrumentation equipment types, age, and condition. We evaluated the electrical and instrumentation systems and equipment and offered our recommended improvements. We provided the County with a written report, including the preparation of construction cost estimates, related to the recommended electrical and instrumentation system improvements.

The study portion of the project began in late 2015 and was completed in mid-2016.

#### Responsibilities:

Electrical engineering, analysis and report preparation, including cost estimates.

Key Personnel:

Larry Smith, P.E. President;



# Town of Jupiter Utilities Water Treatment Plant Various Projects

#### **Project Entity:**

Town of Jupiter Utilities 17403 Central Blvd. Jupiter, FL 33458

#### Contact:

Amanda Barnes, P.E. Assistant Director of Utilities (561) 741-2537

#### **Project Description:**

Smith Engineering Cousultants, Inc. has worked with the Town of Jupiter on several of their recent water utilities projects. We have successfully resolved power quality issues within the Nano-filtration Plant. We have made improvements to the existing high service pumps by designing new variable frequency drives (VFD's) to replace existing reduced-voltage motor starters. Also, recently SEC designed the electrical systems for new and replacement surficial aquifer wells, which included 5kV power distribution. We have worked on numerous projects for the Town of Jupiter Utilities department for nearly 30 years.

#### Responsibilities:

Electrical engineering, preparation of engineering design and construction plans, cost estimates, contract documents, bidding, permitting, construction management and construction observation, and certification through project close-out.

Key Personnel:

Larry Smith, P.E. President;



# City of Sunrise Sawgrass WTP Improvements

#### **Project Entity:**

City of Sunrise Sunrise, FL

#### Contact:

Mr. Chris Reinbold, P.E. Carollo Engineers (561) 868-6400

#### **Project Description:**

Smith Engineering Consultants, Inc. designed the electrical systems for miscellaneous improvements to the City's existing water treatment plant. This included the electrical power distribution, controls, and instrumentation. Four (4) existing transfer pumps at the clearwell were upgraded with larger motors. Two (2) of the pumps received new reduced voltage starters and the other two (2) new variable frequency drives (VFD's). Other improvements included new metering pumps for the sodium hypochlorite, the replacement of three (3) concentrate booster pumps/ motors, a new air compressor, and the removal of the existing ozone generator.

The design portion of the project began in 2014 and was completed in 2015. Construction began in 2015 and was completed in 2016.

#### Responsibilities:

Electrical engineering, preparation of engineering design and construction plans, cost estimates, contract documents, bidding, permitting, construction management and construction observation, and certification through project close-out.

Key Personnel:

Larry Smith, P.E. President;



# Town of Palm Beach Stormwater Pump Station Generator Upgrades

#### **Project Entity:**

Town of Palm Beach 951 Okeechobee Rd., Ste. A West Palm Beach, FL 33401

#### Contact:

H. Paul Brazil, P.E. Director of Public Works (561) 838-5440

#### **Project Description:**

Two (2) new standby power generators and remote telemetry units (RTU's) were provided, one (1) at each of two (2) existing stormwater pump stations at Jungle Road and El Brillo Road along the intracoastal waterway in Palm Beach. Each generator consisted of a self-contained, skid-mounted, diesel fuel tank below the generator enclosed with a weatherproof, sound-attenuating enclosure.

A new electrical service was designed at each pump station including a new automatic transfer switch, to provide both normal and emergency power to the submersible pumps. Data Flow telemetry systems were specified to provide control and status reporting to the existing central station.

The design portion of the project began in 2012 and was completed in 2012. Construction began in 2013 and was completed in 2014.

#### Responsibilities:

Electrical engineering, preparation of engineering design and construction plans, cost estimates, contract documents, bidding, permitting, construction management and construction observation, and certification through project close-out.

Key Personnel:

Larry Smith, P.E. President;



# City of West Palm Beach Lift Station Improvements and Rehabilitation (LS Nos.: 4, 7, 44, 52, 75, 74, and 153)

#### **Project Entity:**

City of West Palm Beach 401 Clematis Street West Palm Beach, FL 33401

#### Contact:

Yanice Mercado, P.E. (561) 494-1068

#### **Project Description:**

This project consisted of the rehabilitation of several existing lift stations and included electrical design, including power, controls, instrumentation and telemetry/SCADA for the installation of new pump control panels and remote telemetry units (RTU's), throughout the City of West Palm Beach's service area.

Total design cost including construction management for the project was \$68,946. Total construction cost was \$689,000. The design portion of the project began in 2015 and was completed in 2017. Construction began in 2016 and was completed in 2019.

#### Responsibilities:

Electrical engineering, preparation of engineering design and construction plans, cost estimates, contract documents, bidding, permitting, construction management and construction observation, and certification through project close-out.

Key Personnel:

Larry Smith, P.E. President;



# Palm Beach County, WUD Countywide Telemetry Information Management System (TIMS) Design Upgrades

#### **Project Entity:**

Palm Beach County
Water Utilities Department
8100 Forest Hill Blvd.
West Palm Beach, FL 33413

#### Contact:

Mr. Craig Irwin, P.E. Project Manager (561) 493-6024

#### **Description of Work Performed:**

This project was a countywide electrical design, including power, controls, instrumentation and telemetry/SCADA for the installation of new pump control panels and remote telemetry units (RTU's), throughout Palm Beach County WUD's service area. The scope of services includes over 80 lift stations with a variety of the following (1) add new RTU, radio and antenna with ultrasonic level transducer (2) replace control panel (3) add generator receptacle. The existing relay logic and level control systems will be replaced with PLC's using level control and high level float. The design portion of the project began in 2016 and was completed in 2017. Construction began in 2017 and was completed in 2019.

#### Responsibilities:

Radio survey, power and controls engineering, preparation of engineering design and construction plans, cost estimates, contract documents, bidding, permitting, construction management and construction observation, and certification through project close-out.

#### **Key Personnel:**

Larry Smith, P.E. - President;

Steve Hockman - Senior Project Manager

Frank Roth, E.I. - Electrical Engineer and Senior Field Representative



# Village of Wellington Stormwater Pump Stations 3, 4, 5, and 6

#### Project Entity:

Village of Wellington 14001 Pierson Road Wellington, FL 33414

Contact:

Bill Conerly Operations Manager (561) 753-2576

#### **Description of Work Performed:**

Electrical and mechanical design for several new stormwater pump stations throughout the Village of Wellington. These pump stations consisted of electric motor operated pumps with both upstream and downstream water level monitoring. A backup diesel generator was designed at each pump station to provide power for full pumping capacity. Reduced-voltage motor starters were designed where required to reduce the starting inrush current for the large electric motors. Electrical and mechanical design included motor operated gates for control structures, ventilation of the main electrical rooms, and plumbing. A new base telemetry system was designed for the District in order to provide for automation, and remote control and status monitoring, for the pump stations, gate control structures, and water level monitoring sites throughout the Village of Wellington. The design portion of the project began in 2012 and was completed in 2014. Construction began in 2013 and was completed in 2016.

#### Responsibilities:

Power and controls engineering, preparation of engineering design and construction plans, cost estimates, contract documents, bidding, permitting, construction management and construction observation, and certification through project close-out.

#### **Key Personnel:**

Larry Smith, P.E. - President;

Steve Hockman - Senior Project Manager

David Jones, P.E. - Senior Project Manager (Mechanical Engineer)

# Geotechnical Engineering





#### **PROJECT SUMMARY**

#### **Project Name:**

Bermuda Riviera Small Water Mains Improvements

Owner: The City of Fort Lauderdale, FL

Client: Keith and Associates.

The Bermuda Riviera Small Water Mains Improvements project is in the Bermuda Riviera district in the City of Fort Lauderdale, Florida. It is predominantly bordered by NE 32nd Avenue on the south, NE 42nd Court on the north, NE 34th Avenue on the east, and the Atlantic Intracoastal Waterway on the west. It is our understanding that the Project is expected to include improvements to the existing small water mains within the project area along with the restoration of land surface areas including pavement structure along the roadways within the



project area. The water main improvements will also include the construction of aerial pipe crossings along Castle Harbor Drive and Fort Royal Isle.

RADISE provided Geotechnical Engineering Services including field exploration/testing and laboratory testing services. The field exploration program consisted of obtaining (20) Pavement Cores from the existing roadways within Bermuda Riviera District area. Also, performed eighteen (18) SPT borings in the cored pavement holes to depths of 10 to 12 feet and two (2) SPT borings to depths of 30 feet below the existing pavement surface. The work also included a measurement of the groundwater level at each of the drilled boreholes.

Representative soils samples collected from the boring were examined and classified based on visual observations supplemented by representative laboratory test results in general accordance with Unified Soil Classification System. Laboratory index tests performed consisted of full Sieve Analysis, Percent Passing No. 200 Sieve, Natural Moisture and Organics Content tests.

RADISE provided a Geotechnical Services Report which includes the detailed graphical logs of the soil borings, groundwater levels, subsurface soil stratigraphy and classifications. RADISE also provided engineering recommendations for the proposed Arial pipe crossing including ACIP piles installation, and for various components of the project including clearing and grubbing; excavation safety; select fill composition, placement and compaction criteria; underground utilities construction; site and subgrade preparation and, protection of the existing structure.

#### **Project Information:**

Location: Fort Lauderdale, FL Dates: 05/2018 to 06/2018

#### **Client Contact:**

Mr. Roberto Goncalves, Jr.

301 East Atlantic Blvd, Pompano Beach, FL.

Phone: 954.788.3400

Email: RGoncalves@keithteam.com

#### **PROJECT ELEMENTS**

- Water Mains Improvements
- Arial Pipe Crossing
- Pavement Structure

#### RADISE ROLE:

#### GEOTECHNICAL ENGINEER OF RECORD

#### Field Exploration and Testing

- Pavement Coring
- SPT Borings
- Groundwater Measurement

#### **Laboratory Testing**

- Moisture Content Tests
- Full Sieve Analysis Tests
- Percent Passing No. 200 Sieve Tests
- Organics Content Tests

#### **Engineering Services**

- Soil Classification and Detailed Profiles
- Exfiltration Tests Result
- Recommendations:
  - Arial Pipe Crossing ACIP Pile
     Foundation System
  - o Pavement Design Consideration
  - Clearing and Grubbing
  - o Underground Utilities & Structures
  - Excavation
  - Dewatering
  - o Pipe Bedding
  - o Backfill and Compaction
  - Protection of the Existing Structures



#### **PROJECT SUMMARY**

**Project Name:** Water and Sanitary Sewer System improvements for Utility Analysis Zones 110/111 and 113 (UAZ 110/111, UAZ 113A and UAZ 113B

Owner: Broward County Wastewater Engineering

Client: Chen Moore and Associates

The Water and Sanitary Sewer Improvements for UAZ 110, 111 & 113 Project includes 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. 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. 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. Some of these stations will need rehabilitation, extent of rehabilitation of existing stations will be determined. The restoration of roadways, sidewalks, driveways, and landscape areas will need to be performed as needed for water and sanitary sewer improvement construction.

RADISE prepared conceptual dewatering plans that provided a detailed narrative of the means and methods to be used for groundwater lowering while not inducing pollutant transport from the contaminated locations.

RADISE provided Geotechnical Engineering Services including field exploration/testing and laboratory testing services. The field exploration program consisted of obtaining Pavement Cores from the existing roadways, performing SPT borings in the cored pavement holes, and obtaining groundwater depth measurements.

RADISE conducted on-site observations/verification of construction in progress (including specialized field tests) to assist in determining if construction is proceeding in substantial accordance with the Contract Documents.

#### **Project Information:**

Location: Broward County, FL

Dates: 2017 - Present

Owner Contact: Mr. Peter Moore, PE

(954)730-0707

#### RADISE ROLE:

Construction Engineering Inspections (CEI)

Geotechnical investigation

**Materials Testing** 

**Geo-hydraulic Testing Services** 

# GEOTECHNICAL ENGINEER OF RECORD

#### Field Exploration and Testing

- Pavement Coring
- SPT Borings
- Groundwater Measurement

#### **Laboratory Testing**

- Moisture Content Tests
- Full Sieve Analysis Tests
- Percent Passing No. 200 Sieve Tests
- Organics Content Tests



### PROJECT SUMMARY

### **Project Name:**

Tamarind Avenue Streetscapes and utility improvements (Banyan Blvd. to Palm Beach Lakes Blvd.)

Owner: City of West Palm Beach, FL

Client: Calvin, Giordano & Associates

The 2/3rds of a mile long project is located in West Palm Beach, Florida along Tamarind Avenue from Banyan Boulevard to Palm Beach Lakes Boulevard.

Tamarind Avenue is a two lane -two way road with onstreet parking on both sides. The improvements include the city's planned water and sewer upgrades and drainage infrastructure improvements along with a new pavement structure and streetscape improvements. This subsurface infrastructure work will include replacing the city's 24inch water main with new 30-inch D.I.P. piping.

RADISE provided geotechnical engineering services including field exploration/testing and laboratory testing services. The field exploration program consisted of drilling eighteen (18) SPTs borings and two field permeability tests which were performed in the proposed retention areas to evaluate the hydraulic conductivity characteristics of the existing soil profile components. The work also included drilling ten (10) pavement cores to evaluate the existing pavement thicknesses and profile sections of Tamarind Avenue.

Representative soils samples collected from the boring were classified based on visual observations supplemented by representative laboratory test results. Laboratory index tests performed consisted of full Sieve Analysis, Percent Passing No. 200 Sieve, Natural Moisture and Organics Content tests.

RADISE provided a Geotechnical Services Report which includes the detailed graphical logs of the soil borings, groundwater levels, soil classifications, permeability test results and asphalt, concrete and base rock thickness at the cored locations. RADISE also provided engineering recommendations for various components of the project including clearing and grubbing; excavation safety; select fill composition, placement and compaction criteria; underground utilities construction and pavement design considerations.

### **Project Information:**

Location: City of West Palm Beach, FL

Dates: 12/2015 to 3/2016

### **Client Contact:**

Mr. Patrick Figurella, P.E. 560 Village Blvd., Suite 340 West Palm Beach, FL 33409 Phone: 561-434-8918

### PROJECT ELEMENTS

- Roadway pavement
  Replacement / improvement
- New Streetscapes
- Utilities upgrades
- Drainage improvement

### RADISE ROLE:

GEOTECHNICAL ENGINEER OF RECORD

### Field Exploration and Testing

- SPT Borings
- Asphalt Coring
- Exfiltration Tests

### Laboratory Testing

- Moisture Content Tests
- Full Sieve Analysis Tests
- Percent Passing No. 200 Sieve Tests
- Organics Content Tests

### **Engineering Services**

- Soil Classification and Profiles
- Exfiltration Tests Result
- Recommendations
  - o Clearing and Grubbing,
  - o Underground Utilities,
  - Select Fill Composition, Placement and Compaction
  - o Utility Excavation and Dewatering
- Flexible Pavement Design



### PROJECT SUMMARY

### Project name:

### **PBCWUD Test Wells and Soil Borings**

### Client:

Palm Beach County Water Utilities Department (as a sub-consultant to MWH Americas, Inc.)

The Palm Beach County Water Utilities Department (PBCWUD) is planning on constructing production wells for WTP 2, WTP 3 and WTP 8 and a new pipeline for WTP 2. The project involves the installation of eight (8) test wells, two (2) in Greenacres, two (2) in Boynton Beach and four (4) in West Palm Beach. In addition, approximately 2,300 linear feet of pipeline will be installed for WTP 2. MWH Americas, Inc. (MWH) was the Prime Design Consultant for this project and RADISE provided the drilling, sampling and geotechnical laboratory testing services.

RADISE visited the project site to determine access to the three sites including obtaining gate keys, access codes and property entry permits for the proposed locations. RADISE then coordinated with Palm Beach County Parks and Recreation Department to obtain gate key for WTP 8 site, coordinated with PBCWUD to obtain access code to enter WTP 2 site, photo IDs for the drillers and the engineer, well digging permits and permit to enter Greystone Housing Complex for WTP 3 site.

Once all the access issues were cleared, RADISE coordinated with MWH to finalize well locations, applied and obtained well permits from PBCWUD, cleared utilities through Sunshine Florida and local property owners at the drilling locations. After which, RADISE performed Standard Penetration Test borings to the termination depths varying between 150 to 200 feet as determined in the field by MWH geologist to the satisfaction of PBCWUD geologist. RADISE also performed hand auger borings at WTP 8 five feet away from the SPT locations so that MWH could collect shallow water samples of the groundwater to test for environmental contamination.

RADISE then coordinated with the well drilling sub-consultant Centerline Drilling, Inc. (Centerline) to install the test wells in the limestone aquifer to the termination depths varying between 150 to 200 feet as determined in the field by MWH geologist to the satisfaction of PBCWUD geologist. Limestone layer begins 50 feet below the existing ground surface and sand is present over this layer to the ground surface. During well drilling, the caving in of sand layer presented problems in installation of well screen intervals, stabilization of the borehole and clogging of the test well. RADISE and Centerline overcame this problem by using a temporary PVC



casing to the top of limestone layer similar to the way the drilled shaft holes are stabilized.



RADISE coordinated with another sub-consultant RMBAKER LLC to perform geophysical logging of the wells using calipers, gamma ray and dual induction logs. MWH and PBCWUD then determined screen intervals to develop wells

to collect environmental water samples. The wells were developed as requested and a (6)

temporary cap was installed on the wells.

RADISE visually classified the soil samples obtained, tested select samples to determine grain size, created AutoCAD logs for visualization and summarization, and provided a data report summarizing the field and laboratory results to aid in the design of production wells.

### PROJECT INFORMATION

Location: West Palm Beach, FL Dates: June 2012 – April 2013

### Client Reference:

Mr. Neil A. Johnson, P.G.

MWH Americas, Inc.

Phone No.: (561) 650-0070

### PROJECT ELEMENTS

- Eight test wells
- Geophysical testing
- Well development for environmental water sample collection

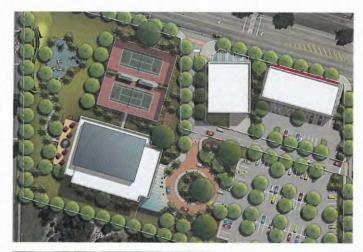
### RADISE ROLE: ENGINEERING

- Performed SPT borings to 150 200 feet deep at well locations
- Installed test wells to the above depths
- Geophysical testing including openborehole calipers, gamma ray and dual induction logging
- Well development and environmental water sampling
- Laboratory soil tests Mechanical gradation analysis

### Landscape Architecture & Public Outreach











## CityWideParksMasterPlan Pompano Beach, Florida

Client: City of Pompano Beach

Bermello Ajamil & Partners, Inc. (BA) was contracted by the City of Pompano Beach to carry out a City Wide Parks Master Plan. The BA Team included Ballard\*King & Associates, a nationally recognized parks and recreation needs and operations consultant. Working in close cooperation with the City's Parks, Recreation and Cultural Arts Department, the BA Team carried out a parks existing conditions analysis, a parks and recreation needs analysis, identified park and recreation improvements and new facility needs. All 41 City parks existing conditions were evaluated and recommendations for improvements were made.

Based on the Recreation Needs Assessment, it was identified that there is a need for a new community center which will serve an existing community. An analysis of available sites for the location of the community center was carried out and a preferred site was recommended. Early action projects included the new community center, the conversion of baseball fields to rectangular fields for soccer and football; and the expansion of McNair Park on the west side of the City of Pompano Beach. The project also included recommendations for future long term development of an aquatic center to serve the Pompano Beach Community.













George Brummer Park Pompano Beach, Florida

Client: City of Pompano Beach

Bermello Ajamil & Partners, Inc. (BA) provided landscape orchitectural, architectural, and engineering services for improvements to George Brummer Park (formerly Palm Aire Park), a community oriented park on the west side of Pompano Beach. The site had previously been utilized as a private tennis club but was sold to the City for use as a public recreation park. Working with the City and local residents, BA developed multiple design alternatives and presented them at various public workshops and community meetings. After obtaining input from neighboring community organizations and City officials, a final master plan was developed for the park site.

Improvements to the 5-acre parcel included six new tennis courts, two handball courts, two bocce courts, a beach volleyball court, two playgrounds, o basketball court, an outdoor fitness facility, a restroom pavilion and a large waterfront open space for community events and activities. A small parking area was also incorporated into the plan to allow convenient access for the entire community. Once completed, the park became a facal point for local residents of all ages enjoying the extensive opportunities for recreation. BA

## Bermello Ajamil & Partners







### Pompano Beach, Florida

Client: City of Pompano Beach CRA

Bermello Ajamil & Partners, Inc. (BA) served as the Landscape Architects for this new joint venture between the City of Pompano Beach and the County Library System to build a new library at the beach to replace the outdated building in an adjacent lot. B&A developed the overall site plan and the landscape design for both the parking and public open space adjacent to the building.

Due to the extensive tree and palm coverage on the site, BA developed a plan to relocate and preserve most of the existing trees. Large sea grapes were relocated on-site and create a dramatic impact to the new landscape design. The public open space is intended to provide outdoor space for the library users in addition to the covered veranda and a focal point for public art.





Port Everglades Master Plan 2018 Update Environmental evaluation Port Everglades, Florida

Client: Broward County Port Everglades

As part of the environmental evaluation to be part of the Port Everglades Master Plan 2018 update, the BA team has reviewed existing and future more stringent environmental requirements by Federal, State and local regulatory agencies governing sustainability, resiliency and sea level rise as part of the Preliminary Design Report. These regulations are critical in the design of utilities, surface water management, and other infrastructures associated for the new facilities at Port Everglades.

BA prepared a preliminary design report and developed detailed requirements, permit schedule, and compliance for recommended designs and locations considering sustainability, resiliency and climate change, as outlined by the Broward County, SFWMD, FDEP, City of Fort Lauderdale, City of Hollywood and other regulatory agencies for new facilities in Port Everglades. BA, in cooperation with Cummins Cederberg, has prepared and submitted the necessary, updated information and documentation regarding flood protection/stormwater management, water quality, wetland, wildlife, renewable energy and Natural Habitat, wildlife, mangroves, corals, etc.







### CITYOFMARATHONCOASTAL RESILIENCY STUDY Marathon, Florida

Client: City of Marathon

In October 2018, the City of Marathon was awarded by FDEP, Florida Coastal Office, grant funding under their Florida Resilient Coastlines Program for the preparation of 3D maps and several adaptation alternatives as part of their Adaption Action Plan, to review and upgrade of the current City Policies and Regulations to continue maintaining surface water management and flood damage prevention in compliance with 2015 Peril of Flood and to prepare an outreach plan with educational material and stakeholder meetings to educate local residents and elected officials. The City of Marathon has contracted BA under their current A/E service agreement and Cummins Cederberg and University of Florida as sub-consultants to implement the following fourtasks:

TASK 1: Evaluate existing code ordinances for future regulations and adaptation strategies, review and update existing code ordinances and policies following Peril of Flood guidelines.

TASK 2: Develop Adaptation Action Plan to the Comprehensive Action Plan by using Ground and UAV photography and video. TASK 3: Evaluate several Adaptation Alternatives/flood resiliency. TASK 4: Outreach strategies (these shall be part of any grant application





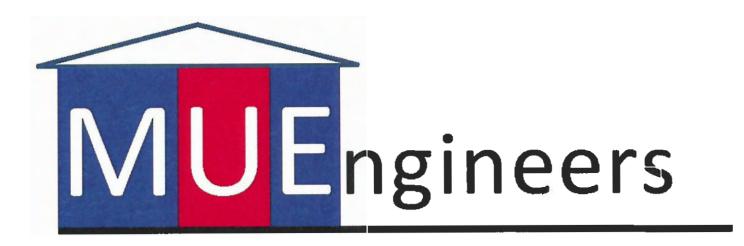
## ARCH CREED DRAINAGE BASIN PUBLIC OUTREACH Miami, Miami Beach, N Miami Beach

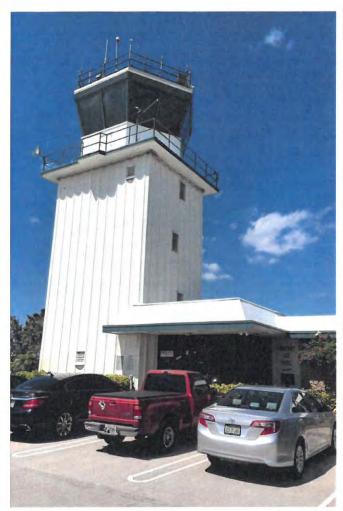
Client: Miami-Dade Department of Regulatory and Economic Resources (RER) Office of Resilience BA was contracted by the Miami-Dade Department of Regulatory and Economic Resources (RER) Office of Resilience to pilot an outreach methodology for potential use in future Adaptation Action Areas and to provide technical and outreach services to get input from local residents on proposed flood resilient solutions for the Arch Creek Drainage Basin in Miami-Dade.

Under this contract, BA prepared a brief educational presentation for use in public meetings and collaborated with images representing five different flood resiliency/adaptation solutions for the Arch Creek Drainage Basin area. These solutions included green infrastructure, living shorelines, sea walls/berms, flood pumps, and raised streets/buildings. BA staff also prepared promotional flyers in English, Spanish and Creole, a meeting agenda, PowerPoint presentation, proposed flood resiliency/ adaptation alternatives, and polling survey using pairwise comparison. Upon completing the Public Meeting,

BA prepared and uploaded the same survey and brief educational material presented at the Public Meeting for online response by local residents to provide their input and comments for a period of 15-days. BA will prepare a final report summarizing the methodology used to collect the information of the survey and the final results with the residents' preferences/rankings of the solutions presented.

### Structural Engineering





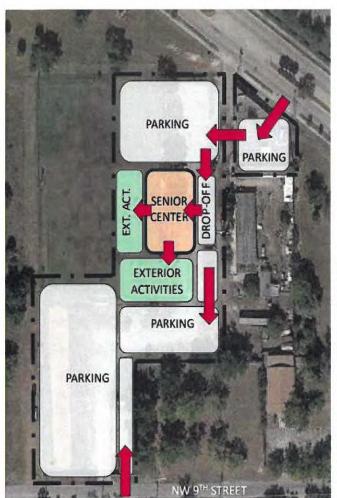


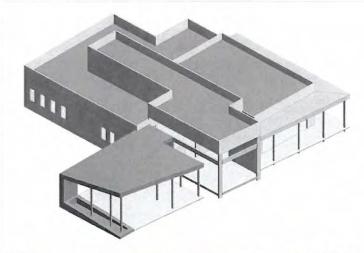


## Pompano Air Park & Water Treatment Plant

2018 Pompano Beach, FL

MUE was involved in various structural modifications within the Pompano Beach Air Park, including the water treatment plant control and filter rooms, as well as the Administration building and control tower. MUE was responsible for the structural design related to new light gauge wall and ceiling framing for the interior renovations of the control room and modifications made to the exterior building and window replacement for the water treatment facility; interior and exterior renovations and modifications, and completed structural inspections to the administration building and the control tower for the air park; and design, wind pressures and details for new and modified exterior load bearing wall openings for the filter room.







Senior Activity Center

In progress Pompano Beach

A member of the team, as the structural consultants for the City of Pompano Beach Senior Activity Center, MUE is repsonsible for the structural design and engineering related to the new one-story ~8,472sf structure. The building consists of multiple activity rooms, kitchen, laundry facilities, storage rooms, office spaces, restrooms, a gymnasium, and reception and lounge areas.





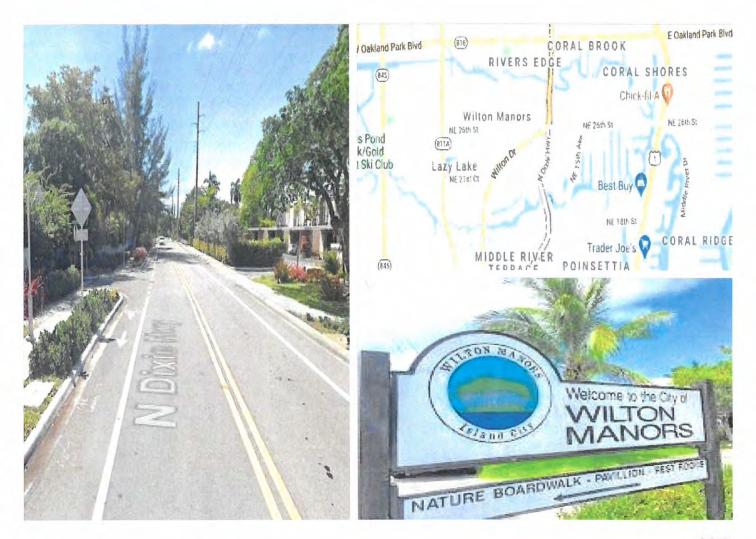


Seawall Assessment & Restoration

2016 Aventura, Florida

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 at all locations, equaling a total of 5.2 miles of canal. During the visual observations, 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.

In addition, our firm also designed repair and restorative details and procedures for the deteriorated precast concrete piles and wall panels, prepared structural permit documents and made bi-monthly site visits to observe the restoration process.



## Streetscaping Improvements

2015 Wilton Manors, Florida

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.







Light Pole Improvements

Ongoing arious, Broward County

MUE was a member of the team for this Broward County Highway Construction and Engineering Division for lighting improvements in various locations within Broward County. 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.

# Water/Wastewater/Stormwater Inspection, Rehabilitation and Repair Services

Local Pompano Beach Firm



tial lis	Shenandoah - Partial list of Completed and Current Contracts	urrent Contracts		Contract		Completion
ó	Owner	Contact Name/Phone/Email/Address	Description of work	Amount	Start Date	Date
City of Delray Beach	ay Beach	Spencer Britt (561) 243-7000 ext 7164	Clean, TV, Lining	\$ 1,100,000.00	5/1/2017	12/31/2020
		Ave., Delray Beach, FL 33444 britt@mvdelraybeach.com				
The Scho	The School Board of	Edgar Lugo - 7720 W. Oakland Park	Clean, Televise & Repair	\$	6/18/2020	5/31/2023
Broward County	Sounty	Blvd., #323, Sunrise, FL 33351 (754) 321-0508 -				
		Edgar.Lugo@browardschools.com				
South Broward	oward	Joe Certain - 6591 SW 160 Ave.,	Sliplining	\$ 116,385.00	7/13/2020	7/13/2020 10/10/2020
Drainage District	District	Southewest Ranches, FL 33331 - (954- 680-3337 - Joe@sbdd.org				
City of Tamarac	amarac	7525 NW 88 Ave., Tamarac, FL 33321	Cleaning Inspection & Repairs of Culverts	\$ 122,350.00	1/16/2020	9/20/2021
City of C	City of Coral Springs	9500 W. Sample Rd., Coral Springs, FL 33065	Clean, Televise, CIPP, Repair	\$ 150,000.00	11/13/2019	11/26/2021
City of C	City of Coconut Creek	John Lukaszewicz (954) 448-9080 -	Clean, Televise, CIPP, Repais	€	9/11/2019	11/26/2021
ı		5295 Johnson Rd., Coconut Creek, FL 33073 -				
		JLukaszewicz@coconutcreek.net				
Collier County	ounty	Melissa Pearson (239) 252-5591 2885	Clean, Televise, CIPP, Slipling,	ا چ	8/21/2019	11/26/2021
		Horseshoe Drive South, Naples, FL 34104 -	Repairs			
		Melissa.Pearson@colliercountyfl.gov				
City of L Beach	City of Lake Worth Beach	Julie Parham - 7 N. Dixie Hwy, Lake Worth, FL 33460 (561) 586-1798	Clean, Televise, Repairs	· \$	11/27/2018	11/26/2021
Broward	Broward County Water	Reann Soodeen - 2555 W. Copans Rd.,	2555 W. Copans Rd., Rehab Surface Water	\$ 957,900.00 7/5/2019	7/5/2019	12/31/2020
Management	ment	Pompano Beach, FL 33069 (954) 831- Infrastructure 0814 - Fax (954) 831-3285 RSOODEEN@broward.org	Infrastructure			
FDOT D4	14	Gary Blakeney- 7900 Forest Hill Blvd.,WPB 33413-561-370-1128 -	Clean, Televise & Repair Leaks	\$ 426,330.00	5/17/2019	7/25/2021
Town of Davie	Davie	Mike Scott - Mike_Scott@davie-fl.gov	Clean/TV/Sliplining/CIPP	. ↔	12/12/2017	3/23/2020
Town of Davie	Davie	Mike Scott - Mike_Scott@davie-fl.gov	Clean TV Repair	4	6/18/2019	6/17/2020
		)				

Bal Harbour Village	Bal Harbour Village		Clean & TV Storm and Sewer Systems	٠ ج	1/21/2019	1/21/2022
Miami Dade - South Dade	FDOT D6	55 SW 122 3) 329-4199 state.fl.us	Clean, Televise Storm Drainage System	\$ 600,000.00	1/25/2019	1/23/2021
Broward County	Broward College	Eileen Hunt (954) 201-5317 - FAX (954)201-7330 - 6400 NW 6 Way, Ft Lauderdale, FL 33309 Ehunt@broward.edu	Clean, Televise, CIPP	₩	11/27/2018	11/26/2021
District 4 Areas	FDOT D4	Ruben Rodriguez (954) 777-4140 3400 W. Commerical Blvd., Ft Lauderdale, FL 33309 Ruben.Rodriguez@dot.state.fl.us	Clean/TV/Inspection	\$ 380,000.00	1/3/2019	1/3/2022
Lighthouse Point	City of Lighthouse Point Charles Schramm, Terrace, Lighthouse (954) 946-7386 - cshramm@lighthou	Charles Schramm, Jr., 4730 NE 21 Terrace, Lighthouse Point, FL 33064 - (954) 946-7386 - cshramm@lighthousepoint.com	Clean, Televise, CIPP	\$ 176,016.04	8/28/2018	8/27/2021
Indian River Co	Indian River County	Jennifer Hyde, Purchasing Mgr, 1800 27th St., Vero Beach, FL 32960 (772)226-1416 Fax(772)7705140 Purchasing@ircgov.com	CB Cleaning & Tanker Trucks	। <del>ऽ</del>	7/17/2018	7/16/2020
WPB	City of West Palm Beach		WWTPlant Cleaning	Open PO	1/2/2018	1/1/2021
ECR	City of West Palm Beach	718-4517 m Beach, FL	WWTPlant Cleaning	Open PO	12/7/2017	12/6/2020
TP (Homestead to Wildwood), Various expressways, etc	FDOT TP	Erin T. Yao (407) 264-3479 Florida's Turnpike Milepost 263, Bldg 5315, Ocoee, FL 34761 - erin.yao@dot.state.fl.us	Clean, TV, and Assess w/Engineering	स	11/7/2016	11/7/2021
West Palm Beach	City of West Palm Beach	Jay Kwag (561) 758 -1787 HJKwag@wpb.org 401 Clematis St., WPB, FL 33401	Clean/TV/Sliplining/CIPP	\$ 900,000.00	9/21/2015	12/31/2020

Wellington	Village of Wellington		Clean/TV/Sliplining/CIPP	<del>&amp;</del>	- 3/2	3/24/2015	9/24/2020
Broward County	School Board of Broward County	lan Superville - 7720 W. Oakland Park Blvd., #323, Sunrise, FL 33351 (754) 321-0501	Clean, Televise, Sanitary / Storm Drainage	\$ 97,101.94		6/18/2015	6/17/2020
Lauderhill	City of Lauderhill	Charlie Cuyler (954) 730-2960 - 5581 W. Oakland Park Blvd., Lauderhill, FL 33313 - ccuyler@lauderhill-fl.gov	Clean/TV	\$ 337,300.00		9/21/2015	9/20/2018
Palm Beach County	FDOT D4	Mike Dawson 1-561-370-1156 Michael.Dawson@dot.state.fl.us David Praisler 954-695-4136 David.Praisler@dot.state.fl.us	Clean/TV	\$ 620,000.00		3/30/2016	7/20/2019
North Miami	FDOT D6	N Miami 197	Clean/TV	\$ 450,000.00		12/9/2015	1/16/2019
District 4 Areas	FDOT D4	Ruben Rodriguez (954) 777-4140 3400 W. Commerical Blvd., Ft Lauderdale, FL 33309 Ruben.Rodriguez@dot.state.fl.us	Clean/TV/Inspection	\$ 380,000.00		2/5/2016	2/4/2019
Miami Dade - South Dade	FDOT D6	Brian K. Jimmerson - 14655 SW 122 Ave., Miami, FL 33186 (305) 640-7200 Brian.Jimmerson@dot.state.fl.us	Clean/TV	\$ 1,200,000.00		1/19/2016	1/17/2019
Coral Springs	CSID	David McIntosh - (954) 796-6614 10300 NW 11 Manor, Coral Springs, FL 33071 - DavidM@csidfl.org	Tank Cleaning	\$ 225,500.00		3/14/2016	4/28/2021
New Floresta - Boca Raton	City of Boca Raton	Brucely Joseph - (561) 416-0000 - 1401 Clean, Televise, CIPP Glades Rd., Boca Raton, FL 33431 Bjoseph@ci.boca-raton.fl.us	Clean, Televise, CIPP	\$ 573,657.55		10/4/2018	12/31/2018
Palm Beach County	Palm Beach County School Board	Dennis Messerli (561) 434-8507 3300 Forest Hill Blvd. #A323, WPB, FL 33406 Dennis.Messerli@palmbeachschools.or g	Vac Truck	₩	9	6/6/2016	6/17/2018
Palm Beach County	FDOT D4	Stephanie Torres (561) 370-1156 7900 Forest Hill Blvd., WPB 33413 Stephanie Torres@dot.state.fl.us	Clean/TV/Inspection	\$ 750,000.00		4/9/2015	6/7/2018

Broward County	Broward County WWS	Carl Archie 2555 W. Copans Rd.,	Clean/TV/Repairs	\$ 2,065,752.91	1/27/2015	4/26/2018
		Pompano Beach, FL 33069 (954)831-0753 / (954)831-3285 Fax carchie@broward.org				
South Dade County	FDOT D6		Clean/TV	\$ 660,000,00	3/6/2015	3/22/2018
`		Juan Diez (305) 640-7206 / Fax (305)				
		640-7285 / Mob (305) 725-7697				
		14655 SW 122 Ave., Miami, FL 33186				
		Juan.Diez@dot.state.fl.us				
WPB	City of West Palm	Stephen Hunter (561) 822-2068 P.O.	Tank Cleaning	Open PO	11/26/2012	11/25/2017
	Beach	Box 3366, West Palm Beach, FL				
		33402 -Hunter@wpb.org				
WPB	ECR - East Coast	Michael Tranchese (561) 718-4517	Tank Cleaning	Open PO	11/26/2012	11/25/2017
	Central Regional WW -	P.O. Box 3366, West Palm Beach, FL				
	Under WPB					
Lauderdale Lakes	City of Lauderdale	Vincent Richmond (954) 535-2819 Fax	Clean/TV Storm Drainage	\$ 69,495.00	6/28/2016	9/30/2016
	Lakes	(954) 535-0799 4300 NW 36 St.,				
		Lauderdale Lakes, FL 33319				
		VincentR@lauderdalelakes.org				
Martin, St. Lucie, Indian	FDOT D4	Kristy Keller - (772) 429-4895 / (772)	Clean/TV	\$ 260,000.00	5/20/2015	5/19/2017
Counties		467-3164 Fax - 3601 Oleander Ave., Ft				
		Pierce, FL 34982				
		kristy.keller@dot.state.fl.us				
District 4 Areas	FDOT D4	Ruben Rodriguez (954) 777-4140	Clean, Televise, Analyze Storm	\$ 380,000.00	3/26/2013	3/25/2016
		3400 W. Commerical Blvd., Ft	Drainage			
		Lauderdale, FL 33309				
	,	Ruben.Rodriguez@dot.state.fl.us				
North Miami Beach	FDOT D6	Julio Hurtado (786) 877-5988 - 1000	Clean, Televise Storm Drainage	\$ 150,000.00	9/26/2012	9/25/2015
		NW 11th Ave., Miami, FL 33172 -				
		julio.hurtado@dot.state.fl.us				
Broward County	School Board of	Kay Lloyd (754) 321-0504	Clean, Televise, Sanitary /	\$ 65,798.34	4/1/2011	3/31/2016
	Broward County		Storm Drainage			
Martin/St Lucie	FDOT D4	Stacy Golden (772) 465-7396 3601	Clean, Televise Storm Drainage	\$ 130,000.00	11/19/2013	6/7/2015
Counties		Oleander Ave., Ft Pierce, FL 34982				

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## CONTRACTOR PERFORMANCE ASSESSMENT REPORT (CPAR) Construction

### Name/Address of Contractor:

Vendor Name: SHENANDOAH GENERAL CONSTRUCTION LLC

Division Name:

Street: 1888 NW 22ND ST City: POMPANO BEACH State: FL Zip: 330691318

Country: USA CAGE Code:

Unique Entity ID (DUNS): 092840073 Unique Entity ID (SAM): Product/Service Code: Z1PZ Principal NAICS Code: 237990

Evaluation Type: Final

Contract Percent Complete: 100

Period of Performance Being Assessed: 08/01/2019 - 05/07/2020

Contract Number: W912EP19C0021 Business Sector & Sub-Sector: Construction

Contracting Office: US ARMY ENGINEER DISTRICT JACKSONVI Contracting Officer: CRAPPS, ILENE Phone Number: 904-232-1064

Location of Work:

Fort Drum Marsh Conservation Area, Indian River County Florida

Date Signed: 08/01/2019 Effective Date: 08'01/2019

Est. Ultimate Completion Date/Last Date to Order: 09/05/2020 Estimated/Actual Completion Date: 05/07/2020

Base and All Options Value: \$1,901,680 Action Obligation: \$1,901,680

Complexity: Medium Termination Type: None

Extent Competed: Full and Open Competition after Exclusion of Sources Type of Contract: Firm Fixed Price

**Key Subcontractors and Effort Performed:** 

Unique Entity ID (DUNS): Unique Entity ID (SAM):

Effort:

Unique Entity ID (DUNS): Unique Entity ID (SAM):

Effort:

Unique Entity ID (DUNS): Unique Entity ID (SAM):

Effort:

**Project Number:** 

**Project Title:** 

C&SF - Upper St. Johns River Basin S-252D, E, F, and L78R Canal Cross Over Culvert Repairs Indian River County, Florida

Contract Effort Description:

The work includes slip lining a quantity of ten (10) Corrugated Metal Pipe (CMP) culverts, for a total length of approximately 1,228 feet. The existing culverts are all 72 inch CMP and shall be slip lined with 63 inch Outer Diameter (OD) smooth HDPE with the annular space structurally

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Work shall be performed in the wet with divers, and may have a maximum depth of water over the culverts of approximately 12 feet. Cofferdams are not allowed and no work shall be performed in the dry based on the cost of dewatering and requirement to maintain full operations.

The culverts, except at the L-78 canal crossing, have existing 72 inch flap or slide gates as shown in the table below. Slide gates shall be reused. The flap gates shall be removed, discarded, and replaced with 63 inch diameter automatic aluminum flap gates. A manually operated flap gate is not required, as are existing on S-252E culverts.

Structural steel tie-down beams fastened to the existing wooden piling at the S-252D walkway structure shall be replaced by stainless steel tie-down beams. Stainless steel tie-down beams shall be added at the S-252E and S-252F structures. Helical piles shall be installed at S-252E and S-252F as wooden piles don't exist at these structures or have insufficient capacity to resist potential buoyant forces.

The culverts have severe section loss and major penetrations where not covered by grade. It is necessary to cut off these pipes close to the grade of the levee, as they cannot be grouted with such major corrosion.

### **Small Business Subcontracting:**

Does this contract include a subcontracting plan? No

Date of last Individual Subcontracting Report (ISR) / Summary Subcontracting Report (SSR): N/A

Evaluation Areas	Past Rating	Rating
Quality:	N/A	Very Good
Schedule:	N;A	Exceptional
Cost Control:	N/A	Very Good
Management:	N/A	Very Good
Small Business Subcontracting:	N/A	N/A
Regulatory Compliance:	N/A	Satisfactory
Other Areas:		
(1) SAFETY:		Very Good
(2):		$N_{r}A$
(3):		N.A

### Variance (Contract to Date):

Current Cost Variance (%): Variance at Completion (%):

Current Schedule Variance (%):

### **Assessing Official Comments:**

QUALITY. Shenandoah General Construction LLC (Shenandoah) maintained a highly competent quality control staff throughout the duration of the project. Staffing was sufficient to have QC staff at all areas of construction, and maintained a highly professional, structured program that enabled the FOR OFFICIAL USE ONLY

FOR OFFICIAL USE ONLY / SOURCE SELECTION INFORMATION - SEE FAR 2.101, 3.104, AND 42.1503 project to be completed ahead of schedule.

Although this was the first contract for Shenandoah with the Corps of Engineers, their QC team adapted quickly to the process intricacies, as well as the use of the Resident Management System (RMS). The use of RMS, as a contract requirement, was vital for submission of daily reports, contract required submittals, dive logs, and daily turbidity monitoring monitor reports.

Shenandoah's Quality Control Systems Manager, Isaac Boyette, was extremely diligent in meeting the demands of receiving and inspecting the products for quality that were procured for the project. Whether the products were from the factory, or locally manufactured, Isaac did not hesitate to reject the products and demand that were to be returned and re-manufactured to meet the quality requirements.

Underwater work, using an experienced dive team, was a key component of the quality control program. Shenandoah's management of the divers, specifically when unexpected conditions were discovered and mitigated, allowed the project to continue without a differing site condition claim.

Scheduled and unscheduled maintenance of the Government owned servers and database imposed significant issues while working remotely from the project site. The quality control staff was able to overcome the issues in a timely manner and have all required reports submitted as required by the contract.

SCHEDULE: Shenandoah implemented and maintained a very aggressive activity schedule in order to complete the contract requirements 121 days ahead of the scheduled contract completion date. Shenandoah's crews worked tirelessly to maintain the schedule while dealing with multiple opposing issues such as weather, dangerous wildlife (alligators), disgruntled neighbors, and public traffic in and out of the boat ramp, which consisted mainly of civilian recreational crafts. Shenandoah's ability to overcome and adapt to their surroundings allowed for a successful completion well ahead of schedule, with no negative feedback from the public, neighbors, and the St. John's River Water Management District.

COST CONTROL: During this evaluation period, the Contractor managed to perform all contract activities with no contract modifications that would increase the value of the contract due to differing site conditions, weather, or other mitigating factors. Given the advanced schedule for completing the contract requirements, Shenandoah should be commended for taking all necessary measures to ensure the contract performance requirements were met without incurring any additional funding requirements. Which ultimately justifies a significant benefit to the Government.

MANAGEMENT: The project management team appointed by Shenandoah worked tirelessly to ensure that all aspects of the project were completed, not only ahead of schedule, but in an extremely cohesive working environment. The management team maintained constant contact with all agencies related to the operation of the conservation area, to include the use of the boat ramp and the neighboring property that was used by recreational hunters.

The project management team facilitated very strict safety measures in response to the outbreak of the COVID-19 pandemic. For instance, the project management team implemented health screening of their Staff and quartered off areas to general public as a preventative measure of infecting their Staff. Shenandoah's project management applied mission essential criteria in order to

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Subcontractor management was highly successful given the multiple activities requiring constant support from various subcontractors that included both the dive crew and the wildlife control agent.

REGULATORY COMPLIANCE: Regulatory requirements of the contract included Endangered/Threatened Species and Turbidity Monitoring. Turbidity monitoring was properly conducted by Shenandoah, with the assistance of the contracted dive team. No turbidity readings exceeding the environmental standards were noted during any of the slip lining or grouting operations. There were no encounters with any Endangered/Threatened species that were outlined in the contract.

OTHER AREAS. The safety team for Shenandoah Construction maintained a highly visible safety presence during the duration of the contract. The lead Site Safety Health Officer (SSHO), Bob Brice, is a highly knowledgeable, respected safety officer. The safety team was responsible protecting the dive crews while dealing with multiple alligator sightings and captures. There was no type of incidents on site during the duration of construction activities.

Following the onset of site construction activities, the emergence of the worldwide COVID-19 pandemic had dramatic effects on the ability of the Corps of Engineers to provide daily site visits to ensure contract compliance.

All members of Shenandoah's construction team made a concerted effort to provide daily updates to the appropriate members of the Government's Project Delivery Team (PDT). The SSHO, Bob Brice, ensured that all safety measures communicated by the Centers for Disease Control (CDC) and local entities were adhered to by enforcing the appropriate social distancing guidelines of maintaining a 6 foot separation between individuals. The project trailer was deemed inappropriate for conducting any of the required meetings or safety briefings. Mr. Brice was able to conduct all safety meetings outdoors while maintaining the 6 foot separation by not allowing personnel to share any material required for the briefings. There were no known instances of any of the site personnel being tested positive for the COVID-19 virus during the duration of the project.

ADDITIONAL/OTHER: Shenandoah General Construction LLC performed exceptionally well throughout the construction phase of the work. Yet ultimately this Contractor is a prime example of how success can be measured based on a contractors first time working for the Government. Shenandoah had a few hiccups with in the administrative side working for the Government yet they prevailed and caught on quickly with the document requirements.

All field and upper management staff were very professional and easy to work with throughout the contract.

### RECOMMENDATION:

Given what I know today about the contractor's ability to perform in accordance with this contract or order's most significant requirements. I would recommend them for similar requirements in the future.

### Name and Title of Assessing Official:

Name: OKAN NALBANT

Title: Resident Engineer & ACO

Organization: US Army Corps of Engineers

Phone Number: 904-518-2632 Email Address: okan.m.nalbant@usace.army.mil

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Date: 06/30/2020

### **Contractor Comments:**

QUALITY: We are very proud of our employees. We also pride ourselves in giving our customers the best quality possible. Although we had a few hurdles to jump over, the Army Corps. was right there to guide us through the steps. Thanks to

Okan Nalbant, Milt Switanek, and Greg Zoeller, who provided excellent representation of the Corp...

SCHEDULE: Special thanks to our team leader Anthony Guglielmi who organized the entire project from A to Z. Also, Special Thanks to our field leaders Slater Hunter, and Juan Canalas, who put the job well ahead of schedule.

COST CONTROL: Shenandoah has a built in code to avoid change orders whenever possible. Nobody wants to pay extra, and we recognize that.

MANAGEMENT: We are glad we could meet the expectations that our customers have. Especially the Corps. who hold the highest standards of all. We were very challenged by the Corp., but in a good way.

REGULATORY COMPLIANCE: We were happy to do our part to protect the environment of our work site.

OTHER AREAS: Safety is very important to Shenandoah. We need good quality people working for us. Keeping everyone safe only makes good sense for our employees and the Company.

ADDITIONAL/OTHER: We just wanted to say Thank You to all the Army Corps. staff for guiding us through our first Corp. project. Also, recognizing their patience with us as we went through the learning curve. The experience was so positive that we are willing and ready to take on future projects.

CONCURRENCE: I concur with this evaluation.

### Name and Title of Contractor Representative:

Name: DANIEL DIMURA

Title: VP

Phone Number: 954-975-0098 Email Address: d.dimura@shenandoahconstruction.com

Date: 06/30/2020

#### **Review by Reviewing Official:**

SHENANDOAH GENERAL CONSTRUCTION LLC.

This contract was excellent example partnering to produce a successful project. Contractor was technically competent and safety conscious in performing work throughout the construction phase. The did exceptionally well for their first project with the Army Corps. We look forward to working with them again on future projects.

### Name and Title of Reviewing Official:

Name: PAUL COTTER Title: Area Engineer

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Organization: USACE JAX District NFAO

Phone Number: 904-614-8524 Email Address: paul.f.cotter@usace.army.mil

Date: 06/30/2020

Page 1 of 4

## FLORIDA DEPARTMENT OF TRANSPORTATION CONTRACTOR FIELD PERFORMANCE REPORT

375-020-43 MAINTENANCE 1/19

Contractor:	Shenandoah General Construction Company			
Contract:	E4R36-R2			
Evaluation Date:	July 22, 2019			
Type of Evaluation	n: O Periodic			
Category One	ely Completion of Work	Performance		
The Contractor	performed all work in an effective and expedient manner. The Department's expectations pursuit and completion of the work were often exceeded.	Excellent ②		
	occasions, the Contractor completed all of the work within authorized timeframes. The	Satisfactory		
	istently demonstrated sufficient efforts to complete work in a timely fashion. The spectations regarding timely pursuit and completion of the work were usually met and seded.	0		
	occasionally completed the work in a timely manner, but efforts were consistently less than interest involvement was required on more than one occasion to prompt the Contractor to ork.	Unsatisfactory O		
	failed to complete the work in a timely fashion. On several occasions the Contractor failed to timely fashion, and the Contractor made little effort to correct deficiencies. Substantial	Poor		
Department invo	olivement was required to prompt completion of the work, including written correspondence intractor of potential default. Expectations were not met.	0		
Notes & Comments				
Work Documents	were always started and completed in a timely manner. Work was often completed ahead of sch	redule.		

Category Two	Performance			
Maintenance of Traffic (MOT) & Safety Operations  MOT setups and compliance were proper with no correctable complaints from Department personnel and/or				
traveling public. No incidents or injuries occurred within work zones due to improper MOT. Qualified MOT	Excellent			
personnel were present at all times. Expectations were exceeded, Contractor often went above and beyond FDOT Design Standard requirements to ensure safety for both work crews and traveling public.	•			
MOT setups and compliance were mostly proper with few correctable complaints from Department	Satisfactory			
personnel and/or traveling public. No incidents or injuries occurred within work zones due to improper MOT. Qualifled MOT personnel were present. Expectations were met and exceeded occasionally.	0			
MOT setups and compliance were at times achieved, but there were several complaints and/or incidents of non-compliance. No major incidents or injuries occurred within work zones due to improper	Unsatisfactory			
MOT. Qualified MOT personnel were usually present. Some involvement from Department personnel was required on a few occasions. Expectations were not consistently met.	0			
Proper MOT deployment and overall compliance was lacking. Numerous correctable complaints from Department personnel and/or traveling public were noted. An incident with injuries may have occurred	Poor			
within the work zone due to improper MOT. Qualified MOT personnel were seldom on site or in close proximity to the work site. Expectations were not met.	0			
	N/A			
N/A (To be used when MOT was not necessary or included in the contract).	0			
. Notes & Comments				
MOT set-ups were in compliance with Department specifications. We received no complaints from the public MOT personnel were present at all times.	c. Qualified			

375-020-43 MAINTENANCE 1/19

Contractor:	Shenandoah General Construction Company	
Contract:	E4R36-R2	
Evaluation Da	ate: July 22, 2019	
Category 7		Performance
	Complete Submittal of Documents and Reports expondence and documentation were error free and critical dates were met.	
vvillen corre	spondence and documentation were error free and childar dates were met.	Excellent  •
to written cor	dequately followed the contract from a written correspondence perspective. Quality in relation respondence was good with few errors.	Satisfactory O
	personnel encountered issues with the overall quality of the written correspondence or overall contract document submittal.	Unsatisfactory O
Department	ty control from a correspondence/paperwork aspect was not met. Excessive prompting from personnel for required documentation was required and the correction of substandard/ low was necessary. Contractor failed to submit required documents such as Form 21-A within ne.	Poor O
	Notes & Comments	
All invoices a	and requested documentation were provided error free and in a timely manner.	
Category F Overall Qual	Four ity Control, Environmental Compliance, and Compliance with Contract Requirements	Performance

A 4	
Category Four Overall Quality Control, Environmental Compliance, and Compliance with Contract Requirements	Performance
Contractor followed all of the requirements/conditions of the contract with superior quality in accordance with FDOT Standards and Specifications (including environmental issues if applicable). Contractor was self-sufficient requiring no help from the Department.	Excellent
Contractor consistently performed quality work operations according to the contract with few errors.	Satisfactory O
Overall quality control in the field was not consistently met. Department personnel were often required to prompt the Contractor for correction of substandard or low quality work.	Unsatisfactory O
The Department identified notable errors and failures to meet contract requirements. Overall quality control was only met on occasion.	Poor O
Notes & Comments	
Shenandoah is an excellent contractor to work with. They have experience personnel who follow all Departrequirements/conditions. Shenahdoah required no help from the Department and stayed in constant contact contract.	nent t throughout the

	1/19
Contractor: Shenandoah General Construction Company	
Contract: E4R36-R2	
Evaluation Date: July 22, 2019	
Category Five Interaction, Coordination, and Cooperation With Department Personnel, Traveling Public, Other Contractors, Property Owners and Other Governmental Agencies	Performance
Interaction with Department personnel was outstanding; no complaints from the traveling public or adjacen property owners were noted. The Contractor handled any issues that arose, notifying the Department of the outcome. Positive feedback from the public was noted. Expectations were often exceeded.	t Excellent ⊙
Few, if any, complaints from the traveling public or adjacent property owners were noted. When a concert was expressed, the Contractor was quick to resolve it. Positive interaction with Department personnel with some positive feedback from the public was noted. Expectations were always met and occasionally exceeded.	
Some complaints from outside parties and Department personnel were noted (mostly minor in nature). Most complaints were handled in a timely manner. Expectations were not consistently met.	St Unsatisfactory O
Numerous complaints were received about work operations, staging of equipment, and/or poor attitude. The Contractor repeatedly failed to follow instructions; communication and cooperation was inadequate.	Poor O
Notes & Comments	
Interaction between Shenandoah and the Department was excellent. Shenandoah's personnel is very experient available. Shenandoah is a pleasure to work with.	ced and always

Category Six	
Disadvantaged Business Enterprise (DBE) Reporting	Performance
Contractor's staff was very well qualified and capable to address sufficient utilization of the Equal Opportunity Compliance (EOC) System application to collect, review, and report any DBE commitments/payments. Periodic checks of the EOC System by Department personnel revealed no issues and no follow up with the Contractor in regard to DBE issues was required.	Excellent
Contractor's staff sufficiently utilized the Equal Opportunity Compliance (EOC) System to adequately collect, review and report DBE commitments/payments. Periodic checks of the EOC System by Department personnel revealed very few issues and minimal follow up with the Contractor in regard to DBE	Satisfactory O
Contractor demonstrated little interest in utilizing the EOC system to collect, review, and report any DBE commitments/payments. Requests for the Contractor to utilize the system were repeatedly made by Department personnel and follow up with the Contractor was often required.	Unsatisfactory O
Contractor failed to adequately report DBE commitments/payments. Requests for the Contractor to correct errors within the system were repeatedly made by the Department; excessive/recurring assistance to the Contractor was necessary.	Poor O
N/A (To be used when the Contractor is exempt from DBE reporting requirements.)	N/A ⊙
Notes & Comments	
N/A	

Reviewed By:

District Maintenance Engineer

COPIES:
Contractor
Project File
District Maintenance Engineer - Original
Cost Center Manager



RON DESANTIS GOVERNOR 14655 SW 122<sup>nd</sup> Avenue Miami, FL 33186 KEVIN J. THIBAULT SECRETARY

January 22, 2019

7017 3040 0000 9892 6358

Mr. Daniel DiMura, Vice President Shenandoah General Construction Co. 1888 NW 22<sup>nd</sup> Street Pompano Beach, FL 33069 help@shenandoahconstruction.com

RE: Contract: E6K08-R2

Description: Inlet & Pipe Cleaning

Financial#: 252702-7-72-02

Attached is the Final Contractor Field Performance Report (CFPR) for E6K08-R2. Please sign the CFPR and return to this office within 10 business days. If you desire a meeting to discuss the results of the Report, please submit your written request to 14655 SW 122 Av Miami FL, 33186, or email <a href="mailto:bencze.vajta@dot.state.fl.us">bencze.vajta@dot.state.fl.us</a> or fax (305) 640-7287. Written request for a meeting must be received by this office within ten (10) business days from your receipt of this letter. If requested, the Project Manager will schedule the meeting based on a mutually agreed upon time and date at a location selected by the Department. If a meeting is not requested, or you fail to attend the meeting that is scheduled to discuss the CFPR, you will be deemed to have accepted the Final CFPR and forfeit your dispute rights.

Sincerely,

Bencze Vajta

Roadway Area Manager

cc: R. Marrero, L Salazar, B. Jimmerson, H. Bechtold, K. Al-Said, E6K08-R2 Contract's file

## STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION CONTRACTOR FIELD DEPENDEMANCE DEPONT

375-020-43 MAINTENANCE 08/14

FIELD PERFORMANCE REPORT

Contractor: Shenandoah General Construction

Contract: E 6kg R2

Contract: E-6k08-R2 Evaluation Date: 01-14-19 Type of Evaluation: O Periodic Final Category One Performance **Pursuit and Timely Completion of Work** The Contractor performed all work in an effective and expedient manner. The Department's Excellent expectations regarding timely pursuit and completion of the work were often exceeded. (ullet)Except for a few occasions, the Contractor completed all of the work within authorized timeframes. The Satisfactory Contractor consistently demonstrated sufficient efforts to complete work in a timely fashion. The Department's expectations regarding timely pursuit and completion of the work were usually met and sometimes exceeded. The Contractor occasionally completed the work in a timely manner, but efforts were consistently less Unsatisfactory than adequate. Department involvement was required on more than one occasion to prompt the ()Contractor to complete the work. The Contractor failed to complete the work in a timely fashion. On several occasions the Contractor Poor failed to begin work in a timely fashion, and the Contractor made little effort to correct deficiencies. Substantial Department involvement was required to prompt completion of the work, including written correspondence advising the Contractor of potential default. Expectations were not met. Notes & Comments The contractor has provided excellent timely work and has no problems with department personal expectation. Contractor was very attentive to cover all areas to be cleaned such as the heavy traffic intersections that some times had to be done at night. JD/MA

Category Two	
Maintenance of Traffic (MOT) & Safety Operations	Performance
MOT setups and compliance were proper with no correctable complaints from Department personnel and/or traveling public. No incidents or injuries occurred within work zones due to improper MOT.  Qualified MOT personnel were present at all times. Expectations were exceeded, Contractor often went above and beyond FDOT Design Standard requirements to ensure safety for both work crews and traveling public.	Excellent
MOT setups and compliance were mostly proper with few correctable complaints from Department personnel and/or traveling public. No incidents or injuries occurred within work zones due to improper MOT. Qualified MOT personnel were present. Expectations were met and exceeded occasionally.	Satisfactory
MOT setups and compliance were at times achieved, but there were several complaints and/or incidents of non-compliance. No major incidents or injuries occurred within work zones due to improper MOT. Qualified MOT personnel were usually present. Some involvement from Department personnel was required on a few occasions. Expectations were not consistently met.	Unsatisfactory
Proper MOT deployment and overall compliance was lacking. Numerous correctable complaints from Department personnel and/or traveling public were noted. An incident with injuries may have occurred within the work zone due to improper MOT. Qualified MOT personnel were seldom on site or in close proximity to the work site. Expectations were not met.	Poor
N/A (To be used when MOT was not necessary or included in the contract).	N/A
Notes & Comments	
The contraction applicates did a consistent of providing each other action, protection when execution the	1-41/

The contractor employees did a a great job of providing each other safety protection when operating the Jet Vactor and the truck mounted attenuator to preform their moving operations the road way shoulders and the medians operation. Expectation were met by the contractor.

The Mot standards were applied correctly in a daily basis. JD/MA

375-020-43 MAINTENANCE 05/14

Contractor: Shenandoah General Construction

Contract: E-6k08-R2 Evaluation Date: 01-14-19 Category Three Performance Timely and Complete Submittal of Documents and Reports Excellent Written correspondence and documentation were error free and critical dates were met. Satisfactory Contractor adequately followed the contract from a written correspondence perspective. Quality in relation to written correspondence was good with few errors. Unsatisfactory Department personnel encountered issues with the overall quality of the written correspondence or overall timeliness of contract document submittal. Overall quality control from a correspondence/paperwork aspect was not met. Excessive prompting Poor from Department personnel for required documentation was required and the correction of substandard/ low quality work was necessary. Contractor failed to submit required documents such as Form 21-A within allowable time. Notes & Comments The contractors office personal preformed a good job on submitting and providing all written correspondence and documentation to the department with few errors and met the required dates. The contractor always tried to make sure all the supporting documents were attached to the invoice and work documents were completed accurately and signed with the correct dates and the required signatures. JD/MA Category Four Overall Quality Control, Environmental Compliance, and Compliance with Contract Performance Requirements Excellent Contractor followed all of the requirements/conditions of the contract with superior quality in accordance with FDOT Standards and Specifications (including environmental issues if applicable). Contractor was self-sufficient requiring no help from the Department. Satisfactory Contractor consistently performed quality work operations according to the contract with few errors. (ullet)Unsatisfactory Overall quality control in the field was not consistently met. Department personnel were often required to prompt the Contractor for correction of substandard or low quality work. Poor The Department identified notable errors and failures to meet contract requirements. Overall quality  $\bigcirc$ control was only met on occasion. Notes & Comments The contractor followed all requirements/conditions of the contract, and they continued to provide quality work to the department. The contractor's field personal always try to provide quality work and always try to take pictures of the work that has been done and properly mark the structures thats has been cleaned with spray paint. JD/MA

375-020-43 MAINTENANCE 06/14

Contractor: Shenandoah General Construction

Contract: E-6k08-R2	
Evaluation Date: 01-14-19	
Category Five Interaction, coordination, and cooperation with Department personnel, traveling public, other contractors, property owners and other Governmental agencies	Performance
Interaction with Department personnel was outstanding; no complaints from the traveling public or adjacent property owners were noted. The Contractor handled any issues that arose, notifying the Department of the outcome. Positive feedback from the public was noted. Expectations were often exceeded.	Excellent
Few, if any, complaints from the traveling public or adjacent property owners were noted. When a concern was expressed, the Contractor was quick to resolve it. Positive interaction with Department personnel with some positive feedback from the public was noted. Expectations were always met and occasionally exceeded.	Satisfactory
Some complaints from outside parties and Department personnel were noted (mostly minor in nature).  Most complaints were handled in a timely manner. Expectations were not consistently met.	Unsatisfactory
Numerous complaints were received about work operations, staging of equipment, and/or poor attitude. The Contractor repeatedly failed to follow instructions; communication and cooperation was inadequate.	Poor
Notes & Comments	
The contractor has never received complains from traveling public or property owners. When the department has any concerns or issues the contractor always been quick to resolve them. The field crew were highly qualified and capable to solve problems on daily basis such as finding buried shown in the Gis plans provided by us. Coordination with the department was very good. JD/MA	manholes not
Category Six	,

Disadvantaged Business Enterprise (DBE) Reporting	Performance
Contractor's staff was very well qualified and capable to address sufficient utilization of the Equal Opportunity Compliance (EOC) System application to collect, review, and report any DBE commitments/payments. Periodic checks of the EOC System by Department personnel revealed no issues and no follow up with the Contractor in regard to DBE issues was required.	Excellent
Contractor's staff sufficiently utilized the Equal Opportunity Compliance (EOC) System to adequetely collect, review and report DBE commitments/payments. Periodic checks of the EOC System by Department personnel revealed very few issues and minimal follow up with the Contractor in regard to DBE issues was required.	Satisfactory
Contractor demonstrated little interest in utilizing the EOC system to collect, review, and report any DBE commitments/payments. Requests for the Contractor to utilize the system were repeatedly made by Department personnel and follow up with the Contractor was often required.	Unsatisfactory
Contractor failed to adequately report DBE commitments/payments. Requests for the Contractor to correct errors within the system were repeatedly made by the Department; excessive/recurring assistance to the Contractor was necessary.	Poor
N/A (To be used when the Contractor is exempt from DBE reporting requirements.)	N/A
Notes & Comments	
The contractor has provided all requirement in regards to DBE information. JD/MA	

375-020-43	
MAINTENANCE	
06/14	ı

Overall Score	97	Contractor: Shenandoah General Construction
		Contract: E-6k08-R2
		Evaluation Date: 01-14-19

### Summary

Overall the contractor has successfully provided all work with excellent work ethics. The contractor continued to provide the Department proper documentation and submittal in a timely manner. The accuracy of the documentation made the department work easy. Interaction, communication, and coordination with department was very good. Shenandoah did a very good job during this period. The department is looking forward to working with them in the future. JD/MA

Pursuit and Timely Completion of Work	Excellent	
Maintenance of Traffic (MOT) & Safety Operations	Excellent	_
Timely and Complete Submittal of Documents and Reports	Excellent	
Overall Quality Control, Environmental Compliance, and Compliance with Contract Requirements	Satisfactory	_
Interaction, coordination, and cooperation with Department personnel, traveling public, other contractors, property owners and Government agencies	Excellent	
Disadvantaged Business Enterprise (DBE) Reporting	Excellent	

1/23/19

CONTRACTOR Date

(Signature does not indicate concurrence)

Submitted By:

Project Manager

Data

Reviewed By:

Cost Center Manager

24/20

Reviewed By

District Maintenance Engineer

Data

COPIES:

Contractor Project File

District Maintenance Engineer - Original

Cost Center Manager



RON DESANTIS GOVERNOR 14655 SW 122nd Avenue Miami, FL 33186-6102 KEVIN J. THIBAULT SECRETARY

February 06, 2020 7017 3040 0000 9892 6679

Shenandoah General Construction Co. 1888 NW 22 Street Pompano Beach, FL 33069 (954) 975-0098 margaret.lary@shenandoahconstruction.com

RE: Contract: E6M12-R0

Description: Drainage Cleaning Financial#: 252702-9-72-01

Attached is the Final Contractor Field Performance Report (CFPR) for E6M12-R0. Please sign the CFPR and return to this office within 10 business days. If you desire a meeting to discuss the results of the Report, please submit your written request to 14655 SW 122 Av Miami FL, 33186, or email bencze.vajta@dot.state.fl.us or fax (305) 640-7287. Written request for a meeting must be received by this office within ten (10) business days from your receipt of this letter. If requested, the Project Manager will schedule the meeting based on a mutually agreed upon time and date at a location selected by the Department. If a meeting is not requested, or you fail to attend the meeting that is scheduled to discuss the CFPR, you will be deemed to have accepted the Final CFPR and forfeit your dispute rights.

Sincerely,

Benoze Vajta

Roadway Area Manager

cc: R. Marrero, L Salazar, B. Jimmerson, H. Bechtold, K. Al-Said, E6M12-R0 Contract's file

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

## CONTRACTOR FIELD PERFORMANCE REPORT

375-020-43 MAINTENANCE 06/14

Contractor: Shenandoah General Construction

Contract: E-6M12-R0 Evaluation Date: February 6, 2020 Type of Evaluation: O Periodic Final Category One Pursuit and Timely Completion of Work Performance The Contractor performed all work in an effective and expedient manner. The Department's Excellent expectations regarding timely pursuit and completion of the work were often exceeded. Except for a few occasions, the Contractor completed all of the work within authorized timeframes. The Satisfactory Contractor consistently demonstrated sufficient efforts to complete work in a timely fashion. The Department's expectations regarding timely pursuit and completion of the work were usually met and sometimes exceeded. The Contractor occasionally completed the work in a timely manner, but efforts were consistently less Unsatisfactory than adequate. Department involvement was required on more than one occasion to prompt the ()Contractor to complete the work. The Contractor failed to complete the work in a timely fashion. On several occasions the Contractor Poor failed to begin work in a timely fashion, and the Contractor made little effort to correct deficiencies. Substantial Department involvement was required to prompt completion of the work, including written correspondence advising the Contractor of potential default. Expectations were not met. **Notes & Comments** Contractor provided excellent timely work and has no problems with department. Contractor was very attentive to cover all areas to be cleaned such as the heavy traffic intersections that some times had to be done at night. Category Two Maintenance of Traffic (MOT) & Safety Operations Performance Excellent

#### MOT setups and compliance were proper with no correctable complaints from Department personnel and/or traveling public. No incidents or injuries occurred within work zones due to improper MOT. Qualified MOT personnel were present at all times. Expectations were exceeded, Contractor often went above and beyond FDOT Design Standard requirements to ensure safety for both work crews and (•) traveling public. MOT setups and compliance were mostly proper with few correctable complaints from Department personnel and/or traveling public. No incidents or injuries occurred within work zones due to improper MOT. Qualified MOT personnel were present. Expectations were met and exceeded occasionally. Satisfactory ( ) MOT setups and compliance were at times achieved, but there were several complaints and/or incidents of non-compliance. No major incidents or injuries occurred within work zones due to improper Unsatisfactory MOT. Qualified MOT personnel were usually present. Some involvement from Department personnel was required on a few occasions. Expectations were not consistently met. Proper MOT deployment and overall compliance was lacking. Numerous correctable complaints from Poor Department personnel and/or traveling public were noted. An incident with injuries may have occurred within the work zone due to improper MOT. Qualified MOT personnel were seldom on site or in close proximity to the work site. Expectations were not met. N/A N/A (To be used when MOT was not necessary or included in the contract). Notes & Comments The contractor employees did a a great job on providing each other safety protection when operating the Jet Vactor and the truck mounted attenuator, to preform their moving operations. No incidents or injuries occurred. Expectation was met by the contractor. The MOT standards were applied correctly in a daily basis.

375-020-43 MAINTENANCE 06/14

Contractor: Shenandoah General Construction

Contract: E-6M12-R0 Evaluation Date: Feb 6, 2020 Category Three Timely and Complete Submittal of Documents and Reports Performance Excellent Written correspondence and documentation were error free and critical dates were met.  $\odot$ Satisfactory Contractor adequately followed the contract from a written correspondence perspective. Quality in relation to written correspondence was good with few errors. Unsatisfactory Department personnel encountered issues with the overall quality of the written correspondence or overall timeliness of contract document submittal. Overall quality control from a correspondence/paperwork aspect was not met. Excessive prompting Poor from Department personnel for required documentation was required and the correction of substandard/ low quality work was necessary. Contractor failed to submit required documents such as Form 21-A within allowable time. Notes & Comments The contractor's office personnel did a good job on submitting and providing all written correspondence and documentation to the department with few errors and met the required dates. The contractor always tried to make sure all the supporting documents were attached to the invoice and work documents were completed accurately and signed with the correct dates and the required signatures. Category Four Overall Quality Control, Environmental Compliance, and Compliance with Contract Performance Requirements Excellent Contractor followed all of the requirements/conditions of the contract with superior quality in accordance with FDOT Standards and Specifications (including environmental issues if applicable). Contractor was  $(\bullet)$ self-sufficient requiring no help from the Department. Satisfactory Contractor consistently performed quality work operations according to the contract with few errors. Unsatisfactory Overall quality control in the field was not consistently met. Department personnel were often required to prompt the Contractor for correction of substandard or low quality work. ( ) Poor The Department identified notable errors and failures to meet contract requirements. Overall quality  $\bigcirc$ control was only met on occasion. Notes & Comments The contractor followed all requirements/conditions of the contract, and they continued to provide quality work to the department. The contractor's field personnel always try to have quality work and always try to take pictures of the work that has been done and properly mark the structures that has been cleaned with spray paint.

375-020-43 MAINTENANCE 06/14

Contractor: Shenandoah General Construction

Contract: E-6M12-R0

Evaluation Date: Feb 6, 2020 Category Five Interaction, coordination, and cooperation with Department personnel, traveling public, other Performance contractors, property owners and other Governmental agencies Interaction with Department personnel was outstanding; no complaints from the traveling public or adjacent property owners were noted. The Contractor handled any issues that arose, notifying the Department of the outcome. Positive feedback from the public was noted. Expectations were often Excellent exceeded. Few, if any, complaints from the traveling public or adjacent property owners were noted. When a Satisfactory concern was expressed, the Contractor was quick to resolve it. Positive interaction with Department personnel with some positive feedback from the public was noted. Expectations were always met and occasionally exceeded. Unsatisfactory Some complaints from outside parties and Department personnel were noted (mostly minor in nature). Most complaints were handled in a timely manner. Expectations were not consistently met. Poor Numerous complaints were received about work operations, staging of equipment, and/or poor attitude. The Contractor repeatedly failed to follow instructions; communication and cooperation was inadequate. Notes & Comments The contractor never received complains from traveling public or property owners. When the department has any concems or issues the contractor always been quick to resolve them. The field crew was highly qualified and capable to solve problems on daily basis such as finding buried manholes and removing roots by using ROOTX such as in the location SW 40th street, Bird Rd in Front of the school on the comer of Ponce Deleon. Coordination with the department was very good. Category Six Performance Disadvantaged Business Enterprise (DBE) Reporting Contractor's staff was very well qualified and capable to address sufficient utilization of the Equal Opportunity Compliance (EOC) System application to collect, review, and report any DBE Excellent  $\odot$ commitments/payments. Periodic checks of the EOC System by Department personnel revealed no issues and no follow up with the Contractor in regard to DBE issues was required.

Contractor's staff sufficiently utilized the Equal Opportunity Compliance (EOC) System to adequately collect, review and report DBE commitments/payments. Periodic checks of the EOC System by Satisfactory Department personnel revealed very few issues and minimal follow up with the Contractor in regard to DBE issues was required. Contractor demonstrated little interest in utilizing the EOC system to collect, review, and report any Unsatisfactory DBE commitments/payments. Requests for the Contractor to utilize the system were repeatedly made by Department personnel and follow up with the Contractor was often required. Contractor failed to adequately report DBE commitments/payments. Requests for the Contractor to Poor correct errors within the system were repeatedly made by the Department; excessive/recurring assistance to the Contractor was necessary. N/A N/A (To be used when the Contractor is exempt from DBE reporting requirements.) Notes & Comments The contractor met all the requirements in regards to DBE information.

375-020-43
MAINTENANCE
06/14

		MAINTENANC d8/1			
Overali Score 100	Contractor: S	henandoah General Construction			
	Contract: E-6M12-R0				
	Evaluation Date: F	eb 6, 2020			
the Department proper documentation	y provided all work with excellent work eth and submitted in a timely manner. The ac communication, and coordination with the c	ccuracy of the documentation made the			
Pursuit and Timely Completion of World	'k	Excellent			
Maintenance of Traffic (MOT) & Safety	y Operations	Excellent			
Timely and Complete Submittal of Documents and Reports		Excellent			
Overall Quality Control, Environmental Compliance, and Compliance with Contract Requirements		Excellent			
Interaction, coordination, and cooperat traveling public, other contractors, proj and Government agencies		Excellent			
Disadvantaged Business Enterprise (DBE) Reporting		Excellent			
CONTRACTOR (Signature does not indicate concurrence)	Date Reviewed By: Cost Ce	Manager Date  Date  Date  Date  Date  Date  Date  Date  Date			

COPIES: Contractor Project File District Maintenance Engineer - Original Cost Center Manager



### Florida Department of Transportation

RON DESANTIS GOVERNOR 1773 NE 205<sup>th</sup> Street North Miami Beach, FL 33179 KEVIN J. THIBAULT SECRETARY

2/5/2019

Mr. Daniel DiMura Shenandoah General Construction Co. 1888 NW 22<sup>ND</sup> Street Pompano Beach, Florida 33069

Reference : FINAL CONTRACTOR FIELD PERFORMANCE REPORT

State Project Description : Inlet & Pipe Cleaning

State Contract Id : E6K04-R2
State Project Number : 430113-1-72-02
County : Miami-Dade

Dear Mr. DiMura,

Please find attached the Contractor Field Performance Report (CFPR) for contract Id E6K04-R2 between the Department and Shenandoah General Construction Co.

The CFPR is to be sent no later than twenty (20) business days after the end of the previous contract term or after all required closeout documents have been received from the contractor. It is my understanding the Department has received all required closeout documents from the contractor for this term of the contract.

Please sign the CFPR and return it to this office within ten (10) business days. If you desire a meeting to discuss the results of the Report (CFPR) please submit your written request to me, Dani Goodwin, at the above-referenced location identified in this letterhead or via an E-Mail c/o dani.goodwin@dot.state.fl.us.

Written requests for a meeting must be received by this office within ten (10) business days from your receipt of this letter. You will be deemed to have accepted the FINAL CFPR and forfeit your dispute rights if a meeting is not requested or if you fail to attend the meeting that is scheduled to discuss the CFPR.

Sincerely,

Dani Goodwin, P.E.

North Dade Maintenance Area Manager Florida Department of Transportation

Cc: Renato Marrero, P.E., District Six Maintenance Engineer; Richard Kenny, ND Maintenance Operations Manager, Ivanohe Hernandez, P.E, ND Maintenance Engineer, E6K04-R2 Contract File

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

### CONTRACTOR FIELD PERFORMANCE REPORT

375-020-43 MAINTENANCE 06/14

Contractor: Shenandoah General Construction. Co. Contract: E6K04-R2 Evaluation Date: 2/5/2019 Final Type of Evaluation: ( ) Periodic **Category One** Performance **Pursuit and Timely Completion of Work** The Contractor performed all work in an effective and expedient manner. The Department's Excellent expectations regarding timely pursuit and completion of the work were often exceeded. **(•**) Satisfactory Except for a few occasions, the Contractor completed all of the work within authorized timeframes. The Contractor consistently demonstrated sufficient efforts to complete work in a timely fashion. The ()Department's expectations regarding timely pursuit and completion of the work were usually met and sometimes exceeded. The Contractor occasionally completed the work in a timely manner, but efforts were consistently less Unsatisfactory than adequate. Department involvement was required on more than one occasion to prompt the ( ) Contractor to complete the work. The Contractor failed to complete the work in a timely fashion. On several occasions the Contractor Poor failed to begin work in a timely fashion, and the Contractor made little effort to correct deficiencies. Substantial Department involvement was required to prompt completion of the work, including written correspondence advising the Contractor of potential default. Expectations were not met. Notes & Comments Work orders were completed on a timely manner, with Departments expectations often exceeded. Category Two Performance Maintenance of Traffic (MOT) & Safety Operations MOT setups and compliance were proper with no correctable complaints from Department personnel Excellent and/or traveling public. No incidents or injunes occurred within work zones due to improper MOT. Qualified MOT personnel were present at all times. Expectations were exceeded, Contractor often went above and beyond FDOT Design Standard requirements to ensure safety for both work crews and traveling public Satisfactory MOT setups and compliance were mostly proper with few correctable complaints from Department personnel and/or traveling public. No incidents or injuries occurred within work zones due to improper MOT. Qualified MOT personnel were present. Expectations were met and exceeded occasionally. MOT setups and compliance were at times achieved, but there were several complaints and/or Unsatisfactory incidents of non-compliance. No major incidents or injuries occurred within work zones due to improper MOT. Qualified MOT personnel were usually present. Some involvement from Department personnel was required on a few occasions. Expectations were not consistently met. Proper MOT deployment and overall compliance was lacking. Numerous correctable complaints from Department personnel and/or traveling public were noted. An incident with injuries may have occurred within the work zone due to improper MOT. Qualified MOT personnel were seldom on site or in close Poor  $\bigcirc$ proximity to the work site. Expectations were not met. N/A N/A (To be used when MOT was not necessary or included in the contract).

Notes & Comments

Contractor complied with FDOT standards for Maintenance of Traffic, Traffic Control Plans and an overall commitment to

safe work zones, with few correctable issues. No incidents of injuries occurred within the work zone.

375-020-43 MAINTENANCE

Contractor: Shenandoah General Construction Co.

Contract: E6K04-R2 Evaluation Date: 2/5/2019 Category Three Timely and Complete Submittal of Documents and Reports Performance Excellent Written correspondence and documentation were error free and critical dates were met. Satisfactory Contractor adequately followed the contract from a written correspondence perspective. Quality in  $\odot$ relation to written correspondence was good with few errors. Unsatisfactory Department personnel encountered issues with the overall quality of the written correspondence or overall timeliness of contract document submittal. Overall quality control from a correspondence/paperwork aspect was not met. Excessive prompting Poor from Department personnel for required documentation was required and the correction of substandard/ low quality work was necessary. Contractor failed to submit required documents such as Form 21-A  $\bigcirc$ within allowable time. Notes & Comments Contractor provided proper contract documents with few errors and reported progress of work on a daily basis. Category Four Overall Quality Control, Environmental Compliance, and Compliance with Contract Performance Requirements Excellent Contractor followed all of the requirements/conditions of the contract with superior quality in accordance with FDOT Standards and Specifications (including environmental issues if applicable). Contractor was ()self-sufficient requiring no help from the Department. Satisfactory Contractor consistently performed quality work operations according to the contract with few errors. Unsatisfactory Overall quality control in the field was not consistently met. Department personnel were often required to prompt the Contractor for correction of substandard or low quality work. Poor The Department identified notable errors and failures to meet contract requirements. Overall quality 0 control was only met on occasion. Notes & Comments Consistently deliver satisfactory quality of work with few errors and showing willingness to improve.

375-020-43 MAINTENANCE 06/14

N/A

Contractor: Shenandoah General Construction Co.

Contract: E6K04-R2

Evaluation Date: 2/5/2019

Category Five					
Interaction, coordination, and cooperation with Department personnel, traveling public, other contractors, property owners and other Governmental agencies	Performance				
Interaction with Department personnel was outstanding; no complaints from the traveling public or adjacent property owners were noted. The Contractor handled any issues that arose, notifying the Department of the outcome. Positive feedback from the public was noted. Expectations were often exceeded.					
Few, if any, complaints from the traveling public or adjacent property owners were noted. When a concern was expressed, the Contractor was quick to resolve it. Positive interaction with Department personnel with some positive feedback from the public was noted. Expectations were always met and occasionally exceeded.	Satisfactory				
Some complaints from outside parties and Department personnel were noted (mostly minor in nature). Most complaints were handled in a timely manner. Expectations were not consistently met.	Unsatisfactory				
Numerous complaints were received about work operations, staging of equipment, and/or poor attitude. The Contractor repeatedly failed to follow instructions; communication and cooperation was inadequate.	Poor				
Notes & Comments					
Catagon, Six					
Category Six Disadvantaged Business Enterprise (DBE) Reporting	Performance				
Contractor's staff was very well qualified and capable to address sufficient utilization of the Equal Opportunity Compliance (EOC) System application to collect, review, and report any DBE commitments/payments. Periodic checks of the EOC System by Department personnel revealed no issues and no follow up with the Contractor in regard to DBE issues was required.	Excellent				
Contractor's staff sufficiently utilized the Equal Opportunity Compliance (EOC) System to adequately collect, review and report DBE commitments/payments. Periodic checks of the EOC System by Department personnel revealed very few issues and minimal follow up with the Contractor in regard to DBE issues was required.	Satisfactory				
Contractor demonstrated little interest in utilizing the EOC system to collect, review, and report any DBE commitments/payments. Requests for the Contractor to utilize the system were repeatedly made by Department personnel and follow up with the Contractor was often required.	Unsatisfactory				
Contractor failed to adequately report DBE commitments/payments. Requests for the Contractor to correct errors within the system were repeatedly made by the Department; excessive/recurring assistance to the Contractor was necessary.	Poor				

Notes & Comments

N/A (To be used when the Contractor is exempt from DBE reporting requirements.)

375-020-43 MAINTENANCE 06/14

Overall Score	91	Contractor: Shenandoah General Construction Co. Contract: E6K04-R2			
_					
		Evalua	ation Date: <u>2/5/2019</u>		
Summary					
Shenandoah Gene work on a timely m work.	eral Construction Co. me eanner, complying with M	t and occasionally exceed IOT standards and coope	ded the Department's expectations rating with Departments personne	s, by completing el to complete the	
Pursuit and Timely Completion of Work		Excel	Excellent		
Maintenance of Traffic (MOT) & Safety Operations			Satisfa	Satisfactory	
Timely and Complete Submittal of Documents and Reports			Satisfa	Satisfactory	
Overall Quality Control, Environmental Compliance, and Compliance with Contract Requirements			Satisfa	Satisfactory	
	ner contractors, property	with Department personne owners	el, Excel	lent	
Disadvantaged Business Enterprise (DBE) Reporting		N/#	N/A		
- 0		Submitted By:		2/5/2619	
	2/25/19		Project Manager	Date	
N 0		Reviewed By:	2011	2/3/20/1	
CONTRACTOR (Signature does not i	D ndicate concurrence)	ate	Cost Center Manager	Date	
(Olgitatore Coco flori	indicate contact of	Reviewed By:		21219	
			District Maintenance Engineer	Date	
COPIES:					

COPIES:
Contractor
Project File
District Maintenance Engineer - Original
Cost Center Manager



# SECTION 8A PRIME CONSULTANT RESUMES OF KEY PERSONNEL





Engineers ● Surveyors ● Subsurface Utility Engineering ● 3D Subsurface Imaging ● Utility Coordination

#### **Areas of Expertise**

- Project Management
- Quality Assurance/Quality Control
- Stormwater Master Planning, Design, Implementation & Management
- Roadway Design & Management
- Resource Management
- Project Scheduling
- Project Budgeting
- Constructability Review

#### **Education**

- Auburn University, Auburn, Alabama Bachelor of Science, Civil Engineering 1988
- Auburn University, Auburn, Alabama
   Bachelor of Science, Building Construction -1986

#### Licensure

 Florida Licensed Engineer PE48914

#### **Affiliations**

- Florida Engineering Society (FES)
- American Society of Civil Engineers (ASCE)
- Florida Institute of Consulting Engineers

Employment with CAS: 31 yrs Employment with other firms: 3 yrs

#### Stephen C. Smith, P.E.

Senior Vice President/C00

Mr. Smith has over 34 years of experience in the engineering, survey and utility construction fields.



Mr. Smith's responsibilities include management of daily business operations for a 40+ member civil engineering and surveying firm with gross sales of \$5+ million. He oversees all areas of business including engineering, surveying, construction management services, subsurface utility engineering, accounting and human resources. Specifically, Mr. Smith also oversees all transportation/roadway and stormwater projects including studies, reports and design. He ensures proper allocation of resources, staffing, financial management, quality control and timely project completion.

#### **Selected Relative Experience:**

Utility Master Plan, Design and Construction Management for Town Wide 6 Phase Stormwater Improvement Plan and Water Main Replacement - Town of Golden Beach, Miami-Dade County, Florida. Responsible for the master planning, project management, resource allocation, scheduling, budgeting and quality assurance of the stormwater and watermain and utility undergrounding design. Also responsible for the project management of the stormwater and water main construction and implementation.

Stormwater Master Plan, Design and Construction Management for City Wide Priority Based Stormwater Improvement Plan - City of Oakland Park, Broward County, Florida. Responsible for the master planning, project management, resource allocation and quality assurance of the stormwater design, as well as the project management of the stormwater construction and implementation.

Stormwater Master Plan, Design and Construction Management for City Wide 6
Phase Stormwater Improvement Plan - City of Sweetwater, Miami-Dade County,
Florida. Responsible for the master planning, project management, resource
allocation, scheduling, budgeting and quality assurance of the stormwater
design, as well as the project management of the stormwater construction and
implementation.

Andrews Avenue Widening and Intersection Improvements - Broward County, Florida. Responsible for the roadway widening and stormwater design improvements from Cypress Road to Racetrack Road, including intersection improvements at McNab Road and Racetrack Road. Performed project management for construction observation services.

**Biscayne Boulevard Widening and Intersection Improvements - Miami-Dade County, Florida (FDOT District 6).** Responsible for the roadway widening and stormwater design improvements from NE 163<sup>rd</sup> Street to 203<sup>rd</sup> Street, including intersection improvements.



Engineers ● Surveyors ● Subsurface Utility Engineering ● 3D Subsurface Imaging ● Utility Coordination

#### **Areas of Expertise**

- Project Management
- Cost Estimating
- Water and Sewer Pipeline Design
- Sewer Pump Station Design
- Stormwater Management
   Systems Design
- Permitting
- Bidding Services
- Construction Management
- Constructability Reviews

#### **Education**

- (AA) Miami-Dade College
- (BS Civil Engineering) Florida
   International University
- (MS Environmental Engineering) Florida International University

#### Licensure

Florida Licensed Professional
 Engineer – # PE55459

Employment with CAS: 4 yrs Employment with other firms: 20 yrs

#### Frank Vilar, P.E.

Senior Supervising Engineer Engineering Department

Mr. Vilar has 24 years of professional experience managing and designing numerous public and private sector projects throughout the South Florida region.



Extensive experience in the design of water and wastewater systems, design of drainage and storm water management systems, site design and development, permitting through various South Florida Regulatory Agencies, preparation of contract documents and bid specifications and construction management and inspections.

#### **Selected Relative Experience:**

Town of Pembroke Park SW 31st Avenue Stormwater Improvements – Pembroke Park, Florida. Survey and design of a stormwater management system to serve an existing 1.2 acre commercial/residential flood prone area in the Town of Pembroke Park. Proposed improvements included 2,050 linear feet of roadway improvements by re-grading the existing roadway from a crowned road to an inverted crown section and included addition of approximately 1,800 linear feet of exfiltration trench. Additional project related responsibilities included pavement marking & signage, permitting, cost estimating and preparation of the construction contract documents and bidding services. Construction services were also provided and included shop drawing reviews, review and approval of pay requests, general construction management, field inspections to review Contractor installation of proposed work and final certification to all regulatory agencies through project close-out.

S.W. 25th Street Stormwater Improvements, Pembroke Park, FL: Multi phase stormwater improvement project totaling 14.34 acres. Current project scope was the design of Phase I and II which was a 2.44 Acre drainage sub basin area. The purpose of the project was to alleviate flooding in the Town of Pembroke Park by improving hydraulic conveyance throughout the existing stormwater drainage system serving the 14.34 acre study area. A hydraulic analysis to determine the acceptable level of service to the Town was performed by the development of an ICPR model for the project area. In order to develop the ICPR model, a comprehensive review of existing survey and utility information, available record drawings, aerial photography and field investigations were performed. Proposed recommendations were made for upsizing the existing stormwater drainage pipes by analyzing the ICPR results for reduction in peak stages and flood duration times in the pre and post conditions. Existing discharge pipes were upsized from 24" to new 54" diameter drainage pipes. Subsequent to the drainage analysis being completed, civil plans were prepared and the project was permitted and bid.

Westgate CRA North Infrastructure Improvements Phases IV, V, and VI, West Palm Beach, FL: The proposed improvements included design and permitting services for the construction of the last three phases of a six phase 140-acre site for the Westgate Community Redevelopment Agency and located in West Palm Beach. The improvements involved paving, grading and drainage, water main and sanitary sewer improvements within this existing subdivision comprised of mainly residential and commercial properties. Responsibilities included the design of water, sewer, drainage, roadway, and pavement marking and signage. Permitting, bidding and negotiating and cost estimating services were also provided.



Engineers ● Surveyors ● Subsurface Utility Engineering ● 3D Subsurface Imaging ● Utility Coordination

#### **Areas of Expertise**

- Water & Sewer Utility
   Engineering
- Water Treatment Design
- Wastewater Treatment Design
- Pipeline Design
- Pump Station Design
- Roadway Design
- Paving & Grading
- Stormwater
- Earthwork
- Landfills

#### Education

- Bachelor of Science, Civil Engineering – West Virginia University
- Post Graduate Courses,
   Sanitary Engineering, Solid
   Waste & Wastewater West
   Virginia University
- Presented Paper "Use of Bottom Ash for the Construction of a Septic Tank Effluent Disposal System" at the Ash Utilization Conference in Morgantown, West Virginia
- CEU's On going

#### Licensure

 Florida Licensed Professional Engineer - # PE38821

#### **Affiliations**

- American Society of Civil Engineers
- National Society for Professional Engineers
- Florida Association of County
- Florida League of Cities
- Florida Association of Special Districts

Employment with CAS: 37 yrs Employment with other firms: 7 yrs

#### Gene R. Schriner, P.E.

President

Mr. Schriner has over 44 years of experience in the Civil Engineering and Utility Engineering fields. He has a Bachelor of Science in Civil Engineering degree and attended graduate school specializing in water and sewer treatment and solid waste disposal.



Mr. Schriner has worked in the consulting engineering business since 1976 and has been working with CAS since 1980. Mr. Schriner is responsible for the overall management and business development for CAS. He is also responsible for committing the firm's technical, professional and financial resources to the firm's clients. He provides conceptual planning on projects and is an integral part of the firm's QA/QC process.

#### **Selected Relative Experience:**

Glades County Phase II Sewer Expansion - Moore Haven, Florida. Design of 1.5 miles of vacuum assisted gravity sewer system including vacuum mains, vacuum station and pump station. Services included design, preparation of construction plans, permitting of sewer system, bidding and construction management.

Wauchula Hills Wastewater and Sewer Service Area - Wauchula, Florida. Construction of a 120,000 GPD wastewater treatment plant, approximately 4 miles of force main, 2 master pump stations, 1 mile of gravity sewer collection system and effluent pump station. Services included preliminary planning, final design, preparation of construction plans and contract documents, permitting of all improvements and assistance in securing funding, construction management and observation through project closeout and start-up services.

Vandolah Road Sewer Service Area - Wauchula, Florida. Construction of a 70,000 GPD wastewater treatment plant with spray irrigation, 278,000 gallon capacity lined effluent holding pond, 2.5 miles of force main, master pump station including pre-treatment and construction of multiple grinder pump stations with associated small diameter collection force main to eliminate multiple septic systems. Services included preliminary planning and design, final design, preparation of construction plans and contract documents, assistance during bidding, permitting, construction management and observation through project closeout including start-up services.

Moore Haven Phase I Sewer System - Moore Haven, Florida. Construction of a 90,000 GPD wastewater treatment plant, 2 master pump stations, spray irrigation system, approximately 2 miles of gravity sewer collection system and 2 miles of force main. Services included design, preparation of construction plans and contract documents, permitting, bidding, construction management and observation through project closeout and start-up services as well as assistance in securing funding of the project.



Engineers ● Surveyors ● Subsurface Utility Engineering ● 3D Subsurface Imaging ● Utility Coordination

#### **Areas of Expertise**

- Project Management
- Hydrology/Hydraulics
- Computer Modeling
- Stormwater Master Plan
- Climate Change Sea
   Level Rise Design
- Environmental Resource Permitting
- State of Florida
   Appropriations Grants
- SRF Loan
- FEMA Hazard Mitigation Grant Program
- FEMA Pre-Disaster
   Mitigation Competitive
   Grant Program
- FDEP S319 Grant Program
- Estimating/Bidding
   Services
- Construction
   Management
- Constructability Reviews
- NPDES
- Municipal Site Plan Reviews

#### **Education**

- (AA)Miami-Dade College
- (BSCE) University of Florida
- FDEP Qualified
   Stormwater Management
   Inspector (#7638)
- CEU's On going

#### Licensure

Florida Licensed Professional Engineer – PE No. 48265

Employment with CAS: 19 yrs Employment with other firms or government agencies: 13 yrs

#### Orlando A. Rubio, PE

Senior Supervising Engineer Engineering Department

Mr. Rubio has over 30 years of experience in the engineering field with a primary focus in the water resources engineering.



Mr. Rubio is responsible for the development of project scopes, stormwater master plans, State & Federal Grant applications, advanced stormwater modeling using ICPR, Hydraflow, & HEC-RAS modeling software programs, construction plans of roadways, land development projects, various surface water management systems in accordance with established criteria, engineering principles, and normal construction practices; development of environmental resources permit packages; and permit agency coordination. He performs construction management and conducts field & office visits with clients, permitting agency staff, and other project coordination as necessary. Mr. Rubio has conducted site plan and engineering reviews for compliance for municipal clients such as Okeechobee County in accordance with their Land Development Regulations and comes from a regulatory background from the South Florida Water Management District and Broward County Water Resources Division.

#### Selected Relative Experience:

City of Oakland Park NE 6<sup>th</sup> Avenue Stormwater Trunkline. As Engineer of Record, performed hydrologic and hydraulic modeling, designed and permitted stormwater improvements within an area of significant historical flooding concerns. The Trunkline consisted of ½ mile 7' x 4' Reinforced Concrete Box Culvert within a City right-of-way of limited space and occupied with numerous utility conflicts. Obtained Provided construction management assistance to City staff and project certification. The trunkline project allowed for connections to existing and future lateral drainage connections of adjacent streets.

City of Sweetwater Stormwater Improvements (Phase I, IIA, III, & IV) - Miami-Dade County, Florida. As Engineer of Record, designed and permitted stormwater improvements within an area of significant historical flooding concerns. Improvements included the design of stormwater gravity collection systems with 8 stormwater pumping stations designed by other CAS staff. Performed computer modeling for each phase. Provided construction engineering services as requested by the City's CEI firm.

City of Sweetwater Stormwater Improvements (Phase IIB) - Miami-Dade County, Florida. As Engineer of Record, designed and permitted stormwater improvements within an area of significant historical flooding concerns. Applied for and obtained grant funding for project via FEMA-PDMCG. Improvements included the design of a stormwater gravity collection systems with 2 stormwater pumping stations designed by other CAS staff. Performed computer modeling for this phase. Provided construction engineering services as requested by the City's CEI firm.

Sunshine Water Control District - West Outfall Canal Improvements - Phases 1B & 1C. As EOR, performed the hydraulic analysis, permitting, design, bidding, and construction management of the conceptual and initial phase. The West Outfall Canal is the primary conveyance canal for the SWCD's west basin serving 3,361-acres. The canal project will improve stormwater conveyance to Pump Station No. 2 by widening and deepening the existing canal. The canal improvements propose to remove 19,500 cubic yards of material of the entire canal to proposed bottom elevation. The channel modifications will allow the pump station to perform more efficiently. Phase I of the project will improve 2,900 linear feet of the overall 10,200 linear feet canal. The project also included public outreach to individual homeowners to remove encroachments within the canal ROW.



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#### **Areas of Expertise**

- Water & Sewer Utility
   Engineering
- Water Treatment Plant Design
- Wastewater Treatment
   Plant Design
- Hydraulic Computer Modeling
- Potable Water Wells
- Pipeline Design
- Pump Station Design
- Leachate Treatment
- Land Fill Design
- Construction Management
- Permitting
- Sludge Treatment & Disposal

#### **Education**

 Bachelor or Science – Civil Environmental Engineering, Roger Williams University

#### **Affiliations**

- American Society of Civil Engineers (ASCE)
- American Water Works Association (AWWA)
- Water Environment Federation (WEF)

Employment with CAS: 22 yrs
Employment with other firms: 21 yrs

#### Greg A. Giarratana

Senior Supervising Engineer Engineering Department

Mr. Giarratana has over 43 years of experience in the civil and environmental engineering fields, including water and wastewater treatment plant designs, permitting, construction management, certification, troubleshooting existing treatment systems, pump stations, sanitary sewer force mains, collection systems and potable water pipe lines.



Mr. Giarratana has worked in the consulting field specializing in all aspects of water and wastewater engineering since 1977 and has been working with CAS since 1998. Mr. Giarratana is responsible for managing civil and environmental projects including their initial planning, financing, designing, permitting, construction management and certification of completion.

#### **Selected Relative Experience:**

Glades County Wastewater Treatment Plant - Moore Haven, Florida. Design, permitting and construction management for the conversion of an extended aeration activated sludge wastewater treatment plant to an advanced tertiary membrane biological reactor (MBR) treatment plant including a man-made 52 acre wetlands disposal system.

Water Treatment Plant Expansion - City of Moore Haven, Florida. Ultrafiltration expansion and remote booster pump station, including a ground storage tank, re-chlorination and VFD controlled booster pumps. The system is controlled by a new SCADA system allowing plant control strategy via the internet.

Water Treatment Plant & 12 Miles of New Water Mains - Miccosukee Tribe of Indians, Florida. Design of a water treatment plant expansion including new potable water well pumps, degasifiers, carbon vessels, a new utility office/storage/high service pump station building, ground storage tank and 12 miles of water main construction at the reservation located in the Florida Everglades.

Water and Sewer Treatment Plants Including Water Utility Headquarters Building - Wauchula Hills, Florida. Design, permitting and construction of a wastewater treatment plant and effluent re-use disposal system including off site sanitary sewer installation and six (6) sanitary sewer lift stations. The project included a potable water treatment plant, two (2) potable water wells, and a custom designed 9,000 sq. ft. Utility Department office building.

Lake Region Water Treatment Plant Raw Water & Potable Water Transmission System - Palm Beach County Water Utilities, Florida. Responsible for the design and permitting of 91,200 linear feet of potable water mains to connect the cities of Pahokee, Belle Glade and South Bay to the new Glades Utility Authority's (GUA's) regional water treatment plant. The project includes the design of the raw water piping to seven (7) well sites. The project allowed these three (3) cities to abandon and decommission their antiquated water treatment plants that were utilizing Lake Okeechobee as their water source.



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#### **Areas of Expertise**

- Utility Design
- Utility Calculations
- Permitting
- Construction Services
- Cost Estimates
- Feasibility Studies
- Bid Services
- Contract Documents

#### **Education**

 University of Central Florida, Orlando, Florida Bachelor of Science, Civil Engineering 2013

#### **Affiliations**

- American Society of Civil Engineers (ASCE)
- Associated Builders and Contractors, Inc. (ABC)

#### **Software Experience**

- Excel
- AutoCAD
- ICPR
- GIS

Employment with CAS: 4 yrs Employment with other firms: 0 yrs

#### **Keith Schriner**

Project Engineer Engineering Department

Mr. Schriner has over 5 years of experience in the engineering field with a primary focus in water distribution and sanitary sewer collection and transmission systems.



Mr. Schriner works with staff and clients to help secure project funding through grant and loan programs like USDA, SRF and CDBG programs; specializing in water main, force main, gravity sewer and sanitary lift station designs. He has experience in design (including knowledge of CAD software), estimating, construction observations, construction services and permitting through regulatory agencies like FDOT, FDEP and FL Health Departments.

#### **Selected Relative Experience:**

Hardee County - Wauchula Hills Phase 4.0, Water & Sewer Improvements. Wauchula Hills is a very old neighborhood with residences on both well and septic tanks, eventually resulting in high levels of groundwater contamination. The scope of this project includes designing a gravity sewer collection system to tie into an existing system and expanding on an existing water main system to service the rest of the neighborhood.

Okeechobee County – SW 28<sup>th</sup> Street & 3<sup>rd</sup> Terrace Roadway Improvements. This particular area of Okeechobee experienced noticeable roadway settlement at fourteen locations along an existing gravity storm system. Custom details were produced to clearly define the scope for each trench restoration area. A valley gutter was also installed in swales to allow runoff to flow into existing inlets and keep water from ponding on driveways.

City of Margate, Lift Station #7 - Margate, Florida.

The Lift Station No. 7 Renovation Project consists of decommissioning the existing wet pit/dry pit lift station and reinstalling a new wet well and valve vault; including the installation of all SS piping inside the proposed wet well, relining existing structures, force main replacement, water service, fencing, and upgrading the electrical equipment, control panel and SCADA system. This project is a continuation of a design that was done in 2008 and CAS was tasked to update the current design plans to today's standards. The total cost for updating the existing engineering plans was \$54,932 and includes the force main replacement scope extension, survey, contract documents, permitting, bidding and construction services. This project is currently in at 60% design completion.

City of Margate, Lift Station #21 Renovation - Margate, Florida. The project consisted of retrofitting an existing wet well/drywell lift station into a lift station with submersible pumps inside a 25' x 35' easement. The scope included installing a retaining wall to flatten the site, decommissioning the existing drywell, removing and replacing the existing wet well cone with a straight wall section, and relining the interior walls with a cementitious coating. Due to limited space, the valve vault was eliminated and all valves/fittings which would normally be inside a vault were installed above ground.



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#### **Areas of Expertise**

- Project Management
- Utility Design
- Utility Calculations
- Permitting
- Construction Services
- Cost Estimates
- Feasibility Studies
- Utility Master Plans
- Stormwater Master Planning, Design, Implementation and Management
- Grant Applications
- FEMA Pre-Disaster
   Mitigation Competitive
   Grant Program
- Constructability Review
- Scheduling & Productivity
- Bid Services and Contract Documents
- Certifications/Closeouts
- Phase I Environmental Audits

#### **Education**

 Middlesex County College Edison, New Jersey Associates Degree -Engineering Technology 1978

#### Registration

 Engineering Intern -New Jersey

Employment with CAS: 22 yrs Employment with other firms: 10 yrs

#### Albert J. Caruso, E.I.

Project Engineer Engineering Department

Mr. Caruso has over 30 years of experience in the engineering design, permitting and construction management fields and is involved in the project from conception to completion.



Mr. Caruso is responsible for the development of due diligence/feasibility studies, Phase I Environmental Reports, preliminary engineering reports, and stormwater and utility master plans. Mr. Caruso is also responsible for the implementation of water, sewer, force main and stormwater projects from design to permitting with local, state and federal agencies to project management services during construction. He prepares funding applications for FEMA-PDMC, USDA, CDBG and FDEP grant programs. Mr. Caruso reviews projects for cost effectiveness and value engineering. He is also responsible for project coordination with clients, municipalities, contractors and permitting agencies to ensure that the project meets its financial goals and within the scheduled timeframe. Mr. Caruso prepares project cost estimates, budgets, bidding services, close-out packages and certifications.

#### **Selected Relative Experience:**

Design and Project Management for Town-Wide, Six Phase Stormwater Improvement Plan and Water Main Replacement – Town of Golden Beach, Florida. Responsible for the stormwater and water retrofit engineering design, Miami-Dade County DERM/HRS permitting and cost estimating. Also responsible for the project management of the stormwater and water main construction, implementation, and certifications.

Collins Avenue Sewer Force Main Project – Bal Harbour Village, Florida. Prepared Sewer Force Main Engineering Design, Miami-Dade County DERM permitting, estimating and bid documents. Participated as a member of the Project Management team during construction.

Stormwater and/or Utility Master Plan - Town of Golden Beach/Bal Harbour Village/Village of Biscayne Park/Town of Pembroke Park/City of Oakland Park/City of Sweetwater, Florida. Responsible for the overall conceptual design of utility rehabilitation including utility undergrounding and improvements for the above-mentioned Municipalities. Also responsible for the information gathering, database preparation, preliminary cost estimating, prioritization of future projects, mapping and narratives.

Jacobson Site Plan - City of Belle Glade, Florida. Provided site plan traffic layout (on-site and off-site), conceptual engineering design for stormwater, water and sewer improvements for a 65.8-acre redevelopment for an industrial zoned property. Developed a due diligence investigation for the project site addressing electrical, water use and utility availability, stormwater impacts, flood zone implications, and zoning and permitting requirements.



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#### **Areas of Expertise**

- Land Surveying
- Boundary / Topo
- Control Surveys
- Utility Surveys
- 3D Radar Tomography
- GPS
- Platting
- Route Surveys
- Legal Descriptions
- Plat Reviews
- Laser Scanning
- Crew Supervision
- Technical Reviews
- Scheduling & Productivity

#### **Education**

- Associates of Art, Atlantic Community College
- CEU's On going

#### Licensure

 Professional Surveyor & Mapper, Florida #LS4846

#### **Affiliations**

Florida Surveying and Mapping Society (FSMS)

Employment with CAS: 25 yrs Employment with other firms: 17 yrs

#### Robert D. Keener, P.S.M.

Vice President
Survey / Geomatics

Mr. Keener has over 42 years of experience in the survey, engineering and utility construction fields.



Mr. Keener has been employed with CAS since April of 1995. He began his career at CAS as a Project Surveyor, advancing to Senior Surveyor and Mapper In charge of surveying in a satellite office and advanced to Vice President in 2005. Mr. Keener will serve as Principal Surveyor for all surveys and will coordinate all survey activities with various disciplines as needed. All surveying pertaining to utility related services such as Radar Tomography, utility surface mapping, utility excavations, etc. will also be overseen and certified by Mr. Keener. He has previously performed plat reviews for municipal clients. Mr. Keener holds a Florida Surveyors and Mappers License and is a member of the Florida Surveying and Mapping Society of Florida.

#### **Selected Relative Experience:**

595 Express Subsurface Utility Engineering and 3D Radar Tomography - Broward County, Florida. Served as Principal Surveyor for the 3-Dimensional Subsurface Utility Engineering (3D SUE) project completed for the FDOT at the Interstate 595 reversible lanes project in Broward County, Florida. Oversaw the reestablishment of horizontal and vertical control, the mapping of utility surface markings and utility excavation holes, as well as Radar Tomography utilized in various areas along the entire route. Also performed all quality control and quality assurance for the project. Seacoast Utility Authority: Northlake Boulevard/US-1 Water & Sewer Force Main Replacement - Town of Jupiter, Florida. Served as Principal Surveyor for route survey along Northlake Boulevard and US-1 (approximately 2.8 miles), including identification of right-of-way, property lines, above ground improvements, utility easements, tree survey, cross sections and subsurface utility engineering (utility locates). Mr. Keener performed quality control and quality assurance for the project. WWTP Triplex Lift Station Rehabilitation - City of Margate, Florida. Served as Principal Surveyor for the boundary, topographic survey and utility locates of existing buried utilities, including recovery of horizontal and vertical control relative to project datum as previously established.

Golden Beach Drive & Collins Avenue – Town of Golden Beach, Florida. Principal Surveyor for the route survey within the rights-of-ways of Golden Beach Drive, out to the three islands and along Collins Avenue (SR A1A) for drainage improvements due to major flooding issues; total roadway reconstruction, undergrounding of all utilities; water main replacement and miscellaneous surveys, as needed. Route spanned approximately three miles. Surveying also included all city parks and a beach pavilion.

Town of Golden Beach Stormwater Improvements Phase III and IV – Golden Beach, Florida. Survey, utility locates, design consistent with Stormwater Master Plan, permitting, cost estimating, construction management and observation, survey for record drawings, testing, startup and certifications through project close-out for the construction of a stormwater submersible master pump station, 14,500 linear feet of drainage pipe and pressure main (16"-72" diameter), 205 drainage structures and 7 outfalls to provide drainage with Hydrodynamic Separators (Downstream Defenders) for water quality treatment and a Tideflex Checkmate Valves for tidal backflow prevention purposes.

City of Moore Haven Stormwater System Improvements, Moore Haven, Florida. Planning, survey, utility locates, design, permitting bidding assistance and construction management and inspection services for The Ranch Lakes Estates Improvements Project for the City of Moore Haven which consisted of the construction of a gravity stormwater drainage system along with two master stormwater pump stations including force mains and canal dredging. Construction included the installation of 7,103 linear feet of HDPE drainage pipe ranging in diameter from 15-inch to 48-inch, 1,044 linear feet of force main, 76 drainage structures and two duplex stormwater pump stations.



Engineers ● Surveyors ● Subsurface Utility Engineering ● 3D Subsurface Imaging ● Utility Coordination

#### **Areas of Expertise**

- Plans Production
- Digital model production
- Surveying
- Utility Locates
- Water
- Waste Water
- Storm Drainage
- Treatment Facility
- 3D Radar Tomography
- AutoCAD
- Civil 3D

#### **Education**

Sheridan Technical Center

#### **Technical Certification**

- Architectural
   Draftsman in AutoCAD
- Civil Draftsman in AutoCAD
- Survey Draftsman in AutoCAD

#### **Affiliations**

- Autodesk User Group International
- Employment with CAS: 15 yrs
   Employment with other firms: 0 yrs

#### Mike Marenco

**CADD Operations Manager** 

Mr. Marenco has 15 years of experience in computer aided design and drafting as it applies to the engineering, survey and utility construction fields.



He oversees all daily CADD operations and has extensive knowledge in preparing detailed drawings, layouts, exhibits, topographical maps, and graphic representations of survey information as well as engineering projects such as water, sewer, paving and drainage systems. Has a working knowledge of traditional drafting skills as well as computer aided design skills to aide in the production of plan sets as well as digital design models.

#### **Selected Relative Experience:**

Village of Bal Harbour, Miami-Dade County, Florida - Sanitary Force Main Improvements - The creation of specific purpose survey as well as plan and profile civil engineering design plans and an updated survey record as-built for newer sewer system.

Village of Bal Harbour, Miami-Dade County, Florida – Water Main Improvements - The creation of specific purpose survey along with the plan and profile civil engineering design plans and a record as-built for newer water main system.

Town of Golden Beach, Miami-Dade County, Florida – Stormwater Master Plan, CADD Design for Town Wide 6 Phase Stormwater Improvement Plan – The creation of specific purpose survey as well as the digital and hard copy plan and profile civil engineering plans and an updated record as-builts as part of a design team for a collaborative digital end product.

City of Sweetwater, Miami-Dade County, Florida – Stormwater multiple phase Improvements – The creation of specific purpose survey as well as plan and profile civil engineering design plans and a record as-built for newer stormwater drainage system.

City of Margate, Broward County, Florida – Multiple Lift Station Renovations - The creation of civil engineering plans and mechanical engineering design plans for new supporting pump stations located within the city.

Broward County Courthouse, Broward County, Florida - Radar Tomography Subsurface Utility Map - The creation of a updated 3D model consisting of all subsurface features to be used as a base file in the future design of new facilities by others.



Engineers ● Surveyors ● Subsurface Utility Engineering ● 3D Subsurface Imaging ● Utility Coordination

#### **Areas of Expertise**

- 3D Radar Tomography
- Subsurface Utility Engineering
- Utility Locating
- Ground Penetrating Radar
- Utility Coordination
- Project Logistics
- Complex Field Survey
- Quality Assurance

#### **Education**

- Broward Community College
- US Army
- Route Surveying
- Survey & Engineering
- MOT Training
- OSHA Training
- OQ Training

#### Certifications

- Certified Utility Locator
- Certified GPR Technician
- OQ Training Certification

#### **Affiliations**

 National Utility Locating Contractors Association (NULCA)

Employment with CAS: 26 yrs Employment with other firms: 3 yrs

#### James F. Driscoll

Director
Subsurface Utility Engineering

Mr. Driscoll has 29 years of experience in the engineering, survey and utility location fields.



Mr. Driscoll serves as the operator and field manager of Radar Tomography projects throughout the United States. Mr. Driscoll coordinates Sunshine State One Call ticket management and locating services for numerous Florida municipalities and privately owned utility companies. He also provides assistance in the performance of electronic designating, layout, and completion of vital soft dig information for vacuum excavation projects. He performs ground penetrating radar surveys for various clients to locate and identify underground facilities. Mr. Driscoll also serves as Division Training Manager and QC Auditor.

Mr. Driscoll has performed over 6,000 G.P.R. surveys and over 12,000 miles of utility surface designating throughout the United States. Additionally, Mr. Driscoll has performed in excess of five million square feet of 3D Radar Tomography scanning projects at various locations throughout the United States. He is proficient with state-of-the-art, traditional, and GPS surveying equipment and is substantially proficient with EM designating equipment, vacuum excavation equipment and various GPR systems with special emphasis on 3D Radar Tomography systems.

#### **Selected Relative Experience:**

City of Hollywood Public Utilities, Utility Location and Ticket Management Services - Hollywood, Florida. Mr. Driscoll served as the field manager and coordinator overseeing One Call Locates and Ticket Management for one of the largest city-owned utilities in South Florida. The system includes water, sewer, reclaimed water, raw water, effluent, street lighting, minor power and networked communications for parking systems. Currently, Mr. Driscoll oversees ticket management of 17,000 locates annually for the City of Hollywood.

Town of Davie Public Utilities, Utility Location and Ticket Management Services - Town of Davie, Florida. Mr. Driscoll served as the coordinator overseeing One Call Locates and Ticket Management for one of the largest town-owned utilities in South Florida. Facilities include water, sewer, reclaim, raw water and effluent pipelines. Currently, Mr. Driscoll oversees ticket management and day to day coordination for the Town of Davie.

Town of Jupiter, Utility Location and Ticket Management Services - Jupiter Florida. Mr. Driscoll served as coordinator overseeing One Call Locates and Ticket Management for city-owned utilities Palm Beach County. The system includes water, sewer, reclaimed water, raw water, minor power and networked communications. Currently, Mr. Driscoll oversees ticket management of 7,200 locates annually for the Town of Jupiter.



Engineers ● Surveyors ● Subsurface Utility Engineering ● 3D Subsurface Imaging ● Utility Coordination

#### **Areas of Expertise**

- Subsurface Utility Engineering
- Utility Locating
- Ground Penetrating Radar
- 3D Radar Tomography
- Utility Coordination
- Utility Construction

#### Education

- Staking U
- Mala GPR Tech
- EM Theory & Application
- MOT Training
- OSHA Training
- Confined Space Entry

#### **Affiliations**

 National Utility Locating Contractors Association (NULCA)

Employment with CAS: 11 yrs Employment with other firms: 7 yrs

#### **Alan Lopez**

Senior Utility Locator Technician/SUE Manager SUE / Utility Locates

Mr. Lopez has 18 years of experience in the utility locating, SUE, survey and utility construction fields.



Mr. Lopez has been employed with CAS since February 2004, starting as a soft dig crew member, and through experience, advanced from utility locator to Senior Locator and recently Field Manager overseeing all locating field operations. Mr. Lopez has performed or overseen in excess of 5,000 vacuum soft digs, as well as thousands of ground penetrating radar surveys and utility mapping efforts.

Mr. Lopez is a Certified Underground Utility Locator and GPR Technician. Mr. Lopez is also MOT certified, confined space entry certified and OSHA 10hr Certified.

#### **Selected Relative Experience:**

City of Hollywood Public Utilities, Utility Location and Ticket Management Services - City of Hollywood, Florida. Mr. Lopez has served as a utility locator, Senior Locator and Field Manager overseeing One Call Locates and ticket management for one of the largest city-owned utilities in South Florida. The system includes water, sewer, reclaimed water, raw water, effluent, street lighting, minor power and networked communications for parking systems. Recently, Mr. Lopez is overseeing the City of Hollywood Water Main Replacement Program coordinating utility locates for multiple construction crews and city engineering staff.

Town of Davie Public Utilities, Utility Location and Ticket Management Services - Town of Davie, Florida. Mr. Lopez has served as utility locator and Field/Client Manager for this sprawling utility system. Davie is the largest municipality in Broward County by land area and serves a significant population. Facilities include water, sewer, reclaim, raw water and effluent pipelines. Currently Mr. Lopez oversees ticket management and day-to-day coordination for the Town of Davie.

City of Coconut Creek Utility Location and Ticket Management Services - Coconut Creek, Florida. Mr. Lopez has served Field Manager for this large city-owned utility system. Facilities include water, sewer, reclaim, and city owned networked communications. Currently Mr. Lopez oversees ticket management and day to day coordination for the City of Coconut Creek.



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#### **Areas of Expertise**

- Roadway Construction
- Drilling & Piling
- Asphalt Roadway
- Concrete (ACI)
- Bridge Construction
- Constructability Reviews
- Damage Evaluation
- Materials Testing
- Field Inspection

#### **Education**

- AA in Agricultural Business – University of Massachusetts
- Survey Courses & Math I,
   II, III University of Miami

#### Licensure

- Asphalt Plant Tech FDOT #R-1712
- Asphalt Roadway Tech FDOT #5659

#### **Certifications**

- FDOT Courses
  - o Contract Plans Reading
  - o Construction Math
  - o Base Course Certification
  - o Troxler Certification
  - o Asphalt Courses
  - o Concrete (ACI)
  - Bridge Structural Inspection
  - Final Estimates
  - o MOT, Signing & Markings

Employment with CAS: 35 yrs Employment with other firms: 7 yrs

#### **Tony Gomes**

**Senior Field Representative** 

Mr. Gomes has over 42 years of experience in the engineering/construction, surveying, underground utilities, drilling and testing fields, with specialized expertise in roadway and bridge construction technology.



Mr. Gomes is responsible for the daily oversight and certification of field construction. Mr. Gomes' experience includes acting as field liaison for a variety of civil and environmental projects including FDOT, CDBG, USDA, FEMA, CIP, CEI and private sector projects. His responsibilities include project coordination tasks including, but not limited to, construction observation, design plans review, shop drawings and as-built records, certificates of inspections, tests and approvals, and coordinating with all department managers in carrying out the project in the required time.

#### **Selected Relative Experience:**

Collins Avenue Sanitary Force Main Improvement Project - Village of Bal Harbor, Miami-Dade County, Florida. Primary Senior Field Representative/Utility Coordinator for the construction of over 2 miles of 16" (DIP) sewer pipe, directional drilling installation, 7 manholes, 6 test wells and lift station connections to Bal Harbour Village, Town of Surfside and Miami Beach. Also assist department manager with documents for final review and approval.

City of Margate Sewer Forcemain Replacement - City of Margate, Florida. Primary Senior Field Representative/Utility Coordinator for the City of Margate Sewer Force Main Project which consisted of replacing an existing 12-inch ACP force main with a new, upsized sewer force main. The work included the installation of approximately 5,060 linear feet of DIP force main ranging in size from 6-inch to 20-inch, 140 LF of encased jack and bore pipe under State Road 7,950 LF of directionally drilled HDPE pipe under an existing canal, connection to an existing lift station, abandonment of the existing force main, and road and swale restoration. The project was installed from the city's wastewater treatment plant to an existing force main tie-in on State Road 7.

Bal Harbour Sanitary Sewer Improvements – Phase I – Village of Bal Harbour, Florida. Primary Senior Field Representative/Utility Coordinator for the Wastewater Pump Station No. 3 and Gravity Sewer Improvements (Sanitary Sewer Improvements Phase I) project for Bal Harbour Village included the installation of a new triplex submersible pump station with a 12-foot diameter wet well, control panel, automatic transfer switch receptacle, emergency generator, and all associated appurtenances, in addition to approximately 1,350 linear feet of 18" gravity sewer lines to the pump station.

Capital Improvement Project – Town of Golden Beach Miami-Dade County, Florida. Primary Senior Field Representative/Utility Coordinator for the construction of stormwater and watermain facilities, pump station, undergrounding of overhead utilities, roadway reconstruction and landscaping. Over 25,000 feet of water main pipe, 370 meter connections, 37 fire hydrant assemblies, 205 drainage structures, over 14,000 feet of drain pipes (on piles), 7 flap gates, 826 piles and one pump station. Responsibilities included construction observation/inspection, pile driving and testing, implementing all phases of pay items and assisting department managers with final review, punch list and final approval.



Engineers • Surveyors • Subsurface Utility Engineering • 3D Subsurface Imaging • Utility Coordination

#### **Areas of Expertise**

- Utility Coordination
- Subsurface Utility Engineering
- Project Logistics
- Record Research
- Inter-Departmental Coordination
- Utility Construction
- Constructability Reviews
- Scheduling & Productivity

#### Education

**Atlantic Vocational Technical Center** 

- Architectural and Mechanical Design/ Drafting
- o Carpentry
- AutoCadd #12
- Microstation #95
- O Computer A++ CADD Centers of
- MicroStation to ACad
- Autodesk Civil 3D

#### Certifications

- FDOT Construction OSHA Awareness Safety Training
- Barges Safety
- O Concrete & Masonry Construction
- Confined Spaces
- Crane Safety
- Demolition of Structures
- Earth Moving Equipment & Motor Vehicles
- Electrical Safety
- Excavation & Trenching
- o Fall Protection
- Hazardous Materials
- Hearing Protection
- Material Hoists, Personnel Hoists & Elevators
- o Personal Protective Equipment
- Recognition & Avoidance of Unsafe Conditions
- Scaffolding Safety
- Working Safely in Work Zones
- FDOT Construction, Qualifications
- Construction Math
- Construction Plan Reading
- Critical Structures Construction Issues
- Earthwork Inspection
- Pipe Placement Inspection
- Portland Cement Concrete Testing, Placement & Control
- Subgrade & Base Inspection
- Utility Relocation, Clearing and Grubbing, Miscellaneous Concrete, Structure Inspection
- Asphalt Paving Inspection
- Landscape Inspection Seminar
- Structure 1
- Asphalt Plant Inspection
- Auger Cast Pile Inspection
- Mechanically Stabilized Earth Wall Inspection

#### Certifications

 FDEP Stormwater Erosion & Sedimentation Control Inspector No. 15102

Employment with CAS: 26 yrs Employment with other firms: 2 yrs

#### **William Tanto**

Senior Field Representative / Utility Coordinator

Mr. Tanto has over 26 years of experience in the engineering design, permitting, construction and utility locates fields. He has been employed by CAS for 24years.



Responsible for a variety of Engineering Design and Project Coordination tasks included but not limited to conceptual stormwater management, conveyance design, land development site design, project permit application and exhibit preparation, construction observation, contract documents, utility coordination with existing utility owner, utility review and mark ups, and as-built record research. Mr. Tanto is responsible for allocating projects and resources to the departments or individuals. His work involves providing the deadlines as well as the resources that are required to complete project construction on time to the assigned personnel. He coordinates with all the departments in carrying out the project in the required time.

#### Selected Relative Experience:

SW 31<sup>st</sup> Street Stormwater Improvements - Town of Pernbroke Park, Florida. Project Field Representative/Utility Coordinator for the installation of 2,050 linear feet of roadway improvements including pavement markings and signage, and approximately 1,800 linear feet of exfiltration trench. Also assisted department managers with final review, punch list and final approval.

Court House, Three-Dimensional Radar Tomography Study - Broward County, Florida. Project Utility Coordinator which includes contacting all utility owners for existing utility documentation, field investigation, video and photographs of utility locations. Prepare and maintain project schedule. Assist department managers in managing project work flow.

FDOT/LAP Project, Roadway Widening, Milling & Resurfacing with Minor Improvements - Village of El Portal, Florida. CEI for the Village of El Portal which included approval of materials, construction observation, on-site material quantities, as-built review and completing FDOT forms and documents for final review and approval.

Wastewater Pump Station No.3 & Gravity Sewer Improvements - Bal Harbour Village, Florida. Senior Field Representative/Utility Coordinator for the installation of a new triplex wastewater pump station including an electrical controls building and approximately 1,350 linear feet of 18" gravity sewer. Responsibilities included construction observation/inspection, resolving conflicts, contractor claims and assisting department and project managers with final review, punch list and final approval.

Stormwater System Improvements – City of Moore Haven, Florida. Senior Field Representative/Utility Coordinator for the installation of two master duplex stormwater pump stations including 1,044 linear feet of force main, 7,103 linear feet of HDPE drainage pipe (15-inch to 48-inch) and 76 drainage structures. Also assisted department managers with final review, punch list and final approval.



## SECTION 8B SUBCONSULTANTS RESUMES OF KEY PERSONNEL



## **Electrical Engineering**



#### Larry M. Smith, P.E.

Principal Electrical Engineer



Fort Lauderdale, Florida 🏗

(954) 590-0488

210 0400

(561) 818-3600

Larry@SmithEngineeringConsultants.com

Professional Profile
Larry has over 30 years of
experience as an electrical engineer
in the areas of electric utilities,
water and wastewater utilities, solid
waste, water control structures and
pump stations, airport electrical
systems, architectural projects,
telecommunications, roadway,
sports field, and specialty lighting.
He demonstrates skills in
engineering and design, project
management, client relations, and
staff administration.

Software Skills
AutoCAD, MicroStation AGI32 and
Microsoft Office.

Education

BS - Electrical Engineering, Florida Atlantic University, 1987

Post Graduate Research - Electrical Engineering (Telecommunications), Florida Atlantic University, 1987-1988

Licenses/Certifications
Florida P.E. No. 45997
North Carolina P.E. No. 033663
Technical Assistance Analyst, Florida
No. T-0828

Awards

Florida Engineering Society, Outstanding Service to the Profession 2010-2011

Florida Engineering Society, Engineer of the Year 2007 - 2008

Professional Societies
Florida Engineering Society, State
President 2017-2018

Institute of Transportation Engineers, Gold Coast Chapter

American Society of Civil Engineers, Palm Beach Chapter

Years with SEC: 20

Years of Experience:

Project Experience

City of West Palm Beach, Water Treatment Plant Generator - Larry Smith designed the power, control, and instrumentation systems for a new 2,000 kW, 4,160 volt generator installation at the City's existing Water Treatment Plant. He designed the electrical systems, including three new automatic transfer switches, for the relocation of the existing 1,000 kW generator to the City's public works complex. Control and Instrumentation systems were integrated with the existing paralleling switchgear at the water treatment plant.

Palm Beach County, Lift Stations - Larry Smith designed the SCADA/telemetry system improvements for 80 lift stations throughout Palm Beach County's service area. New remote terminal units (RTU's), including associated antenna towers, were added to provide remote status reporting to the central monitoring location. New pump control panels were designed to replace those that were in poor condition. New level transducers and PLC's were provided for modernized pump control. Radio surveys were performed at all 80 sites to provide the County with additional data in order to better understand the limits of their lift station communication ranges.

City of Sunrise, Sawgrass WTP Improvements - Larry Smith managed the construction of the electrical systems for miscellaneous improvements to the City's existing water treatment plant. This included the electrical power distribution, controls, and instrumentation. Four (4) existing transfer pumps at the clearwell were upgraded with larger motors. Two (2) of the pumps received new reduced voltage starters and the other two (2) new variable frequency drives (VFD's). Other improvements included new metering pumps for the sodium hypochlorite, the replacement of three (3) concentrate booster pumps/ motors, a new air compressor, and the removal of the existing ozone generator.

City of Lake Worth, Master Pump Station - Larry Smith performed the electrical design, including power, controls, instrumentation and telemetry, for the conversion of the existing wetwell pump station to an in-line booster station. Variable frequency drives (VFD's) were used to match the varying wastewater flow into and out of the pump station. An upgraded telemetry system was designed to replace the existing, aging system, and to provide control and status reporting to the existing central station.

Town of Jupiter Utilities - Larry Smith has worked with the Town of Jupiter on several of their recent utilities projects. He has successfully resolved power quality issues within the Nano-filtration Plant. He has made improvements to the existing high service pumps by designing new variable frequency drives (VFD's) to replace existing reduced-voltage motor starters. Also, recently Larry Smith designed the electrical systems for new and replacement surficial aquifer wells, which included 4,160V power distribution. Larry has personally worked on numerous projects for the Town of Jupiter Utilities department for nearly 30 years.

**SFWMD, Stormwater Treatment Area (STA)-1W – Larry developed the** electrical design for the gate control structure and trash rakes. This included the electrical service and distribution, controls, lighting, instrumentation, and telemetry systems. The telemetry system was designed using the District's standard RTU design.

#### Steve Hockman

Senior Electrical Designer,



Fort Lauderdale, Florida 📵

(954) 590-0488

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(561) 856-2626

Steve@SmithEngineeringConsultants.com

#### Professional Profile

Steve has nearly 40 years of experience in electrical engineering design and construction management of water and wastewater treatment facilities, master lift stations, water reuse facilities, pumping stations, operational and maintenance complexes, water control structures, solid waste facilities and normal and standby generation systems. In addition to this, Steve has a vast experience in indoor and outdoor lighting (e.g. parking lots, roadway and landscape) projects from aspects including design, construction management and construction engineering inspection.

#### Software Skills

AutoCAD, MicroStation, AGI 32, and Microsoft Office.

#### Education

2 years- Electrical/Mechanical Engineering-Broward Community College

#### **Professional Societies**

BICSI Telecommunications Association

Years with SEC:

14

Years of Experience:

39

#### Sample Project Experience

#### **Water Treatment Facilities**

Jupiter Water Treatment Plant (WTP) Concentrate Treatment Facility – Design and replacement of VFDs

Palm Beach County (PBC) Water Utilities Department (WUD) – upgrade and replacement of Programmable Logic Controllers (PLC) and SCADA Systems

Lake Worth Utilities WTP - Chlorine system electrical improvements and upgrades

Atlantis, FL WTP- Generator Design

#### **Wastewater Treatment Facilities**

PBC WUD South Regional Water Reclamation Facility- Loop Diagrams and As-built Electrical Drawings

PBC WUD Belle Glade Wastewater Treatment Facility (WWTF) – Belle Glade Switchgear Assessment

PBC WUD- Countywide Arc Flash assessment studies and reports

#### Stormwater and Surface Water Management

C43-West Basin Reservoir - Designed Power, Lighting, and Instrumentation for 12 gate structures and for the Dam monitoring.

C43-West Basin Reservoir S-470 Pump Station- Designed 5kv and below Power, Lighting, and Instrumentation/SCADA for pump station consisting of (4) four 2500HP, 5KV pumps.

**Town of Palm Beach** – D-10 Storm Water Pump Station Improvements – Designed and construction management for power, lighting and instrumentation for the station.

#### Raw Water Supply Wells, Deep Injection Wells

PBC Solid Waste Authority (SWA) - Industrial Supply Well pump design

Town of Jupiter WTP - Reverse Osmosis raw water supply well pump design

Lake Worth Utilities Well # 16 - Supply well pumps and controls design

#### Solid Waste System Infrastructure

PBC SWA - 5kV Switchgear Replacement

St. Lucie County Solid Waste - Landfill detection manholes, Leachate Pump station design

PBC SWA — Lantana Transfer Station Demolition and rebuild of Transfer and recycling Facility

#### Luther E. Fair, P.E.

Senior Project Manager



West Palm Beach, Florida

(561) 616-3911 ext. 207

(352) 226-6970

**Professional Profile** 

Luther has extensive experience as an electrical engineer. He spent most of his career climbing the ladder in various positions at Florida Power & Light. There he gained an unparalleled understanding of electrical systems across various types of civil infrastructure. Luther not only has an acute knowledge of his field, he also possesses an aptitude for leadership and efficient project management. Because of his knowledge, ability and experience Luther implements value engineering in his work.

Software Skills AutoCAD, MicroStation and Microsoft Office

Education

BS - Electrical Engineering University of Tennessee - Knoxville, TN, 1972

Licenses/Certifications Florida P.E. No. 24633

**Professional Societies** 

Institute of Electrical and Electronics Engineers, Life Member

Years with SEC:

Years of Experience: 40+

#### Sample Project Experience

#### **Wastewater Treatment Facilities**

Palm Beach County Water Utilities District SRWRF-Hagen Ranch Rd. Facilities Condition Assessment - Electrical Engineer responsible for the data gathering, evaluation, and report generation justifying the replacement of electrical equipment in 11 buildings at the South Regional Water Reclamation Facility (SRWRF).

Palm Beach County Water Utilities District SRWRF-Hagen Ranch Rd. Facilities Master Plan - Electrical Engineer responsible for the data gathering, evaluation, and report generation for justifying new electrical facilities to handle the 2200 kWD of electrical demand being added to the existing 3700 kWD. Also provided a time line shown in this Facilities Master Electrical Plan.

Palm Beach County Water Utilities District WWTP Facility Facilities Condition Assessment - Belle Glade & Pahokee Focilities, Electrical Engineer responsible for both locations data gathering, evaluation, and report generation justifying the replacement of electrical equipment in 13 buildings at a cost estimate of \$745,000

Palm Beach County Water Utilities District, North West Regional WWTP - Electrical Engineer responsible for both locations data gathering, evaluation, and report generation justifying the replacement of electrical equipment

City of Fort Lauderdale, George T. Lohmeyer WWTP Fort Lauderdale Executive Airport Pump Station Improvements - Responsible for the Electrical Design and Instrumentation application for the upgrading of Variable Frequency Drives(VFDs) for 3-1800 HP motors

#### Stormwater and Surface Water Management

SFWMD C43-West Basin Reservoir - Electrical Engineer responsible for the Electrical Design and Instrumentation application for 10 gate structures to manage water level in the Calooshatchee River. Coordinated with geotechnical team to place 338 piezometers and 64 RTUs along the dam and Townsend Canal to monitor the dam's integrity. This project represents the largest project letting ever from the SFWMD.

SFWMD S-333N - Electrical Engineer responsible for the Electrical Design and Instrumentation application for a drum operated gate structure to manage water level in the L-29 Canal

#### Solid Waste System Infrastructure

Solid Waste Authority of Palm Beach County - Arc Flash Study - Electrical Engineer responsible for the data gathering, evaluation, and report generation for updates to the Site 7 Facilities Arc Flash Study involving 2- 13kV and 25 - 5kV transformers, and 8 - 5kV switchgears.

## Geotechnical Engineering









Mr. Mullin has 43 years of geotechnical engineering experience including water resources engineering including ports and harbors, dams and reservoirs. He has served as Chief Geotechnical Engineer on numerous projects for private and public clients including the South Florida Water Management District (SFWMD), United States Army Corps of Engineers (USACE) and Florida Department of Transportation (FDOT).

Mr. Mullin has also managed geotechnical engineering projects involving major high-rise towers, commercial buildings, power generating and industrial facilities, as well as transportation and landfill projects in Florida, Puerto Rico and the Caribbean.

He provides quality assurance and quality control; materials testing engineering services including soils, foundations, and geotechnical investigations; vibration monitoring; materials and systems testing; and structural and special assessments testing services.

His skills include foundation design and construction, backfilling, test programs, quality control testing procedures and documentation, installation and evaluation of geotechnical monitoring instrumentation, vibration monitoring and pile load testing. He provides quality assurance oversight; CEI documentation; construction surveillance, inspection and testing; and technical peer review.

#### PROFESSIONAL REGISTRATION AND CERTIFICATIONS

Florida Professional Engineer, #43366, 1990

#### **EDUCATION**

- · MS, Civil/Geotechnical Engineering, University of Illinois
- · BS, Civil Engineering, University of Illinois

#### **CAPABILITIES**

- Water Resources Engineering
- · Soils and Foundation Engineering
- Civil and Major Earthworks Engineering Design
- Civil Construction Management
- Geotechnical Instrumentation and Monitoring
- · Groundwater Hydrogeology
- Construction Quality Control Testing and Inspection Oversight
- Peer Reviews

#### REPRESENTATIVE EXPERIENCE

G420 and 422 Pump Station Canal Sediment Probing and Inlet Conveyance Flow Modification Designs, Palm Beach County, FL

Geotechnical Engineering Design and Testing Services.

C-43 Reservoir Early Start, Palm Beach County, FL Geotechnical Engineering and Testing Services.

S9 & S9A New Bridge/Trash Rake Design and Misc. Pump Station Refurbishments
Geotechnical Investigations, Engineering Design and Construction Material Testing Services.

#### S-151 Culvert Structure Replacement and Automation, Broward County, FL

Geotechnical Investigations, Engineering Design & Engineering During Construction support for the replacement of a deteriorating 5-barrel cmp culvert with steel sheet piles end walls.

#### New S-333N Spillway Structure Design and Construction, Dade County, FL

Geotechnical Investigations, Engineering Design & Engineering During Construction support for the construction of a new supplemental 1150 cfs spillway structure to complement existing flows of 1350 cfs to the Tamiami Canal in support of CERP flow improvements to the Everglades National Park.

#### Ft. Lauderdale Field Station O/H Crane Replacement, Broward County, FL

Geotechnical Investigations, Engineering Design for the replacement/upgrade of two overhead cranes interior to the existing maintenance structure.

#### District Standard Design Details Development - Monitoring Platforms, Districtwide

Geotechnical Engineering Design & Standardized Design Detail Development Support Services.

#### S-151 Culvert Structure Replacement and Automation, Broward County, FL

Geotechnical Investigations, Engineering Design & Engineering During Construction support for the replacement of a deteriorating 3-barrel cmp culvert with a new 2-barrel bi-direction gated concrete box culvert with steel sheet piles end walls.

#### WPBFS 8 - PC Culvert Replacement Program, Palm Beach County, FL

Geotechnical consulting engineer for the construction replacement of 8, deteriorating District cmp culverts throughout PBC, FL. Consulted on addressing difficult groundwater dewatering conditions and how to successfully install and compact Select Backfill for the culvert pipe and riser structures.

#### Big Cypress Basin Electrification Project, Collier County, FL

Geotechnical Investigations, Engineering Design for the upgrade of electrification/scada system buildings and monitoring platforms for the Cork 2 and FACA Union #5 sites.

SR 704 (Royale Park) Replacement Bascule Bridge, FDOT District 4, FL. Chief CEI Geotechnical Engineer - Technical supervision, QA oversight and CEI documentation of the surveillance and inspection of load test and production drilled shafts construction for the Bridge. Installed over 100 redundant and a few non-redundant drilled shafts, 4' diameter to depths of up to 35 meters deep. Reviewed, checked and approved Statnamic load testing which verified design shaft capacities for the project. Inspection work included the monitoring and documentation of pressure grouted shaft tip formations.

SR 804 (Ocean Avenue) Replacement Bascule Bridge, FDOT District 4, FL. Chief CEI Geotechnical Engineer - Technical supervision of the surveillance and CEI observation of Statnamic load test and production drilled shafts including pressure grouted shaft tips and auger pile construction for the Bridge. Installed over 80 drilled shafts and 50 ACIP piles beneath perimeter RE wall systems. Reviewed and approved Statnamic load testing which verified design shaft capacities for the project. Provided CEI of the construction and geotechnical monitoring of the 40-foot-high reinforced earth approach embankments construction including monitoring of geotechnical pore pressure cells, settlement plates and slope indicator casings.

Port of Miami Dodge Island Facilities, FDOT District 4, FL. Chief Geotechnical Engineer - Peer Reviews of tunnel, support of excavation and ancillary facility and roadway designs for the Dodge Island side of the Miami Tunnel project. Peer reviews and checks of Concessionaire design reports, drawings and backup detailed calculations for all project geotechnical related items and associated structural designs. Designs reviewed and checking included excavation support systems, tremie seal designs and uplift stability and roadway and bridge foundation support designs including redundant and non-redundant drilled shaft systems.



#### Andrew Nixon, PE RADISE International, L.C. Senior Geotechnical Engineer



#### **OBJECTIVE**

Mr. Nixon has 15+ years of experience including providing Environmental, Geotechnical and Construction Materials Testing Services for low and high-rise structures, single family residential developments, bridges, piers, buried structures, transmission towers, silos, roadways, etc.

He prepares and reviews geotechnical and materials engineering inspection reports, coordinates and supervises engineering staff and drilling personnel, and conducts foundation observations, foundation design reviews and geotechnical instrumentation monitoring.

Mr. Nixon's skills include also completing and supervising pile inspections, helical pier inspections, fireproofing inspections, load tests, and monitoring specialty ground improvement techniques such as vibrocompaction, vibro-replacement and dynamic compaction. He has conducted and supervised several Preconstruction Video Surveys and Vibration Monitoring Programs.

He has provided oversight of field and laboratory testing programs during the construction phase of a variety projects and supervised other engineers in the Construction Materials Testing Department. The testing programs typically included the performance of earthwork inspections, field and laboratory testing of soils, and field sampling of concrete. Mr. Nixon has also inspected and supervised testing programs during the construction of various roadway projects.

#### PROFESSIONAL REGISTRATION AND CERTIFICATIONS

- Professional Engineer, Florida, #71458
- OSHA 40-hour Health and Safety / OSHA, 29 CFR 1919.120 (HAZWOPER)
- Qualified Stormwater Management Inspector, Inspector # 27919

#### **EDUCATION**

B.S. Ocean Engineering, Florida Atlantic University, Palm Beach County, Florida

#### **AFFILIATIONS**

- Florida Engineering Society
- National Society of Professional Engineers
- Florida Engineering Leadership Institute Alumni
- American Society of Civil Engineers

#### CAPABILITIES

- Project Management
- Cost Estimating
- Geotechnical Engineering
- Earthwork Inspection
- Construction Materials Testing
- Quality Control
- Vibration Monitoring
- Design Recommendation & Review
- Foundation System Design
- Environmental Engineering
- Phase I & II Environmental Site Assessments

#### REPRESENTATIVE EXPERIENCE

#### SFWMD STA-1 West Expansion Area 1, Palm Beach County, FL

Senior Project Engineer – Provided subsurface explorations and geotechnical engineering services and materials testing services for the Contractor. Work included driven pile analyses, cofferdam and dewatering design, slope stability, etc.

#### USACE Kissimmee Oaks/Oxbow Wetland Restoration Project, Okeechobee County, FL

Senior Project Engineer – Provided geotechnical engineering services and materials testing services for USACE.

#### SFWMD S-140 Pump Station Project, Broward County, FL

Senior Project Engineer – Provided subsurface explorations and geotechnical engineering services for the proposed pump station improvements including a new bridge. Also, provided construction engineering and inspection services for the SFWMD during the construction phase of the project.

#### FDOT Broward MPO - Lauderdale Lakes Greenway (NW 39th Street), Broward County, Florida

Senior Project Engineer – Provided geotechnical engineering services for the design of decorative lighting on east side of SR-5/US-1 from 11th street to 27th street, and the design of noise wall along I-95.

FDOT SR-25/US-27 from the Broward/Palm Beach County Line to MP 12.599, Palm Beach County, Florida Senior Project Engineer – Provided geotechnical engineering services for roadway improvements, which included milling, resurfacing, shoulder widening, and installation of rumble striping, replacement of guardrail and upgrading signing and pavement markings.

#### SFWMD Miller Weir #3 Replacement Project, Collier County, FL

Senior Project Engineer – Provided subsurface explorations and geotechnical engineering services for the proposed weir structure with new concrete box culvert.

#### Village of Wellington Roadway Improvement Projects, Wellington, Florida

Senior Project Engineer - Inspected various roadways for the Village Wellington to identify roadways in disrepair; provided geotechnical engineering services and pavement evaluations; managed the testing and inspection programs during repairs/repaving projects.

#### SFWMD 10 Mile Creek Reservoir Rehabilitation Project, St. Lucie County, FL

Senior Project Engineer – Provided subsurface explorations and geotechnical engineering services for the proposed reservoir improvements, which included remedial measures to the embankments of the reservoir to curtail seepage so that the levee may be used to store runoff water. Conducted field and laboratory permeability testing to assist the SFWMD in the seepage analyses. Also, provided construction engineering and inspection services for the SFWMD during the construction phase of the project.

#### SFWMD East Coast Protective Levee Project, Broward County, FL

Senior Project Engineer – Provided subsurface explorations and geotechnical engineering services including field permeability tests, direct simple shear tests, pin hole permeability tests, strength testing, etc. of the levee and toe materials.

#### USACE Herbert Hoover Dam Rehabilitation Project, Palm Beach County, FL

Senior Project Engineer - Provided subsurface explorations geotechnical engineering services and materials testing services for the Contractor.

#### SFWMD FAES Telemetry Tower & Shelter Replacement, Palm Beach County, FL

Provided subsurface explorations and geotechnical engineering services for the project, which included the construction of a new 250 feet high (above ground level) self-supported telemetry tower and an associated 9 feet wide by 36 feet long by 9 feet high, precast concrete microwave equipment shelter.





## **Akash Bissoon, PE**RADISE International, L.C. Geotechnical Engineer



Mr. Bissoon has 14 years of geotechnical engineering experience including providing project management for a wide range of work involving geotechnical, environmental and civil engineering. He is skilled in the preparation of specifications for foundations, roadway work, storm water management systems and water distribution systems.

He is knowledgeable in current FDOT, ASTM and AASHTO standards applicable to design and materials testing, and is skilled at conducting materials investigations through the construction completion-certification stage. He works on projects from the initial modeling-specification stage, through the planning, designing and drafting stages.

Mr. Bissoon has served as a Senior Geotechnical Engineer on projects for clients including the Florida Department of Transportation (FDOT), Broward County Aviation Department, South Florida Water Management District (SFWMD) and the US Army Corps of Engineers (USACE).

#### PROFESSIONAL REGISTRATION AND CERTIFICATIONS

- Registered Professional Engineer, Florida #74582
- CTQP Quality Control Manager, Florida Department of Transportation
- Qualified Storm Water Management Inspector, Florida Department of Environmental Protection, #16155, May 2007
- Advanced Temporary Traffic Control (TTC), #41524, Florida Department of Transportation, June 2018
- CTQP Final Estimates Level 1 & Level 2, Florida Department of Transportation, October 2018
- IMSA Traffic Signal Inspector, #124859, December 2018

#### **EDUCATION**

B.S., Civil Engineering Florida Atlantic University, Boca Raton, FL

#### **CAPABILITIES**

- Project Management
- Water Distribution Systems
- Engineering
- Roadway Soil Survey
- Stormwater Management
- Systems
- Construction Materials
- Testing
- AutoCAD, ArcGIS, AERMOD View, EPAnet, MathCAD,
- · Cascade, gINT, Microstation, FB Deep
- Environmental and
- Geotechnical Modeling
- Estimating
- Client Liaison

#### REPRESENTATIVE EXPERIENCE

**C-44 Reservoir System Discharge** located in Martin County, Florida. Project Engineer - As Prime Consultant for this ongoing contract, the work includes providing districtwide materials field and lab testing services.

Lake Hicpochee Dispersed Water Management Plan located in Glades and Hendry Counties, Florida. Project Engineer - As Prime Consultant for this contract, the work includes providing districtwide materials field and lab testing services.

**Broward Mobility in Broward County, Florida** (FM No.: 433165-1-32-01), research and testing for drainage features. Field exploration/testing and laboratory testing.

**SR-817(University Drive)** from Nova Drive to the ramp to I-595 in Broward County, Florida (FM No.: 429366-1-52-01), Research and testing for drainage features.

**Nottingham & US1 Jack and Bore**, West Palm Beach, Florida, geotechnical study to support a Jack and Bore under US1 for the replacement of existing underground utilities along Nottingham Boulevard.

**7th Street & CSX RR Jack and Bore**, West Palm Beach, Florida, geotechnical study to support a Jack and Bore under the CSX railroad for the replacement of existing underground utilities along 7th Street.

PD&E Study for SR-9/I-95 from south of High Meadows Road to North of Becker Road in Martin and St. Lucie Counties, Florida (FM No.: 422681-1-22-01), approximately 13 miles of research and testing for drainage features.

**PD&E Study for I-95/SR-9 from north of Becker Road to south of SR-70** in St. Lucie County, Florida (FM No.: 422681-2-22-01), approximately 13½ miles of research and testing for drainage features.

S-842 (Broward Boulevard) - Structure Investigation for Bridge Replacement, Broward County, FL. Senior Geotechnical Engineer -- Oversight including field exploration/testing and laboratory testing. Construction of two replacement bridges, resurfacing, restoration and rehabilitation, and the replacement of the substandard barrier wall.

**SR-817(University Drive) from Nova Drive to I-595 Ramp, Broward County, FL.** Senior Geotechnical Engineer -- Provided roadway soil survey and structures investigation, testing for drainage features and mast arm design.

**Broward County Mast Arms, Broward Co., FL.** Senior Geotechnical Engineer – Field exploration/testing and laboratory testing for 20 planned intersections for mast arm traffic signal conversions and pavement improvements. Provided laboratory testing, asphalt core services and pavement evaluation.

I-75 Express Lanes – Segment E, Broward County, FL. Senior Geotechnical Engineer -- Provided geotechnical engineering services for the improvements along the I-75 (SR9) corridor. The length of the project was about 12 miles from the Miami-Dade County/Broward County line to North of I-595 Interchange

## Landscape Architecture



#### Jose L. Lopez, PE, PMP

#### Associate, Director of Environmental Engineering

# MOSIEF OF BUSINESS

Administration in Environmental and Urban Systems, Florida Atlantic University, 2000

Bachelor af Civil Engineering -Hydraulics, Florido International University, 1984

Universidad Nacional de Buenos Aires, 1980

#### REGISTRATION

Registered Engineer, State of Florida, Reg. No. 39555

Project Manager Professional, Reg. No. 34108

#### PROFESSIONAL AFFILIATIONS

Member of the Broward County Technical Advisory Committee to the Water Advisory Board and County Commission

Vice-Chair of Broward County Surface Water Coordination Committee

American Society of Civil Engineers

**Professional Experience** 

PROJECT EXPERIENCE

Port Everglades Master Plan 2018 update- Environmental evaluation - Mr. Lopez was the Lead Environmental Engineer in charge of reviewing existing and future more stringent environmental requirements by Federal, State and local regulatory agencies gaverning sustainability, resiliency and

sea-level rise impacts in the design of utilities and surface water management associated with the

infrastructure and new facilities at Port Everglades as part of the Master Plan 2018 update.

Jose L. Lopez has been a Broward County Technical Advisory Committee member for over 8 years and has extensive experience working in projects considering sustainability, resiliency, and climate change as outlined by the Broward County, SFWMD, FDEP, USCOE, and other regulatory agencies.

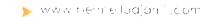
Coastal Resiliency, Adoptation Plan and Outreoch Plan, City of Marathon - Mr. Lopez was the Project Manager of a Coastal Resiliency, Adaptation Plan and Outreach Plan project under Florida Resilient Coastlines Program grants with the City of Marathon. As part of this project, Mr. Lopez was responsible for the preparation of 3D maps and several adaptation alternatives, for the review and upgrade of the current City Policies and Regulations to continue maintaining surface water management and flood damage prevention in compliance with 2015 Peril of Flood and for the preparation of an outreach plan with educational material and stakeholder meetings to educate local residents and elected officials.

Great Stirrup Cay Master Plan- Coastal modeling and infrastructure resiliency - Mr. Lapez was a member of a group of BA engineers and architects that have been working on the implementation of a Master Plan far Stirrup Cay. This Master Plan goal was to develop and expand their existing facilities considering all aspects of coastal resiliency and infrastructure sustainability. As part of the Master Plan, the team of professionals has prepared a coastal study and civit infrastructure impact for utilities and roadways, including coastal modeling, surge analysis, wind analysis, predicted water levels, including high tides and sea-level rise projections.

Arch Creek Drainage Basin outreach methodology, Miami-Dade, FL. - Mr. Lopez was the Technical Lead for a contract with the Miami-Dade Department of Regulatory and Ecanomic Resources (RER) Office of Resilience Assignment to test outreach methodology for potential use in future Adaptatian Action Areas. The study provided technical and outreach services to obtain input from local residents on proposed fload resilient solutions for the Arch Creek Drainage Basin in Miami-Dade. Responsibilities included the selection and preparation of technical information on tive different flood resiliency/adaptation solutions for the Arch Creek Drainage Basin area, including green infrastructure, living shorelines, sea walls/berms, fload pumps, and raised streets/buildings.

Broward County Initiative for Stormwater Improvements, SFWMD, FL. - Mr. Lopez managed a combination of stormwater projects to reduce stormwater runoff and provide hydrologic and water quality improvement to meet federal and state water quality requirements. Some of the project components included: Retrofitting existing stormwater systems, restoring flow to natural systems that supply water to aquifers, creating stormwater retention, detention, and filter marshes to remove impurities going to canats and streams, improving the hydrology associated with freshwater flows to estuaries, restoring the natural systems of estuaries to improve shellfish and fish habitat, and providing associated resource monitoring and assessment. These projects were implemented through cooperative partnerships with federal, state, county, and city governments, universities, and nonprofitorganizations.





Kirk J. Olney, RLA

Senior Associate, Landscape Architect



## **EDUCATION**Bachelor of Landscape Architecture, The Ohio State University, 1995

#### REGISTRATION

Registered Landscape Architect, State of Florida, Reg. No. LA0001705

#### PROFESSIONAL AFFILIATIONS Smart Growth Partnership

#### **Professional Experience**

Kirk J. Olney is a Florida-registered Landscape Architect with over 20 years af in-depth experience managing landscape architectural and multi-disciplinary design, production, and construction projects. Most of Mr. Olney's career has been focused on the public realm providing his experience an the design and implementation of parks, streetscapes, and roadway landscape design. His areas of expertise include master planning, conceptual design, production and management of construction documents, preparation of construction contract documents, and construction services. Mr. Olney has management experience, including the scope of services preparation and negotiation, office management, scheduling and managing staff time, tracking utilization, and project arganization. His special area of interest is the use of tropical and subtropical plant material. In addition, he has extensive experience preparing and submitting applications to regulotory agencies and responding to comments accordingly to obtain required permits.

#### PROJECT EXPERIENCE

**Pompano Beach Public Safety Complex, Pompano Beach, Florida** - Landscape Architect. Mr. Olney's responsibilities included bidding assistance for architectural, civil and landscape architectural renovations to an existing municipal building.

Pompano Beach Library, Pompano Beach, Florida - Landscape Architect. BA served as the Landscape Architects for this new joint venture between the City of Pompana Beach and the Caunty Library System to build a new library at the beach to replace the outdated building in an adjacent lat. BA developed the overall site plan and the landscape design for both the porking and public apen space adjacent to the building. Due to the extensive tree and palm coverage on the site, BA developed a plan to relocate and preserve most of the existing trees. Large sea grapes were relocated on-site and create a dramatic impact an the new landscape design. The public apen space is intended to provide outdoor space for the library users in addition to the covered veranda and a focal point far public art.

Utilities Field Services Complex, Pompano Beach, Florida - Landscape Architect. Design for the replacement of an existing operations and administration camplex for the Utilities Operations Division of the City of Pompano Beach. The project includes the demolition of existing buildings and surrounding supporting structures. The new buildings, designed as a sustainable building under the current versian LEED Certification, includes offices, conference rooms, training space, locker rooms, restrooms, storage and shap areas for various work related activities. The praject also includes parking areas far staff as well as City vehicles and equipment. Mr. Olney was involved in the preparation of code minimum landscape design, submission of landscape drawings to City af Pampano Beach Boards and Committees far approvals and preparation of landscape construction drawings.

**Sullivan Park, Deerfield Beach, Florida** - Landscape Architect, Mr. Olney led the planning and design of the park redevelopment. Worked extensively with City staff on the preparation of the development review documents and tracked and addressed comments and requested changes. Assisted the City with the logistics and contractibility oversight of an Art in Public Places installation. Worked with an urban forester specializing in tree Arbor Dividing System far the relocation of an offsite specimen tree. Managed the architect, civil engineer, electrical engineer, aquatic engineer and structural engineer thraughout the construction document preparation process as well as during construction.

**B.F. James Park & Aquatic Facility, Hallandale Beach, Florida** - Landscape Architect. This project encompassed the complete redevelopment of an underused existing neighborhood park through extensive public input and master plan development. BA developed an extensive program for the new park, including a new swimming facility, relocated basketball courts, picnic areas, exercise stations, and an expanded playground for a greater range of age groups. In addition, to meet City code requirements, the park and buildings were designed for LEED Certification. BA managed the LEED Certification and led the design team throughout the certification process. The architectural style of this facility will serve as the basis for the design of all public buildings in future City parks. BA developed various architectural alternatives for the aquatic swim building. Although relatively small, the new pool will serve the community's recreational needs and includes a beach entry feature and three lap lanes which can be modified for swim health classes. The park was designed utilizing numerous CPTED principles.

#### Randy P. Hollingworth

Partner, Vice President, Director of Landscape Architecture



# **EDUCATION**Master of Landscape Architecture in Urban Design, Harvard University, 1984

Bachelor of Landscape Architecture, University of Guelph, 1978

PROFESSIONAL AFFILIATIONS Smart Grawth Partnership

#### **Professional Experience**

Randy Hollingworth has more than 30 years of experience as an urban and landscape designer. His specialty is the design and development of mixed-use projects and their integration within the urban fabric. With a comprehensive understanding of various land uses' needs and requirements, Mr. Hollingworth has prepared development plans for a wide range of project types. He has developed master plans and design guidelines for commercial and retail areas, office parks and residential communities in numerous waterfront locations throughout Florida. In addition to his extensive urban design and planning experience, Mr. Hollingworth has worked on a wide variety of landscape design-oriented projects.

#### PROJECT EXPERIENCE

**City of Pompano Beach Parks, Pompano Beach, FL** - Senior Planner/Landscape Designer. BA evaluated all 41 City parks existing conditions and recommendations for improvements were made. Early action projects include the new community center, the conversion of baseball fields to rectangular fields for soccer and football; and the expansion of McNair Park on the west side of the City of Pompana Beach.

George Brummer Park, Pompano Beach, Florida - Project Manager. Responsible for the conceptual and detail design for a new neighborhood park on the site of a former tennis center. The program was developed utilizing public workshops and numerous meetings with local neighborhood groups. Amenities within the five acre park include; tennis courts, a basketball caurt, a sand volleyball court, bocce courts, racquetball courts, two playgrounds, an autdoor exercise work out area, public restrooms and passive open space with picnic tables. Located adjacent ta a large water retention area and golf course, the site offers one of the few public open spaces within the community for outdoor recreation.

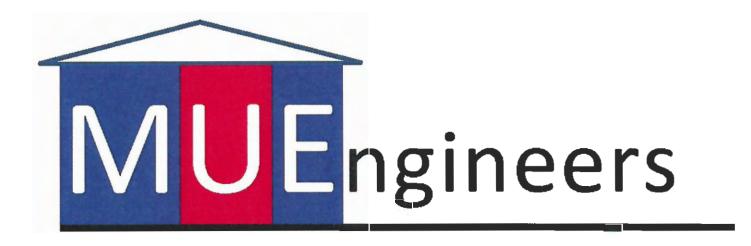
Pompano Beach Library, Florida - Landscape Designer. BA served as the Landscape Architects for this new joint venture between the City of Pompano Beach and the County Library System to build a new library at the beach to replace the outdated building in an adjacent lot. BA developed the overall site plan and the landscape design for both the parking and public open space adjacent to the building. Due to the extensive tree and palm coverage on the site, BA developed a plan to relocate and preserve mast of the existing trees. Large sea grapes were relocated on-site and create a dramatic impact on the new landscape design. The public open space is intended to provide outdoor space for the library users and the covered veranda and a focal point for public art.

City Wide Parks Master Plan, Pompano Beach, Florida - Senior Planner/Landscape Designer. Development of the City Wide Parks Master Plan for the City of Pompano Beach, Florida. With forty-one park facilities and a population of nearly 100,000 inhabitants, the City of Pompano Beach contracted BA and its subconsultant team to carry out a needs analysis, evaluate existing park focilities and create a City Wide Parks Master Plan to address short and long term park improvements in the City.

Beach Plaza Redevelopment and Public Beach Revitalization Design, Pompano Beach, Florida - Project Manager, Responsible for the landscape architectural design master plan associated with this project consisting of the redevelopment plan for the only beachfront area of the City. The project scope includes the planning and layout of public amenities and beachfront activities and streetscape and public open space design along Palm Beach Boulevard. The "New" Pompano Beach Boulevard and extension to Atlantic Boulevard will create dramatic gateways to the City's beach area. The City has subsequently retained BA to develop further the landscape plans and construction drawings for the streetscape design of Atlantic Boulevard between Pompano Beach Boulevard and A1A. The project entails a substantial public participation aspect regarding design concepts and input from residents of the area with several community workshops held to this effect.

East Atlantic Boulevard Streetscape Improvements, Pompano Beach, Florida - Project Manager. BA was selected to develop a complete streetscape program for the City's primary gateway to the beach. The primary goal for the redesign was to create a pedestrian-friendly environment that is less dominated by the automobile. BA landscape architects and engineers reduced the number of traffic lanes, substantially increased the sidewalk widths, and incarporated parallel parking along both sides of the street. Shaded by canopy trees and lined with benches, the wider sidewalks encourage pedestrian traffic for retail uses and allow for the introduction of outdoor cafes.

#### Structural Engineering







#### PROFESSIONAL EXPERIENCE

Mr. Unterweger is the President of MUEngineers, Inc. He is a Florida registered professional engineer with over twenty years of professional experience. experience includes the structural design of educational facilities, high-rise municipal facilities, buildings, healthcare facilities, churches, clubhauses, 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

#### 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

#### RELEVANT PROJECT EXPERIENCE

Seawall Assessment and Restaration, 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, Pampano Beach, Florido-** Principal in Chorge -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, Miomi, 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 cancrete 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 ottached.

North Dixie Highway-Streetscaping, Wilton Manars, Florida-Principol 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.

#### ADDITONAL RELEVANT EXPERIENCE

- Pompono 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





#### 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 gorages.

#### **EDUCATION**

Master of Engineering: McGill University, 2004

Bachelor of Civil Engineering McGill University, 2002

#### REGISTRATION

Registered Engineer State of Florida Reg. No. PE 68444

#### 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

#### 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 tawer far 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, Restroam Facility Building, City of Lake Park, Florida
- CTS Engines, Storage/Maintenance Room, Fort Lauderdale, Florida
- Double Eagle Distributors Warehouse, Deerfield Beach, Florida

#### Water/Wastewater/Stormwater Inspection and Repair Services

Local Pompano Beach Firm



#### Daniel J. DiMura

1888 NW 22 Street Pompano Beach, FL 33069 954-975-0098

#### **Work Experience**

#### Shenandoah General Construction Company

Vice President (1996 – Present)

Responsible for the overall operations of the company, an underground trenchless rehabilitation company. Duties include: scheduling, quality control, trouble shooting and implementing improved methods of trenchless rehabilitation, as well as new business development. Serves as a liaison between engineers, vendors and clients.

#### <u>U.S. Concrete Products Corp. (Formerly Pompano Precast Corp.)</u> General Manager (1985 – 1996)

Responsible for the overall operations of the company, a manufacturer of precast reinforced concrete structures for underground utility and roadway construction. Duties include: production scheduling, quality control, trouble shooting, and implementing improved methods of manufacturing operations, as well as new business development. Serve as company liaison between engineers, vendors and clients. Assisted in the design of automated project drawings generated via CAD to increase efficiency.

#### **Superintendent (1980 – 1985)**

Supervised field and plant operations, ensuring that work was performed according to specifications. Administered personnel training and placement. Directly involved in the construction of new precast concrete plant, including the installation of a batch plant system and overhead crane systems.

#### W. Jackson and Sons Construction Company (1979 – 1980)

General construction ranging from underground utilities to residential and commercial structures. Specialty projects included the City of Margate Water & Water Treatment Plant modifications. Completed a variety of fieldwork projects (e.g. MH rims & invert installations, concrete form work, and pipe installations).

#### **Education**

NASSCO

St. Petersburg Community College Clearwater, Florida	1976 – 1977	Business Administration
Largo High School Largo, Florida	1976	Graduated

#### **Continued Education**

NASSCO		
PACP Certification	2007	Certificate#04-5536
MACP Certification	2007	Certificate#04-5536

#### Career Skills / Knowledge

- Underground Utility
- Construction Scheduling
- Quality Control Management
- Safety Management
- Tech Support / Troubleshooting
- PACP Certified

- General Management
- Project Estimating
- Cost Control Management
- Client Development / Relations
- Computer Applications
- Equipment Purchases
- ◆ PACP Certified Trainer

1888 NW 22 Street Pompano Beach, FL 33069 (954) 975-0098 (954) 975-9718

#### Leonard Jaglarski

#### Experience

2006-Present

Shenandoah General Const. Co. - Pompano Beach, FL

#### Superintendent

- Manages lining, Clean & Televising, and Grout projects
- Oversee and Install Sectional Point Repairs
- Estimates projects

2001-2006

American Water Services - Ft Lauderdale, FL

#### Superintendent

- Manages lining, televising and grout projects
- Oversee and Install Sectional Point Repairs
- Estimates projects

1997-2001

Insituform Technologies - Jacksonville, FL

#### Superintendent

- Manages lining, televising and grout projects
- Oversee and Install Sectional Point Repairs
- · Estimates projects

1991-1997

Madsen Barr - Miami, FL

#### TV Truck Operator / Tap Cutter

- Installation of CIPP Liners, Sectional Liners
- Operate TV Truck pre and post lining video taping

#### **Education**

1980-1983

Danville Community College

Danville, IL

- Vocational HVAC
- Business

#### Certifications & Organizational Interest

- PACP Certified
- NUCA
- PADI Certified Diver

Exhibit A - RLI E-20-20 & Consultant's Proposal

1888 NW 22 Street

Phone 954-975-0098

Pompano Beach, FL 33069 Fax 954-975-9718

E-mail staffin.zebarth@shenandoahconstruction.com

#### Staffin C. Zebarth

#### Education

1990 – 1994 BS Economics, University of Florida Gainesville, FL Trenching & Excavation Safety Course – Competent Supervisor Stephen's Technologies Training Seminar on Sectional Liners

#### Professional experience

2002 - Present

Shenandoah General Construction CompanyPompano Beach, Florida

#### Project Manager / Underground Contractor

- Development of relationships with existing and new clientele
- Oversee and schedule 17 crews on a daily basis.
- Manage ongoing projects
- Estimate projects
- Focus on trenchless underground maintenance and repairs to storm and sanitary sewer

October 2001 - December 2001 - SunTrust Bank - Ft Lauderdale, Florida

#### **Investment Associate**

- Aided two portfolio managers oversee \$650 million in Private Client Trust Funds
- Portfolio analysis, individual stock analysis, tax ramifications, review of trust documentation, client presentations all used in decision making process

January 1995 – October 2001 – Prudential Securities – New York, NY & Boca Raton, FL Financial Advisor

- Development of relationships with high net worth individuals and small to mid-sized corporations with a focus on tax advantaged investing
- Estate and retirement planning through professional money managers, mutual funds, individual stocks, bonds and insurance

May 1993 – July 1993 – Lehman Brothers – New York, NY

#### Sales Associate

- ➤ Aided one President-Investments develop clientele with a minimum of 250K in equities and net worth of one Million or more
- Concentration in equities

#### Licenses

Underground Contractors License #CUC1223821 State of Florida

#### References

Mr. Jeffrey Kanter – Sr. VP Manager Prudential Securities 5355 Town Center Rd., #600, Boca Raton, FL 33486 (561-) 394-7510

Mr. Thomas Jackson

956 Hyacinth Dr., Delray Beach, FL 33483 (954) 975-0098

Mr. Anthony Wiggins – Contracts Agent Collier County 4800 Dan's Blvd., Naples, FL 33404 (239) 774-8924



# SECTION 9 WORKLOAD & STAFF AVAILABILITY





SECTION 9 – WORKLOAD & STAFF AVAILABILITY

Engineers • Surveyors • Subsurface Utility Engineering 3D Subsurface Imaging • Utility Coordination

#### PROJECTED WORKLOAD

CAS is currently reaching completion on many projects as per the current work listing below and will be available to accept new projects from the City. Listed below is a chart showing current and future workload with percentage of completion.

CLIENT	PROJECT	PERCENTAGE COMPLETE		
	rnoedi	DESIGN	CONSTRUCTION	
City of Belle Glade	Torry Island Boardwalk, Seawall & Docks	100%	0%	
City of Belle Glade	SCOP Resurfacing Projects – Funding Assistance Applications (13 streets)	100%	10%	
City of Delray Beach	NW Neighborhood Improvements	15%	0%	
City of Lake Worth Beach	Lake Osborne Estates Water Main Improvements	100%	25%	
City of Margate	Lift Station #7 Conversion	100%	N/A	
City of Margate	Replace Existing WWTP Triplex Lift Station & Dumping Station	100%	0%	
City of Margate	Water Main Replacement & Upsizing in Residential Neighborhoods	100%	15%	
City of Oakland Park	Cherry Creek	0%	0%	
City of Pompano Beach	SW 2 <sup>nd</sup> Street Drainage Improvements	100%	0%	
City of Pompano Beach	Non Sewer Area C Engineering Design Report	100%	N/A	
City of Pompano Beach	14th St. & US 1 Drainage Improvements	30%	0%	
City of Pompano Beach	Non Sewer Area C Sanitary Sewer Improvements	60%	0%	
City of Pompano Beach	NW 16th Lane Drainage Improvements	5%	0%	
Florida Department of Transportation	Statewide 3D Radar Tomography Support	30%	N/A	
Glades County	Washington Park Sewer Improvements (LS & FM)	100%	0%	
Hardee County	Wauchula Hills Phase 5.0 - Residential Sanitary Sewer	100%	20%	
Hardee County	Wauchula Hills Phase 6.0 - Residential Water Main Extension	100%	0%	
Hazen & Sawyer	Palm Beach East Central Regional Treatment Plant Radar Scan & Survey	100%	N/A	
Indian Trail Improvement District	Acreage Community Park	100%	90%	
Indian Trail Improvement District	140th Avenue North Roadway Improvements	100%	0%	
KD Construction of Florida, Inc.	Titusville Boundary Survey	100%	N/A	
Kimley Horn & Associates	Delray Beach Lowson Boulevard Improvements (Survey)	95%	N/A	
Miccosukee Tribe of Indians of Florida	Water Main Replacement	100% 0%		
Old Saybrook Golf Capitol	Fairway Memorial Gardens Cemetery (Survey)	90%	N/A	
Spring Lake Improvement District	Stormwater Treatment Area Phase 2 - Flow Diversion Weir	40%	N/A	



SECTION 9 - WORKLOAD & STAFF AVAILABILITY

Engineers • Surveyors • Subsurface Utility Engineering 3D Subsurface Imaging • Utility Coordination

Indian Trail Improvement 140th Avenue North Roadway District Improvements		100%	0%
Indian Trail Improvement District	Acreage Community Park Expansion South - Phase I	100%	65%
Spring Lake Improvement District  Design & Build New WWTP		100%	5%
Sunshine Water Control District	West Outfall Canal Widening	100%	N/A
Sunshine Water Control District	Coral Springs Drive Bridge Canal Widening	100%	0%
Town of Pembroke Park	Meekins Lake Stormwater Analysis	100%	0%
Town of Pembroke Park	SW 25 <sup>th</sup> Street Stormwater Improvements Phase I	100%	0%
Sun-N-Lake Improvement District (Sebring)  WTP Process Instrumentation and Conti		100%	0%

#### **CURRENT MUNICIPAL CLIENTS (MULTI-YEAR CONTRACTS)**

City of Belle Glade (Since 2013)

City of Lauderhill (Since 2013)

City of Moore Haven (Since 1995)

City of Sweetwater (Since 2000)

Indian Trail Improvement District (2003-2007, 2014 to Date)

CCPWA Utility Authority (Since 1994)

Town of Golden Beach (Since 2000) Village of Biscayne Park (Since 2013)

Sunshine Water Control District (Since 2015)

Sun "N" Lake Water Control District (Since 2017)

Hardee County (Since 1999)

City of Margate (Since 1988)

City of Sunny Isles Beach (Since 2013)

Glades County (Since 1993)

Spring Lake Improvement District (Since 2001)

Town of Pembroke Park (Since 1987)

Village of El Portal (Since 2003)

City of Pompano Beach (Since 2015)

City of Lake Worth Beach (Since 2018)









3D Subsurface Imaging • Utility Coordination

SECTION 9 – WORKLOAD & STAFF AVAILABILITY

#### **TEAM'S COMMITMENT & STAFF AVAILABILITY**

For the requirements of this contract, the CAS Management Team will assign responsibilities to survey crews, utility locating crews, staff engineers, subconsultants, construction management and supporting staff as needed for each assigned project. All staff members involved with an assigned project will be provided with the proper equipment and tools to perform the assign work. CAS is confident that it maintains adequate staff and staff availability to perform the work assigned and is able to increase staff as needed, due to its team experience, capacity and reputation in the industry. The CAS Team is ready to allocate the necessary staff and resources and to work with the City in accomplishing its goals as per contract requirements. We are committed to the City and will strive to continue to give excellent service in the survey, design and construction management services for assigned capital improvement projects on an as-needed basis.





CAS STAFF AND KEY MEMBERS <u>PROJECTED PERCENT AVAILABILITY</u> FOR THIS CONTRACT BASED ON CURRENT WORKLOAD

Name of Staff	Year 2020-2022	Year 2023-2025	
Gene R. Schriner, P.E.	10%	10%	
Stephen C. Smith, P.E.*	15%	15%	
William H. Landis, P.E.	30%	30%	
Frank Vilar, P.E.*	50%	50%	
Orlando Rubio, P.E.*	35%	35%	
Greg Giarratana*	40%	40%	
Keith Schriner*	35%	40%	
Al Caruso*	50%	55%	
Robert Keener, P.S.M.*	40%	50%	
Donald Drake	50%	50%	
David Lookabill	50%	50%	
James Driscoll*	30%	30%	
Alan Lopez*	30%	30%	
Michael Marenco*	30%	30%	
Miguel Rodrigues	40%	40%	
Michael LaVella	45%	55%	



SECTION 9 – WORKLOAD & STAFF AVAILABILITY

Engineers • Surveyors • Subsurface Utility Engineering 3D Subsurface Imaging • Utility Coordination

Tony Gomes*	60%	60%	
William Tanto*	50%	50%	
Michael Jones	15%	15%	

<sup>\*</sup> Key Project Members

#### SUBCONSULTANT KEY STAFF MEMBERS <u>PROJECT PERCENT AVAILABILITY</u> FOR THIS CONTRACT BASED ON CURRENT WORKLOAD

Name of Staff	Year 2020-2022	Year 2023-2025
Marcus Unterweger, P.E. (MUEngineers)	5%	5%
Ricardo Madriz (MUEngineers)	5%	5%
Larry Smith, P.E. (Smith Engineering Consultants)	60%	75%
Steve Hockman, P.E. (Smlth Engineering Consultants)	45%	55%
Luther E. Fair, P.E. (Smith Engineering Consultants)	50%	65%
Tom Mullen, P.E. (Radise International)	50%	50%
Andrew Nixon, P.E. (Radise International)	50%	50%
Akash Bissoon, P.E. (Radise International)	50%	50%
Jose Lopez, P.E., PMP (Bermello Ajamil & Partners)	15%	15%
Kirk Olney, R.L.A. (Bermello Ajamil & Partners)	15%	15%
Randy Hollingworth, P.E. (Bermello Ajamil & Partners)	10%	10%
Danny Dimura (Shenandoah Construction)	2%	2%
Lenny Jagiarski (Shenandoah Construction)	20%	20%
Staffin C. Zebarth (Shenandoah Construction)	4%	4%



# SECTION 10 OFFICE LOCATIONS





# SECTION 10 - OFFICE LOCATIONS

Engineers • Surveyors • Subsurface Utility Engineering 3D Subsurface Imaging • Utility Coordination

#### OFFICE LOCATIONS OF CAS TEAM

PRIME CONSULTANT: CRAIG A. SMITH & ASSOCIATES, INC.

CORPORATE HEADQUATERS (PRIME OFFICE)

21045 Commercial Trail Boca Raton, FL 33486 (561) 314-4445 (41 Employees)

#### **NUMBER OF EMPLOYEES**

CADD Technical	3
Civil Engineering	8
Construction Inspection	3
Land Surveyors	7
Utility Locators	4
Administration	6



PRIME CONSULTANT: CRAIG A. SMITH & ASSOCIATES, INC.

**BRANCH OFFICE - BROWARD COUNTY** 

277 Goolsby Blvd. Unit 4C Deerfield Beach, FL 33442

#### **NUMBER OF EMPLOYEES**

Utility Locators 9
Administration 1

#### SUBCONSULTANT: SMITH ENGINEERING CONSULTANTS, INC.

(ELECTRICAL ENGINEERING SERVICES) 2161 Palm Beach Lakes Blvd # 312 West Palm Beach, FL 33409



SUBCONSULTANT: RADISE INTERNATIONAL, LLC. (GEOTECHNICAL & MATERIAL TESTING SERVICES) CORPORATE HEADQUATERS
4152 W Blue Heron Blvd Suite 1114

Riviera Beach, FL 33404







SECTION 10 - OFFICE LOCATIONS

Engineers • Surveyors • Subsurface Utility Engineering 3D Subsurface Imaging • Utility Coordination

SUBCONSULTANT: BERMELLO AJAMIL & PARTNERS, INC.

(LANDSCAPE ARCHITECTURE, PERMITTING SUPPORT & PUBLIC OUTREACH SERVICES)

900 SE 3rd Ave STE 203 Fort Lauderdale, FL 33316

Bermello Ajamil & Partners

SUBCONSULTANT: MUENGINEERS, INC. (STRUCTURAL ENGINEERING SERVICES) 3440 NE 12th Ave Oakland Park, FL 33334



SUBCONSULTANT: SHENANDOAH CONSTRUCTION COMPANY (WASTWATER/STORMWATER PIPE INSPECTION, REHABILITATION & REPAIR SERVICES)

1888 NW 22 Street
Pompano Beach, FL 33069





# SECTION 11 LOCAL BUSINESSES TIER1/TIER 2 COMPLIANCE FORM EXHIBITS A-D



#### 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 V	ENDOR
limits and maintain	maintained a permanent place of business within the city as a staffing level, within this local office, of at least 10 % of the City of Pompano Beach.
	And/Or
limits and my sub	maintained a permanent place of business within the city mittal includes subcontracting commitments to Local factors for at least 10 % of the contract value.
	Or
My firm doe	es not qualify as a Tier 1 Vendor.
County and maint	ENDOR  maintained a permanent place of business within Broward ains a staffing level, within this local office, of at least 15% of the City of Pompano Beach
	And/Or
County and my su	maintained a permanent place of business within Broward ubmittal includes subcontracting commitments to Local ractors for at least 20% of the contract value.
	Or
My firm doe	es not qualify as a Tier 2 Vendor.
I certify that the abo	ove information is true to the best of my knowledge.
), 2020	Craig A. Smith and Associates, Inc.
(Date)	BY: (Name of Firm)

# REQUESTED INFORMATION BELOW IS ON LOCAL BUSINESS PROGRAM FORM ON THE BID ATTACHMENTS TAB. BIDDERS ARE TO COMPLETE FORM IN ITS ENTIRITY AND INCLUDE COMPLETED FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.

# CITY OF POMPANO BEACH, FLORIDA LOCAL BUSINESS PARTICIPATION FORM

Solicitation # & Title: E-20-20 Continuing Contract for Civil Engineering Services Prime Contractor's Name: Craig A. Smith and Associates, Inc. For Various City Projects

Contract Amount	s 10%					
Type of Work to be Performed/Materials to be Purchased	Pipe Cleaning, Inspection, Rehabilitation & Repairs					
Contact Person, Telephone Number	Danny DiMura 954 975 0098					
Name of Firm, Address	Shenandoah Construction Co.	1888 NW 22nd Street Pompano Beach, FL 33069				

LOCAL BUSINESS EXHIBIT "A

## LOCAL BUSINESS EXHIBIT "B" LOCAL BUSINESS LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR

		Solicitation Number <u>E-20-20</u>
TO:	Craig A Smith	
	(Name of Prime or General Bidde	er)
	undersigned City of Pompano Bea in connection with the above con	
	an individual	X LLC a corporation
	a partnership	a joint venture
	undersigned is prepared to perforr tract, as hereafter described in det	n the following work in connection with the above ail:
Cle	an, Video Inspection and Asses	ssment of Sanitary Sewer and Storm
Wa	ter Drainage Systems. Emerge	ency Pipe Repairs
at the	e following price:	
Jul	ly 14, 2020	Shenandoah General Construction LLC
	(Date)	(Print Name of Local Business Contractor)
		1888 NW 22 Street (Street Address)
		Pompano Beach, FL 33069
		(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"



CITY OF POMPANO BEACH BUSINESS TAX RECEIPT FISCAL YEAR: 2019 - 2020

10/17/2019

Business Tax Receipt Valid from: October 1, 2019 through September 30, 2020

4471062 SHENANDOAH GENERAL CONSTRUCTION LLC 1888 NW 22 ST

POMPANO BEACH FL 33069

#### THIS IS NOT A BILL

THIS IS YOUR BUSINESS TAX RECEIPT. PLEASE POST IN A CONSPICUOUS PLACE AT THE BUSINESS LOCATION.

BUSINESS OWNER: SHENANDOAH GEN CONST LLC
BUSINESS LOCATION: 1888 NW 22 ST POMPANO BEACH FL

RECEIPT NO: CLASSIFICATION

20-00100827 ENGINEERING CONSTRUCTION (1A-4C)

NOTICE: A NEW APPLICATON 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 JUDGEMENT OF THE CITY AS TO THE COMPETENCE OF THE APPLICANT TO TRANSACT BUSINESS. THIS DOCUMENT CANNOT BE ALTERED.



### LOCAL BUSINESS EXHIBIT "C" LOCAL BUSINESS UNAVAILABILITY FORM

Solicitation # E-20-20 Continuing Contract for Civil Engineering Services

·	E., Senior Vice President	
(Name and Title)		
of Craig A. Smith and A	ssociates, Inc, certify that on the 14	day of
July         2020           (Month)         (Year)	I invited the following LOCAL BUSINESS	S(s) to bid work
items to be performed in t	the City of Pompano Beach:	
Business Name, Addres	s Work Items Sought	Form of Bid Sought (i.e., Unit Price, Materials/Labor, Labor Only, etc.)
Shenandoah Construct	tion Co. Pipe Cleaning, Inspection	on, Rehabilitation & Repairs
		Labor and Materials
Said Local Businesses:		<del></del>
	Did not bid in response to the invitation	n
	Submitted a bid which was not the low	responsible bid
X	Other: Accepted to work as Subcon	tractor
	Name and Title:	
	Date: July 14, 2020 Stephen C. Sn	nith, P.E., Senior Vice President
Note: Attach additional de	ocuments as available	

LOCAL BUSINESS EXHIBIT "C"



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

Solicitation #<u>E-20</u>-20

	ation & Repairs
Did you provide adequate information to identifi provided this information.	ied Local Businesses? Please comment on h
Email and Telephone	
Did you send written notices to Local Businesse Yes No	es?
If yes, please include copy of the notice and the notices.	e list of individuals who were forwarded copie.
Did you advertise in local publications?	
Yes XNo	
Yes No  If yes, please attach copies of the ads, including	g name and dates of publication.
<del></del>	
If yes, please attach copies of the ads, including What type of efforts did you make to assist Local	al Businesses in contracting with you?
If yes, please attach copies of the ads, including What type of efforts did you make to assist Loca Email	al Businesses in contracting with you?
If yes, please attach copies of the ads, including What type of efforts did you make to assist Loca Email  List the Local Businesses you will utilize and su	al Businesses in contracting with you?  Ubcontract amount.  \$10%
If yes, please attach copies of the ads, including What type of efforts did you make to assist Loca Email  List the Local Businesses you will utilize and su	al Businesses in contracting with you?  Ubcontract amount.  \$\frac{10\%}{10\%}

LOCAL BUSINESS EXHIBIT "D" - Page 2

#### **Dimitrios Scarlatos**

From:

Dimitrios Scarlatos

Sent:

Tuesday, July 07, 2020 4:42 PM

To:

Danny DiMura; danieljdi@aol.com

Cc:

Lenny; Andrea Cole

Subject:

City of Pompano Beach RLI E-21-20: Continuing Contract For Civil Engineering Services

For Various City Projects

**Attachments:** 

E-20-20 Continuing Contract for Civil Engineering.pdf

Good Afternoon Danny,

CAS would like to include Shenandoah Construction on our team for **Water/Wastewater/Stormwater**Inspection & Repair Services for the City of Pompano Beach RLI E-21-20: Continuing Contract For Civil Engineering Services For Various City Projects as per the above-referenced RFP.

Please prepare and submit to us the following documents by **NO LATER** than the end of business day, **Thursday**, **July 16th**:

- 1. Firm Overview (MS WORD format)
- 2. Professional Resumes of Key Staff (MS WORD format)
- 3. Examples of Relevant Projects completed for the City of Pompano Beach and other Broward County municipalities/clients
- 4. Highlight any previous experience with the City of Pompano Beach in your Firm Overview (IF APPLICABLE)
- 5. Provide any CBE Certifications (Broward County ONLY) or if you have a local office within city limits (AS APPLICABLE TO YOUR FIRM)
- 6. Professional Licenses & Insurance Certificates as applicable (PDF format)
- 7. High Resolution of Company Logo (PDF Format)
- Please review the types of projects listed on page 2 of the RFP carefully before providing your submittal.
- 9. Any additional miscellaneous info that will add value to the proposal.
- 10. Complete & Sign Local Business Forms EXHIBIT B & EXHIBIT C if you are a local business in Pompano Beach as defined in the RFP document.

Looking forward to working with you once again.

Please contact me directly should you have any questions. Thanks!



#### SECTION 12 LITIGATION





#### **CRAIG A. SMITH & ASSOCIATES**

21045 Commercial Trail · Boca Raton, FL 33486

CONSULTING ENGINEERS - SURVEYORS - UTILITY LOCATORS

www.craigasmith.com

January 27, 2020

To Whom It May Concern,

#### RE: LITIGATION HISTORY FOR PAST FIVE YEARS

Craig A. Smith & Associates is a full service firm with a 40 year history in offering professional services. It would be inconceivable for a company in business for this length of time to not be the subject of professional liability claims and lawsuits. The great majority of these claims over the years have been without merit and discharged by our insurance company counsel. CAS maintains professional liability insurance and this insurance carrier handles all claims.

Our corporate counsel has recommended, for confidentiality reasons, that we not include actual claimant names, but the following describes the nature of such claims and presents a fair picture of CAS's professional liability claims history over the past five years:

#### Claimant v. Craig A. Smith & Associates, Inc.

- Date of Loss: 08/25/2015
- Project: TECO Power Utility Locates
- Personal Injury/Vehicle Accident
- CAS utility locator was involved in a vehicle accident with plaintiff. Plaintiff claimed additional injury to existing health issues. Settlement was offered to CAS's insurance carrier which was declined by carrier. Case was ultimately closed at twice the offered settlement of \$650,000.

#### Claimant

- Date of Loss: 10/31/2016
- Project: 174th Street, Sunny Isles Beach Construction Observation
- Personal Injury
- Claimant, while walking in proximity to the construction site, claimed to have debris which was floating in the air get into their eye causing medical attention. CAS and the contractor were sued, and CAS's insurance company settled for \$3,500.

#### Claimant v. Craig A. Smith & Associates, Inc.

561.314.4445

561.314.4458

- Date of Loss: 04/02/2018
- Project: City of Hollywood Utility Locating Services
- Claimant alleges CAS did not properly mark facilities.
- CAS provides utility location services for the City of Hollywood Utilities Department. Plaintiff was
  performing work within the city and damaged a city outfall pipe. Plaintiff contends CAS is at fault for
  not marking the facility. However, the plaintiff failed to call in a Sunshine One Call Ticket for the
  subject location. CAS's position is that it is not at fault due to the fact that a ticket did not exist for the
  subject location. Suit is pending.

Sincerely,

954.787 8222

Stephen C. Smith, P.E.

Senior Vice President

Page 57
PHONE ----- 561,314,4453 ---- 305,940

561.314.4459



# **SECTION 13 CITY FORMS**



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

E-20-20	Continuing Contract	for Civil Engineering Services for	Various City Projects
-	(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) Stephen C. Smith, P.E. Title Senior Vice President

Company (Legal Registered) Craig A. Smith and Associates, Inc.

Federal Tax Identification Number 59-2010476

Address 21045 Commercial Trail

City/State/Zip Boca Raton, FL 33486

Telephone No. 561 314 4445 Fax No. 561 314 4458

Email Address ssmith@craigasmith.com

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.

#### VENDOR CERTIFICATION REGARDING SCRUTINIZED COMPANIES LISTS

Respondent Vendor Name: Craig A. Smith and Associates, Inc.

Vendor FEIN: 59-2010476

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

X

Stephen C. Smith, P.E., Senior Vice President

#### BIDDERS ARE TO COMPLETE FORM AND UPLOAD COMPLETED FORM TO THE EBID SYSTEM

#### EXHIBIT E

#### MINORITY BUSINESS ENTERPRISE PARTICIPATION

<sub>RLI#</sub> 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?	
Radise International, LC	Yes	

# RADISE International, L.C.

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

07/11/2019

1007/11/2021

stril for

Jonathan R. Satter, Secretary Florida Department of Management Services Office of Supplier Diversity 4050 Esplanade Way, Suite 380 Tallahassee, FL 32399 850-487-0915 www.dms.myflorida.com/osd





## SECTION 14 SUBSURFACE UTILITY ENGINEERING (SUE)





#### Craig A. Smith & Associates, Inc.

Engineers • Surveyors • Subsurface Utility Engineering 3D Subsurface Imaging • Utility Coordination

# SECTION 14 - SUBSURFACE UTILITY ENGINEERING

#### CAS SUBSURFACE UTILITY ENGINEERING (SUE) SERVICES

With over 40 years in business, our staff of 40+ professional and technical personnel specializes in providing quality professional utility locating services to our clients. CAS has extensive experience in subsurface utility engineering (SUE) and employs the latest state-of-the-art technologies. In addition to traditional methods of utility locating such as vacuum excavation (potholing), electromagnetic (EM) induction for toneable utilities, and 2-D Ground Penetrating Radar (GPR), CAS can utilize a proprietary patented scanning technology known as 3-D Radar Tomography for subsurface utility investigations.

#### **Designating Equipment for Utilities**

- Metrotech 9890 DXLT Elec Verifier
- Metrotech i5000 Elec Locator
- Subsite R75 Electronic Verifier
- Pipehorn Classic Pipe & Cable Locator
- Metro Tech 810DX Electronic Verifier
- Vivax Vloc Pro 5w Locator
- Vivax Vloc ML 5w Locator
- Metrotech Transmitting Sondes (9.82 KHz)
- Metrotech Transmitting Sondes (982Hz)
- RD 100 Non-Metallic Fish Cables for Sondes
- Metro Tech HPL50 50 Watt Transmitter



CAS Certified Utility Locators perform complete electromagnetic designation of toneable facilities (DIP, CIP, Steel, Copper and other Metallic Conduits) throughout project limits to identify and catalog known existing facilities for survey and inclusion of such facilities in project base files or during the construction phase of projects for unforeseen utility conflicts.

#### 2D Ground Penetrating Radar (GPR)

#### Mala Geosciences High Dynamic Range Radar System - HDR

- Detects metallic and non-metallic utilities
- More than 14 hours of continuous operating time
- Operating speed is well above 25 km/h (>15 mph)
- Scan rate is above 1024 scans/sec. (@ 700 samples/trace)
- Single button operation
- High Dynamic Range (HDR) broadband Antenna
- Built-in DGPS (SBAS). External devices are also supported
- Data/Power combination cable (reduced cabling)
- Water resistant and protected to IP65
- Large color TFT, sunlight-readable, LCD monitor screen

#### Mala Geosciences HDR Easy Locator GPR Systems

- Portable, lightweight modular design
- Multi antennas / transducers
- High contrast, shock proof TFT monitor
- Rugged, weatherproof construction
- Easy to use, automated controls and settings
- Easy Vision software





**SECTION 14 - SUBSURFACE** 

**UTILITY ENGINEERING** 



## Craig A. Smith & Associates, Inc.

Engineers • Surveyors • Subsurface Utility Engineering 3D Subsurface Imaging • Utility Coordination

- Utility Pipes and sewers / Power cables
- Telecom cables / Buried Tanks
- Buried Ordnance / Voids

CAS certified GPR technicians perform complete ground penetrating radar grid scanning throughout project site limits to identify and catalog non-toneable facilities (HDPE, PVC, ACP, RCP and fiber optic cable) for survey and inclusion of such facilities in project base files or during the construction phase of projects for unforeseen utility conflicts.

## **CAS 3D Radar Tomography Scanning**

- Designed for Comprehensive Subsurface Investigation
- Radar Antenna Arrayed System
- 72 Channel Radar Output
- True 3D Subsurface Detection and Imaging
- Geospatially Accurate Subsurface Mapping
- Continuous Depiction of Subsurface Systems
- Large Area Coverage / Rough Terrain Capable
- Produces 1" Tomographic Slice Imagery
- Slice Image Movies through subsurface penetration
- Subsurface Void Detection
- Fluid Facility Leak Detection
- Data Output to 3D CAD System (Civil3D)
- Data Deliverable in All CADD Platforms
- 3D Models for Subsurface System Analysis
- BIM System Integration

CAS's unique capability in providing 3D Radar Tomography scanning provides continuous x,y,z positioning of buried utilities with great accuracy (+/- 2inches horizontally and +/- 6 inches vertically) along with the associated topographic profile (ground surface elevations). The 3-D Radar Tomography unit is equipped with an array of 17 antennas that "cross communicate" thus allowing for the level of accuracy stated above. Generally, utilities to a buried depth of up to 15 feet can be identified by this technology and all pipe material type can be located including bends/fittings and offsets. Also, abandoned facilities and non-utility anomalies can be identified that could potentially interfere with design elements. The use of this technology can be especially beneficial for aged utility areas where record drawings are poor or non-existent.

## Vacuum Excavation Equipment

- VacMaster System 3000 Vacuum Excavator
- Utiliscope Vacuum Excavator System
- Utilivac Canister Vacuum Excavator
- Ingersoll-Rand 185s Compressor
- Sullair 90lb Air Actuated Jack Hammer w/Bits
- IR 90lb Air Actuated Jack Hammer w/Bits
- Sullair MBT6 Air Actuated Pencil Tip Compactor
- American Air Products pencil tip compactor
- Utiliscope 6' Air Lance Pistol Activated
- Utiliscope 12' Air Lance Pistol Activated
- Vacmasters 6' Fiberglass / Composite Air Lance
- Vacmasters 12' Fiberglass / Composite Air Lance

CAS locate technicians perform safe vacuum excavation to positively identify and precisely locate existing buried facilities as necessary to identify conflicts or to provide precision calibration for 3D Radar Tomography Scanning.







Engineers • Surveyors • Subsurface Utility Engineering

## SUBSURFACE UTILITY ENGINEERING (SUE) - 3-D RADAR TOMOGRAPHY

## **General Summary**

With over 40 years in business, our staff of 40+ professional and technical personnel specializes in providing quality professional services to our clients. CAS has extensive experience in subsurface utility engineering (SUE) and employs the latest state-of-the-art technologies. In addition to traditional methods of utility locating such as vacuum excavation (potholing), electromagnetic (EM) induction for tonable utilities, and 2-D Ground Penetrating Radar (GPR), CAS can utilize a proprietary patented scanning technology known as 3-D Radar Tomography for subsurface utility investigations. 3-D Radar Tomography is a powerful scanning technology which provides for a continuous 3-dimensional scan of subsurface utilities with high levels of accuracy. CAS has utilized this technology in effectively locating subsurface utilities in South Florida with proven results for over 15 years. In today's congested utility corridors accurate and comprehensive utility locates is essential to sound utility engineering design. A FHWA/Purdue University Study documented a \$4.62 return on every \$1 invested in traditional SUE and an FDOT documented a \$12.00 return on every \$1 invested in 3-D Radar Tomography.



Typical 3-D Radar Tomography Scanning Unit

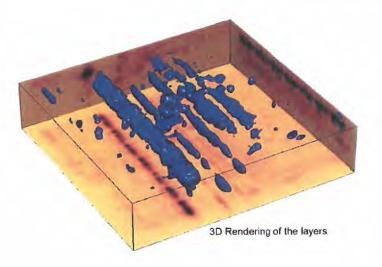


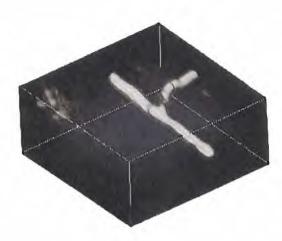
Engineers • Surveyors • Subsurface Utility Engineering

## The "CAS Advantage" – Benefits of a Unified Design Process and the Use of 3-D Radar Tomography

CAS has the unique capability of providing clients with survey and advanced utility locates for utility design projects. CAS' highly experienced survey crews and utility locating staff with the use of all the latest technology, coordinate closely with project engineers and collect field data with engineering principles and guidelines in mind. The fact that CAS provides such a unified process to design allows for fast tracking of design projects.

CAS' unique capability in providing 3-D Radar Tomography scanning provides continuous x,y,z positioning of buried utilities with great accuracy (+/- 2inches horizontally and +/-6 inches vertically) along with the associated topographic profile (ground surface elevations). The 3-D Radar Tomography unit is equipped with an array of 17 antennas that "cross communicate" thus allowing for the level of accuracy stated above. Generally, utilities to a buried depth of up to 15 feet can be identified by this technology and all pipe material type can be located, including bends/fittings and offsets. Also, abandoned facilities and non-utility anomalies can be identified that could potentially interfere with design elements. The use of this technology can be especially beneficial for aged utility areas where record drawings are poor or nonexistent. The implementation of 3-D Radar Tomography (3-D RT) to water main relocation projects as proposed under this contract offers a practical solution to this critical issue. This allows for the generation of very accurate and complete base maps which, in turn, accelerates the design process delivering 60% design plans at a typical 30% design plan submittal. In addition, this translates to superior final construction plans, greatly reducing the potential for changes orders and delays during construction due to unforeseen conflicts. Each 3-D RT unit scans a 6-foot wide pass. Under ideal conditions (unobstructed clear areas), 5 acres per day can be scanned with a single 3-D Radar Tomography scanning unit. The use of 3-D RT can reduce the need of vacuum excavation by 90% for locating subsurface utilities, thus reducing surface impacts and restoration. 3-D RT is very cost competitive when compared to traditional SUE methods due to the speed of data acquisition, accuracy and processing time.







Engineers • Surveyors • Subsurface Utility Engineering

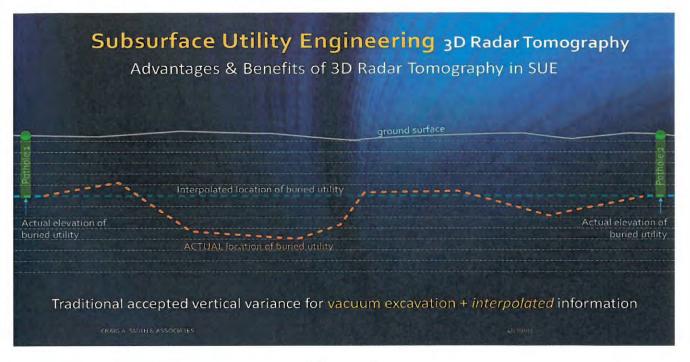


Diagram 1

The traditional vacuum excavation method of utility locating only provides accurate utility locations at the points of excavation, thus requiring estimation or interpolation of the utility location between the points of excavation as shown above in Diagram 1. Often though, there may be considerable variability in utility alignment between points of excavation. The use of 3-D RT scanning eliminates such uncertainties in utility locates by providing a continuous scan of the utility alignment as show below in Diagram 2.

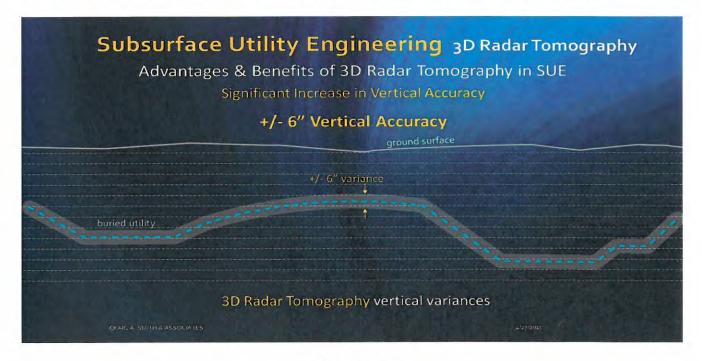


Diagram 2

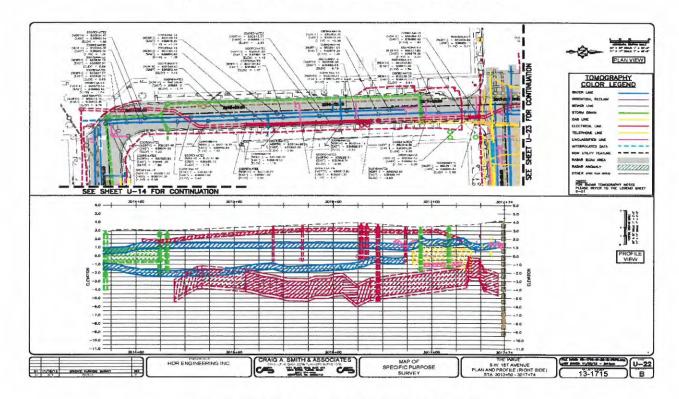


Engineers • Surveyors • Subsurface Utility Engineering

Once the data is processed and downloaded in Autodesk Civil 3-D, a 3-D model of the subsurface conditions can be generated along with the traditional plan and profile drawings as base maps for design.



Typical 3-D Model Deliverable of Subsurface Utilities



Typical Civil 3-D CADD Plan & Profile Deliverable



Engineers • Surveyors • Subsurface Utility Engineering

## 3-D Radar Tomography - Limiting Factors

3-D RT is generally very successful in scanning through sandy soils, gravel, limestone, granite, asphalt, concrete and shale, but readings can be inhibited by dense organic soil material such as muck, clay or peat. Also, flowable fill may limit the radar's penetrating ability. In addition, narrow corridors (less than 6 feet wide) with numerous above ground obstructions such as utility poles, cable boxes, bollards, or FPL transformers may limit the 3-D RT unit's accessibility. The use of 2-D GPR may be preferred in such restricted areas.

## **Subsurface Utility Engineering Services for Clients**

Our current and past clients for subsurface utility engineering services include federal, state, county, city government facilities; U.S. Naval facilities; NASA Facilities; Port Authorities; design engineers and contractors.

CAS maintains unlimited qualification with FDOT in categories 3.1, 7.1, 8.1 & 8.2. CAS is also licensed by the State of Florida Department of Business and Professional Regulation Board of Surveyors as an Engineering Survey firm, Land Bureau number 03110 (LB 03110).

CAS performs subsurface utility engineering & coordination services for numerous municipal clients and is licensed and capable of performing proprietary and patented **3D Radar Tomography** services throughout the United States.

CAS performs comprehensive subsurface utility engineering for many municipalities on a contractual basis, serving as the municipalities' One Call respondent. In this capacity, CAS staff members perform hundreds of utility line designations every week. CAS also performs 2D Ground Penetrating Radar locates and vacuum excavations for our municipal and private clients. In addition to providing One Call locates, CAS serves as the municipalities' or clients' "clearing house" for design related utility services providing plan mark-up, level D through A utility marking services, and coordination response in accordance with Utility Accommodation Manual requirements.

CAS is currently providing utility locating services for the following:

- City of Hollywood
- City of Coconut Creek
- City of Lauderhill
- Town of Pembroke Park
- Town of Davie
- City of Pembroke Pines
- City of Weston

- City of West Palm Beach
- Town of Jupiter
- FPL
- FDOT
- Marathon Oil Corp.
- Citgo Petroleum
- Port Everglades



Engineers • Surveyors • Subsurface Utility Engineering

Additionally, in the past CAS has performed various locating services for the following:

- Town of Golden Beach
- · City of Sweetwater
- City of Tampa
- · City of Aventura
- City of North Miami Beach
- City of North Miami
- Broward County
- Pasco County
- Miami-Dade County
- Palm Beach County
- Sarasota County
- Collier County
- NASA Kennedy Space Center
- Hardee County
- AT&T / BellSouth
- US Military Facilities
- City of Miami Gardens
- Village of Bal Harbour
- US Navy, NAS Key West
- TECO Peoples Gas

- Tampa Electric
- Martin County
- Coloniai Pipeline
- Marathon Pipeline
- Valero Energy
- Armada Hess
- Motiva (Shell) Enterprises
- Port of Tampa
- · Port of Jacksonville
- Koch Pipeline
- Buckeye Partners
- Progress Energy
- Orange County
- JEA
- US Park Service
- Central Intelligence Agency
- US Air Force
- US Army
- Balfour Beatty / Parsons Brinkerhoff

CAS performs all utility related surveys in accordance with Minimum Technical Standards for Surveying & Mapping, ASCE 38/02. All survey work is performed under the direct supervision of a licensed professional surveyor.

CAS is fully compliant with major CADD software platforms (AutoCAD Civil 3D & AutoDesk Civil Design).

Quality Assurance / Quality Control - CAS maintains a comprehensive Quality Control and Assurance program including, independent reviews by principal members of the firm. The principals maintain a vested financial interest in the operation of the firm and output of quality deliverables. CAS performs quality reviews through each phase of the project, up and through to deliverables. Quality reviews are performed at the staff, project engineer, project manager and principal levels. Records of all deficiencies found are noted and recorded. Corrections to deficiencies are checked against previously noted items and confirmed for correction and compliance. This process is repeated through each project phase, through final delivery.



## SECTION 15 PROFESSIONAL LICENSES AND CERTIFICATES



## State of Florida Department of State

I certify from the records of this office that CRAIG A. SMITH & ASSOCIATES, INC. is a corporation organized under the laws of the State of Florida, filed on August 7, 1980.

The document number of this corporation is 681464.

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 March 18, 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 Eighteenth day of March, 2020





Tracking Number: 0607370084CC

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

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

## **State of Florida Business Licenses**

## **ENGINEERING**



Ron DeSantis, Governor



## STATE OF FLORIDA

## **BOARD OF PROFESSIONAL ENGINEERS**

THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

## CRAIG A. SMITH & ASSOCIATES, INC.

21045 COMMERCIAL TRAIL BOCA RATON FL 33486

## LICENSE NUMBER: CA3110

**EXPIRATION DATE: FEBRUARY 28, 2021** 

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.

## **SURVEYING**



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

License No.: LB3110

Expiration Date February 28, 2021

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

CRAIG A SMITH & ASSOCIATES, INC. 21045 COMMERCIAL TRL BOCA RATON, FL 33486-1006

nicole fried

NICOLE "NIKKI" FRIED COMMISSIONER OF AGRICULTURE

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

## State of Florida Professional Licenses

## **ENGINEERING**



Ron DeSantis, Governor

Halsey Beshears, Secretary



## STATE OF FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

## **BOARD OF PROFESSIONAL ENGINEERS**

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

## SCHRINER, GENE ROBERT

1975 SOUTH CLUB DRIVE WELLINGTON FL 334140000

## LICENSE NUMBER: PE38821

**EXPIRATION DATE: FEBRUARY 28, 2021** 

Always verify licenses online at MyFloridaLicense.com



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ton DeSantis, Governo

Halsey Beshears, Secretary



## STATE OF FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

## **BOARD OF PROFESSIONAL ENGINEERS**

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

## SMITH, STEPHEN CRAIG

9960 MAJORCA PLACE BOCA RATON FL 334340000

LICENSE NUMBER: PE48914

**EXPIRATION DATE: FEBRUARY 28, 2021** 

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Ron DeSantis, Governor



## STATE OF FLORIDA

## **BOARD OF PROFESSIONAL ENGINEERS**

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

## ORTH, JAMES R.

112 SAND PINE WAY ROYAL PALM BEACH FL 33411

## LICENSE NUMBER: PE50126

**EXPIRATION DATE: FEBRUARY 28, 2021** 

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RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY



## STATE OF FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

## **BOARD OF PROFESSIONAL ENGINEERS**

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

## **RUBIO, ORLANDO ALBERTO**

7281 BRIELLA DR BOYNTON BEACH FL 33437

LICENSE NUMBER: PE48265

EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com



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RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY



## STATE OF FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

## **BOARD OF PROFESSIONAL ENGINEERS**

THE PROFESSIONAL ENGINEER HEREIN'IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

## VILAR, FRANK

21045 COMMERCIAL TRAIL BOCA RATON FL 33486

LICENSE NUMBER: PE55459

**EXPIRATION DATE: FEBRUARY 28, 2021** 

Always verify licenses online at MyFloridaLicense.com



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## **SURVEYING**



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

License No.: LS4846

Expiration Date February 28, 2021

Professional Surveyor and Mapper License

Under the provisions of Chapter 472, Florida Statutes

ROBERT D KEENER 950 SE ATLANTUS AVE FORT PIERCE, FL 34983-3906 nicole Gried

NICOLE "NIKKI" FRIED COMMISSIONER OF AGRICULTURE

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

## BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 - 954-831-4000 VALID OCTOBER 1, 2019 THROUGH SEPTEMBER 30, 2020

DBA:
Business Name: CRAIG A SMITH & ASSOC OF FLA

Receipt #: 315-6237 ENGINEER (ENGINEERING & IAND Business Type: SURVEYORS ()

Owner Name: CRAIG A SMITH & ASSOC OF FLA

Seats

Business Opened:07/16/1993

Business Location: 277 GOOLSBY BLVD, UNIT 4C-B

State/County/Cert/Reg:PD6 1043

DEERFIELD BEACH

**Exemption Code:** 

Business Phone: 782-8222

Rooms

Machines

**Professionals** 

	For Vending Business Only									
	Number of Machin	ies:	Vending Type:							
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid				
30.00	0.00	0.00	0.00	0.00	0.00	30.00				

**Employees** 1

## THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT

WHEN VALIDATED

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

## Mailing Address:

CRAIG A SMITH & ASSOC OF FLA 21045 COMMERCIAL TRAIL BOCA RATON, FL 33486

Receipt #13B-18-00008777 Paid 09/30/2019 30.00

2019 2020



## CERTIFICATE OF LIABILITY INSURANCE

05/19/2020

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).

this certificate does not confer rights t	o the	cert	ificate holder in lieu of su	contact	ent(s).				
PRODUCER				NAME:					
Bouchard Insurance for FrankCrum  101 Starcrest Drive				PHONE FAX (A/C_No):					
Clearwater, FL 33758				E-MAIL ADDRESS:					
					INSU	RER(S) AFFOR	DING COVERAGE	NA	IC#
				INSURER A - AMI			rance Company	40142	
NSURED				INSURER B	CHODII	Editor misch	ance company	40142	
FrankCrum 6, Inc. Alt. Emp: CRAIG A SMITH & /	ASSC	CIATE	ES, INC						
100 South Missouri Avenue				INSURER C :					
Clearwater, FL 33756				INSURER D :	_			-	
				INSURER E :					
		_		INSURER F :					
		-	NUMBER:20FL0809884	-			REVISION NUMBER:		
THIS IS TO CERTIFY THAT THE POLICIES INDICATED. NOTWITHSTANDING ANY RE CERTIFICATE MAY BE ISSUED OR MAY I EXCLUSIONS AND CONDITIONS OF SUCH	QUIP	REME AIN,	NT, TERM OR CONDITION THE INSURANCE AFFORDS	OF ANY CONTR	ACT (	DESCRIBE	DOCUMENT WITH RESPECT	TO WHICH	THIS
NSR TYPE OF INSURANCE	ADDL	SUBR	POLICY NUMBER	POLICY	EFF (	POLICY EXP	LIMITS		
COMMERCIAL GENERAL LIABILITY	INSU	99146	I OCIO I NOMBER	IMMIDDIT					
CLAIMS-MADE OCCUR							DAMAGE TÜRENTED		
CDAIMS-MADE OCCUR							PREMISES (Ea occurrence) S		
							MED EXP (Any one person) \$		
1							PERSONAL & ADV INJURY \$		
GEN'L AGGREGATE LIMIT APPLIES PER							GENERAL AGGREGATE \$		
POLICY LOC							PRODUCTS - COMP/OP AGG \$		
OTHER							S		
A UTOMOBILE LIABILITY							(Ea accident) S		
ANY AUTO							BODILY INJURY (Per person) S		
OWNED SCHEDULED AUTOS							BODILY INJURY (Per accident) S		
HIRED NON-OWNED AUTOS ONLY							PROPERTY DAMAGE S		
AUTOS ONET							trer accidenti		
UMBRELLA LIAB OCCUR	_				- 1				
OCCOR .									
T GENING INNEE							AGGREGATE S	_	
DED RETENTION \$ WORKERS COMPENSATION					-		Y PER OTH		
AND EMPLOYERS' LIABILITY Y / N							X PER OTH ER		
A ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED?	N/A	X	WC 47-58-512-09	06/01/2	020 (	06/01/2021	EL EACH ACCIDENT \$	1.00	000,00
(Mandatory in NH)				4 17 3 4			EL DISEASE - EA EMPLOYEE S	1,00	0,000
If yes, describe under DESCRIPTION OF OPERATIONS below.							EL DISEASE POLICY LIMIT S	1,00	0,000
			Location Coverage Perio	od: 06/01/20	020	06/01/2021	Client# 60544-FL		
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICL CRAIG A. SMITH & 21045 COMMERCI/ BOCA RATON, FL 3	ASS	OCIA RAIL		e, may be attached For work perforr			ed)		
				CANCELLAT	ION				
CERTIFICATE HOLDER				THE EXPIRA	TION	DATE THE	ESCRIBED POLICIES BE CAN EREOF, NOTICE WILL BE Y PROVISIONS.		
PROOF OF INSUI	AUTHORIZED REP	RESENT	TATIVE						



## CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

04/23/2020

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).

this certificate does not confer rights to the certificate holder in lieu of such endorsement(s). CONTACT NAME: PHONE (A/C, No. Ext): E-MAIL ADDRESS: Kim Hefferon Sena & Whitney LLC FAX (A/C, No): 561-210-8716 561-210-8715 190 Glades Rd Suite C khefferon@thesenagroup.com Boca Raton, FL 33432 INSURER(S) AFFORDING COVERAGE INSURER A : Wilshire Insurance Company, 13234 13234 INSURED **Burlington Insurance Co.** INSURER B : **CRAIG A. SMITH & ASSOCIATES** Peleus Insurance Company, 34118 INSURER C : 21045 COMMERCIAL TRAIL INSURER D: Evanston Insurance Company, 35378 35378 **BOCA RATON, FL 33486** INSURER E :

COVERAGES CERTIFICATE NUMBER: 00018216-2467528 **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 ADDL SUBR POLICY EFF POLICY EXP
(MM/DD/YYYY) (MM/DD/YYYY) TYPE OF INSURANCE POLICY NUMBER COMMERCIAL GENERAL LIABILITY 1,000,000 AX LB00018974 12/01/2019 12/01/2020 EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) CLAIMS-MADE X OCCUR \$

100,000 MED EXP (Any one person) 5.000 \$ 1,000,000 PERSONAL & ADV INJURY \$ 2,000,000 GEN'L AGGREGATE LIMIT APPLIES PER: GENERAL AGGREGATE \$ POLICY X PRO-2,000,000 PRODUCTS - COMP/OP AGG 5 OTHER: COMBINED SINGLE LIMIT (Ea accident) AUTOMOBILE LIABILITY ANY AUTO BODILY INJURY (Per person) 5 OWNED AUTOS ONLY HIRED AUTOS ONLY SCHEDULED AUTOS NON-OWNED AUTOS ONLY BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ UMBRELLA LIAB 5,000,000 X OCCUR HFF0011160 B 12/01/2019 12/01/2020 EACH OCCURRENCE **EXCESS LIAB** X 5,000,000 CLAIMS-MADE AGGREGATE \$ RETENTION \$ DED WORKERS COMPENSATION STATUTE AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE \$ If yes, describe under DESCRIPTION OF OPERATIONS below E.L. DISEASE - POLICY LIMIT IAE4218173 04/01/2020 04/01/2021 1,000,000 Professional Professional Liab CPLMOL102522 03/20/2020 PER CLAIM/AGGR D POLLUTION LIABILITY 03/20/2021 \$1M/\$3M

CERTIFICATE HOLDER	CANCELLATION
PROOF OF INSURANCE	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

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

© 1988-2015 ACORD CORPORATION. All rights reserved.

(KIH)

## State of Florida Department of State

I certify from the records of this office that SMITH ENGINEERING CONSULTANTS, INC. is a corporation organized under the laws of the State of Florida, filed on June 3, 1999, effective June 1, 1999.

The document number of this corporation is P99000049883.

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 January 23, 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-third day of January, 2020



Kanulyku Secretary of State

Tracking Number: 1766095307CC

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

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



Halsey Beshears, Secretary

## DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION STATE OF FLORIDA

# BOARD OF PROFESSIONAL ENGINEERS

THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

# SMITH ENGINEERING CONSULTANTS, INC.

2161 PALM BEACH LAKES BOULEVARD SUITE 312 WEST PALM BEACH FL 33409

LICENSE NUMBER: CA8228

**EXPIRATION DATE: FEBRUARY 28, 2021** 

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.



Halsey Beshears, Secretary

## **DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION** STATE OF FLORIDA

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

BOARD OF PROFESSIONAL ENGINEERS

## SMITH, LARRY MICHAEL

2161 PALM BEACH LAKES BLVD SUITE 312 WEST PALM BEACH FL 33409

LICENSE NUMBER: PE45997

**EXPIRATION DATE: FEBRUARY 28, 2021** 

Always verify licenses online at MyFloridaLicense.com



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Ron DeSantis, Governor



Halsey Beshears, Secretary

## DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION STATE OF FLORIDA

## BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

## FAIR, LUTHER EARL JR

7075 SE TWIN OAKS CIRCLE

STUART

FL 34997

## **LICENSE NUMBER: PE24633**

**EXPIRATION DATE: FEBRUARY 28, 2021** 

Always verify licenses online at MyFloridaLicense.com



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## BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 - 954-831-4000 VALID OCTOBER 1, 2020 THROUGH SEPTEMBER 30, 2021

DBA:
Business Name: LARRY M SMITH, PE

Receipt #:315-255623

Business Type:

Owner Name: SMITH ENGINEERING CONSULTANTS, INC

FT LAUDERDALE

Business Location: 412 SE 18 ST

Business Opened:05/17/2013 State/County/Cert/Reg:CA LIC #8228 AUDIT #

Exemption Code:

Business Phone: 561-616-3911

Rooms

Seats

**Employees** 

Machines

**Professionals** 

	For Vending Business Only								
	Number of Machin	nes:	Vending Type:						
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid			
30.00	0.00	0.00	0.00	0.00	0.00	30.00			

## THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT

WHEN VALIDATED

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

## Mailing Address:

SMITH ENGINEERING CONSULTANTS, INC 2161 PALM BEACH LAKES BLVD STE 312 WEST PALM BEACH, FL 33409

Receipt #15B-19-00001145 Paid 07/08/2020 30.00

2020 - 2021



## 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

June 25, 2019

Mr. Larry M. Smith
SMITH ENGINEERING CONSULTING, INC.
412 S.E. 18<sup>th</sup> Street
Fort Lauderdale, Florida 33316

Dear Mr. Smith:

The Broward County Office of Economic and Small Business Development (OESBD) is pleased to announce that your firm's County Business Enterprise (CBE) certification has been renewed.

Your firm's certifications are continuing from your anniversary date but are contingent upon the firm verifying its eligibility annually through this office. You will be notified in advance of your obligation to continue eligibility in a timely fashion. However, the responsibility to ensure continued certification is yours. Failure to document your firm's continued eligibility for the CBE and SBE programs within **thirty** (30) days from your anniversary may result in the expiration of your firm's certifications. Should you continue to be interested in certification after it has expired, you will need to submit a new application, and all required supporting documentation for review.

To review current Broward County Government bid opportunities, visit: <a href="www.broward.org/Purchasing">www.broward.org/Purchasing</a> and click on "Current Solicitations and Results." Also, from this website, you can log into your firm's profile in BidSync to ensure you have added all appropriate classification codes. Bid opportunities over \$3,500 will be advertised to vendors via <a href="e-mail">e-mail</a> and according to classification codes, so please ensure that both the Purchasing Division <a href="email">and</a> OESBD are apprised of your current e-mail address.

Your primary certification group is: **Architecture/Engineering Services.** This is also how your listing in our directory will read. You may access your firm's listing by visiting the Office of Economic and Small Business Development Directory, located on the internet at: <a href="https://www.broward.org/EconDev">www.broward.org/EconDev</a> and click on "Certified Firm Directories."

Your firm may compete for, and perform work on Broward County projects in the following area:

NAICS CODE: 541330

We look forward to working with you to achieve greater opportunities for your business through county

procurement.

Sincerely.

Sandy-Michael McDonald, Director

Office of Economic and Small Business Development

Cert Agency: BC- CBE

ANNIVERSARY DATE: August 5th





## SMITH-2

OP ID: BB

DATE (MM/DD/YYYY)

## CERTIFICATE OF LIABILITY INSURANCE

06/11/2020

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	321-445-1117	CONTACT Lauren Hampton				
JCJ Insurance Agency 2208 Hillcrest Street		PHONE (A/C, No, Ext): 321-445-1117	IA/G. NOI:	-445-1076		
Orlando, FL 32803 Erin L. Johnson		E-MAIL ADDRESS: certs@jcj-insurance.com				
Lini L. Comison		INSURER(S) AFFORDING CO	OVERAGE	NAIC#		
		INSURER A: Hartford Accident & Ind		22357		
INSURED		INSURER B: Hudson Insurance Com	pany	25054		
INSURED Smith Engineering Consultants 2161 Palm Beach Lakes Blvd#312 West Palm Beach, FL 33409		INSURER C :				
West Fami Beach, I E 33403		INSURER D :				
		INSURER E :				
		INSURER F :				
COVERAGES CERTIF	EICATE NIIMDED.	DEMO	YON NUMBER			

					INSURER E :				
					INSURER F :				
CO	VERAGES	CE	RTIFICATI	E NUMBER:			REVISION NUMBER:		
C	IDICATED. ERTIFICATE	NOTWITHSTANDING ANY I MAY BE ISSUED OR MAY	REQUIREME PERTAIN,	RANCE LISTED BELOW HA ENT, TERM OR CONDITION THE INSURANCE AFFORD LIMITS SHOWN MAY HAVE	OF ANY CONTRACT DED BY THE POLICIE	OR OTHER S DESCRIBE	DOCUMENT WITH RESPE D HEREIN IS SUBJECT TO	CT TO	WHICH THIS
INSR	Т	YPE OF INSURANCE	ADDL SUBR	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMIT	S	
A	Х сомме	RCIAL GENERAL LIABILITY	1130 1110		TRANSPOSITION TO	THE PARTY OF THE P	EACH OCCURRENCE	s	1,000,000
	CL	AIMS-MADE X OCCUR		21 SBM VL1238	06/01/2020	06/01/2021	DAMAGE TO RENTED PREMISES (Ea occurrence)	\$	300,000
				1			MED EXP (Any one person)	\$	10,000
							PERSONAL & ADV INJURY	S	1,000,000
	GEN'I AGGR	EGATE LIMIT APPLIES PER:					GENERAL AGGREGATE	S	2,000,000
	POLICY	** 550					PRODUCTS - COMP/OP AGG	S	2,000,000
	OTHER:	JEO!					TRODUCTS - COMPTOR AGG	\$	
Α	AUTOMOBILI	LIABILITY					COMBINED SINGLE LIMIT (Ea accident)	5	1,000,000
	ANY AUTO OWNED AUTOS ONLY SCHEDULED AUTOS		21SBMTY7605	06/01/2020	06/01/2021	BODILY INJURY (Per person)	\$		
						BODILY INJURY (Per accident)	\$		
Х							PROPERTY DAMAGE (Per accident)	s	
	70100	AUTOS ONE!					(i or accidenty	•	
Α	X UMBREI	LA LIAB X OCCUR					EACH OCCURRENCE	\$	1,000,000
	EXCESS	S LIAB CLAIMS-MADE 21SBMTY70	21SBMTY7605	1SBMTY7605 06/01/2020 0	06/01/2021	AGGREGATE	\$	1,000,000	
	OED	RETENTION\$					THOUSE OF THE	4	
	WORKERS CO	MPENSATION ERS' LIABILITY					PER OTH- STATUTE ER		
			1				E.L. EACH ACCIDENT	\$	
		TOR/PARTNER/EXECUTIVE BER EXCLUDED?	XCLUDED?				E.L. DISEASE - EA EMPLOYEE		
	If yes, describe DESCRIPTION	under OF OPERATIONS below					E.L. DISEASE - POLICY LIMIT	s	
В	Profession	al Liab		PRB 06 19 110424	06/01/2020	06/01/2021	Per Claim		2,000,000
							Aggregate		2,000,000

CERTIFICATE HOLDER	CANCELLATION
FORPROP For Proposal Purposes	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	Punl Dinson

## State of Florida Department of State

I certify from the records of this office that RADISE INTERNATIONAL, L.C. is a limited liability company organized under the laws of the State of Florida, filed on September 30, 1997.

The document number of this limited liability company is L97000001085.

I further certify that said limited liability company has paid all fees due this office through December 31, 2020, that its most recent annual report was filed on January 15, 2020, and that its status is active.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Fifteenth day of January, 2020





Tracking Number: 9865363759CC

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

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



JONATHAN ZACHEM, SECRETARY

## DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION STATE OF FLORIDA

# BOARD OF PROFESSIONAL ENGINEERS

THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

## RADISE INTERNATIONAL, L.C.

4152 W. BLUE HERON BLVD. #1114 RIVIERA BEACH FL 33404

LICENSE NUMBER: CA8901

**EXPIRATION DATE: FEBRUARY 28, 2021** 

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.





## STATE OF FLORIDA

# BOARD OF PROFESSIONAL ENGINEERS

THE CEP Approved HEREIN null UNDER THE PROVISIONS OF CHAPTER null, FLORIDA STATUTES

## RADISE INTERNATIONAL, LC

4152 W BLUE HERON BLVD 1114 RIVIERA BEACH FL 33404

LICENSE NUMBER: CEA549

**EXPIRATION DATE: MAY 31, 2021** 

Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.







## STATE OF FLORIDA

**BOARD OF PROFESSIONAL ENGINEERS** 

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

## MULLIN, THOMAS FRANCIS

5966 WEDGEWOOD VILLAGE CIRCLE LAKE WORTH FL 33463

**LICENSE NUMBER: PE43366** 

**EXPIRATION DATE: FEBRUARY 28, 2021** 

Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.



RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY

## Plorida O

## DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION STATE OF FLORIDA

# BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

## NIXON, ANDREW JOSEPH

9094 WRANGLER DRIVE LAKE WORTH FL 33467

LICENSE NUMBER: PE71458

**EXPIRATION DATE: FEBRUARY 28, 2021** 

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.



JONATHAN ZACHEM, SECRETARY

## DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION STATE OF FLORIDA

# BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

## BISSOON, AKASH

1265 S.E. PALM BEACH ROAD PORT ST LUCIE FL 34952

LICENSE NUMBER: PE74582

**EXPIRATION DATE: FEBRUARY 28, 2021** 

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.

## BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 - 954-831-4000 VALID OCTOBER 1, 2019 THROUGH SEPTEMBER 30, 2020

DBA:
Business Name: RADISE INTERNATIONAL LC

Receipt #: 315-245012

**Business Type:** 

Owner Name: KUMAR ALLADY P.E.

Business Opened:09/22/2011

Business Location: 3296 NW 9 AVE

OAKLAND PARK

State/County/Cert/Reg:52845

**Exemption Code:** 

Business Phone: 561 841-0103

Rooms

Seats

**Employees** 

Machines

**Professionals** 

	For Vending Business Only								
	Number of Machin	ies:	Vending Type:						
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid			
30.00	0.00	0.00	0.00	0.00	0.00	30.00			

## THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT

WHEN VALIDATED

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

## Mailing Address:

RADISE INTERNATIONAL LC 4152 W BLUE HERON BLVD STE 1114 RIVIERA BEACH, FL 33404

Receipt #1CP-18-00009884 Paid 07/16/2019 30.00 07/15/2019 Effective Date

2019 - 2020

DROWARD COUNTY LOCAL DURINESS TAY DECEIDT

## BUSINESS TAX RECEIPT CITY OF OAKLAND PARK 2019-2020

MAILING ADDRESS

ISSUED DATE:

August 10, 2019

RADISE INTERNATIONAL, L.C. 4152 W BLUE HERON BLVD, STE 1114 RIVIERA BEACH, FL 33404

NAME AND LOCATION OF LICENSEE

LICENSE NUMBER

2020001487

RADISE INTERNATIONAL, L.C. 3296 NW 9 AVE OAKLAND PARK, FL 33309

ORIGINAL NUMBER

2015002971

LICENSE EXPIRES

9/30/2020

THE PERSON OR FIRM NAMED ABOVE IS HEREBY LICENSED TO ENGAGE IN THE BUSINESS PROFESSION OR OCCUPATION LISTED BELOW IN THE CITY OF OAKLAND PARK FLORIDA.

BUSINESS CODE

06490

**BUSINESS DESCRIPTION** 

**ENGINEERING FIRM** 

RESTRICTIONS

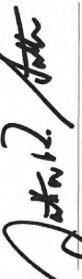
# RADISE International, L.C.

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

07/11/2019

07/11/2021

2



Jonathan R. Satter, Secretary Florida Department of Management Services Office of Supplier Diversity 4050 Esplanade Way, Suite 380 Tallahassee, FL 32399 850-487-0915 www.dms.myflorida.com/osd





**RADIINT-01** 

**DCHARRON** 

DATE (MM/DD/YYYY) 1/6/2020

## CERTIFICATE OF LIABILITY INSURANCE

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(les) 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 no	t confer rights to the certificate holder in lieu of	such endorsement(s).					
PRODUCER		CONTACT Dianthe Charron					
CAL Risk Management 23 Eganfuskee Street		PHONE (A/C, No, Ext): (561) 776-9001 (A/C, No): (561)					
Suite 102		E-MAII ADDRESS: dcharron@callic.com					
Jupiter, FL 33477		INSURER(S) AFFORDING COVERAGE					
		INSURER A : Charter Oak Fire Ins Co	25615				
INSURED		INSURER B: Travelers Property & Casualty Co. of America INSURER C: Crum & Forster Specialty Ins					
	rnational, L.C.						
Suite 1114	Heron Boulevard	INSURER D:					
Riviera Bead	th, FL 33404	INSURER E:					
		INSURER F;					
COVERAGES	CEPTIFICATE NUMBER:	REVISION NUMBER					

O A FIGURAL CO	CENTIFICATE HORBER.	TAL FIGURE IN THE RESERVE TO THE RES
THIS IS TO CERTIFY	THAT THE POLICIES OF INSURANCE LISTED BELOW HAV	E BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIO
INDICATED. NOTWIT	HSTANDING ANY REQUIREMENT, TERM OR CONDITION O	OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS
CERTIFICATE MAY B	E ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED	) BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS
EVALUEIONA AND CO	EIRITIANIA AT ALIANA BANDADA DI MATA ADAMENISTANIA MERITA	CALIDED DV DAIS OLAMAC

		USIONS AND CONDITIONS OF SUCH								
INSF	t l	TYPE OF INSURANCE	ADOL	SUBF WVD	POLICY NUMBER	POLICY EFF	MW/DD/YYYY)	LIMI	TS	
A	X	COMMERCIAL GENERAL LIABILITY						EACH OCCURRENCE	s	1,000,000
		CLAIMS-MADE X OCCUR	X	X	6605P195565	1/2/2020	1/2/2021	DAMAGE TO RENTED PREMISES (Ea occurrence)	\$	300,000
				İ				MED EXP (Any one person)	\$	5,000
	<u></u>			l		}	]	PERSONAL & ADV INJURY	s	1,000,000
	GEI	N'L AGGREGATE LIMIT APPLIES PER:	ł	i				GENERAL AGGREGATE	\$	2,000,000
		POLICY X PRO LOC						PRODUCTS - COMP/OP AGG	\$	2,000,000
	<u> </u>	OTHER: Capped \$4m Aggregate							5	
A	AU	PONOBILE LIABILITY		1				COMBINED SINGLE LIMIT (Ea accident)	\$	1,000,000
]	X	ANY AUTO	X	X	8105P19473A	1/2/2020	1/2/2021	BODILY INJURY (Per person)	\$	
		OWNED SCHEDULED AUTOS ONLY	ł					BODILY INJURY (Per accident)	\$	
	Х	HIRES ONLY X MONOSYNED	1					PROPERTY DAMAGE (Per accident)	\$	
			<u> </u>			l L			\$	
В	X	UMBRELLA LIAB X OCCUR						EACH OCCURRENCE	\$	5,000,000
ł	Ш	EXCESS LIAB CLAIMS-MADE	Į		CUP5P208830	1/2/2020	1/2/2021	AGGREGATE	S	5,000,000
		DED X RETENTION \$ 10,000							\$	
В	WOR	KERS COMPENSATION EMPLOYERS LIABILITY						X PER OTH-		
	ANY	PROPRIETOR/PARTNER/EXECUTIVE TITIN	N/A	X	UB5P203207	1/2/2020	1/2/2021	E.L. EACH ACCIDENT	\$	1,000,000
		CER/MEMBER EXCLUDED?	""				İ	E.L. DISEASE - EA EMPLOYEE	\$	1,000,000
		s, describe under CRIPTION OF OPERATIONS below						E.L. DISEASE - POLICY LIMIT	\$	1,000,000
C	Pro	fessional Llab			PKC108467	1/1/2020	1/1/2021	Claims Made		2,000,000
C	Poll	ution Liab			PKC108467	1/1/2020	1/1/2021	Policy Limit		2,000,000
										ł

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
RE: Master SubContractor Services Contract

Certificate holder is added as an additional insured including products and completed operations for general liability per CGD414, and auto liability when required by written contract. Per project aggregate applies when required by written contract. General Liability and auto liability are primary and non-contributory when required by written contract. Waiver of subrogation applies to general flability, auto liability, and workers' compensation for the certificate holders when required by written contract. Umbrella extends over general flability, auto liability, and employer's liability. Cancellation applies as per policy terms, conditions and exclusions.

CERTIFICATE HOLDER	CANCELLATION
Geosyntec Consultants, Inc. Attn: Accounts Payable 900 Broken Sound Pkwy NW. Suite 200	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
Boca Raton, FL 33487	AUTHORIZED REPRESENTATIVE

ACORD 25 (2016/03)

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## State of Florida Department of State

I certify from the records of this office that BERMELLO, AJAMIL & PARTNERS, INC. is a corporation organized under the laws of the State of Florida, filed on February 28, 1977.

The document number of this corporation is 528526.

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 January 23, 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-third day of January, 2020





Tracking Number: 9640388590CC

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

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

Ron DeSantis, Governor



## STATE OF FLORIDA

# **DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

# BOARD OF LANDSCAPE ARCHITECTURE

THE LANDSCAPE ARCHITECT BUSINESS HEREIN HAS REGISTERED UNDER THE PROVISIONS OF CHAPTER 481, FLORIDA STATUTES

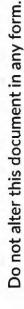
# BERMELLO, AJAMIL & PARTNERS, INC

2601 SOUTH BAYSHORE DRIVE SUITE 1000 FL 33133

## LICENSE NUMBER: LC0000261

**EXPIRATION DATE: NOVEMBER 30, 2021** 

Always verify licenses online at MyFloridaLicense.com





Ron DeSantis, Governor

Halsey Beshears, Secretary

### DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION STATE OF FLORIDA

## BOARD OF PROFESSIONAL ENGINEERS

THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

# BERMELLO AJAMIL & PARTNERS, INC.

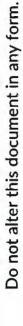
2601 SOUTH BAYSHORE DRIVE SUITE 1000

MIAMI F FL 33133

LICENSE NUMBER: CA6304

**EXPIRATION DATE: FEBRUARY 28, 2021** 

Always verify licenses online at MyFloridaLicense.com







Halsey Beshears, Secretary

### DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION STATE OF FLORIDA

## BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

### LOPEZ, JOSE LUIS

1661 NW 98TH AVE PLANTATION FL 333220000

### LICENSE NUMBER: PE39555

**EXPIRATION DATE: FEBRUARY 28, 2021** 

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.

Ron DeSantis, Governor

Halsey Beshears, Secretary



### **DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION** STATE OF FLORIDA

## BOARD OF LANDSCAPE ARCHITECTURE

THE LANDSCAPE ARCHITECT HEREIN HAS REGISTERED UNDER THE PROVISIONS OF CHAPTER 481, FLORIDA STATUTES

OLNEY, KIRK JEFFERY

1410 SHERIDAN STREET
UNIT 1-16
HOLLYWOOD FL 33020

LICENSE NUMBER: LA0001705

**EXPIRATION DATE: NOVEMBER 30, 2021** 

Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.



### 2019 - 2020

### **BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT**

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 - 954-831-4000 VALID OCTOBER 1, 2019 THROUGH SEPTEMBER 30, 2020

DBA: BERMELLO AJAMIL & PARNTERS INC

Receipt #: 315-125 Business Type: ENGINEER

Owner Name: LUIS AJAMIL

Business Location: 900 SE 3RD AVE #203

FT LAUDERDALE

Business Opened: 02/03/1995

State/County/Cert/Reg: EB0006304 PE0018420

**Exemption Code:** 

Business Phone: 467-1113

Rooms

**Employees** 5

**Machines** 

**Professionals** 

Si	nature	For Vending Business Only													
		Number of Mac	nines:		Vending Type	*									
	Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid								
	30.00	0.00	0.00	0.00	0.00	0.00	30.0								

Receipt #WWW-18-00190671 Paid 09/16/2019 30.00

### 2019 . 2020

### BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 - 954-831-4000 VALID OCTOBER 1, 2019 THROUGH SEPTEMBER 30, 2020

DBA: BERMELLO AJAMIL & PARTNERS INC

Receipt #: 316-121 Business Type: ARCHITECT

Owner Name: WILLY A BERMELLO

Business Location: 900 SE 3RD AVE #203

FT LAUDERDALE

Business Opened: 02/03/1995 State/County/Cert/Reg: AR0007200

Exemption Code:

Business Phone: 467-1113

Rooms

Employees 5

Machines

**Professionals** 

Signature		Fo	or Vending Business O	nly		
	Number of Mac	hines:		Vending Type	:	
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
30.00	0.00	0.00	0.00	0.00	0.00	30.00

Receipt #WWW-18-00190683 Paid 09/16/2019 30.00

Client#: 31137

### **BERMEAJA**

### ACORD.

### CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

11/13/2019

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.

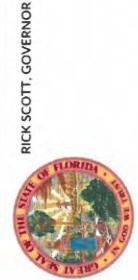
IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer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

US	I Insurance Services, LLC-CL			PHONE (A/C, No, Ext): 786-454-2015 (A/C, No):											
24	00 East Commercial Blvd.			E-MAIL ADDRESS: esther.garcia@usi.com											
Su	ite 600			ADDRESS.		FORDING COVERAGE		NA.	AIC#						
Fo	rt Lauderdale, FL 33308			INSURER A : Hartford Cas				29424							
INS	URED			INSURER B : Twin City Fir				29459							
	Bermello, Ajamil & Partne	rs, Inc.		INSURER C : Continental				20443	_						
	2601 S Bayshore Dr Ste 10	000		INSURER D :											
	Miami, FL 33133-5437			INSURER E :					_						
				INSURER F :											
CO	VERAGES CER	TIFICATE	NUMBER:	INSURER F;		REVISION NUMB	RED.								
C	HIS IS TO CERTIFY THAT THE POLICIES NDICATED. NOTWITHSTANDING ANY RESERTIFICATE MAY BE ISSUED OR MAY FOXCLUSIONS AND CONDITIONS OF SUCH	QUIREMEN PERTAIN, POLICIES	NT, TERM OR CONDITION O THE INSURANCE AFFORDE S. LIMITS SHOWN MAY HA	F ANY CONTRACT O D BY THE POLICIES VE BEEN REDUCED	R OTHER DO DESCRIBED I BY PAID CLAI	CUMENT WITH RE	SPECT	TO WHICH THI	IS						
INSF LTR	TYPE OF INSURANCE	ADDL SUBI	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)		LIMITS	6							
A	X COMMERCIAL GENERAL LIABILITY  CLAIMS-MADE X OCCUR		21UUNKK3709			EACH OCCURRENCE DAMAGE TO RENTEL PREMISES (Ea occurr		\$1,000,000 \$300,000							
						MED EXP (Any one pe		\$10,000							
						PERSONAL & ADV IN	JURY	\$1,000,000							
	GEN'L AGGREGATE LIMIT APPLIES PER:					GENERAL AGGREGA	ATE	\$2,000,000							
	X POLICY PRO- JECT LOC					PRODUCTS - COMP/	OP AGG	\$2,000,000							
	OTHER:							s							
A	AUTOMOBILE LIABILITY		21UUNKK3709	11/11/2019	11/11/2020	COMBINED SINGLE L (Ea accident)	IMIT	s1,000,000							
	X ANY AUTO			BODILY INJURY (Per		S									
	OWNED SCHEDULED AUTOS ONLY					BODILY INJURY (Per	accident)	S							
	X HIRED AUTOS ONLY X NON-OWNED AUTOS ONLY					PROPERTY DAMAGE (Per accident)		\$							
								\$							
Α	X UMBRELLA LIAB X OCCUR		21XHUKK3260	11/11/2019	11/11/2020	EACH OCCURRENCE		s10,000,000							
	EXCESS LIAB CLAIMS-MADE			0.27		AGGREGATE		s10,000,000							
	DED X RETENTION \$10000							s							
В	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY		21WBAG1371	11/11/2019	11/11/2020	X PER	OTH- EB								
	ANY PROPRIETOR/PARTNER/EXECUTIVE					E.L. EACH ACCIDENT		\$1,000,000							
	OFFICER/MEMBER EXCLUDED? N (Mandatory in NH)	N/A				E.L. DISEASE - EA EN									
	If yes, describe under DESCRIPTION OF OPERATIONS below					E.L. DISEASE - POLICE		s1,000,000							
С	Professional		AEH288262231	11/11/2019	11/11/2020	\$5,000,000 Pe									
	Liability					\$10,000,000 A									
	Claims Made					\$125,000 Ded									
	CRIPTION OF OPERATIONS / LOCATIONS / VEHIC DOF OF Insurance only.	CLES (ACOR	D 101, Additional Remarks Sched	ule, may be attached if mo	ore space is requ	ired)									
CE	RTIFICATE HOLDER			CANCELLATION											
	SAMPLE			SHOULD ANY OF	THE ABOVE DE	SCRIBED POLICIE	S BE CAI	NCELLED BEFO	DRE						

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THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE



JONATHAN ZACHEM, SECRETARY

## DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION STATE OF FLORIDA

# BOARD OF PROFESSIONAL ENGINEERS

THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

### MUENGINEERS, INC.

3440 NE 12TH AVE. OAKLAND PARK FL 33334

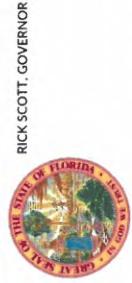
LICENSE NUMBER: CA29348

**EXPIRATION DATE: FEBRUARY 28, 2021** 

Always verify licenses online at MyFloridaLicense.com







JONATHAN ZACHEM, SECRETARY



### DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION STATE OF FLORIDA

## BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

# UNTERWEGER, MARCUS OTMAR

5201 NE 15TH AVENUE FT. LAUDERDALE FL 33334

**LICENSE NUMBER: PE63860** 

**EXPIRATION DATE: FEBRUARY 28, 2021** 

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.



Halsey Beshears, Secretary

## DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION STATE OF FLORIDA

## BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

## MADRIZ, RICARDO ADOLFO

525 SW 18TH AVE UNIT #22 FORT LAUDERDALE FL 33312

**LICENSE NUMBER: PE68444** 

**EXPIRATION DATE: FEBRUARY 28, 2021** 

Always verify licenses online at MyFloridaLicense.com





### 2020\_FLORIDA PROFIT CORPORATION ANNUAL REPORT

DOCUMENT# P10000100735

Entity Name: MUENGINEERS INC.

**Current Principal Place of Business:** 

3440 NE 12TH AVENUE OAKLAND PARK, FL 33334

**Current Mailing Address:** 

3440 NE 12TH AVENUE OAKLAND PARK, FL 33334 US

FEI Number: 90-0640871 Certificate of Status Desired: No.

Name and Address of Current Registered Agent:

UNTERWEGER, MARCUS 3440 NE 12TH AVENUE OAKLAND PARK, FL 33334 US

The above named entity submits this statement for the purpose of changing its registered office or registered agent, or both, in the State of Florida.

SIGNATURE:

Date Electronic Signature of Registered Agent

Officer/Director Detail:

Title PRESIDENT Title CEO

UNTERWEGER, MARCUS Name Name UNTERWEGER, MARCUS Address 3440 NE 12TH AVENUE Address 3440 NE 12TH AVENUE

City-State-Zip: OAKLAND PARK FL 33334 City-State-Zip: OAKLAND PARK FL 33334

I hereby certify that the information indicated on this report or supplemental report is true and accurate and that my electronic signature shall have the same legal effect as if made under oath; that I am an officer or director of the corporation or the receiver or trustee empowered to execute this report as required by Chapter 607, Florida Statutes, and that my name appears above, or on an attachment with all other like empowered.

PRESIDENT

SIGNATURE: MARCUS UNTERWEGER

**FILED** Jan 02, 2020

**Secretary of State** 

2116246257CC



## This Certificate is Awarded to:

MUENGINEERS, INC.

forth in the Broward County Business Opportunity Act of 2012, the certification requirements have been met for:

Anniversary Date: September 28th County Business Enterprise (CBE)

Authorized Representative

The Office of Economic and Small Business Development must be notified within 30 days of any material changes in the business which may affect ownership and control. Failure to do so may result in the revocation of this certificate and/or imposition of other sanctions.

A Service of the Broward County Board of County Commissioners

Client#: 1054978

MUENGINC

### ACORD™ CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 6/22/2020

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 any rights to the certificate holder in lieu of such endorsement(s).

this certificate does not conf	er any rights to the certificate holder in		
PRODUCER		CONTACT NAME:	
USI Insurance Services, LL	C	PHONE (A/C, No, Ext): 813 321-7500 FAX (A/C, 1	No): 813 321-7525
2502 N Rocky Point Drive		E-MAIL ADDRESS:	
Suite 400		INSURER(\$) AFFORDING COVERAGE	NAIC#
Tampa, FL 33607		INSURER A : Phoenix Insurance Company	25623
INSURED		INSURER B : Travelers Indemnity Company	25658
MUEngineers, Inc		INSURER C : Hartford Casualty Insurance Company	29424
3440 NE 12th Ave		INSURER D : Argonaut Insurance Company	19801
Oakland Park, FL	33334	INSURER E :	
	<u> </u>	INSURER F:	
COVERAGES	CERTIFICATE NUMBER:	REVISION NUMBER:	

IN C	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		ADDL INSR	SUBR	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP	LIMITS	s				
Α	X COMMERCIAL GENERAL LIABILITY	Х	Х	6609B393775	06/19/2020	06/19/2021	EACH OCCURRENCE	s 1,000,000				
	CLAIMS-MADE X OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	s1,000,000				
							MED EXP (Any one person)	s 10,000				
							PERSONAL & ADV INJURY	s 1,000,000				
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	s 2,000,000				
	POLICY X PRO-						PRODUCTS - COMP/OP AGG	s 2,000,000				
	OTHER:							\$				
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	\$				
1	ANY AUTO				1		80DILY INJURY (Per person)	\$				
	OWNED SCHEDULED AUTOS ONLY AUTOS						BODILY INJURY (Per accident)	\$				
	HIRED NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	\$				
								\$				
В	X UMBRELLA LIAB X OCCUR	Х	Х	CUP0L527681	06/19/2020	06/19/2021	EACH OCCURRENCE	s1,000,000				
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	s1,000,000				
	DED X RETENTION \$10000							\$				
С	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY		X	21WECAR3759	05/05/2020	05/05/2021	X PER OTH-					
	ANY PROPRIETOR/PARTNER/EXECUTIVE	N/A					E.L. EACH ACCIDENT	\$1,000,000				
	(Mandatory In NH)	117.2		ı		l ,	E.L. DISEASE - EA EMPLOYEE	s1,000,000				
	If yes, describe under DESCRIPTION OF OPERATIONS below				ļ. <u>.</u> .		E.L. DISEASE - POLICY LIMIT	s1,000,000				
D	Professional			121AE000213101	10/15/2019	10/15/2020	\$2,000,000 per claim	1				
	Liability						\$2,000,000 annl agg	r.				
		ļ										
	cription of operations / locations / vehic ifessional Liability coverage is wr				y be attached if mo	ore space is requ	ired)					

CERTIFICATE HOLDER	CANCELLATION
For proposal purposes	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
	die n Was De

Ron DeSantis, Governor

Halsey Beshears, Secretary



### STATE OF FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

### CONSTRUCTION INDUSTRY LICENSING BOARD

THE UNDERGROUND UTILITY & EXCAVATION CO HEREIN IS CERTIFIED UNDER THE PROVISIONS OF CHAPTER 489, FLORIDA STATUTES

### ZEBARTH, STAFFIN COLBY

SHENANDOAH GENERAL CONSTRUCTION, LLC 1888 NW 22 ST POMPANO BEACH FL 33069

LICENSE NUMBER: CUC1223821

**EXPIRATION DATE: AUGUST 31, 2022** 

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.



### CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 1/31/2020

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).

this certificate does not confer	rights to the certificate holder in lieu of si	uch endorsement(s).		
PRODUCER		CONTACT NAME:		
Baldwin Krystyn Sherman 4010 W Boy Scout Blvd		PHONE (A/C, No, Ext): 813-984-3200	FAX (A/C, No): 813-984	-3201
Suite 200		E-MAIL ADDRESS: certificates@bks-partners.co	om	
Tampa FL 33607		INSURER(S) AFFORDING	COVERAGE	NAIC#
		INSURER A : Zurich American Insurance	Company	16535
INSURED COMMITTEE COMMITTE	1SHENCON	INSURER B : American Guarantee & Lial	bility Ins. Co.	26247
Shenandoah General Construct Shenandoah General Construction		INSURER c : Evanston Insurance Compa	any	35378
1888 NW 22nd St	SHOT EEG	INSURER D :		
Pompano Beach FL 33069		INSURER E :		
		INSURER F:		
COVERAGES	<b>CERTIFICATE NUMBER: 1662976058</b>	REVI	ISION NUMBER:	
	POLICIES OF INSURANCE LISTED BELOW HA S ANY REQUIREMENT, TERM OR CONDITION			

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. ADDL SUBR POLICY EFF MM/DD/YYYY) POLICY EXP TYPE OF INSURANCE POLICY NUMBER LIMITS INSD WVD COMMERCIAL GENERAL LIABILITY 1/31/2020 1/31/2021 GLO670580701 EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED CLAIMS-MADE X OCCUR PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) 2,000 \$10,000 PERSONAL & ADV INJURY \$2,000,000 GEN'L AGGREGATE LIMIT APPLIES PER GENERAL AGGREGATE \$4,000,000 X LOC POLICY X PRO-PRODUCTS - COMP/OP AGG \$4,000,000 OTHER: COMBINED SINGLE LIMIT (Ea accident) **AUTOMOBILE LIABILITY** BAP670580901 1/31/2020 1/31/2021 \$ 1,000,000 ANY AUTO BODILY INJURY (Per person) \$ SCHEDULED AUTOS NON-OWNED AUTOS ONLY OWNED BODILY INJURY (Per accident) \$ AUTOS ONLY HIRED AUTOS ONLY PROPERTY DAMAGE (Per accident) S X UMBRELLA LIAB AUC008607105 1/31/2020 1/31/2021 EACH OCCURRENCE \$ 5,000,000 **OCCUR EXCESS LIAB** CLAIMS-MADE AGGREGATE \$5,000,000 RETENTION \$ DED WORKERS COMPENSATION WC670580801 1/31/2020 1/31/2021 X PER STATUTE AND EMPLOYERS' LIABILITY ANYPROPRIETOR/PARTNER/EXECUTIVE E.L. EACH ACCIDENT \$1,000,000 OFFICER/MEMBER EXCLUDED? (Mandatory in NH) N/A E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 f yes, describe under DESCRIPTION OF OPERATIONS below E.L. DISEASE - POLICY LIMIT \$ 1,000,000 Each Incident Aggregate Pollution Liability MKLV1ENV102268 1/31/2020 1/31/2021 1,000,000 Occurrence SIR 5,000 2.000.000 DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER	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



### SECTION 16 APPENDIX – CITY OF POMPANO BEACH: SW 2<sup>ND</sup> STREET DRAINAGE IMPROVEMENTS FINAL DESIGN PLANS



VICINITY MAP SCALE: N.T.S.

Know where Delow. Cell before yourly.

### SW 2ND STREET

## DRAINAGE IMPROVEMENTS

LOCATION MAP

FILE NAME: 00-1976-G-00-COVR.dwg



BEVERLY PERKINS GREG HARRISON RHONDA EATON ANDREA MCGEE TOM MCMAHON BARRY MOSS REX HARDIN BOARD OF CITY COMMISSIONERS COMMISSIONER - DISTRICT 1 COMMISSIONER - DISTRICT 2 COMMISSIONER - DISTRICT 3 COMMISSIONER - DISTRICT 4 VICE MAYOR - DISTRICT 5 CITY MANAGER





OF BEACH CAS PROJECT No. 18-1976 PREPARED FOR: CITY O POMPANO

ALL PLAN ELEVATIONS ARE REFERENCED IN NAVD '88 (NGVD '29 = NAVD '88 + 1.58')

BID SET



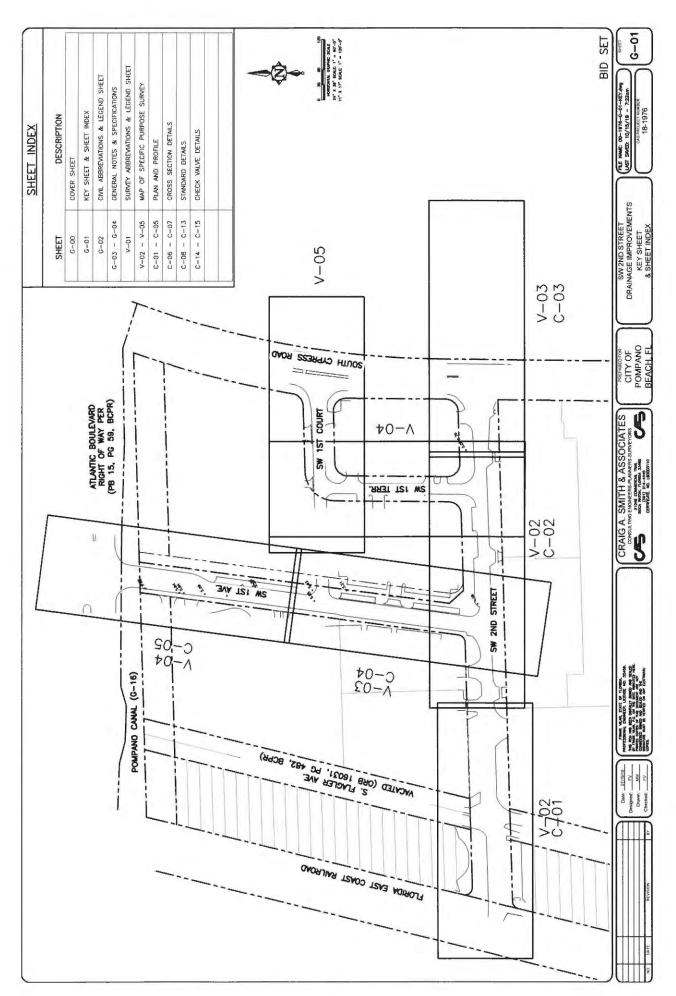


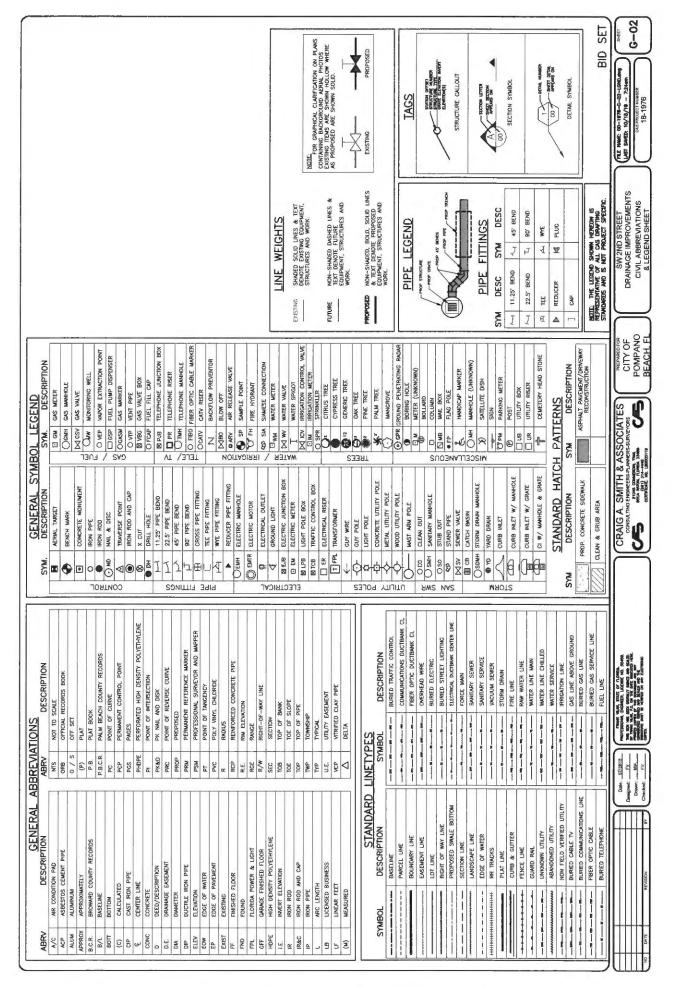


### ENGINEERS—PLANNERS—SURVEYORS CRAIG A. SMITH & ASSOCIATES 21045 COMMERCIAL TRAIL - BOCA RATON, FLORIDA 33486 CONSULTING

(561) 314-445 WWW.CRAIGASMITH.COM CERTIFICATE OF AUTHORIZATION NUMBER: LB0003110







REQUIATORS. 8-4.1. ALL SUBGRADE, LIMEROCK ARD ASPHALT TESTS RETURED SHALL BE TAKEN AT THE DREETHON OF THE ENGINETR AND/OR THE OWNER/AUXIOPPL. AUTHORITY.	8.5. PAYDES 8.5.1	7 6 SW	9.1. ALL PAREMENT MARKINES WITHIN PUBLIC ROFF-OT-WAYS SHALL BE REFLECTORIZED THERMOPLASTIC.		8.3.		<b>9</b> .6	9.5	9.6	8.7. ALL SIZH PAZDERT TO DE GATSOT OF MAN, CLEAR TONE REQUIRIDATING (FLOREM GROEN BOOK, LATEST EDITION).	940 94.B	di O	9,10,		9.12.		\$	101	HANDLONG OF MARCHAN 10 AND 10		101				01 4350 10 10 10 10 10 10 10 10 10 10 10 10 10 1	TRENGTH *** SHARETER OF P.	<b>АПОН</b>	unittes. 10.4.	***		ATEST 11. LE	r v	7:11	5.5		-	12.	12.	2 ds	PENENDARY OH-	WANTFORMERS - WO - ) - PERIODENIA - PERIODENIA - PERIODENIA - PERIODENIA - PERIODE - PERIODE - PERIODE - 111 - PERIODE - 112 -	777		CHERT AND AND AND AND AND AND AND AND AND AND	12.3	BO SPECS. (INCLUDES 12.4. DESIGN-REQUIRES-1) MANIFOLE LET HOLED AND GRADE-ADASTACHER PARS DE SEALER WITH MOIL-SERWIN-MORTAN-GR		FDOT F ASPHALT	PLODES BY 12.5. WANDLE IN	OF THE MAKINGM PESSTARS, IF SPESSTARS G9244;	12.5. SURVICE COUPLANCE APPROATE OF THE EMORETH AND COUPLING HITH ADM SPECKNOSTONS ARE REQUIRED FOR LANGUAGE.		BID SET	OREPURED FOR SW2ND STREET (TALE NAME: 00-1974-0-03-HOTE-0-4)	MENTS
5.1.4. CONTRACTOR SYALL DISPOSE OF ALL STE DELIGITION IN ACCREGANCE WITH STATE AND LOCAL 5.2. PROJECT RECORD DOCUMENTS	6.2.1. THE CONTRACTOR SHULL MAINTAN ACCURATE AND COMPLETE RECORDS OF WORK ITEMS COMPLETED. 6.2.2. PROPR TO THE PLACEMENT OF NYY ASPAILT OR COMPLETE PAREMENT, THE CONTRACTOR SHALL SUBBRIT TO THE	ENCINCES "AS-BUILT PLANS SHOPING UNIFFICE BASE GRADES, AND ALL DRAININGE, WATER, AN IMPROVEMENTE UNTIL THE ENGINEER AND THE AP	REMEMBER THE "MS_BUILTS".  A.2.1. ALL PETRINGED DEMOTE AND LIGHT TEST PROLITY FOR SEPERATE SALE HE PROMISED TO THE PARAMETER AND THE	OWNER/AUMISPAL AUTHORITY PRICK TO	6.2.4. ALL REQUINCED DENSITY AND LIBRITEST RESULTS FOR LALERCOOK SHALL BC PROVIDED TO THE EL	6.2.5. AL. "AS-BUIL" HEDRINATION SUBMITTED TO THE ENCHMERS SHALL BE SUFFICIENTLY ACCURATE, DLEAR AND LEGIBLE	TO THE SATISFACTION OF THE EMBINERS THAT THE INFORMATION PROVIDES A TRUE REPRESENTA IMPROVEMENTS CONSTRUCTED.	8.2.6. LAKE AS-DULED WILL DE CROSS SEDTONED SHOWNS THE OKSIONED SECTION AS ONSHED TO DULE SECTION AS	CONST. AND THE CO. SHOPL AS TO PROVIDE BROADLE DAYS TO SECTIONAL IN THE LANG. WAS DESCRIBED AS CONTROLLED AS CONTR	8	BLACK DEVIN COMPLETE AT OF TAS-BUILT CONSTRUCTION THE CONTINUENCY SHALL SUBBILL IN THE ENGINEEN OF RECOMD TWO COMPLETE ATT OF TAS-BUILT CONSTRUCTION PRANCHOSS. THESE DRAWINGS SHALL BE MARKED TO SHOW TRECOMD	DRAWFING OR "AS-BULL" CONSTRUCTION CHANGES AND DIABNISIONED LOCATIONS AND ELEVATION	IMPROYEMENTS AND SWALL BE SCHED AND SEALED BY A RELESTIFIED LAND SURVEYOR OR ENGINEER FRAM, AS-BULL HEORAGIDAN SWALL BE SUBMITTED ON AN AUTOCAD & POF INDIAMATAS DIRECTED BY THE ENGINEER.	TORM DRAINS	7.1. CONTRACTOR MAY UTLIZE ONE OF THE FOLLOWING MATERNAIS (AS DRECTED AND AFFROMED BY THE CHMPER/MANUSPAL AUTHORITY) ON A SIZE FOR SIZE BASIS:	m ( har)		7.1.1.2. PIPE SHALL DE SPIRAL RIB DRAMACE PIPE WITH 3/4" X 3/4" RIBS, APPROXIMATELY	CALLES PIPE COLPUNG BANDS STALL BE 12" MIDE STANDARD SPLIT BANDS OF THE SAME ALLOY AS THE PIPE.	AND MAY BE DINE GAUGE CLORITRY THAN THE PIPE.	ŧ	2.1.1.5. CONTECH (ATRA-FLD	7,1,2,1	CONCRETE PIPE SHALL BE CLASS III. WATER TIGHT AND CONTORN TO THE STANDARD SPECIFICATIONS 77.12.2. JOHNS IN REP SHALL BURNON OF BLAKET THE GASKETS AS SPECIFIED IN SECTION 942-1. OF FLORIGA	7.1.2.5 PYECKSI COMCRETE MANHOLLS AND CARDY BISSNS SPALL MEET THE REQUIREMENTS SPECIFICATION C=478 AND 847.	7.1.2.4 CONCRETE FOR PRECUST MARROLES AND CATCH BASINS SHALL HAVE A MAINIUM COMPRESSIVE STRENGTH THE AIMED FOLKE 2A DAYS	7.1.2.3. RONFORCING STITE, FOR MARHOLES AND CATCH BASANS SHALL CONFORM TO AST.IM	ø	2.1.2.7, ALL JOHN'S IN CONCRETE SPRUCTURES SHALL BE PRISHED WATERFIGHT, 2.1.2.8. ALL SPACES AROUND PRINKE ENTERING OR LEAVING MANHOLES AND CATCH BASINS :	-	7.1.2.2. CONCRETE PRE FOR STORM SERVERS ON DOT TRUCKED SERVE CONFORM TO 1101 TOURS.  7.1.2.2. CONCRETE PRE FOR STORM SERVERS ON DOT TRUCKED SERVE CONFORM TO SERVE TOWN TO 1101 TOURS.  PROMETER AND THE SERVE THE TRUCKED SERVED SERVED SERVED SERVED SERVED TO 1101 TOURS.  PROMETER SERVED SER		7.1.3. HERH ODISSTY POLYETHUTHE PIPE (HIDPE) 7.1.3.1. HIGH DENSITY POLYETHYDRE PIPE FOR STORM SCHERS SHALL CONFORM TO FDOT 848-2.	7.1.4. POLYMINI - CHLORIDE PIPE (PIC)		7.2. BEDONG AND NITM, BACKFILL OVER DRAWAGE PIPE SHALL BE SAND WITH HO KNOCK LANGER THAN 3/4" & 2" DAMETER, RESPECTIVELY	<ol> <li>BACKFUL MATERIAL UNDER PAYED AREAS SHALL BE COMPACTED TO 96% OF THE MAXIMUM DENSITY AS AACHTO 1-180.</li> </ol>	7.4. BACKULL MATERAL UNDER AREAS NOT TO BE PARED SHALL BE COMPACED TO BSK OF THE MAXIMUM DENSITY AS DETERMENT BY AREASTO 1.4 NO (MOLINES SHALL MERKS).	этом молитом ва	ACHIE MONE	B.1. GENERAL A.1.1. ALL UMBERSROUND UTLITIES SHALL BE COMPLETED PRICH TO THE CONSTRUCTION OF THE LIMERROCK BASE AND	PRODER TO THE PLACEMENT OF THE PAYBLENT. A 1.2 ALL STREET ADMINE PAYBLENT BAIN SHALL BE 15 TITEL MANIFES OTHERWISE MOTETH ON THE P	A.1.2. TWO ROWS OF BANK SCIO SMALL BE UND ALDRE CARB WITHIN TWO WERKS OR AS DIRECTED BY	A.2. IMPTRIALS	$\begin{pmatrix} 6.2.1. \text{ Linerock Base Mayeral Symle Have a minimum of 70% carbonates (calcium and magnesium) with a minimum \begin{pmatrix} 3 \\ 1 \end{pmatrix} ler of 100 family—gade columny foot approace garbert.$	8.2.2. SUBGRADE WATERIAL SPALL HAVE A WINNERS LES OF 40 AND INSTITUTED AT 95% AASHTO T-180 SPECS. (INCLUDES	2 6	6.2.4. SUBFACE COURSE SYALL BE EQUAL TO PDOT THE SP9.5 ASPHUND CONCRETE COMPACTOR TO SUBAIT TOOT APPROVED ASPHUNT MAY SAXDE DIAMMAN FOR DIAMINEDS REVIEW AMPROVIAL PRICE TO PLACEURATION AND ASPHUNT.	FIRST SEA SEAST CONTROL OF EMBRISHENCE OF SERVICE PROTESS. FROM TO EMBRISH.	B.3.1. LINENCOCK BASE MATERIAL SYALL BE OF THOK ON AS SHOWN AND SWALL BE COMPANIED TO BE DESCRIBED BY ASSETT THE BEOFF.	6.3.3. LIMINITIA BASE WATERING, SMILL BY AS INDICATED ON PLANS, AND PLACED IN THO (2) LITTS 8.3.3. ASSMATTC CONFRETE SMILL BY AS INDICATED ON PLANS, AND PLACED IN THO (2) LITTS		R.4. TESTING	CRAIG A SMITH & ASSOCIATES	CONSULTING ENGAREERS-PLANNERS-SURVEYORS
	THE LOCATEM AND SIZE OF ALL EXISTING UTLITIES AND TOPOCONOMY HAVE BEEN PREPARED FROM INFORMATION AMILIBLE TO THE EVICE LOCATION OF ENGINEERING TO DETERMINE THE EXACT LOCATION OF	CUTEUTS AND TOPOGRAPHY PROPE TO CONSTRUCTION. THE CONTRACTOR SPALL WERFY ALL UTLITIS, BY ELECTRORIC OF HAVID EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES, PRICE TO RECINIONG ANY CONSTRUCTION	, THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND HO ADDITIONAL. ON SHALL BE ALLOWED	January Looke	SENDON, WARE	all Construction, Laterals and Testing Shall Conform to the Standards and Specifications of Local, County, State and national codes where applicable.	WHEN ANY OF THE GOVERNME RESULTION AGENCIES STANDARDS AND SPECIFICATIONS ARE IN CONFLCT. THE MORE	STRINGENT OF THE TWO SHALL APPRIX.	ALL CONSTRUCTION SHALL BE DONE IN CONTORMANCE WITH THE RULES AND PEGULATIONS OF THE OCCUPATIONAL SAFETY	AND MENTIN AUMINISTRATION (OSMA) AND THE MANUAL OF UNRITHER TRAFFIC CONTROL DEVICES (MUTCO). TRENCH SAFETY ACT	CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH THE STATE FLORIGA TREACH SAFETY ACT	SURVEY DATA ALL ELEMENTORS ON THE PLANS OR RESTENDINGED IN THE SPECIFICATIONS UNITESS (STHERMISS NOTE). ANY BASED ON HORSTH	AMERICAN VERTICAL DATUM OF 1988 (NAVD 88").	SECRETRICIONE RESPONSIBILITES THE COMPACTOR SHALL OSTAIN A SUNSHINE STATE ONE CALL AT 811	CERTIFICATION NUMBER AT LEAST 46 HOURS PRIOR TO BECHNING ANY EXCAVATION.	PRIOR TO BENEVIATE WITHIN THE AREA OF CONSTRUCTION. FORLY FINANCIAL SECT. EXCHERGY, LICKYLING, AND MAINING, OF ALL EXISTING UTILIZES WITHIN THE AREA OF CONSTRUCTION.	. EXISTING UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. THE ENCINEER ASSUMES NO RESPONSEBILITY FOR THE ACCIDENCY OF EXISTING LITHIEF SHOWN OR FIRE ANY EXISTING WITHINFS HOT SHOWN.	THE COMPACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES FOR WHICH HE FALS TO REQUEST	LOCATORIS PROMITHE UTILITY DRIVER. HE IS RESPONSIBLE AS WELL FOR DAMAGE TO ANY EXISTING UTILITIES WHICH ARE PROPERLY LOCATED.	CONTRACTOR SWALL CONTROL THE FEC RALIBOAD PRIOR TO CONSTRUCTION AND LAKE ARRANGOLENTS TO PROCURE THE RESOURCE OF CONTRACTOR AND LAKE ARRANGOLENTS TO PROCURE THE RESOURCE OF CONTRACTOR AND CONTRACTOR PRIOR AND CONTRACTOR AND CONTRAC	CONTRACTOR TO PROVIDE COUNTY PRE-CONSTRUCTOR VICTO PRICE TO COMMETCE WARE ENCARER TO PRIVILE AND	APPRIONE VIDEO DURAND THE SHOP DRAWING PEVICIN PINASE FOR COMPLETENESS.	THE CONTRACTOR SHALL NOTIFY THE OWNER/MANICIPAL AUTHORITY, THE ENGINEER OF RECORD AND THE COUNTY, IF	APPLICABLE. AT LEAST 48 HOURS PRICATIO BEGINNING CONSTRUCTION AND PRICATIO THE INSPECTION OF THE FOLLOWING. TITLES	3.1.2. SANTARY COURT N/A			3.1.6 ASPALTO CONCRETE 3.1.2 FIRST INSECTION	SHOP DRAWINGS	FROW TO THEN CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS AND/OR APPROVED LIATEMALS/PROUCTS LISTS SHALL BE. SUBMITTED TO AND REVIEWED BY THE CHRIER/NAMICIPAL AUTHORITY AND ENGINEER OF RECORD FOR SAMINAY MANHOLES.	CATCH BASINS, PIRE HTDBANTS, VALVES AND OTHER MEDIANICA/CLICITRICAL EQUINADAT WITH ASSOCIATED STRUCTURES. HICHERING ALL DATA, CATALOTHE TOTAL REPORTED FOR MAKER AND STRUCTURES. AND	APUITIBAKES	PRIOR TO SUBMITTING SHOP DRAWINGS TO THE CACINITIES, THE CONTINUED SHALL REVIEW AND APPRIOR THE DRAWINGS. AND SHALL NOTE IN RED. ANY DEVALECING TROM THE EHGINEDIES" PLANS ON SPECIFICATIONS.	HIDMONIA, SACE DANAMES FOR ALL PRECIST STRUCTURES ARE REQUIRED. DATALOGUE LITERATURE WILL NOT BE ACCEPTED THE MOCKAL STRUCTURES HELD NOT BE ACCEPTED.	TEMPORARY FACILITY TEMPORARY FACILITY TO THE		FAZILIES AND ELECTRICITY TO HIS EMPLOYEES AND SUBCONTRACIONS FOR THER USE DURING CONSTRUCTION. TRAFFIC REQUIATION	5.2.1. LIMINEDIANCE OF TRAFTIC IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE INJUDIO. 5.2.2. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADMAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND	BARRICHOED TO ASSURE THE SAFETY OF BOTH VONCULAR AND PEDESTRAN TRAFFIC. 5.2.3. NO TRENCHES OR HOLES NEAR WALKANGS OR IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DARMO.		COUNTY ALTROPHYS. 5.2-4. ALL CONSTRUCTION WITHIN TOOT R,/W AUST CONFORM WITH FDOT SPECIFICATIONS, STANDARDS AND PERHIT	REQUIREMENTS. NO WORK SHALL COMMENCE WITHIN FOOT RAW'S WITHOUT AN FOOT FORM! TRUL LANE WITH PROFILE BARBERS FOR BEDROOFER.		5.2.5. CONTRACTOR SHALL PRETARE AND SUBMIT MANTENANCE OF TRAFFIC PLAN (MOT) WHERE REQUIRED BY FEDERAL. STATE, COUNTY OR LOCAL AGENCIES HAMMO JURISDICTION. CONTRACTOR SHALL OBTAIN ALL PEDUIRED APPROYALS.	AND PERMITS ASSOCIATED WITH THE MOTTS. ALL MOTTS TO BE ATSSA CERTIFIED DRAWNER CLASSIFIER.		MANNERS UPON THAT CITIZEN UP. 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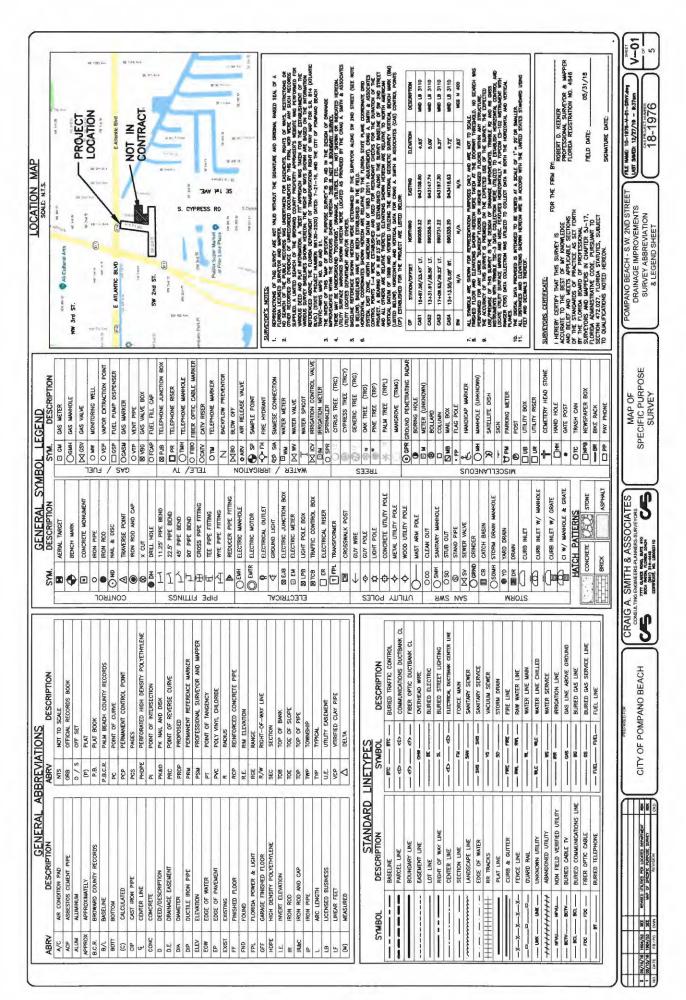
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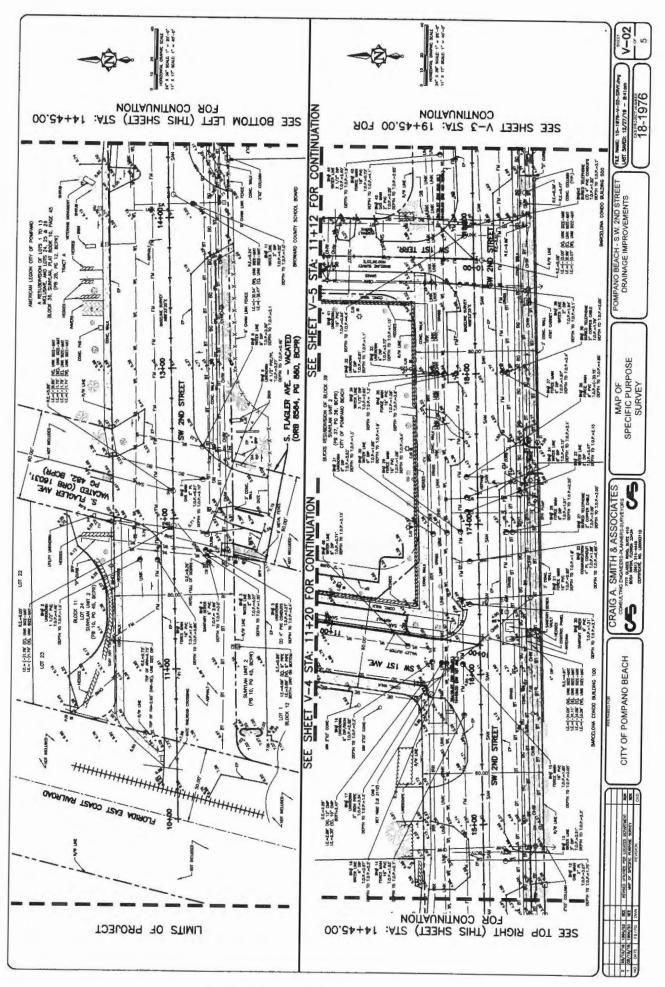
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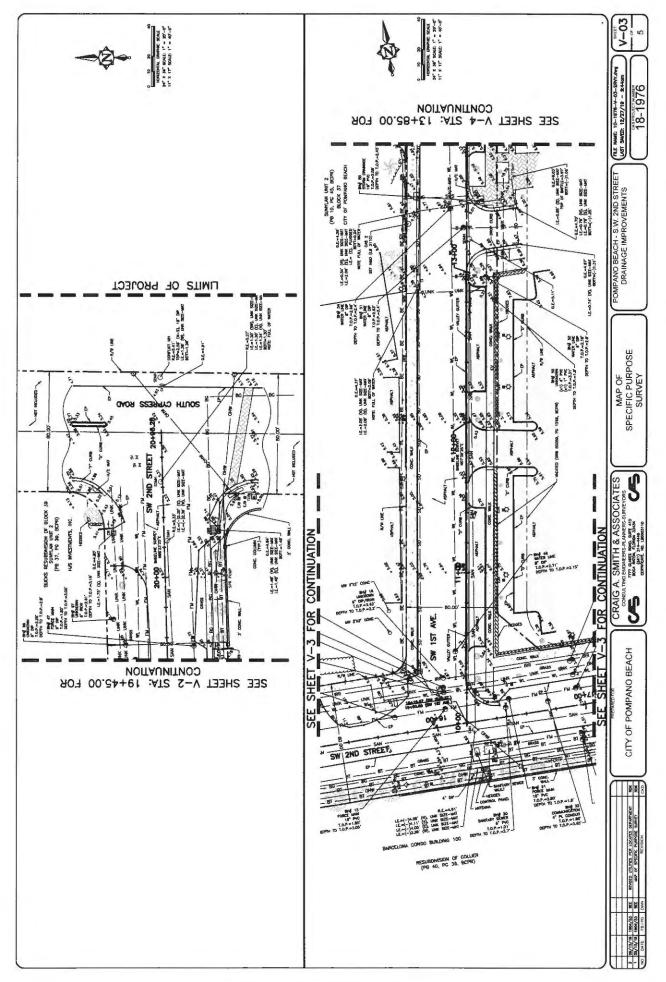
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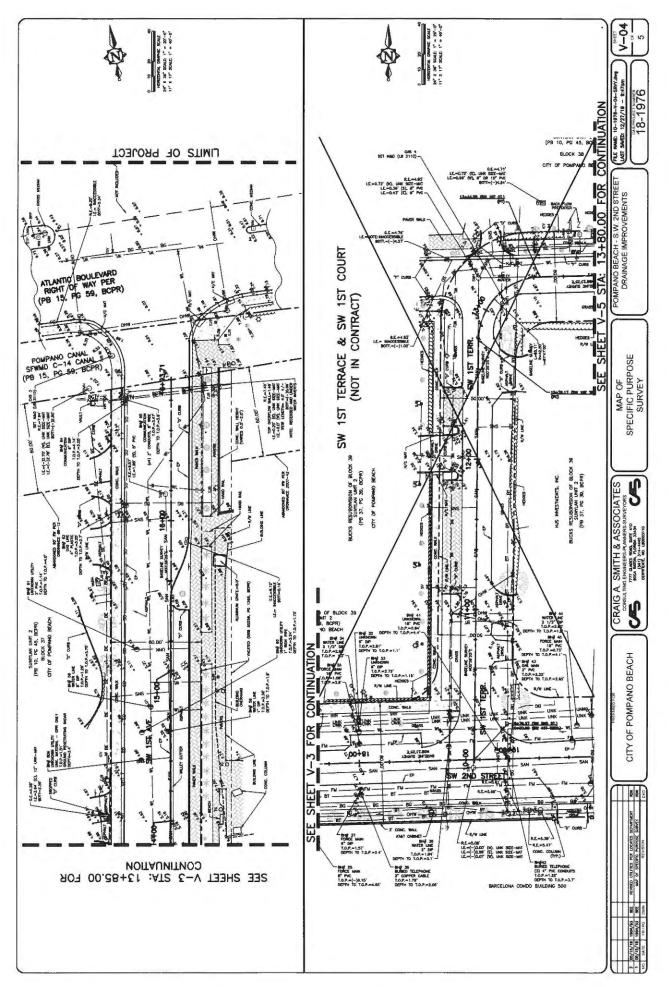
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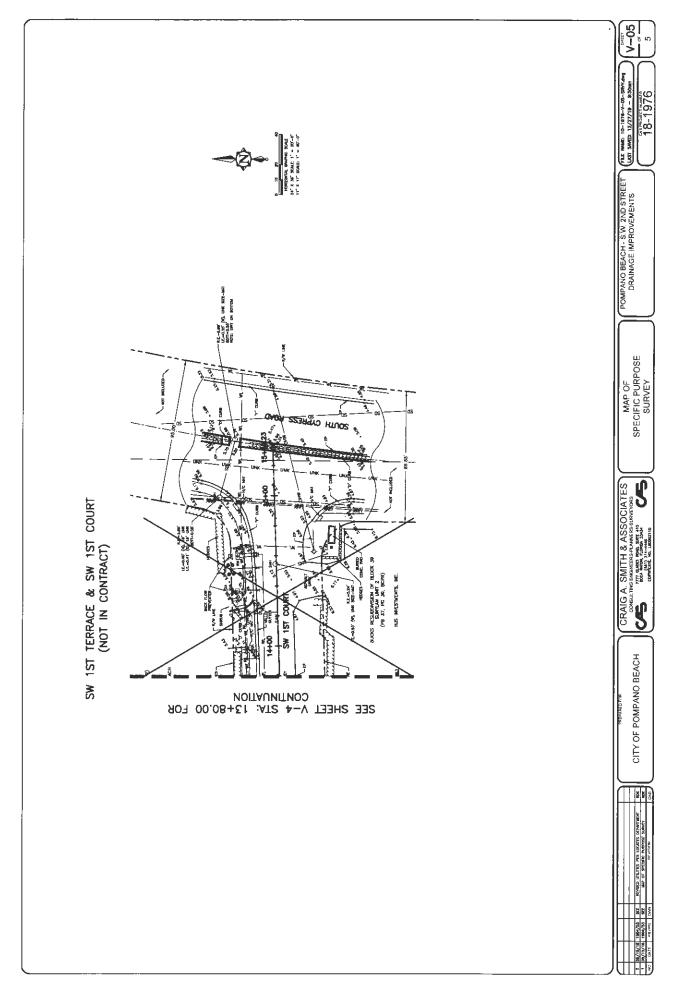
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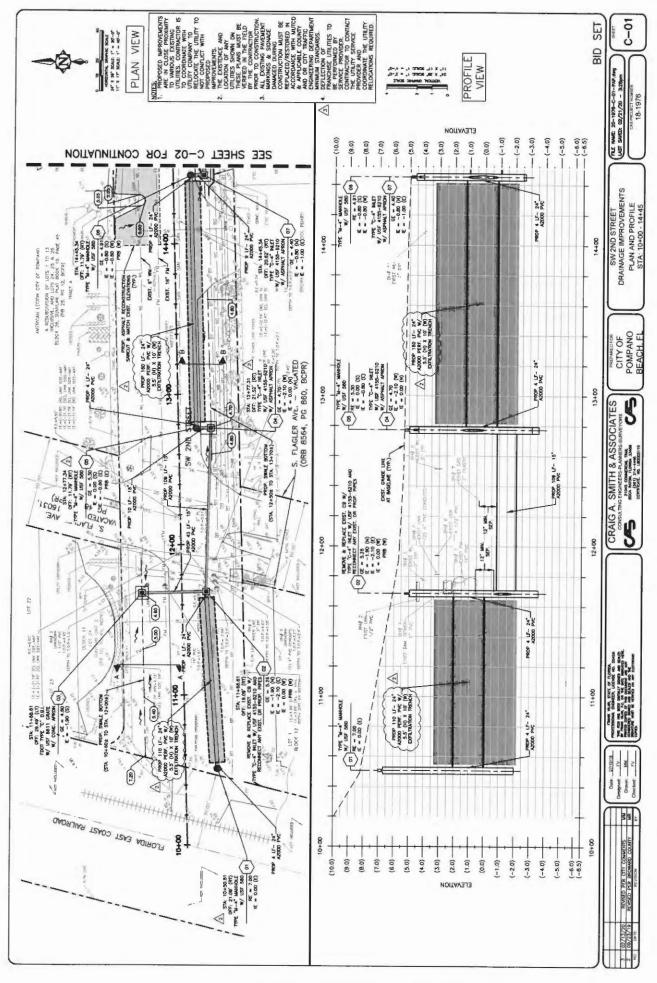


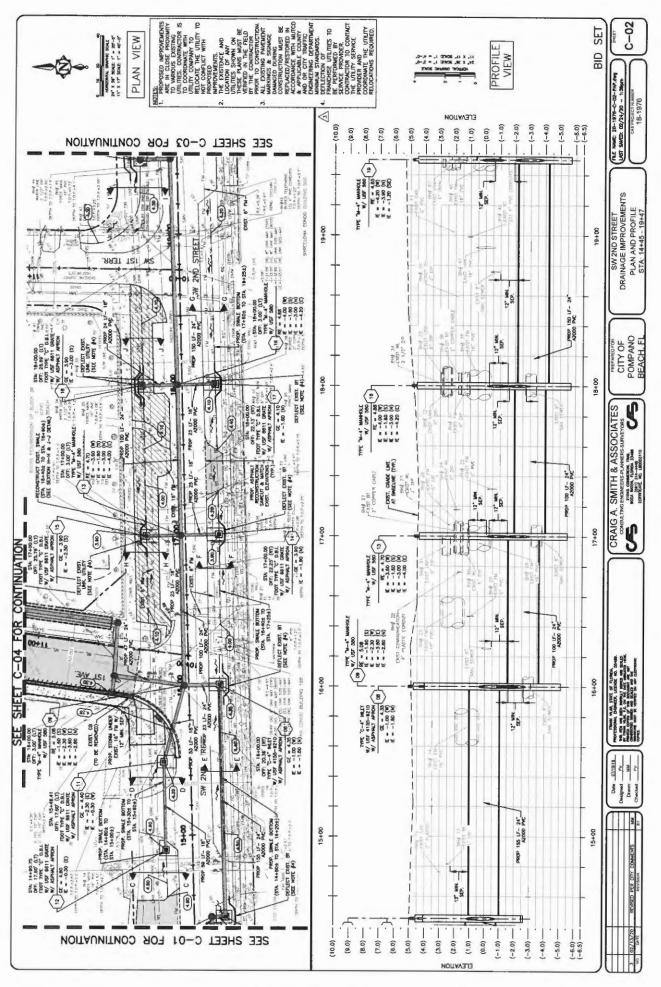


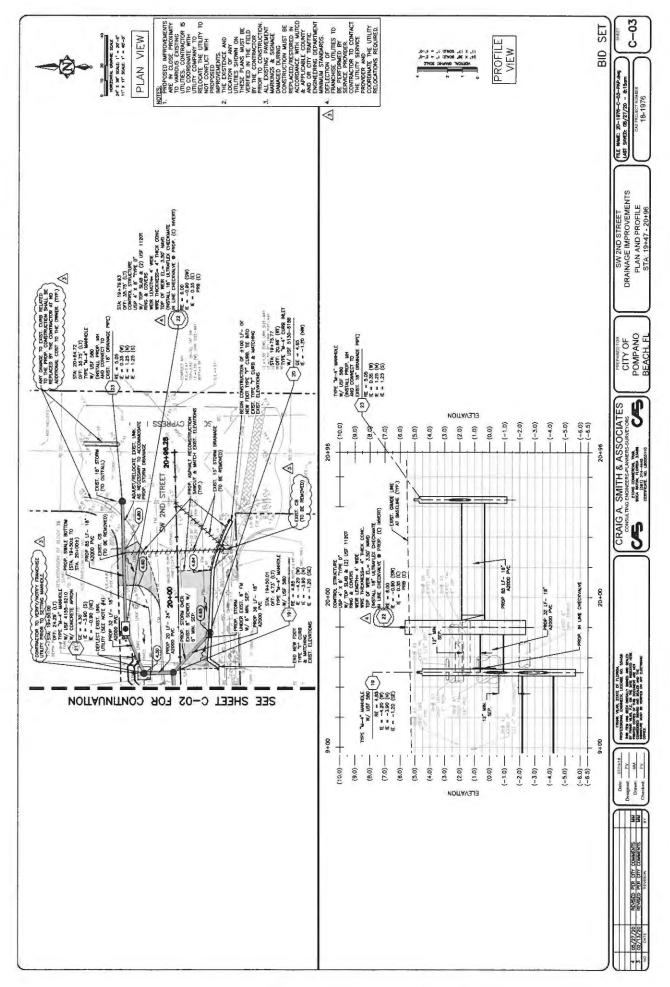


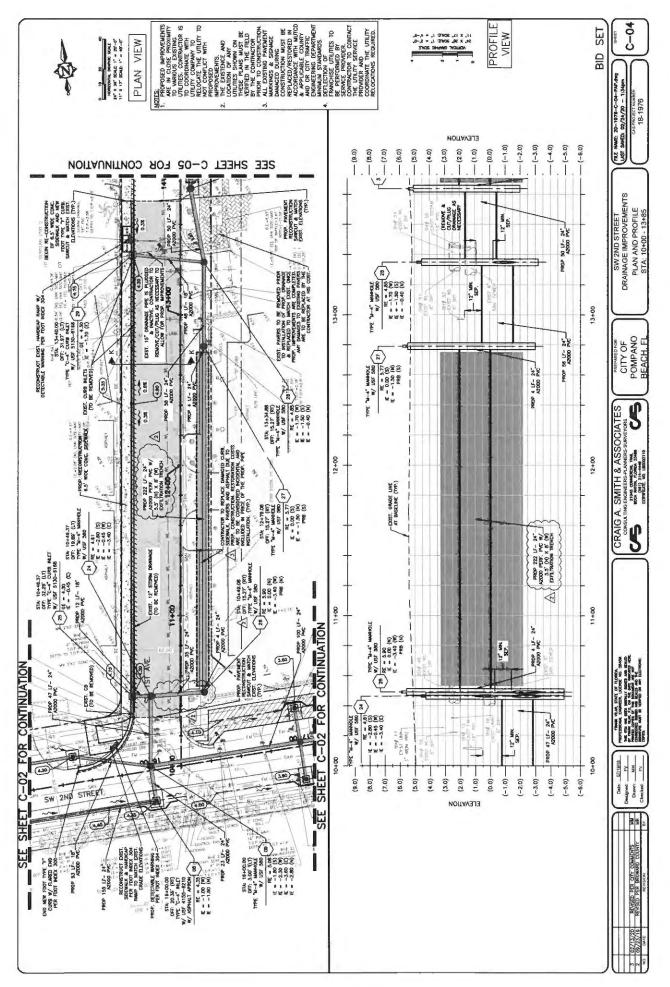


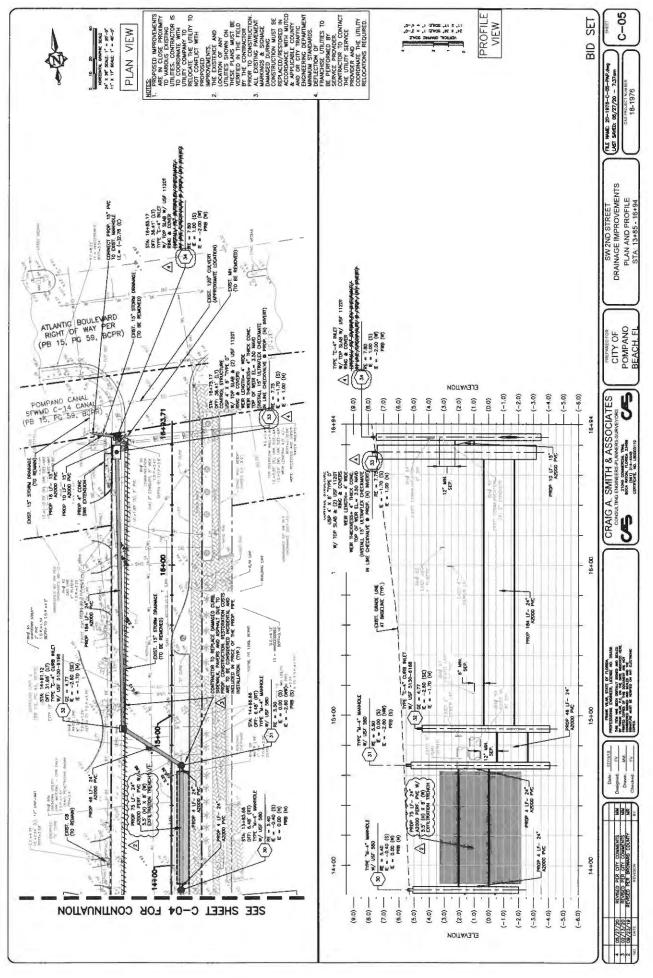


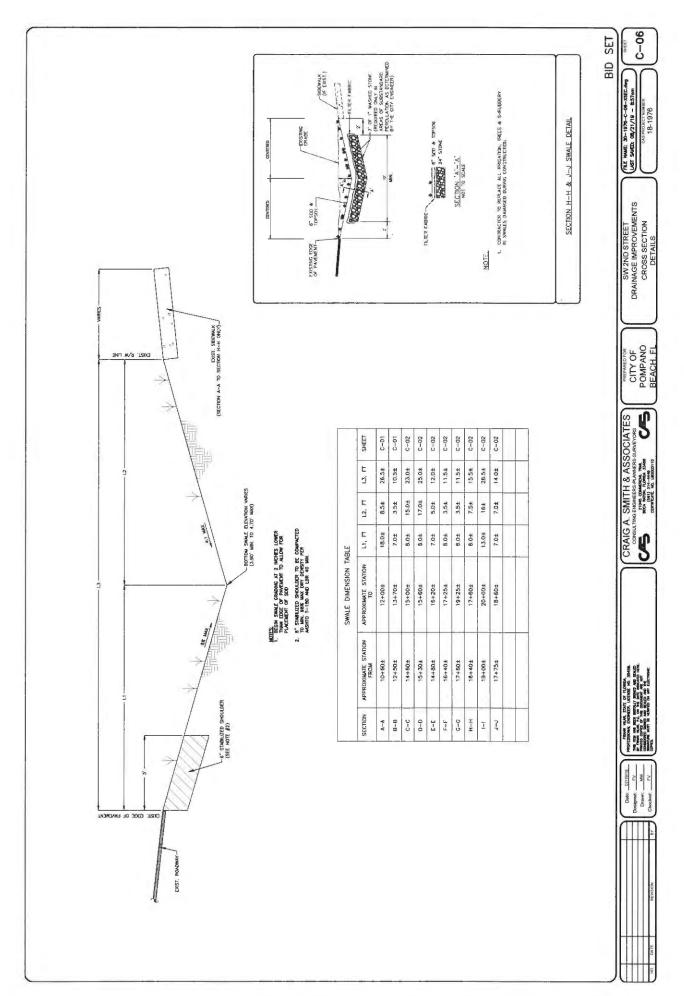


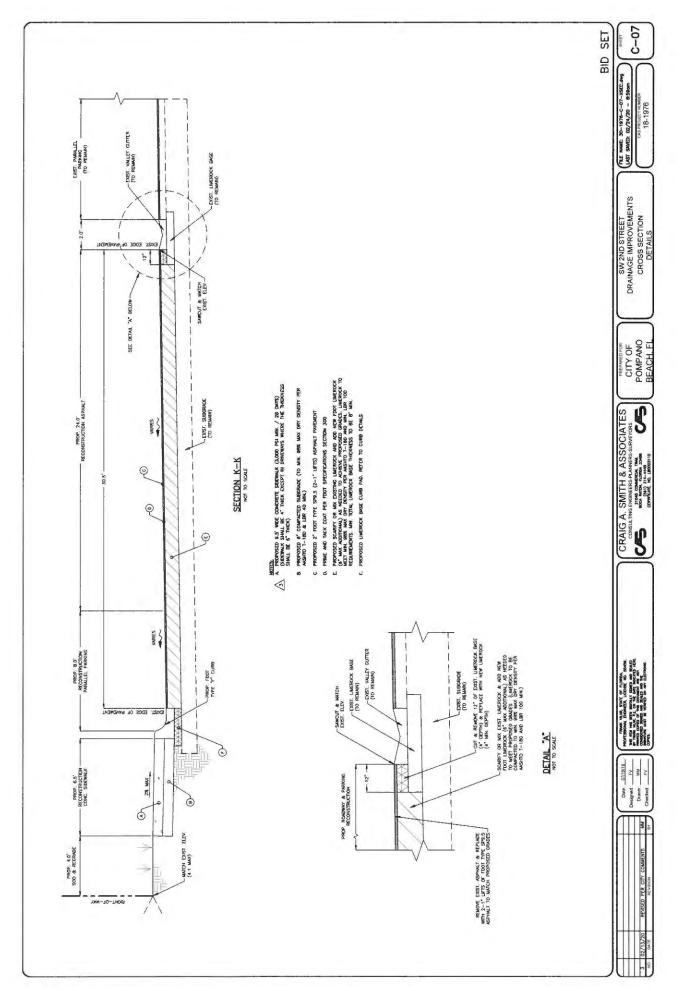


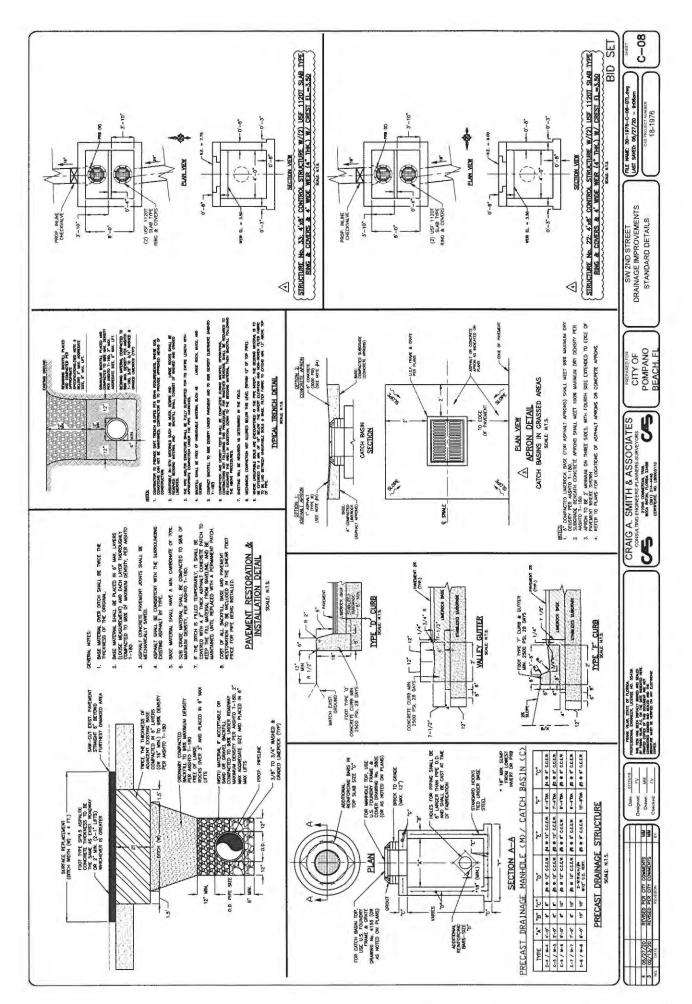


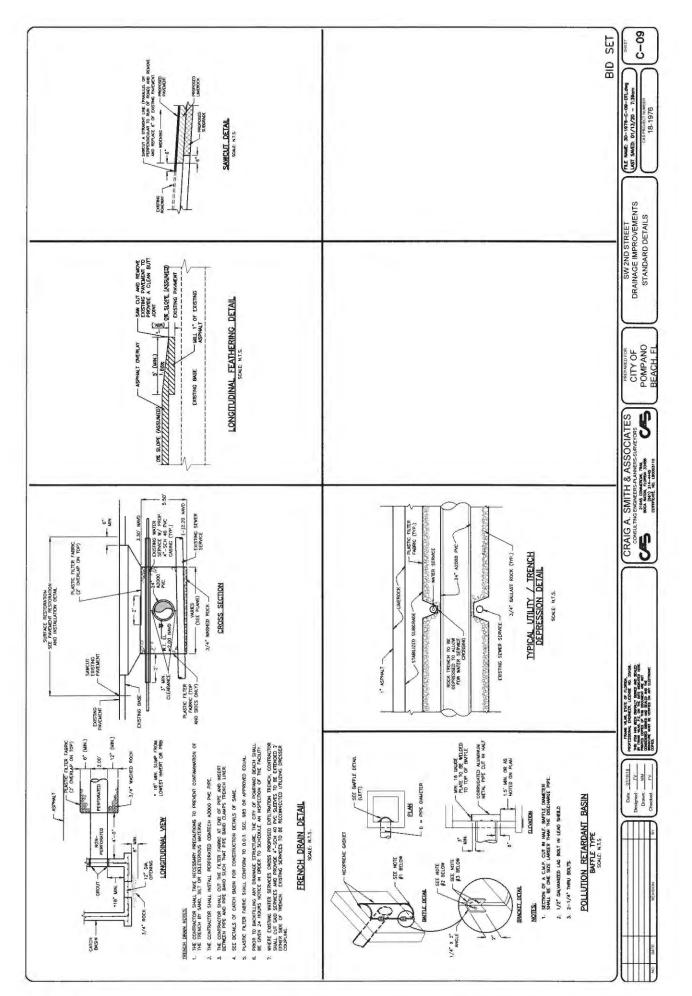


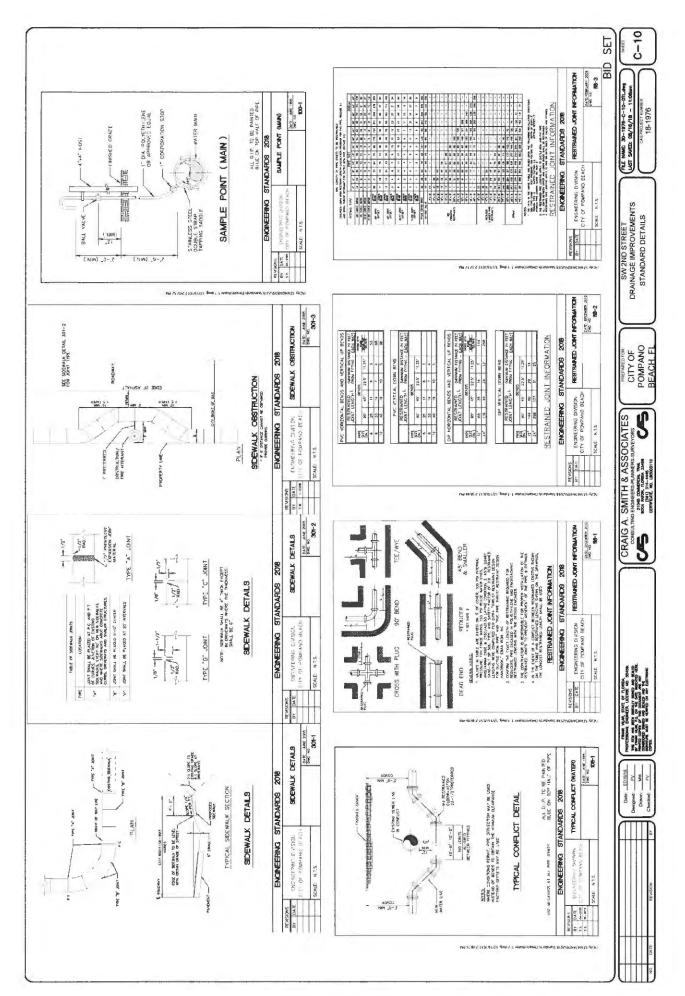


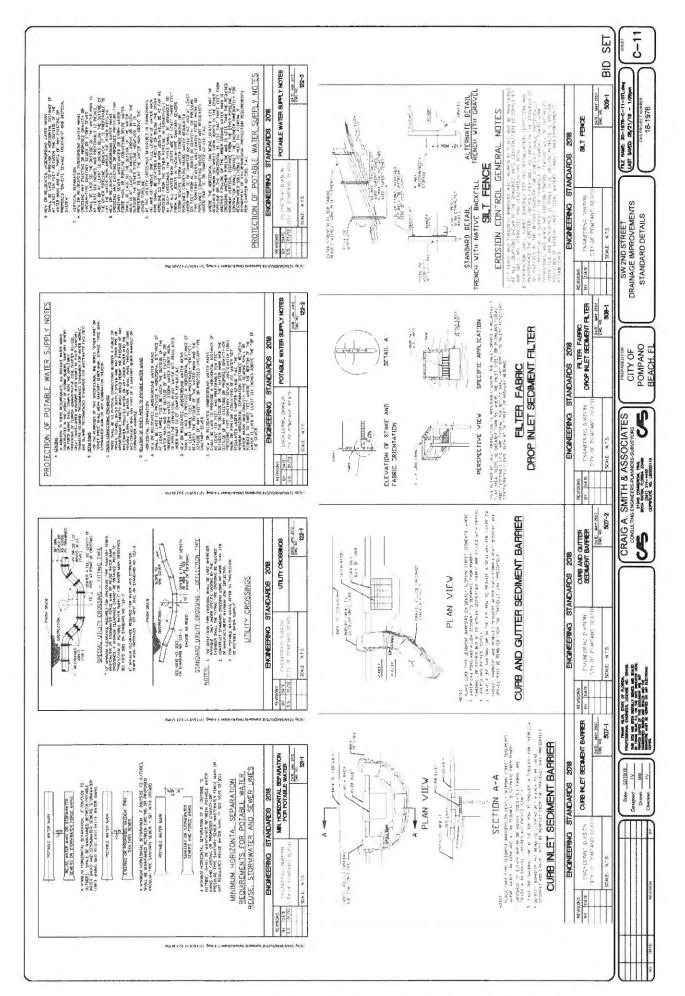




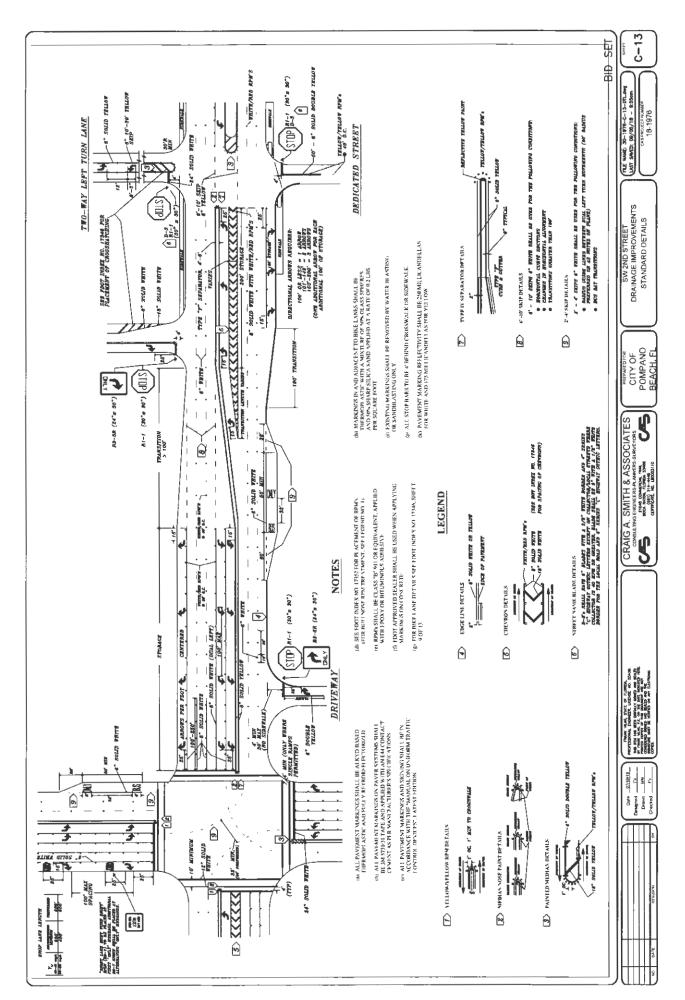


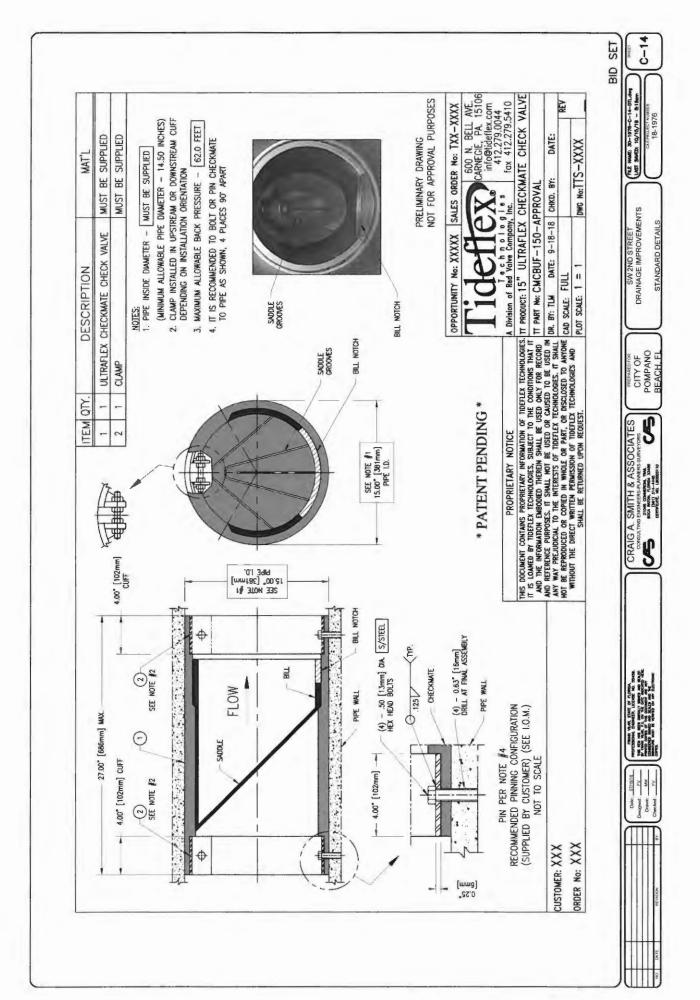


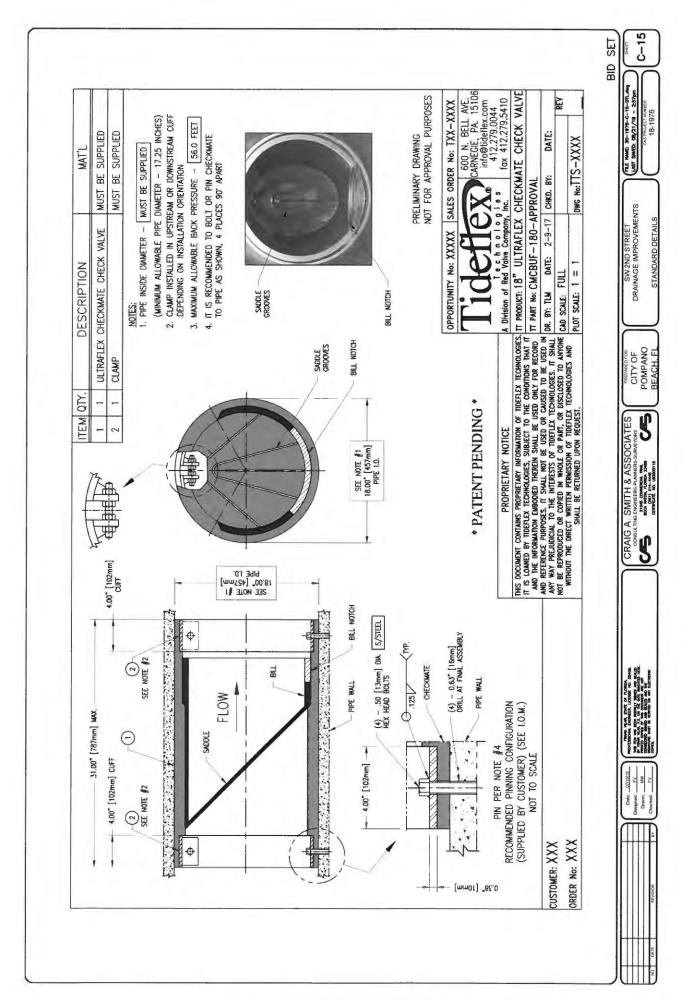




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# CRAIG A. SMITH & ASSOCIATES, INC. 2020 HOURLY RATE SCHEDULE

Principals	\$225.00
Court Testimony	\$250.00
Vice President	\$200.00
Senior Supervising Engineer	\$180.00
Supervising Engineer	\$160.00
Project Manager	\$140.00
Project Engineer	\$120.00
Senior CADD Technician	\$115.00
CADD Technician	\$85.00
Senior Field Representative	\$120.00
Field Representative	\$95.00
Professional Surveyor and Mapper	\$150.00
Survey Coordination Manager	\$115.00
Survey Technician	\$88.00
Clerical	\$65.00
Survey Crew (2-man)	\$155.00
Survey Crew (3-man)	\$195.00
Survey Crew, Lidar	\$375.00
Survey Crew - pile staking	\$225.00
Utility Locate Crew	\$150.00
Soft Dig Crew (per hole)	\$495.00
3D Radar Crew	\$450.00
3D Radar Processor	\$175.00

These rates are in effect for services rendered commencing January 1, 2020 and are subject to change.

## Exhibit B Fee Schedule

# CRAIG A. SMITH & ASSOCIATES, INC. 2020 REIMBURSABLE EXPENSES

•	Computer Usage (CADD)	\$2.50/hour
•	Reproductions	
	Engineering (24 x 36) Engineering Color Standard Copies Standard Color	\$2.50/sht \$3.50/sht \$0.30/sht \$0.40/sht
	Ledger (11 x 17) Ledger Color	\$0.40/sht \$0.55/sht
•	Recording & Permit Fees	Cost + 10%
•	Services of Outside Consultants	Cost + 10%
•	Federal Express or Courier Services	Cost + 10%
•	Commercial Air Travel	Cost + 10%
•	Long Distance Phone	Cost + 10%
•	Auto Travel Expense	\$ 0.56 / mile
•	Meals – Per Diem	\$35.00
•	Lodging	Cost + 10%

These rates are in effect for services rendered commencing January 1, 2020 and are subject to change.

#### **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.

Тур	e of Insurance	Limits of Liability						
GEN	NERAL LIABILITY:		Minimum 1,000,000 Per Occurrence and \$1,000,000 Per Aggregate					
* Po	licy to be written on a claims inc		, . 8					
XX	comprehensive form	bodily injury and pr						
XX —	premises - operations explosion & collapse hazard	bodily injury and pr	bodily injury and property damage					
	underground hazard							
XX	products/completed operations hazard	bodily injury and pr	operty damage co	ombined				
XX	contractual insurance	bodily injury and pr	operty damage co	ombined				
XX	broad form property damage	bodily injury and pr	operty damage co	ombined				
XX	independent contractors	personal injury						
XX	personal injury							
VV			njury (each persoi	e and \$1,000,000 Per n) bodily injury (each njury and property				
	comprehensive form owned							
XX	hired							
	non-owned							
REA	L & PERSONAL PROPERTY	 {						
_	comprehensive form	Agent must show pr	roof they have thi	s coverage.				
EXC	CESS LIABILITY		Per Occurrence	Aggregate				
XX	Umbrella and other than umbrella	bodily injury and property damage combined	\$2,000,000	\$2,000,000				
PRO	FESSIONAL LIABILITY		Per Occurrence	Aggregate				

(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.

\$2,000,000

XX \* Policy to be written on a claims made basis

C. <u>Employer's Liability</u>. 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. <u>Policies</u>: 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. <u>Insurance Cancellation or Modification</u>. 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. <u>Waiver of Subrogation</u>. 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.



DATE (MM/DD/YYYY)

04/23/2020

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	1			CONTACT NAME:	Kim Hefferon		
	Sena & Whitney LL			PHONE (A/C, No, Ext):	561-210-8715	FAX (A/C, No): 561-21	0-8716
	190 Glades Rd Suit			E-MAIL ADDRESS:	khefferon@thesenagroup.com		
	Boca Raton, FL 334	132			INSURER(S) AFFORDING COVERAGE		NAIC#
				INSURER A:	Wilshire Insurance Compa	ny,13234	13234
INSURED				INSURER B:	<b>Burlington Insurance Co.</b>		
	CRAIG A. SMITH &	ASSOCIATES		INSURER C:	<b>Peleus Insurance Compan</b>	y, 34118	
	CRAIG A. SMITH & ASSOCIATES 21045 COMMERCIAL TRAIL			INSURER D :	<b>Evanston Insurance Compar</b>	ny, 35378	35378
	BOCA RATON, FL	33486		INSURER E :			
				INSURER F:			
COVERA	AGES	CERTIFICATE NUMBER:	00018216-2	488228	REVISION N	JMBER: 125	

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. ADDL|SUBR POLICY EFF POLICY EXP

LTR	TYPE OF INSURANCE	INSD W	VD POLICY NUMBER	(MM/DD/YYYY)	(MM/DD/YYYY)	LIMITS		
Α	X COMMERCIAL GENERAL LIABILITY	Υ	LB00018974	12/01/2019	12/01/2020	EACH OCCURRENCE	\$	1,000,000
1	CLAIMS-MADE X OCCUR					DAMAGE TO RENTED PREMISES (Ea occurrence)	\$	100,000
1						MED EXP (Any one person)	\$	5,000
						PERSONAL & ADV INJURY	\$	1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:					GENERAL AGGREGATE	\$	2,000,000
1	POLICY X PRO- JECT LOC					PRODUCTS - COMP/OP AGG	\$	2,000,000
	OTHER:						\$	
	AUTOMOBILE LIABILITY					COMBINED SINGLE LIMIT (Ea accident)	\$	
	ANY AUTO					BODILY INJURY (Per person)	\$	
l	OWNED SCHEDULED AUTOS					BODILY INJURY (Per accident)	\$	
1	HIRED NON-OWNED AUTOS ONLY					PROPERTY DAMAGE (Per accident)	\$	
l							\$	
В	UMBRELLA LIAB X OCCUR		HFF0011160	12/01/2019	12/01/2020	EACH OCCURRENCE	\$	5,000,000
l	X EXCESS LIAB CLAIMS-MADE					AGGREGATE	\$	5,000,000
	DED RETENTION\$						\$	
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY					PER OTH- STATUTE ER		
l	ANY PROPRIETOR/PARTNER/EXECUTIVE	N/A				E.L. EACH ACCIDENT	\$	
l	(Mandatory in NH)	.,,,				E.L. DISEASE - EA EMPLOYEE	\$	
	If yes, describe under DESCRIPTION OF OPERATIONS below					E.L. DISEASE - POLICY LIMIT	\$	
C	Professional Liab		IAE4218173	04/01/2020	04/01/2021	Professional		1,000,000
D	POLLUTION LIABILITY		CPLMOL102522	03/20/2020	03/20/2021	PER CLAIM/AGGR		\$1M/\$3M

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) CERTIFICATE HOLDER IS ADDITIONAL INSURED WITH RESPECTS TO COMMERCIALL LIABILITY WHEN REQUIRED BY WRITTEN CONTRACT.

**APPROVED** 

By Danielle Thorpe at 4:37 pm, Jun 09, 2020

CERTIFICATE HOLDER CANCELLATION

> **CITY OF POMPANO BEACH** PO BOX 1300 POMPANO BEACH, FL 33061

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

(KIH)

© 1988-2015 ACORD CORPORATION. All rights reserved.



DATE (MM/DD/YYYY) 4/29/2020

Acct#: 2706687

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 right	is to the certificate holder in field of such	endorsenii	enit(s).					
PRODUCER		CONTACT NAME:	Lockton Affinity, LLC					
Lockton Affinity, LLC		PHONE		FAX				
P. O. Box 879610		(A/C.NO Ext):	(A/C, No): 913-652-7	′599				
Kansas City, MO 64187-9610		E-MAIL ADDRESS: EFM@locktonaffinity.com						
			INSURER(S) AFFORDING COVER	AGE	NAIC #			
		INSURER A	A: Old Republic Insurance Company		24147			
INSURED		INSURER B	):					
NSURED CRAIG A. SMITH & ASSOCIATES, INC. 21045 Commercial Tail	, INC.	INSURER (	3:					
		INSURER D:						
Boca Raton, FL 33486		INSURER E						
		INSURER F			I			
COVERAGES	CERTIFICATE NUMBER		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	R TYPE OF INSURANCE			ADDL INSD		POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMI	тѕ			
	COI	Claims			Occur	ТҮ						EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person)	
		GGREGATE LICY		APPL ROJE		R: LOC	-					PERSONAL & ADV INJURY  GENERAL AGGREGATE  PRODUCTS - COMP/OP AGG	
A	ANY	FILE LIABILITY AUTO NED AUTO ED AUTOS	s <u>y</u>	AU'	HEDUL TOS N-OWNE			x <b>PF</b>	L106034-20 PROVED	04/27/2020	04/27/2021	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	\$1,000,000 \$ \$ \$ \$
		BRELLA LIA	B ETENTI	ON \$	OCCU		Ву	Da Da	nielle Thorpe at 4:35	om, Jun	09, 2020	EACH OCCURRENCE AGGREGATE	\$ \$
	WORKERS COMPENSATION					Y /N	N/A					PER STATUTE OTH- E.L. EACH ACCIDENT  E.L. DISEASE - EA EMPLOYEE  E.L. DISEASE - POLICY LIMIT	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) GPBR: 2QL2

Policy provides protection for any and all operations/jobs performed by the named insured where required by written contract. Certificate holder is an Additional Insured where required by written contract. Waiver of Subrogation included by written contract. Insurance is primary and non-contributory. Additional Insured: City of Pompano Beach

CERTIFICATE HOLDER	CANCELLATION

City of Pompano Beach PO Box 1300 Pompano Beach, FL 33061 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** 



DATE (MM/DD/YYYY) 05/19/2020

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.

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lacksquare	is certificate does not confer rights t	o the	ecert	tificate holder in lieu of s			).			
	DUCER				CONTACT NAME:					
	uchard Insurance for FrankCrum Starcrest Drive				PHONE					
	arwater, FL 33758				E-MAIL ADDRE					
						INSURER(S) AFFORDING COVERAGE				NAIC#
			INSURI	ER A : America	ın Zurich Insu	rance Company		40142		
INSU					INSURI	ERB:				
	nkCrum 6, Inc. Alt. Emp: CRAIG A. SMITH & South Missouri Avenue	ASSC	CIAT	ES, INC.	INSURI	ER C :				
	arwater, FL 33756				INSURI	ER D :				
					INSURI	ER E :				
					INSURI	ERF:				
СО	VERAGES CER	TIFI	CATE	E NUMBER: 20FL0809884	11			REVISION NUMBER:		
IN C	HIS IS TO CERTIFY THAT THE POLICIES DICATED. NOTWITHSTANDING ANY REETIFICATE MAY BE ISSUED OR MAY KOLUSIONS AND CONDITIONS OF SUCH	EQUIF PERT	REME ΓΑΙΝ,	NT, TERM OR CONDITION THE INSURANCE AFFORD	OF AN ED BY	Y CONTRACT	OR OTHER I	DOCUMENT WITH RESPEC	CT TO	WHICH THIS
INSR LTR	TYPE OF INSURANCE	ADDL	SUBR	POLICY NUMBER		POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMIT	 S	
<u>-::`</u>	COMMERCIAL GENERAL LIABILITY		.,,,,,,	. CLG. HOMBER		,	,	EACH OCCURRENCE	\$	
	CLAIMS-MADE OCCUR							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$	
								MED EXP (Any one person)	\$	
								PERSONAL & ADV INJURY	\$	
	GEN'L AGGREGATE LIMIT APPLIES PER:							GENERAL AGGREGATE	\$	
	POLICY PRO- JECT LOC							PRODUCTS - COMP/OP AGG	\$	
	OTHER:								\$	
	AUTOMOBILE LIABILITY							COMBINED SINGLE LIMIT (Ea accident)	\$	
	ANY AUTO							BODILY INJURY (Per person)	\$	
	OWNED SCHEDULED AUTOS ONLY							BODILY INJURY (Per accident)	\$	
	HIRED NON-OWNED AUTOS ONLY							PROPERTY DAMAGE (Per accident)	\$	
	No ros ener							(* = = = = = = = = = = = = = = = = = = =	\$	
	UMBRELLA LIAB OCCUR							EACH OCCURRENCE	\$	
	EXCESS LIAB CLAIMS-MADE							AGGREGATE	\$	
	DED RETENTION \$	1							\$	
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY							X PER OTH-ER		
A	ANYPROPRIETOR/PARTNER/EXECUTIVE	N/A		WC 47-58-512-09		06/01/2020	06/01/2021	E.L. EACH ACCIDENT	\$	1,000,000
^	OFFICER/MEMBEREXCLUDED? (Mandatory in NH)	N/A		VVC 47-30-312-09		06/01/2020	06/01/2021	E.L. DISEASE - EA EMPLOYEE	\$	1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below							E.L. DISEASE - POLICY LIMIT	\$	1,000,000
				Location Coverage Peri	od:	06/01/2020	06/01/2021	Client# 60544-FL		
DES	CRIPTION OF OPERATIONS / LOCATIONS / VEHIC CRAIG A. SMITH &				le, may b	e attached if mor	e space is requir	ed)		
only	erage is provided for those co-employees ut not subcontractors  CRAIG A. SMITH & 21045 COMMERC BOCA RATON, FL	IAL T	RAIL			PPROV		Thomas de la constant	200	20
							i norpe a	t 4:38 pm, Jun 09	, 202	20
CE	RTIFICATE HOLDER				CAN	CELLATION				
	City of Pompano Beach PO Box 1300 Pompano Beach, FL 33061				THE	EXPIRATION	N DATE THI	ESCRIBED POLICIES BE CA EREOF, NOTICE WILL E Y PROVISIONS.		
l					AUTHO	RIZED REPRESE	NTATIVE			

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DATE (MM/DD/YYYY)

12/03/2020

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.

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		9			- '\-',		
PRODUCER	1			CONTACT NAME:	Kim Hefferon		
	Sena & Whitney LL			PHONE (A/C, No, Ext):	561-210-8715	FAX (A/C, No): 561-21	0-8716
	190 Glades Rd Suit			E-MAIL ADDRESS:	khefferon@thesenagroup.com		
	Boca Raton, FL 334	132			INSURER(S) AFFORDING COVERAGE		NAIC#
				INSURER A:	Wilshire Insurance Co, 13	3234	13234
INSURED				INSURER B :	<b>Burlington Insurance Co.</b>		
	CRAIG A. SMITH &	ASSOCIATES		INSURER C:	Peleus Insurance Compan	y, 34118	
	21045 COMMERCIA			INSURER D :	<b>Evanston Insurance Compar</b>	ny, 35378	35378
	BOCA RATON, FL	33486		INSURER E :			
				INSURER F:			
COVERA	AGES	CERTIFICATE NUMBER:	00018216-2	488228	REVISION N	JMBER: 141	

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INSR		TOTAL TOTAL	ADDL	SUBR		POLICY EFF	POLICY EXP (MM/DD/YYYY)			
LTR	R TYPE OF INSURANCE			WVD	POLICY NUMBER	(MM/DD/YYYY)		LIMIT	S	
A	X	COMMERCIAL GENERAL LIABILITY	Y		BRK000120000	12/01/2020	12/01/2021	EACH OCCURRENCE	\$	1,000,000
		CLAIMS-MADE X OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$	100,000
								MED EXP (Any one person)	\$	5,000
								PERSONAL & ADV INJURY	\$	1,000,000
	GEN	L'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	\$	2,000,000
		POLICY X PRO- JECT LOC						PRODUCTS - COMP/OP AGG	\$	Included
l		OTHER:							\$	
	AUT	OMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	\$	
		ANY AUTO						BODILY INJURY (Per person)	\$	
		OWNED SCHEDULED AUTOS ONLY						BODILY INJURY (Per accident)	\$	
		HIRED NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	\$	
									\$	
В		UMBRELLA LIAB X OCCUR			HFF0014957	12/01/2020	12/01/2021	EACH OCCURRENCE	\$	5,000,000
	X	EXCESS LIAB CLAIMS-MADE						AGGREGATE	\$	5,000,000
		DED RETENTION\$							\$	
		KERS COMPENSATION EMPLOYERS' LIABILITY						PER OTH- STATUTE ER		
	ANY	PROPRIETOR/PARTNER/EXECUTIVE CER/MEMBER EXCLUDED?	N/A					E.L. EACH ACCIDENT	\$	
	(Mar	idatory in NH)	^					E.L. DISEASE - EA EMPLOYEE	\$	
	DES	s, describe under CRIPTION OF OPERATIONS below						E.L. DISEASE - POLICY LIMIT	\$	
C	Pr	ofessional Liab			IAE4218173	04/01/2020	04/01/2021	Professional		1,000,000
D	PC	LLUTION LIABILITY			CPLMOL102522	03/20/2020	03/20/2021	PER CLAIM/AGGR		\$1M/\$3M
										•
$\vdash$										

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

CERTIFICATE HOLDER IS ADDITIONAL INSURED WITH RESPECTS TO COMMERCIALL LIABILITY WHEN REQUIRED BY WRITTEN CONTRACT.

**APPROVED** 

By Danielle Thorpe at 3:46 pm, Jan 06, 2021

CERTIFICATE HOLDER CANCELLATION

CITY OF POMPANO BEACH PO BOX 1300 POMPANO BEACH, FL 33061 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

(KIH)

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