

*CITY OF POMPANO BEACH,
FLORIDA*

PROFESSIONAL CONSULTING AGREEMENT

with

Stantec Consulting Services 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 Stantec Consulting Services Inc. a New York corporation authorized to do business in the State of Florida, 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 Terrance N. Glunt, Principal

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

ARTICLE 2 – TERM

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

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

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

ARTICLE 3 – PAYMENTS TO CONSULTANT

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

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

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

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

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

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

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

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

ARTICLE 4 – TRUTH-IN-NEGOTIATION CERTIFICATE

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

ARTICLE 5 – TERMINATION

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

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

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

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

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

ARTICLE 6 – PERSONNEL

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

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

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

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

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

ARTICLE 7 – SUBCONTRACTING

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

ARTICLE 8 – FEDERAL AND STATE TAX

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

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

ARTICLE 9 – AVAILABILITY OF FUNDS

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

ARTICLE 10 - INSURANCE REQUIREMENTS

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

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

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

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

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

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

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

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

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

ARTICLE 11 – INDEMNIFICATION

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

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

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

ARTICLE 12 – SUCCESSORS AND ASSIGNS

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

ARTICLE 13 – REMEDIES

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

ARTICLE 14 – CONFLICT OF INTEREST

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

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

ARTICLE 15 – EXCUSABLE DELAYS

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

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

ARTICLE 16 – DEBT

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

ARTICLE 17 – DISCLOSURE AND OWNERSHIP OF DOCUMENTS

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

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

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

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

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

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

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

PUBLIC RECORDS CUSTODIAN

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

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

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

ARTICLE 18 – CONTINGENT FEES

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

ARTICLE 19 – ACCESS AND AUDITS

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

ARTICLE 20 – NONDISCRIMINATION

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

ARTICLE 21 – INTERPRETATION

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

ARTICLE 22 – AUTHORITY TO PRACTICE

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

ARTICLE 23 – SEVERABILITY

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

ARTICLE 24 – ENTIRETY OF CONTRACTUAL AGREEMENT

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

ARTICLE 25 – MODIFICATION OF SCOPE OF WORK

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

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

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

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

ARTICLE 26 – NOTICE

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

FOR CITY:

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

FOR CONSULTANT:

Michael A. Kennedy, Executive Vice President
Stantec Consulting Services Inc.
6900 Professional Parkway East, Suite 100
Sarasota FL 34240

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”

Stantec Consulting Services, Inc.

Witnesses:

Lori UHL

Signature

Lori UHL

Name Typed, Printed or Stamped

By: Michael A. Kennedy

Michael A. Kennedy, Executive Vice President

Traci Troyer

Signature

Traci Troyer

Name Type, Printed or Stamped

STATE OF FLORIDA

COUNTY OF Sarasota

The foregoing instrument was acknowledged before me, by means of physical presence or online notarization, this 14th day of January, 2021, by Michael A. Kennedy, as Executive Vice President of Stantec Consulting Services, Inc., a New York corporation, authorized to do business in Florida, on behalf of the corporation. He is personally known to me or who has produced _____ (type of identification) as identification.

NOTARY'S SEAL:



Debra M. Sheahan
NOTARY PUBLIC, STATE OF FLORIDA

Debra M. Sheahan
(Name of Acknowledger Typed, Printed or Stamped)

GG 188293
Commission Number



Florida's Warmest Welcome

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

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

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

June 30, 2020

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

CONTINUING CONTRACT FOR CIVIL ENGINEERING SERVICES FOR VARIOUS CITY
PROJECTS

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

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

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

Introduction

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

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

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

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

A. Scope of Services

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

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

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

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

B. Task/Deliverables

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

C. Term of Contract

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

D. Project Web Requirements:

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

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

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

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

E. Local Business Program

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

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

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

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

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

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

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

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

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

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

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

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

F. Required Proposal Submittal

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

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

Title page:

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

Table of Contents:

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

Letter of Transmittal:

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

Technical Approach:

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

Schedule:

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

References:

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

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

Project Team Form:

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

Organizational Chart:

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

Statement of Skills and Experience of Project Team:

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

Resumes of Key Personnel

Include resumes for key personnel for prime and subconsultants.

Office Locations:

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

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

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

Local Businesses:

Completed Local Business program forms, Exhibits A-D.

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

Litigation:

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

City Forms:

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

Reviewed and Audited Financial Statements:

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

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

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

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

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

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

G. Insurance

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

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

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

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

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

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

2. Liability Insurance.

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

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

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

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

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

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

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

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

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

CYBER LIABILITY

Per Occurrence Aggregate

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

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

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

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

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

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

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

H. Selection/Evaluation Process

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

Proposals will be evaluated using the following criteria.

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

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

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

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

NOTE:

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

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

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

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

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

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

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

I. Hold Harmless and Indemnification

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

J. Right to Audit

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

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

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

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

K. Retention of Records and Right to Access

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

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

L. Communications

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

M. No Discrimination

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

N. Independent Contractor

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

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

O. Staff Assignment

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

P. Contract Terms

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

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

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

Q. Waiver

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

R. Survivorship Rights

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

S. Termination

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

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

T. Manner of Performance

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

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

U. Acceptance Period

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

V. Conditions and Provisions

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

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

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

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

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

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

W. Standard Provisions1. Governing Law

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

2. Licenses

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

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

3. Conflict Of Interest

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

4. Drug Free Workplace

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

5. Public Entity Crimes

A person or affiliate who has been placed on the convicted vendor list following a conviction for public entity crime may not submit a proposal on a contract to provide any goods or services to a public entity, may not submit a proposal on a contract with a public entity for the construction or repair of a public building or public work, may not submit proposals on leases of real property to public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Florida Statute, Section 287.017, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list.

6. Patent Fees, Royalties, And Licenses

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

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

7. Permits

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

8. Familiarity With Laws

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

9. Withdrawal Of Proposals

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

10. Composition Of Project Team

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

11. Invoicing/Payment

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

12. Public Records

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

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

PUBLIC RECORDS CUSTODIAN

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

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

X. Questions and Communication

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

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

Y. Addenda

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

Z. Contractor Performance Report

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

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

PROPOSER INFORMATION PAGE

_____, _____
(number) (Title)

To: The City of Pompano Beach, Florida

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

Proposal submitted by:

Name (printed) _____ Title _____

Company (Legal Registered) _____

Federal Tax Identification Number _____

Address _____

City/State/Zip _____

Telephone No. _____ Fax No. _____

Email Address _____

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

PROJECT TEAM

SOLICITATION NUMBER _____

Federal I.D.# _____

PRIME

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

SUB-CONSULTANT

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

(use attachments if necessary)

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

VENDOR CERTIFICATION REGARDING SCRUTINIZED COMPANIES LISTS

Respondent Vendor Name: _____

Vendor FEIN: _____

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

I Certify

Exhibit – Contractor Performance Report

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

RATINGS

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

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

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

City of Pompano Beach Florida

Local Business Subcontractor Utilization Report

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

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

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

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

Local Business Subcontractor Utilization Report Instructions

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

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

LOCAL BUSINESS EXHIBIT "C"
LOCAL BUSINESS UNAVAILABILITY FORM

Solicitation # _____

I, _____
(Name and Title)

of _____, certify that on the _____ day of

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

items to be performed in the City of Pompano Beach:

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

Said Local Businesses:

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

Name and Title: _____

Date: _____

Note: Attach additional documents as available.

LOCAL BUSINESS EXHIBIT "C"

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

Solicitation # _____

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

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

3. Did you send written notices to Local Businesses?

___ Yes ___ No

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

4. Did you advertise in local publications?

___ Yes ___ No

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

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

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

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

8. Other comments: _____

LOCAL BUSINESS EXHIBIT "D"



Continuing Contract for Civil Engineering Services for Various City Projects (RFQ No. E-20-20)



Title
Page

Project Name and Number

Continuing Contract for Civil Engineering Services for Various City Projects
RFQ No.: E-20-20

Firm Name, Address, and Phone Number

Stantec Consulting Services Inc.

800 Fairway Drive, Suite 195
Deerfield Beach, Florida 33441
954-481-2812

Contact Person

Terrance N. Glunt, PE, LEED AP

Date

July 30, 2020


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1. Letter of Interest

July 29, 2020

City of Pompano Beach
1190 NE 3rd Avenue, Building C (Front)
Pompano Beach, Florida 33060


Stantec Consulting Services Inc.
800 Fairway Drive, Suite 195,
Deerfield Beach, FL 334441

Reference: Continuing Contract for Civil Engineering for Various City Projects Services (E-20-20)

Dear Selection Committee,

This is what we do. Over 95% of our Southeast Florida work has been for the public sector with a team and management staff that are local to Broward County and Southeast Florida. Specializing in multidisciplinary CSA services is our specialty with expertise in civil, water and waste water utilities, transportation planning and design, coastal and marine, planning and landscape architecture, buildings and facilities, program management, and construction services. We have been providing these services in South Florida for over 40 years.

This is where we come from. Stantec is not new. We did not just move into the neighborhood and set up shop. Stantec has grown organically as well as through the acquisition of some of the most successful firms with South Florida connections including MWH, C3TS, Wilson Miller & Associates, and Greenhorne & O'Mara, with one of the highest staff retention results for any Florida corporate transition.

This is how we do it. What kind of team does it take to provide you with the right combination of enthusiasm, qualifications, and experience for this contract? It takes a team that works together and is driven to achieve. At Stantec, we collaborate across disciplines, offices and industries to bring projects to life. This has provided our various team members with the ability to look at projects holistically, without blinders and a complete understanding of how each discipline interacts to bring a project to successful completion. We are ready to be your project partner and meet your needs in a creative and personalized way.

Stantec is pleased to offer the City of Pompano Beach our services including a local, appropriate, knowledgeable and complete team, many of which have worked on City projects under our previous contracts with the City. We are ready to offer attractive, value oriented and timely solutions to any engineering or miscellaneous professional services required for the city. We have completed hundreds of successful projects under Continuing Service and CIP contracts for numerous municipalities throughout the South Florida area including the following City projects as prime consultant:

- Alsdorf Park Expansion projects (multiple projects)
- Drainage Basin 4-1 and 4-2 Storm Water Improvements
- Pompano Beach Utility Services Complex Program Managers (DCP)
- Mitchell Moore Aquatic Facilities
- Community Park Aquatic Facilities
- Ely HS Athletic Complex Program Managers (DCP)
- Community Park East Side Improvements
- Pompano Beach Plaza Beach Side Concept Designs



Additionally, Stantec has completed numerous projects for the State of Florida and Broward County within the Pompano Beach area such as the Dixie Highway Widening, Broward County Mass Transit Facilities Expansion, Sample Road Widening, I-95 Express Lanes, Pompano Beach Farmer's Market Administration Building and Loading Dock Structures, North Broward Park and the Powerline Road Widening project.

For this contract, Stantec will provide a team with a multitude of experience working on similar projects including those performed for the City of Pompano Beach. Terrance N. Glunt, PE, SI, LEED AP, will serve as the overall Contract Manager, and will work directly with the City of Pompano Beach. Jeff Crews, PE, LEED AP, will assist as the Senior Project Manager. Between the two, they have over 60 years of experience and managed all of the previous mentioned projects for the City of Pompano Beach.

We know you will find that our team's experience is both relevant and pertinent to the specific goals outlined in your request. We commit to the City of Pompano Beach that we are willing and able to provide a fully dedicated and experienced team and that the key personnel nominated in this submission will remain committed to the project from concept to completion. To that end, we have included local sub-consultants, not because we cannot perform all task in house, but because we have found that long standing, local area firms provide a wealth of knowledge for the team as a whole that sometimes cannot be measured in experience or resumes. This include Keith & Associates, Inc. (survey), Radise International (geotechnical) and Crag A Smith & Associates (SUE services). We have worked with each on numerous occasions and have found their addition to the team, and the insight they provide, to be invaluable. It also allows Stantec to participate in the local and State level, small and minority business programs without sacrificing experience or level of service. We recognize talent when we see it.

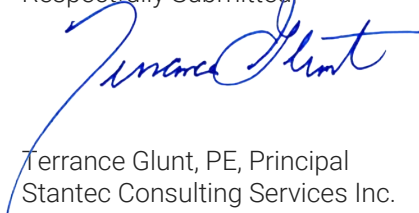
We have reviewed your proposed RFQ/contract terms and believe that should we be selected for this assignment we will be able to conclude a mutually satisfactory contract with you.

As we are all aware, we are working in unprecedented times as a result of the COVID-19 pandemic. The situation is fluid. Our proposal is based on our understanding of performing these services in normal conditions. As the nature and extent of the impacts due to this outbreak cannot be fully identified or quantified at this time, we feel it would be prudent to submit this proposal based on normal conditions, without accounting for impacts due this outbreak, and to discuss with you once we are able to evaluate the impacts and to work collaboratively with you on a path forward. We would be pleased to have a further discussion with you to share our respective plans and efforts to help mitigate the impact of this evolving situation on your proposed project.

With such relevant experience and expertise, we are confident that we are the best team for this contract. We appreciate this opportunity to express our sincere interest in being of service to the City of Pompano Beach and we look forward to continuing our rewarding relationship.

We will be happy to answer any and all questions to your satisfaction. Feel free to contact our office at (954) 481-2812 or email Terry.Glunt@stantec.com.

Respectfully Submitted



Terrance Glunt, PE, Principal
 Stantec Consulting Services Inc.
 800 Fairway Drive, Suite 195
 Deerfield Beach FL 33441
 954.481.2812 office / 954.481.2818 fax
 Federal Tax Identification No. 11-2167170
 Florida Engineering License No. 27013



Mitchell Moore Aquatic Facility

2. Technical Approach

This Is Who We Are

Stantec, founded in 1954, provides professional design and consulting services in engineering, architecture, landscape architecture, planning, surveying, geotechnical, environmental sciences, construction engineering inspections, construction management, project management, and project economics for infrastructure and facilities projects. Continually striving to balance economic, environmental, and social responsibilities, we are recognized as a world-class leader and innovator in the delivery of sustainable solutions. Locally, we have been in the South Florida market for over 40 years through the acquisition of some of the top local firms in the area, including, MWH, C3TS, Greenhorne & O'Mara and Wilson Miller.

Stantec Information	
No. of Years in Business:	66
Business Structure:	Corporation
Business Address:	800 Fairway Drive Suite 195 Deerfield Beach, FL 33441
Contact Person:	Tery Glunt, PE (954) 484-2812 tery.glunt@stantec.com
Business website:	www.stantec.com

We support our public and private sector clients at every stage, from initial concept and financial feasibility to project completion and beyond, regardless of project size or discipline. The firm holds a fundamental belief in the involvement of the client and users in the entire design process. As integral members of the team, our clients contribute greatly to the energy and enthusiasm that produce the highest quality work. A characteristic of Stantec's work is the uniqueness of each design solution, achieved by beginning each design process without preconceptions. To that end, the public sector has comprised well over 95% of our client base in the tri-County area.

Stantec has over 17,000 people in more than 350 locations worldwide. With 200 offices and 7,600+ people in the US alone, chances are there's a Stantec presence right where you need us to be. More specifically, we have 15 offices within the State of Florida including our local Deerfield Beach office to aid in this contract. This office shall be supported by staff from our other local offices in Sunrise, Coral Gables, and West Palm Beach as needed for any task work order requiring specialized experience and talent. Stantec's strong commitment to client satisfaction is the foundation of our service to you. We have a long history of serving municipal and county clients throughout the state.

We have been awarded over 50 continuing services contracts for various municipalities in the tri-County area alone including Pompano Beach, Deerfield Beach, Coconut Creek, Plantation, Sunrise, Coral Springs, Tamarac, Davie, Cooper City, Miramar, Hallandale, Hollywood, Fort Lauderdale, Lauderdale By The Sea, West Palm Beach, Town of Palm Beach, Riviera Beach, Miami, Miami Beach, North Miami Beach, Doral, Coral Gables, Golden Beach, Key Biscayne, Cutler Bay, Palmetto Bay, and Pinecrest, to name a few. The firm's design and construction management teams have assisted these municipalities in various studies and improvements and reconstruction of their infrastructure systems, many of which involving projects that were quite unique.

This Is What We Do

The variety of projects we have performed for our major client base included projects such as roadway reconstruction and streetscaping, neighborhood improvement projects, storm water collection and pump stations, water distribution, sanitary sewer rehabilitation and replacement, undergrounding of utilities, municipal building facilities, coastal and canal improvements involving resiliency programs, city parks and various studies involving forensic assessment, rate studies, infrastructure forecasting, paving programs and GIS integration. The ability to handle the unique, often rare, studies and design projects has earned us a reputation with our clients as problem solvers. It also helps that we have extraordinary in-house resources as well as a subconsultant team that adds incredible depth to the team.

In recent years we have provided a variety of services for some of your neighboring cities on some very unique projects including the following:

City of Deerfield Beach	Hillsboro Blvd Lane Reduction Study Pioneer Grove Infrastructure Assessment Kingfisher Canal Stormwater Quality Outfall Study Pioneer Grove Phase 1 Storm Drainage Improvements
City of Coral Springs	Annual Asphalt Neighborhood Paving Program Art in Public Places Foundation Design Neighborhood Sidewalk and Pedestrian Lighting Improvements Aquatic Facilities Forensic Study and Pool Repairs Historic Covered Bridge Structural Repairs
City of Tamarac	Neighborhood Buffer Wall Program Design (5 Phases) Canal Culvert Headwall Improvements (6 Phases) C-14 Canal Boat Launch and Staging Docks Tamarac Citywide GIS System Integration Services
City of Sunrise	Canal Maintenance Boat Ramps NW 25th Court Traffic Calming and Lighting Improvement Project List Station Improvements (4 Lift Stations) Springtree WWTP Equipment and Storage Building ASR Raw Water & Reuse Pipe Installation CEI Services

In addition to these, we have also provided more typical design services involving the following services, which have included City of Pompano Beach projects such as:

City of Pompano Beach	Community Park and Mitchell Moore Park Aquatic Complexes Drainage Basin 4-1 and 4-2 Storm Water Improvements Pompano Beach Utility Services Complex DCP Ely High Sschool Athletic Complex DCP Alsdorf park Boat Ramp Improvements
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General Civil Engineering Services

The Stantec team has a great deal of experience in general civil engineering projects in the South Florida area, especially in roadway, site planning and parks and recreation. We have extensive experience in roadway improvements, beautifying areas with streetscape and landscaping while providing necessary infrastructure upgrades including drainage, water, and sewer. Additional engineering experience includes numerous roadway improvements including widenings, reconstruction, drainage upgrades, signalized intersections, and traffic calming, as well as major highway and interchange work. Pedestrian safety is our utmost concern, with critical thinking philosophy applied to sidewalk setbacks, ADA ramp locations, cross walk identification, mixed-use bike and pedestrian applications, wayfinding signage, adequate safety lighting, bus stops and school bus routes. Our goal is to provide an integrated approach with innovative solutions to satisfy the City and its residents.

The roadway portion is often the most expensive part of these types of projects. The Stantec team will evaluate the roadway and prepare a resurfacing plan to try to minimize the cost to the project but still deliver a good product. Many times, the base of a roadway is sound and milling & resurfacing or partial reconstruction are sufficient to repair the road. Some smaller areas may need full reconstruction, but by carefully analyzing and delineating the condition of the roadway, the Stantec Team will help extend the City's budget. We have managed the City of Coral Springs Annual Asphalt Neighborhood Resurfacing Program since 2015.



Our approach to a roadway and drainage design starts by evaluating all possible solutions for effectiveness, cost and permissibility. We model all our drainage designs using advanced software programs like ICPR, HEC and GIS to establish the effectiveness of the proposed solutions for varying storm events. Our team will provide several solutions with their associated cost estimates and our recommendations for the City's evaluation. When the proposed solution is selected, we will prepare plans and specifications in accordance to local, state and federal regulations. Our familiarity with these projects will allow us to quickly get the project designed, permitted, and constructed.

It would also not be uncommon for the General Engineering Consultant to be asked to make public presentation before the City Commission, before other regulatory bodies, or to the public. Stantec is very experienced in public engagement, and knowledgeable in making such presentations, preparing exhibits, handouts, and responding to questions in non-technical language that is understandable to residents and stakeholders. We have made presentations to elected bodies as well as to the public at public hearings and at informal neighborhood gatherings, and we have conducted charrettes and brainstorming sessions, some with the public present and others with stakeholders. When conducting charrettes and brainstorm sessions, we have guidelines for the facilitator and the group to follow.



Traffic and Transportation Services

Roadways are the most fundamental infrastructure underlying our economies—and our societies. They have the power to do more than just move goods from A to B. They connect people to one another and to the places they need and want to go to, within their communities and beyond. A woman driving down the interstate to the airport where she'll board a plane to Tampa for a meeting. A teenager riding his bike over a major roadway by way of a multi-use path and pedestrian bridge. A man taking the train to commute to work or just visit his grandchildren. Different people, but with a shared goal: to get from that Point A to Point B as quickly and safely as possible.

We help communities harmoniously connect by marrying functionality with form. Our leading transportation specialists are matched with our best planners, landscape architects, and scientists based on the given project's requirements. Our focused expertise, diverse experience, and collaborative teamwork enable us to create solutions that enhance mobility and improve safety. At the same time, they also enhance the local area and meet the current and future needs of that community. And for us, simply engineering the various components of a transportation network doesn't equal success. We also need to meet the needs of the people traveling every day—because Stantec isn't just a company; we're people, with the same goals as everyone else—to get where we're going, safely and efficiently.

Our portfolio includes thousands of highways and rural byways, toll roads, and urban streets serving every possible mode of transport, in every climate and across every terrain. Each project is customized to satisfy client needs and support connections within and outside the local community. And with advanced technologies, we make our current roadway infrastructure smarter, helping to transform how we understand - and create - greater mobility.

Stantec's Project Development & Environment (PD&E) Department specializes in long term planning of corridors for both roadway and transit projects. For FDOT, we delivered studies for the expansion of the Florida Turnpike Homestead Extension, I-95 Express Lanes, SW 10th Street Connector project, and University Drive extension from Broward County to Palm Beach County. On the opposite end of that spectrum, we also provided traffic studies and access management plans for several local projects including the Hillsboro Blvd. lane reduction from Dixie Highway to Federal Highway, the Pioneer Grove LAC circulation and traffic study, the FIU campus entrance study, and the Gramercy Park traffic study.



Our long-term traffic and transportation planners have also been involved in several extensive studies including the development of the master transportation plan for the City of Ave Maria, Florida, working hand in hand with the MPO and local County planning departments. In addition, our land use planners have worked on numerous CRA plans to help develop traffic patterns that create a real sense of community while providing pedestrian friendly venues with access to retail and commercial areas.

Stormwater Engineering Services

The Stantec Team has vast experience in drainage projects in the South Florida area for storm water facilities of all types including their benefits and cost. We have experience with above and below ground technologies, exfiltration trench systems, dry & wet detention, pump stations, gravity well, pumped wells, underground storage and direct outfall to drainage canals and other water bodies. Our approach starts by evaluating all possible solutions for effectiveness, cost and permit-ability, especially when considering SFWMD and BCSWM and their requirements for permit. We also recognize that the City of Pompano Beach falls under Broward County EPGM for stormwater permitting on a smaller scale and we are prepared to assist in permitting through that agency as well. Being a coastal community also adds storm water and resiliency factors to the shoreline and ICWW area and we have a great deal of experience in dealing with FDEP and FIND, including having worked on all of the City's Alsford Park Expansion projects over the last 12 years.

We model all our drainage designs using advanced software programs like ICPR, HEC and GIS to establish the effectiveness of the proposed solutions for varying storm events. But we also can simplify the drainage design and permitting by utilizing the SFWMD Cascade program when a simple pre- versus post-developmental analysis is warranted. That is extremely more practical when handling park projects and neighborhood pathway and sidewalk plans. Our Team will provide several solutions with their associated cost estimates and our recommendations for the City's evaluation. When the proposed solution is selected, we will prepare plans and specifications in accordance to local, state and federal regulations. Our familiarity with these projects will allow us to quickly get the project designed, permitted and constructed.

A few examples of our recent experience are shown in the related project experience and range from small localized ponding projects to large regional drainage projects, including the Storm Water Basin 4-1 and 4-2 Areas. Of special note is Palm and Hibiscus Island Neighborhood Improvements which is currently under construction in Miami Beach. This project consists of full infrastructure improvements including drainage and roadway for over 100 acres of residential neighborhood on these islands off the MacArthur Causeway. The area is tidally influenced and many of the roadways were built below the seasonal high tides. Thus, the streets flooded several times during the year. The existing drainage system did not meet the minimum standards established by the City and was extremely flood prone. Stantec analyzed several solutions including pump assisted wells, exfiltration trenches and a large pump station. The City decided to go with a large pump stations for each island with discharge outfalls to Biscayne Bay. Additional elements of the project included full roadway reconstruction, undergrounding of existing utilities, new curb and gutter, lighting improvements, and landscaping.



The Stantec team is also experienced in the preparation and execution of Stormwater Master Plans and Floodplain Management Plans. Our extensive experience in local drainage systems and conditions will help strengthen the master plan by providing viable solutions with accurate cost and schedules. Drainage solutions would be provided for varying levels of protection including schematic design and cost estimates. This allows the City to submit for grant funding for projects that provide higher level protection with funding that was previously beyond the City's reach. These projects providing protection for 25-year and 100-year storms would be eligible for credit under FEMA's Community Rating system to potentially improve the City's Class.

Water / Wastewater / Utility Services

Our team has vast experience with local utilities, including many cities within and adjacent to the City of Pompano Beach, in the areas of water distribution, wastewater collection, SSES, lift stations, booster stations, fire suppression systems, water reuse (reclaimed), water and irrigation well design and hydrogeology of the area, and are familiar with the local, county, and regional regulatory requirements, permitting processes, and the typical conditions placed upon construction and operational permits. Under the MWH acquisition, our Water Group has performed numerous projects for the City of Pompano Beach and most recently oversaw the installation of the \$7.2 million injection well for the City.

Over the years, our business relationships have allowed us the opportunity to work closely with clients on projects for planning and implementation of facilities. We have completed campus-wide SSES and pump station improvements at Florida International University (FIU) and completed the design of numerous pump station rehabilitation projects for Miami-Dade Water and Sewer Department as part of their consent decree program. On water & sewer projects, we have represented cities and institutions such as Sunrise, Deerfield Beach, Pompano Beach, Fort Lauderdale, Davie, Hallandale Beach, Lauderhill, Plantation and BCED as well as Miami-Dade Water and Sewer Department. These long-term relationships illustrate our ability to solve diverse and complex programs and to create practical and concise solutions that can be implemented. Our services have even extended to projects involving conversion of overhead utilities to underground. The Palm & Hibiscus Islands project is one such example, as well as the successfully completed Town of Golden Beach CIP project. Both large-scale capital projects included facilities for electrical and communication companies.

Stantec was the utility coordinator for all of the relocations created by the I-595 express corridor expansion and has served as the District Utility Coordination Consultant for FDOT District 4. We designed and permitted thousands of linear feet of large diameter water main and force main for various municipal and county utilities that involve standard installation as well as aerial crossings of canals and directional bore, micro-tunneling and jack and bore techniques. Of particular note, we designed and permitted 750 LF of a 24" force main for the Town of Palm Beach in just 38 days from NTP to acquisition of permits in order to meet a severe time restraint created by the start of the FDOT Flagler Memorial Bridge construction project. This was performed under the Town's continuing services contract.



Construction Engineering and Inspection (CEI) Services

The Stantec team includes a construction administration division fully staffed with knowledgeable inspectors experienced in all types of municipal projects. This experienced group includes inspectors on projects ranging from small drainage systems to larger pump stations to collection and distribution systems to HDD installations under canals and roadways. Additionally, we have building facility inspectors including licensed threshold and masonry inspectors. Our construction managers are seasoned engineers with experience in competitive bid contracts, the standard contract languages used by municipalities, including the EJCDC and AIA issued documents, the conditions issued by FDEP on SRF Loan contracts, and are experienced with the documents that protect the Owner.

Having both an FDOT and a non-FDOT inspection group offers Stantec's clients a flexibility that is second to none in the industry. Whether we are supporting a LAP funded CEI project such as the Park Lane Phase V project for the City of Oakland Park or providing municipal inspections of water, sewer, stormwater and roadway inspection, Stantec can provide the right inspection services to meet the scope and goals and work with the available budget set by the City.



The Stantec team has an organized process for bid evaluations, award recommendations, and NTP procedures, as well as submittal review, stamping, and record keeping. Additionally, the inspector's logs and records, including site photographs are all maintained electronically and delivered to the owner with the contractor's payment requests, or as requested by the owner. We are very familiar with the regulatory requirements that must be fulfilled and the close-out documents that are necessary to be satisfactorily presented before we certify a project as complete.

Having worked on projects whose funding can be from multiple sources, we usually develop checklists that are sometimes project specific, but more often than not have similar if not identical requirements, and these are used to substantiate payments.

All of our inspectors, and many of our engineers have special certifications for different trades or systems, and we assign these individuals to a project when needed. These include structural, electrical, mechanical, LEED, pavement, and maintenance of traffic. We understand our job, our responsibilities, as well as our limitations of authority, and we make sure contractors understand them as well, which makes for a smoother construction inspection and review process. Some of our staff have special OSHA training, including confined spaces, chlorine facilities, haz-mat, and others. If an individual requires training, it is done prior to the start of the project, and usually indicates that the contractor must also have similarly trained individuals and the certificates provided for our records and the City's.

This Is How We Do It

Control of any projects starts on day 1, and that is the day we actually get that call from the client that there is a project they want us to look at. To that end, Stantec's approach begins with the definition of scope for any task requested of us, regardless of discipline or size. This typically involves a face to face meeting with the City to identify the "wants and needs" of the project and to determine the best internal team to handle the various disciplines involved. Perhaps the most important element of this part of the process is understanding the full intent of the project, specifically from the City's perspective, with the recognition of reasonable goals and objectives. Realistic expectations need to be defined at this stage, well in advance of doing any of the actual work. Since our South Florida offices specialize in municipal service contracts, we have a strong history of developing work under similar contracts and we truly understand the importance of defining scope, fees and "deliverables" up front.

Our approach is memorialized in our published **Project Management Plan (PMP)** which details the key staff and stakeholders, project requirement and client objectives, schedule, budget, lines of communication, team member responsibilities, and milestone targets needed to ensure a successful completion to any project. This plan, developed for each and every task assigned under a continuing services contract, is submitted to the client at the Notice to Proceed and can be used as a measuring stick for performance throughout the design, permitting, and construction process. The plan outlines the lines of communication and principal point of contact, and includes a production schedule, critical path items, a list of responsible individuals, a list of required permits, and a narrative outlining the process by which the design work shall be completed. Upon the Notice to Proceed, Stantec shall provide the necessary background and base work to start the design process. This initial document assists Stantec early on in establishing and maintaining the projected schedule by the entire team.



Stantec recognizes the fact that certain management functions aside from technical design and such, are critical in delivering any project to our clients. Regardless of the task assignment, these elements are constant and demand our attention. They include the following:

- **Team Organization** – Provide the most experienced qualified team
- **Single Point of Contact** – Responsibility on Stantec's team revolves around easy, but accountable, access
- **Communication** – Documented at every level; second nature with a publicly traded company such as Stantec
- **Execution of Work** – Stay on Schedule; ensure deliverables
- **Staff Continuity** – Experience only works if staff remains fairly constant
- **Document Control** – Both in house and between Client and Consultant.
- **Accountability** – Own your work; stand behind all decisions even if wrong; apply lessons learned

Methodologies Employed

Due Diligence

The first step in performing work would involve familiarization and data gathering of the site and scope, what we call the Due Diligence phase. This would include preparation of a photographic record, surveying, geotechnical testing, collection of utility as-builts, utility coordination, collection of previous studies or plans, and review of applicable ordinances and resolutions, as well as permitting planning. The permitting planning portion allows us to plan which permitting agency will need to be contacted and will be reviewing the plans, so that it is not discovered during the permitting phase, which may cause a delay, this is especially important with the environmental and coastal permitting as well as utility coordination. Many of the discipline specific studies that we perform for our municipalities are also included in this phase, sometimes as a single task order assignment. These include rate studies, hydraulic system studies, traffic studies, forensic studies and environmental studies to name a few.



Concept and Planning

After the due diligence phase, there would be one or more meetings with key City staff to discuss the results of the field and historical document review and how it relates to the project vision, scope and goals. The program and budget will be reviewed to confirm that they are in accordance with each other and the City requirements. If any of these are at variance with the requirements, we will make the necessary adjustments to the program according to the input received from City staff and provide a conceptual plan in accordance with the budget for review and approval by the City.

Design Development

The next phase after the conceptual plans are accepted is to begin working on the Design Development drawings and outline specifications for materials. This phase includes the completion of all systems design in narrative format and preliminary engineering for coordination prior to construction documents. Another essential item during design development phase is to resolve the scope with the budget and receive client approval on the resolution. Even though the project may be constructed in two phases, Stantec can provide recommendation for bid alternates during the early phases in order to ensure that the project is within budget while still giving the City the flexibility of buying out items as funding becomes available.

Construction Documents

Once the design development drawings are completed and approved by the City, the project moves into Construction Documents and specifications. This phase involves the entire design team and all of its members. There are typically a series of milestone submittals, including 30%, 60%, 90% and 100% design submittals. However, we also recognize that many task order assignments are small enough in size to warrant a more reduced, and therefore quicker, review process that might involve a 50%, 90% and 100% phase submittal. Each submittal will include an updated construction cost estimate. The total duration of these phases, including 30%, 60%, 90% and 100% submittals, can vary greatly, and depends primarily on the review process. Included with the final two submittal phases will be the construction cost and time estimates (Opinion of Probable Cost) as well as the CSI formatted specifications package. After each submittal, simultaneously with the City reviews, Stantec will perform its own in-house peer review along with our established Quality Control / Quality Assurance (QA/QC) program. This implemented program enables us to provide project drawings within schedule, at budget cost and with high quality and reliability.

Stantec will assist the owner by preparing and submitting permit applications and construction drawings to the permitting agencies, City of Pompano Beach Planning, Zoning and Economic Development, City of Pompano Beach Engineering Department, City of Pompano Beach Public Works Department, City of Pompano Beach Utilities Department, City of Pompano Beach Building and Permitting Department (dry runs prior to bid), Broward County Office of Environmental Protection and Growth Management (BCEPGM), Broward County Traffic Engineering Department (BCTED), Broward County Health Department (BCHD), South Florida Water Management District (SFWMD), Florida Department of Environmental Protection (FDEP), etc. Review comments will be addressed, and construction drawings are revised accordingly to secure permit approval. The permitting process can then be completed by the contractor selected for the work.

Bidding and Negotiation is the next stage any project. The design team will prepare a full bid package including front end documents (Division 1), bid blank forms, technical specifications and construction plans. After a pre-bid meeting, addenda will be issued as needed. The engineers will be available to answer written questions with written responses to be published to all registered bidders. Once bids are received, we will review the bids, check Contractor references and provide the City with a bid tabulation and recommendation for awards.

The final stage of the project is Construction Administration. During the construction phase of the work, Stantec will be committed to assisting the City with delivering a project on-time and under budget. Much like our previous experience with the City, we feel that our team will work hand in hand with the City during all construction activities. Key components of the construction services include on-site presence by our skilled staff, reviewing contractor's payment requisitions, assessing and resolving conflicts in the field, and conducting punch list walk through and final inspection. During contract close-out, we will obtain final as-built drawings in both electronic and original format, provide final reports, provide warranty letters from the contractor and all sub-contractors, and obtain final closed permits from all applicable agencies.

Permitting

Stantec has a strong familiarity with the entire permit process for municipal projects due to our history of working on municipal projects over the years. This includes permits for environmental issues, drainage and storm water, utilities, transportation access, site planning and MPO issues, building department and landscaping. We have or are currently processing permit applications with all of the jurisdictional agencies in the Pompano Beach area. Our experience includes the following agencies:

Drainage

- South Florida Water Management District (along with ACOE and FDEP if ERP permits are involved)
- Broward County Environmental Protection and Growth Management – Surface Water Management
- FDEP for NPDES and SWPPP
- FDOT on major transportation corridors

Utilities

- City of Pompano Beach
- FDEP
- Broward County Health Department
- Broward County Environmental Protection and Growth Management - Wastewater
- TECO Gas
- FP&L new service coordination
- Comcast and ATT service coordination

Transportation

- Florida Department of Transportation
- Broward County Engineering
- City of Pompano Beach Public Works

Site Planning & Environmental

- City of Pompano Beach Planning and Zoning
- South Florida Water Management District
- Army Corps of Engineers
- Florida Department of Environmental Protection

- Florida Department of Fish and Wildlife
- National Marine Fisheries Service
- Broward County Environmental Protection and Growth Management
- City of Pompano Beach Fire Rescue
- Florida Inland Navigation District / US Coast Guard

Building Department

- City of Pompano Beach Building Department – architectural, structural, civil, MEP and landscaping

Part of what we feel makes Stantec unique is our proactive approach to permitting. Being a multi-disciplined firm we include all of the expected permitting functions from the differing regulatory and permitting agencies in our project management plan. Often, this approach leads us to begin permitting and submittal prior to actual completion of drawings for bidding and traditional permitting. With the knowledge that every project and municipality's permitting requirements are different, we outline our permitting strategy in the project management plan. This allows the permitting need to inform the process rather than force the process to be one of reactive results to imposed requirements.

Early identification of the jurisdictional agencies (Federal, State, and local) will be made, and the regulatory and permitting requirements identified. Stantec will prepare all necessary permit sketches for use by the City in the project permitting process. The sketches will be prepared based on the project permitting requirements. Stantec will also prepare permit applications to all applicable agencies, will submit the permit packages for approval, and will follow through until all permits are secured. We certainly understand that the process does not end with the submittal of the applications and sometimes the most work involves procuring the permits after submission. At the same time, the best way to avoid delays and issues during the procurement period is to submit a complete application package.

It should also be pointed out that Stantec has also worked directly for some of the major permitting agencies such as SFWMD, FDEP, FDOT, and Broward County. This familiarity goes a long way towards developing a rapport with the agency staff and lends itself to streamlining the application process.

Quality Assurance / Quality Control

As an ISO 9001 certified, publicly traded firm, Stantec aggressively pursues its commitment to quality in every deliverable and service the firm provides. Recognizing the critical importance of careful quality control, Stantec has assigned **Sangeeta Dhulashia, PE**, a seasoned professional that has no line authority and is not actively working on the project to act as our Quality Assurance/Quality Control person.



Prior to starting any task order project, an internal meeting with key team members will be held to define roles and responsibilities, establish realistic schedules, and clearly identify project milestones and goals. Ms. Dhulashia, as QA/QC leader, will maintain procedures to control and verify project scope and performance, and ensure that the project team meets project-specific criteria and requirements of regulatory agencies.

The following specifics will also be monitored:

- **Document Control** - Stantec uses an electronic document records management system that tracks all documents, including non-electronic documents, by project.
- **Subcontracting** - Stantec requires its subcontractors to identify and plan the production processes that directly affect quality and to perform these processes under controlled conditions.
- **Inspection and Verification/Testing** - Stantec documents results for receiving incoming products, work in process, and final inspection of outgoing documents.
- **Inspection and Verification Status** - Only work that has passed required inspections/verifications is accepted.
- **Nonconformance** - Stantec maintains procedures to correct nonconforming work so such work is not inadvertently used or installed.
- **Corrective Action** - Includes procedures for investigating the cause of nonconforming work, the corrective action to prevent recurrence, and methods of analysis to detect and eliminate potential causes of nonconforming work.
- **Training** - Stantec identifies training needs and provides the training for all technical and professional personnel performing activities that affect quality.

QA/QC efforts should also establish strategies for continued improvement in areas of production, scheduling, and multidisciplinary coordination. To that end, Stantec has developed a post-project evaluation summary process to assist the project manager in evaluating the positive and negative performance results of the project.

Schedule Control

We understand how critical schedules are. Maintaining a project on schedule begins with understanding the key issues that drive it and developing contingency plans to control it. The primary purpose of the project schedule is to provide a full accounting of all relevant activities and phases as well as the proper sequencing of project related events such that the project is delivered on schedule. A more detailed discussion of the importance on scheduling is included herein.

Budget Control

Cost estimating remains a critical part of our design process and cost control methodology. Stantec will develop all costs within the defined goals using constructability analysis, value engineering, budget constraints, and scheduling to achieve those goals. Generally, we produce these cost estimates during the course of the design. During all phases of the project, Stantec will review the construction cost estimates and refine the design to maintain the project on-budget and on-time. One of the factors that has positively influenced our cost estimating abilities is the fact that Stantec has worked on varied projects and has recent cost estimates that can be used as a reference. Stantec also has access to general contractors that have also worked on similar projects that can provide cost estimates that are current and realistic. Working with contractors on a daily basis during design development gives us a different perspective from most design firms and we utilize value engineered cost savings in our everyday design approach.



Our experience with municipal clients has shown that our success in project cost control is based on early review and estimating of the proposed scope prior to commencement of design work. This allows both the designers and client the opportunity to adjust budgets and / or establish alternatives to protect the base budget for the project. Likewise, we have learned and counsel our clients to include in their estimates an agreed upon contingency based on other related project experience in order to minimize the impact of unforeseen conditions (i.e. hurricane delays and associated general conditions costs). If success is the ability to meet expectations, then Stantec, with its ongoing approach to cost control before and during design, means to exceed it.

Furthermore, Stantec employs various methods during the planning and conceptual phase to accommodate the City's scheduling and budgetary constraints. One approach used in the past is to phase the project so that site clearing and grubbing and building pad construction could take place simultaneously with the preparation of construction drawings and subsequent permitting. This substantially shortened the overall duration of construction for the project. Another successful strategy used by the firm is to design a building that would allow for a future program that could not be accommodated within the current budget. The project was constructed in a manner which will easily provide for future expansion as desired by City. Another approach is to design the project in phases using alternates, thereby allowing the City to "buy out" the alternates as funds become available. These are just a few examples of the "outside of the box" creative thinking that Stantec is proud to contribute to the design process.

Project Organization

Stantec has assembled a team with the skills, vision, experience, and resources to provide the City of Pompano Beach with the highest level of professional services in consultation, design, permitting, and construction administration for infrastructure improvement. Mr. Terrance N. Glunt, P.E., will serve as the contract manager for this contract. He will have signing authority on behalf of the firm and dedicate the proper resources to ensure that there is the most experienced team assembled for the task. Working with him, Mr. Jeffrey Crews, P.E. will act as the senior project manager for nearly all tasks involved under this contract. Jeff will function as the overall task manager for almost all tasks except possibly those involving critical specialty work, and even then, Jeff will stay involved in the management level. Tery and Jeff have over 60 years combined experience in the tri-County area, and both have worked on all Stantec projects with the City of Pompano Beach.

The proposed professionals will have immediate access to the depth of knowledge and resources of all firms comprising the Stantec team. This, in addition to the team's prior Pompano Beach project experience, will provide a high level of service and other benefits evident during project planning, permitting, and design aspects of all projects. Through effective project management, the Stantec team expects the completion of all projects within time and budget constraints. The proposed team will produce and deliver quality engineering plans, specifications, and contract documents while maintaining clear communication to meet or exceed all of the Pompano Beach requirements. See our organization chart and 5 resumes included in this submittal.

Customized Project Team

Task order management has always been one of Stantec's main priorities and the reason we have been successful on so many continuing services contracts. Understanding that all projects vary in size and complexity, we have developed an efficient project management philosophy that addresses all of the nuances inherent in projects ranging from ranger station upgrades to pathways. The Project Manager for each task assignment will coordinate the work to maintain consistency and efficiency; share common data, concepts, and standards; and eliminate duplication of effort. The Project Managers will have the authority to schedule staff, selecting from the depth of more than 500 professionals from Stantec in Florida - giving them the ability to staff a team capable of maintaining both quality and schedule. By maintaining a close working relationship with the City, Jeffrey will have critical roles in the overall process of all tasks, whether they are small, such as electrical design or structural assessments, or more complex tasks, such as roadway design or permitting.



Stantec has selected each of the proposed team members based on their particular expertise and the service areas identified in the City's Request for Letters of Interest. Additionally, to provide continuity and consistency, Stantec has included team members who are currently working, and have previously worked, on City projects. This will result in immediate productivity and will reduce/eliminate any learning curve. For this contract, all land/site planning, design, and civil engineering services will be provided by Stantec professionals.

Overload Management

Stantec is immediately available and committed to the successful execution and delivery of any task issued under this contract. It is imperative for Stantec to demonstrate to the City that it will respond rapidly, provide ample personnel and resources, perform in a technically competent manner, and maintain complete project integrity, including services that are on time and within budget. One of the key points to our success is the ability to pull experienced resources from any of our 16 Florida offices. Stantec's approach to satisfying overload scenarios is multifaceted. It starts with a focused, experienced, and available project team backed by a strong corporate work force of several hundred professionals. Should a situation arise in which additional personnel are required, Stantec and its subconsultants are committed to responding accordingly with additional personnel and resources. Again, the proposed project team will devote its time to this project on a first-priority basis.



3. Schedule

Schedule Controls

Stantec recognizes the importance of developing and meeting schedules and budgets, especially with task order driven projects under CSA contracts. In developing schedules and budgets that are practical and can be maintained to the benefit of its clients, Stantec considers several key factors:

- The development of realistic timeframes with adequate review time for the client and regulatory agencies.
- Adequate in-house QA / QC time for phase submittals.
- Weekly production team meetings to prioritize workloads.
- Building in “float” at key tasks for added discussion or, as necessary, additional research to allow the project team to resolve all issues without falling behind schedule; if no float is needed, tasks can be completed early.
- Maintenance and updates to a Critical Path Project Schedule, presented at regular progress meetings with City staff to keep them informed of important budgeting and scheduling milestones.

At the outset of each project, Stantec’s Project Manager will develop a resource-based Critical Path Schedule and project payout curve as part of our Project Management Plan (PMP). Schedule progress will be monitored at bi-weekly project meetings with key personnel. Schedule updates will also be made anytime scope changes or critical factors occur. Closely monitoring the project schedule allows Stantec’s Project Manager to make informed decisions regarding resource needs. Should conditions warrant, the Project Manager will have the company’s full breadth of resources available to keep or get projects back on schedule.

Our staff is well versed in various schedule management tools including Prima Vera, Microsoft Project and eBuilder Schedule Tracker. But these tools are only valuable if used correctly with accurate input data using a well thought out critical path with achievable milestone dates for deliverables. Our experience with task order management and multiple project contracts has instilled in our team an ability to predict production and permitting efforts with high degrees of accuracy. Typically, we will build in float for most tasks to account for unforeseen issues that arise during the plan development and permitting phases. This allows for delivery on time and on target for most projects.

Occasionally, the City might require a project to be “fast tracked” due to constraints on their end. That is the case with many utility and storm water projects because of the potential for severe impact to the public and the delivery time to finished product. In that scenario, we shall develop a schedule backwards starting on the back end at the final deliverable date (advertisement and bid) that allows the contractor to proceed with construction and intersperse the individual intermediate task deliverable dates that will need to be met to ensure that the final package can be delivered on time. Usually, plan production is not the main factor that prohibits fast tracking of projects. The main issues that negatively impact schedules are as follows:

- Procuring the PO and NTP as soon as possible.
- Inadequate or undefined scope of services.
- Securing field data as fast as physically possible, including geotechnical and survey data.
- Lack of UG utility locates.
- No pre-submittal meeting with permitting agencies.
- Underestimating permit review and not responding to RAI’s promptly.
- Underestimating the City approval process with regard to the AAC, DRC and P&Z board approvals
- Untimely response time for review of plans by City staff, including AAC, DRC and P&Z boards.
- Inadequate internal QC of Plans leaving too many errors and typos.

There are more issues that can specifically hinder schedules, but the aforementioned are ones that we have identified over the years as being the most impactful. This can be especially true of the AAC, DRC and P&Z approval processes. The AAC meets every two weeks so that is a plus as long as we get submitted prior to the cutoffs for inclusion on the meeting agendas. However, the DRC and P&Z boards only meet once a month and failure to meet the submittal date for those can be extremely costly to the schedule. Plus, we recognize that the AAC approval must be met in order to even gain approval from P&Z. By meeting the City board schedules and eliminating the other aforementioned impacts, we

can help the City streamline the project and meet milestone deliverables that normally would not be considered achievable.

Specifically, our Stantec team has direct experience in the types of projects identified in the Scope of Services for the City of Pompano Beach Parks RFQ. It is customary for all of our task order driven projects to be accompanied by a Gantt Chart Schedule complete with CPM elements and an estimate of City staff review time.

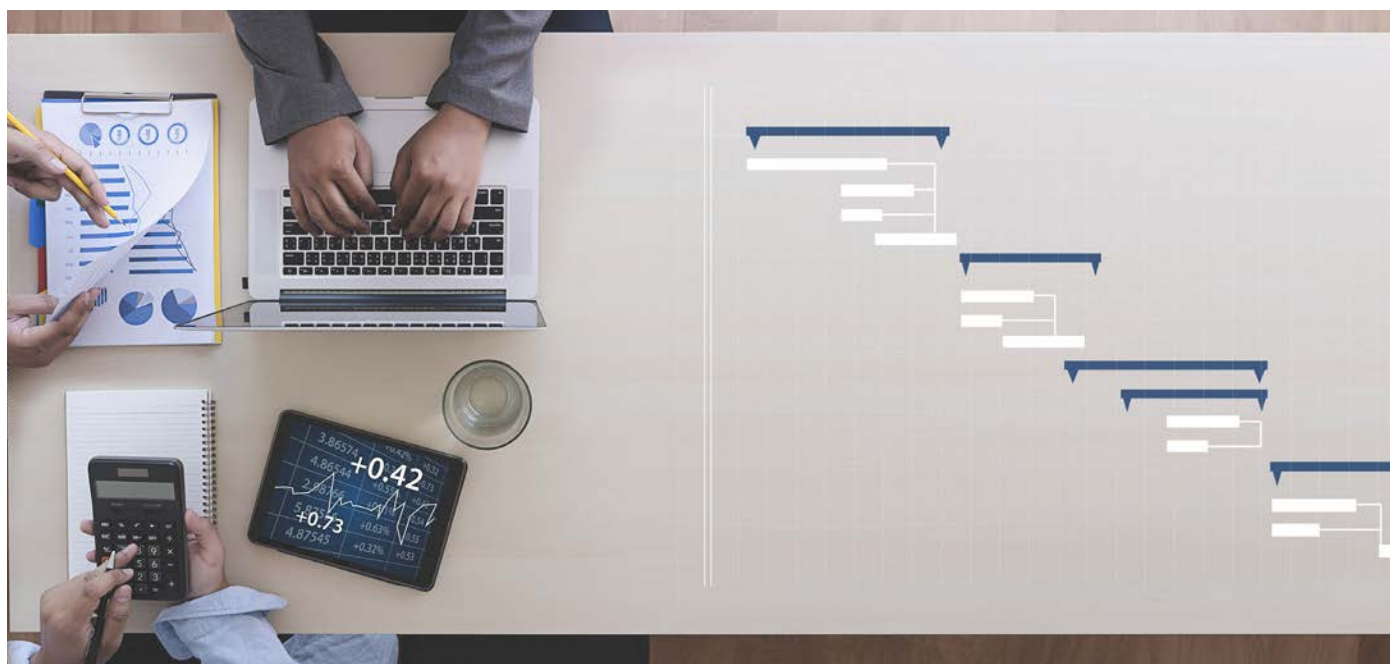
Ability to Meet Time Requirements

Stantec stands ready to proceed quickly on any project provided to us by the City. Considering our experience and familiarity with projects of this type, we believe we are in a position to move quickly on any set of projects for which we are selected. Stantec's planning, programming, and design process is structured with particular attention to cost & time management and budget control to guarantee the budget and time allocation for each project. We hold an ISO 9001 Quality Management certification. To meet this certification, all projects are subject to our 9-point project management framework.

Maintaining a project on schedule begins with understanding the key issues that drive it and developing contingency plans to control it. The primary purpose of the project schedule is to provide a full accounting of all relevant activities and phases as well as the proper sequencing of project related events such that the project is delivered on schedule. We feel confident we can meet the City's project schedules because of our varied background in this kind of work. Following are some of the ways we propose to control the project schedule by addressing the issues noted previously:

- Accelerate all non-critical path activities to compensate for unforeseen delays later on
- Meet with City staff, public officials, and key community members ahead of time for consensus on key project issues
- Develop a Pro-active Project Management Plan (PMP)
- Develop a clear understanding of Scope of Services to ensure the schedule is created correctly from the start
- Coordinate with the permitting agencies early, parallel to design development

We believe that the Stantec Team has the experience and knowledge in planning and designing public and private projects that no other firm can match. We are confident that we can successfully fulfill and execute the requirements of this contract and meet the City's expectation for budget and schedule.



Methods to Expedite Schedule

There are always a number of items that will need to be worked through in advance that can affect the schedule of any project, especially smaller task order type projects where there may be more stakeholders than traditional roadway or building projects:

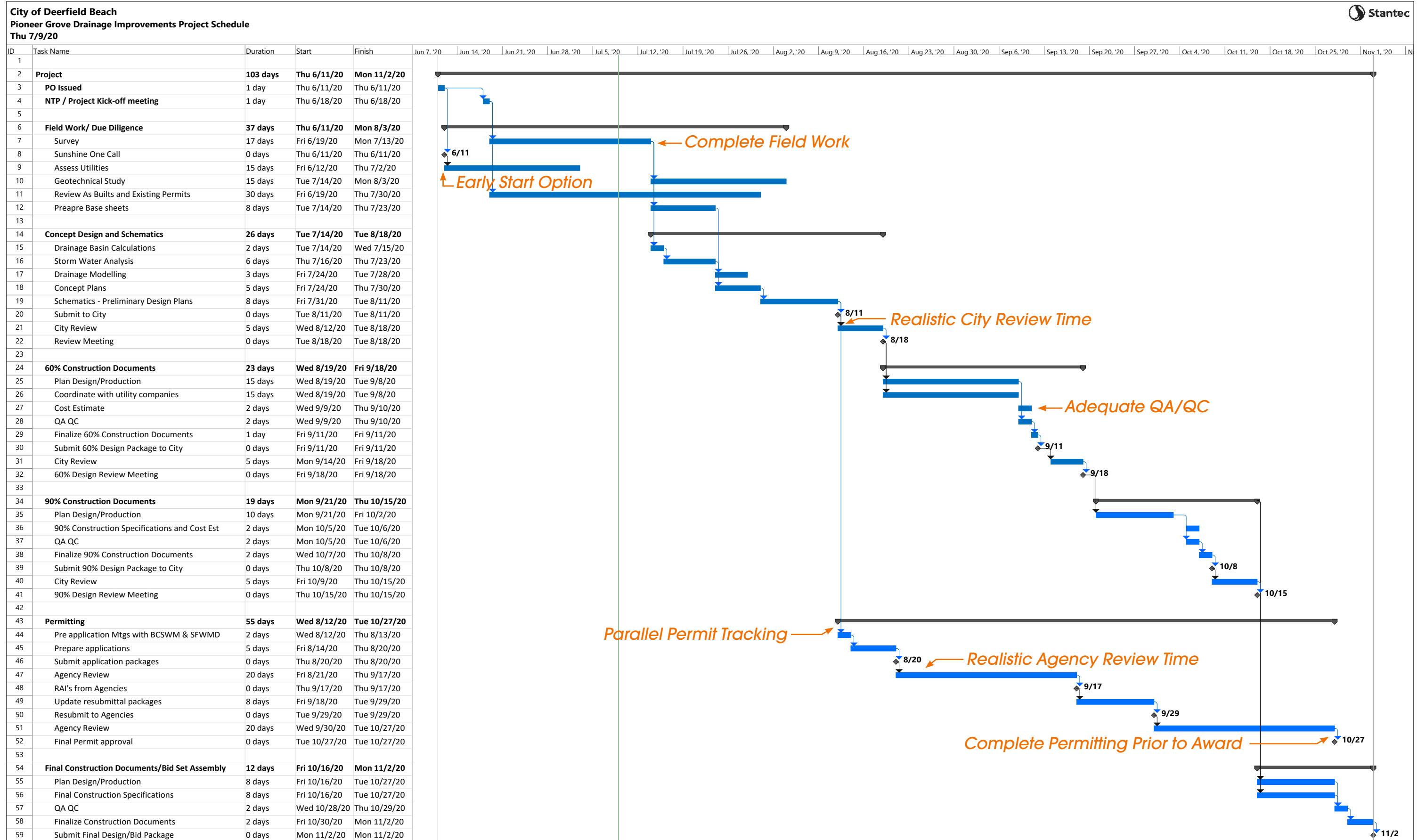
- **Data collection** – This is one of the most important portions of a project that requires great diligence, forethought and coordination. We understand that surveys of the various city properties and R/W might already exist. But it is unclear to us at this point in time whether additional survey will be required of us for each requested task order assignment. Whether a survey needs to be done by us or delivered to us in electronic format will affect how quickly the project can get started. Either way, we are prepared to engage our surveyor and expedite as needed or assist the City in developing the scope for them to contract with an independent surveyor under separate contract. Getting the surveyor on board during the proposal phase will allow them to schedule their field crews to start on day one after receiving a Notice To Proceed. Likewise, it is also probable that a geotechnical investigation will need to be performed as well to handle drainage and pavement design. Finally, procuring as-builts and performing subsequent UG locates to verify the existing underground utilities will also need to be performed. All of this affects the Due Diligence phase and can be streamlined with a little coordination and effort.
- **Permitting** – We will meet with the permitting agencies (BCEPGM, SFWMD, BCHD, BCSWM, FDEP and/or the City BD and Engineering) to address the specific needs for any and all permitting. The response we receive will determine how quickly the project can progress. If the agencies insist that we go through extensive submittal and review procedures, then the project timeline will need to reflect those review periods that are outside of our control. However, by initiating pre-application meetings with the agencies, a lot of the review period is reduced.
- **Material Selection** – There are some complexities in working with any open-ended government specifications that will allow for competitive bidding among vendors and manufacturers. This happens rarely with roadway and drainage improvement projects. However, especially with marine, coastal, parks and CRA projects, if the City knows which products and materials that they want to purchase and install, it streamlines the design process to be specific to the selected materials, especially with direct purchases by the City to save on tax and markup.
- **Project Delivery** – This is usually one of the triggers in affecting any schedule, and that depends on whether the project will go through the traditional design-bid-build format or whether or not the City intends to have a CM at Risk or JOC contractor on board, and further if the City desires to use a design-build format for delivery. We have experience with all of these and can assist the City in expediting the process.
- **City Progress Meetings** – We understand that there will always be a need to work with the City throughout the design process for any project. In fact, we highly recommend establishing progress meetings in advance based on the approved milestone deliverable schedule agreed upon by all parties. Any disruption to that schedule of meetings may impact the ultimate approval of project submittals.

Schedule Versus Budget

Budget also plays an integral part of delivering a project on schedule because designing any project that exceeds the client's budget requires extensive redesign to meet the original goals. Therefore, cost estimating remains a critical part of both our design and permitting process. This function will be a joint effort by the City and the Consultant to ensure that any redesign is minimized and does not affect the schedule. This function will be established in the CPM schedule as a deliverable so that cost estimating is established at the start of the project. Cost control should be achieved by adopting a predictive cost planning approach by the team. During all DD and CD phases of the project, Stantec will review the cost estimates and meet with the City to refine the design to maintain the project on-budget and on-time.

Typical CPM schedules from similar projects are included herein to illustrate our firm's knowledge of scheduling and commitment to expediting each and every project we work on. One is a simple schedule while the other illustrates a schedule with more complex considerations.

Pioneer Grove Drainage Improvements Project



4. References



Tamarac Multiple Buffer Walls

Tamarac, Florida

Contact:

John Doherty, Assistant Public
Works Director
City of Tamarac

(954) 597-3706

John.Doherty@tamarac.org

Our company was contracted by the City of Tamarac to design and permit a multi-phase precast concrete buffer wall project at various locations within the City. The wall location and configuration varied from one location to another and a concept design was developed in accordance to City of Tamarac Major Arterial corridor study.

The scope of work consisted of approximately 12,000 LF of 6' height pre-cast concrete wall constructed at different locations within the City's major corridors. Some of the locations are located within the City's frontage road and others are within recently acquired easements. Our scope of services also included permitting through state and local agencies such as FDOT R/W office and Broward County Traffic engineering permit. In addition, landscape, electrical and utility coordination with different utility providers was also required and included in our scope of services.

Project Cost: \$7,000,000



Flamingo West Park

Cooper City, Florida

Contact:

Denise Yoezle, Public Works
Director
Cooper City

(954) 434-2300

DYoezle@coopercityfl.org

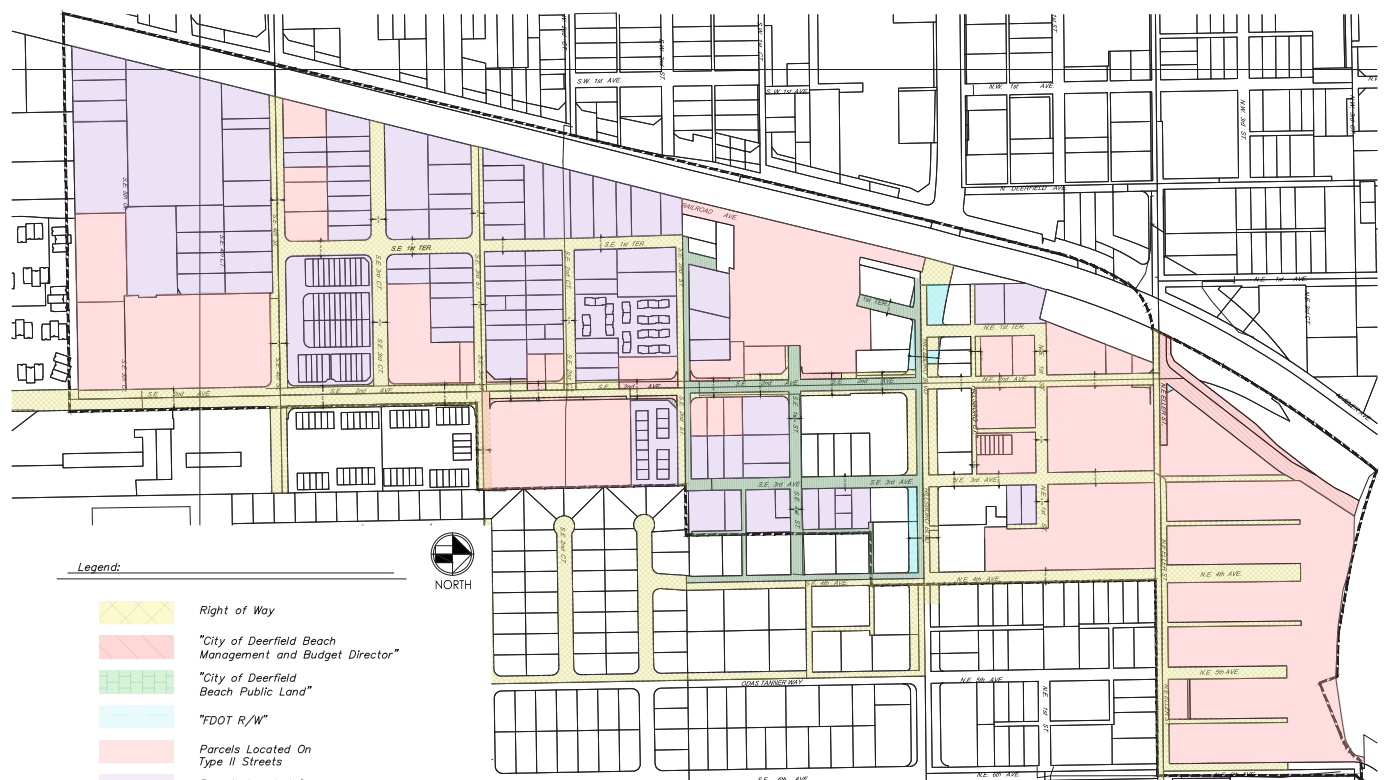
Stantec created some much-needed green space in Cooper City with soccer fields, pathways, and a fishing dock.

Flamingo West Park is a new, 15-acre sports complex for Cooper City, Florida. Stantec, as Prime Consultant, was in charge for the master planning and development of this regional soccer park in western Broward County.

The scope of the project included four artificial turf soccer fields with a supporting restroom and concession building; and a passive park including a pathway and picnic facilities surrounding a lake and wetlands mitigation area complete with fishing dock. The park also includes a playground, picnic pavilions, maintenance building, parking, bleachers and exercise equipment.

Stantec performed planning and programming services in producing the master plan for the project. Stantec further developed the master plan to perform Civil Engineering and Architectural Services for the project.

Project Cost: \$9,100,000



Pioneer Grove LAC Infrastructure Assessment

Deerfield Beach, Florida

Contact:
Thomas Good, Assistant City
Manager
City of Deerfield Beach

(954) 480-4400

tgood@deerfield-beach.com

As part of the overall Pioneer Grove redevelopment, the City of Deerfield Beach requested that Stantec provide an infrastructure assessment and study of the Pioneer Grove area to determine the existing condition of all utilities including water, sewer, storm water, power, gas and telecommunications. As part of the overall study, we developed a macro-plan to identify possible upgrades to each system to allow the City to move forward with a plan for the redevelopment that would provide incentives for businesses and developers to take advantage of improved infrastructure for their development.

Also included was a evaluation of the existing street rights of way and easements to help the City develop the new Code of Ordinances for the LAC redevelopment district. The incentive here was to create a zoning that allowed reduced setbacks and promote development of a more modern, mixed use urban environment. Opinions of Probable Costs (OPC) were to be included in the report for all improvements and upgrades to utilities recommended in the study. The City utilized the results of the study to develop their 5 and 10 year work programs to provide for the infrastructure improvements outlined therein.

Project Cost: \$30,000 (professional fees)



Coral Springs Annual Asphalt Resurfacing Program

Coral Springs, Florida

Contact:

Najla Zerrouki, PE, City Engineer
Public Works Utilities and
Engineering Division
City of Coral Springs

(954) 345-2188

nzerrouki@coralsprings.org

Stantec was selected for three consecutive years to provide program management services for the City's Annual Asphalt Paving Program. Duties included plan production, permitting and construction administration services. Plans were developed for the rehabilitation of the Pine Ridge neighborhood streets which had not been paved for over 15 years. An assessment of the existing roadway was used to identify the streets requiring resurfacing and the proper mix and thickness of asphalt to be used.

We developed the scope of services for the bid and the specifications for construction. Permitting services were required for the pavement markings through the Broward County Traffic Engineering Department. Construction oversight was performed to ensure proper quality control and to certify payment to the contractor. The project required coordination with the Pine Ridge HOA to reduce impacts to the neighborhood and to provide adequate safe MOT throughout the paving operations.

Project Cost: \$685,000 - \$825,000



Waterway Park

Palm Beach County, Florida

Contact:

Bob Hamilton, Director of Park
Development
Palm Beach County Parks &
Recreation Department

(561) 966-6600

rhamilton@pbcgov.org

Our company was selected to provide planning, design and permitting services for this 15 acre park in NE Palm Beach County on the Intracoastal Waterway. The park facility included a boat ramp and parking for 60 vehicles with boat trailers, boardwalk and fishing docks, floating dock staging piers, seawall and erosion measures, a restroom building, environmental educational kiosks, roadway and utility infrastructure, and mitigation areas for mangrove, seagrasses and gopher tortoise habitat.

The project had access issues with adjacent properties and required the design and permitting for a dedicated entrance via FDOT turn lane off of Indiantown Road. Legal requirements necessitated a re-plot of the properties as well as some land transactions between the client and the adjacent property owners. Environmental permitting included a full ERP permit through South Florida Water Management District, Florida Department of Environmental Protection and the Army Corps of Engineers, along with Coast Guard and FIND approvals. Other permits included site plan approval through Palm Beach County and the Town of Jupiter, ERM tree removal and relocation permits, utility permits for water and sewer and FDOT permit for the turn lane. Critical to the project was the coordination with the adjacent property owners HOA who had to approve the project prior to design because of joint access issues.

Project Cost: \$5,200,000

Project Performed for the City of Pompano Beach

We have provided a variety of projects over the years for the City of Pompano Beach:

- Community Park Aquatic Center
- Mitchell Moore Park Aquatic Center
- Drainage Basin 4-1 and 4-2 Storm Water Improvements
- Pompano Beach Utility Services Complex DCP
- Blanche Ely High School Athletic Complex DCP
- Alsdorf Park Boat Ramp Improvements
- Alsdorf Park Parking Expansion
- Hunters Manor Park (Civil Design Services)
- Community Park Tennis/Volleyball Impr. (D/B)
- Highlands Park Improvements (D/B Civil)
- North Broward Park Improvements (D/B Civil)



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

Federal I.D.# 11-2167170

PRIME

Role	Name of Individual Assigned to Project	Number of Years Experience	Education, Degrees
Principal-In-Charge	<u>Ramon Castella, PE, ENV SP, LEED AP</u>	<u>33</u>	<u>BSCE</u>
Project Manager	<u>Terrance Glunt, PE, LEED AP</u>	<u>43</u>	<u>BSCE</u>
Asst. Project Manager	<u>Jeffrey Crews, PE, LEED AP</u>	<u>32</u>	<u>BSCE</u>
Other Key Member	<u>Sangeeta Dhulashia, PE, PMP (QA/QC)</u>	<u>37</u>	<u>MS/BSCE</u>
Other Key Member	<u></u>	<u></u>	<u></u>

SUB-CONSULTANT

Role	Company Name and Address of Office Handling This Project	Name of Individual Assigned to the Project
Surveying	<u>Craig A. Smith & Associates 277 Goolsby Blvd., Unit 4C Deerfield Beach, FL 33442</u>	<u>Robert D. Keener, PSM</u>
Landscaping	<u></u>	<u></u>
Engineering	<u>Keith & Associates 301 East Atlantic Boulevard Pompano Beach, FL 33060</u>	<u>Alex Lazowick, PE, PMP</u>
Other Key Member	<u>Radise International (Geotechnical) 4152 W Blue Heron Boulevard, Suite 1114 Riviera Beach, FL 33404</u>	<u>Tom Mullin, PE</u>
Other Key Member	<u></u>	<u></u>
Other Key Member	<u></u>	<u></u>

(use attachments if necessary)

OTHER KEY MEMBERS:

Name of Individual Assigned to Project	# of Years Experience	Education, Degrees
Shehab Bata, PE, Civil/Stormwater Engineering	14	BSCE
Carlos Herdocia, PE, Civil/Stormwater Engineering	32	BSCE
Eduardo Lopez, Civil/Stormwater Engineering	32	BS Env. Tech/BSCE
Brian LaMay, PE, Water/Wastewater/Force Mains/Lift Stations	21	BSCE
Marlon Medina, PE, CFM, Water/Wastewater/Force Mains/Lift Stations	12	BSCE
Dave Clarke, PE, CFM, Water/Wastewater/Force Mains/Lift Stations	18	MS/BSCE
Chris Benitez, PE, PTOE, RSP, Roadways/Traffic Engineering	13	BSCE
Patrick Leung, PE, Roadways/Traffic Engineering	36	BSCE/BSArch/AS
Matthew Crim, PE, PTOE, Roadways/Traffic Engineering	15	MS/BSCE
Sean Compel, PE, ENV SP, LEED AP, CEI/Emergency Response	18	BSCE
Juan Bolivar, PE, PMP, CEI/Emergency Response	18	MPM/MS/BSCE
Fernando Vargas, CEI/Emergency Response	14	N/A
Kevin Mangan, PLA, ASLA, Streetscape/Parks & Recreation	35	BSLA/AA
Scott Buttari, PLA, ASLA, Streetscape/Parks & Recreation	21	BSLA
Adam Markle, ASLA, LEED AP, Streetscape/Parks & Recreation	15	BSLA
Matthew Starr, PG, Coastal/Marine Engineering (Dredging)	27	MS/BSLA
Nicole Carter, MS, Coastal/Marine Engineering (Permitting)	22	MS/BS Marine Bio.
Todd DeMunda, PE, Coastal/Marine Engineering (Dredging & Coastal Studies)	15	MS Coastal Eng./ BS Ocean Eng.

6. Organizational Chart, Availability & Workload

6. Organizational Chart, Availability & Workload

At Stantec, we work together to discover creative solutions for every project. Through years of experience, we've developed a proven process that guides us through challenging project issues and helps us establish clear communication lines for maintaining schedules and budgets. At the same time, our methods remain flexible to meet specific community needs. Each solution we propose endeavors to further enhance a community's personality and needs.

Augmenting our team, we have included the following subconsultants:



KEITH, a local Pompano Beach firm, was incorporated as a Florida corporation in 1998 to provide civil engineering, traffic engineering, surveying and mapping, subsurface utility engineering, planning, landscape architecture, construction management and virtual design and construction services. The firm was founded on the principal of achieving success by combining the latest technology with client oriented business practices, and a staff of experienced and talented professionals.

Their surveying services include boundary, topographic, control, wetland, mitigation, route, aviation, bathymetric, Mobile LiDAR, GIS, GPS, as-built, American Land Title and coastal surveys, legal descriptions, right-of-way mapping, design base sheets, title review, DTMs, differential leveling, construction stakeout, platting, expert witness surveying, and mapping services. The firm maintains eight full-time field crews to provide for clients on an as-needed basis. Their entire field staff has received Maintenance of Traffic (M.O.T.) Safety Training currently required by the Florida Department of Transportation for work within public roadways. KEITH is also in full compliance with the current School Board Security Clearance Policies of finger printing and successful background checks in accordance with the State of Florida Jessica Lunsford Act for school access by workforce personnel. They understand the importance of these security requirements and are in 100% compliance for the safety of our staff and the public. Additionally, their Landscape Architecture Department specializes in the creative fusion of architecture, landscape architecture and the environment. Their team has provided innovative designs for institutional and commercial projects, residential and mixed-use developments, streetscape and roadway beautification, active and passive parks, plazas and various urban redevelopments. Regardless of the scope of the project, they pay special attention to architectural and landscape detail and welcome every opportunity to improve the environment.

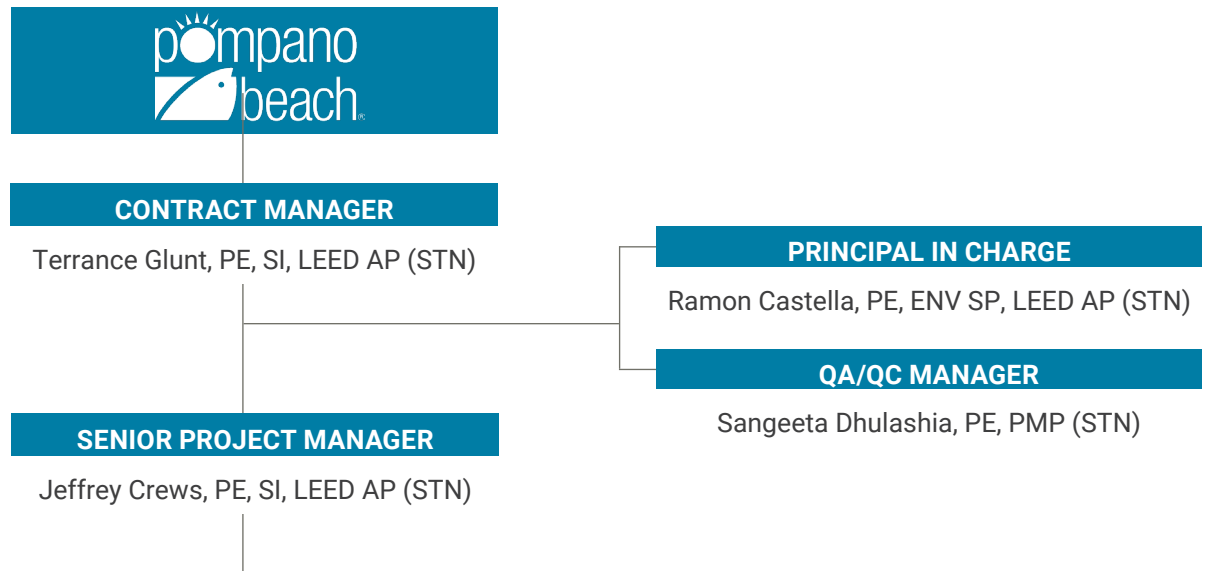


Craig A. Smith and Associates, Inc. (CAS) is a Florida Corporation licensed for the practice of Professional Engineering, Surveying, Utility Locates Services and Construction Management. CAS is a local Palm Beach County firm with corporate headquarters located in Boca Raton and branch offices in Broward and Dade County. 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 engineering providing utility mapping, electromagnetic designating (EMD), 2D radar 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 irregardless 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.



RADISE International, LC (RADISE) is a premier geotechnical and materials engineering and testing firm servicing a broad spectrum of industries, and specializing in geotechnical engineering, construction materials testing, and inspection services for over 22 years. RADISE has extensive experience providing professional engineering services throughout South Florida and has continuing Geotechnical Engineering Services and Material Testing contracts with Broward, Palm Beach and Miami Dade Counties, South Florida Water Management District, Florida Department of Transportation, The School Boards of Palm Beach, Broward and Miami Dade Counties, and the Cities of West Palm Beach, Lake Worth, Greenacres, Fort Lauderdale and Miami Beach. 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.

This Stantec team showcased below is ready to work with and for you. We're excited to share the knowledge, creativity and solutions from our community and are confident in our ability to positively impact the City of Pompano Beach.



<p><u>CIVIL/STORMWATER ENGINEERING</u></p> <p>Jeffrey Crews, PE, LEED AP (STN) Shehab Bata, PE (STN) Carlos Herdocia, PE, LEED AP (STN) Eduardo Lopez (STN) Alex Lazowick, PE, PMP (K&A)</p>	<p><u>ROADWAYS/TRAFFIC ENGINEERING</u></p> <p>Christopher Benitez, PE, PTOE (STN) Patrick Leung, PE (STN) Matthew Crim, PE, PTOE (STN)</p> <p><u>CEI/EMERGENCY RESPONSE</u></p> <p>Sean Compel, PE, ENV SP LEED AP (STN) Juan Bolivar, PE, PMP, LEED AP (STN) Fernando Vargas (STN)</p>	<p><u>STREETScape/PARKS & RECREATION</u></p> <p>Sean Compel, PE, ENV SP LEED AP (STN) Kevin Mangan, PLA, ASLA (STN) Scott Buttari, PLA (STN) Adam Markle, ASLA, LEED AP (STN) Kelli Schueler, PLA, LEED AP (K&A) Paul Weinberg, PLA, ASLA (K&A)</p>
<p><u>WATER/WASTEWATER/ FORCE MAINS/LIFT STATIONS</u></p> <p>Brian LaMay, PE (STN) Marlon Medina, PE, CFM (STN) Dave Clarke, PE, CFM (STN)</p>	<p><u>SURVEY/SUE</u></p> <p>Robert D. Keener, PSM (CAS) James F. Driscoll (CAS) Michael Mossey, PSM (K&A)</p>	<p><u>COASTAL/MARINE ENGINEERING</u></p> <p>Terrance Glunt, PE, LEED AP (STN) <i>(Seawalls/Docks)</i> Matthew Starr, PG (STN) <i>(Dredging)</i> Nicole Carter, MS (STN) <i>(Permitting)</i> Todd DeMunda, PE (STN) <i>(Dredging & Coastal Studies)</i></p>
<p><u>GEOTECHNICAL ENGINEERING</u></p> <p>Tom Mullin, PE (RI) Andrew Nixon, PE (RI) Akash Bissoon, PE (RI)</p>		

Project Team

- STN:** Stantec Consulting Services Inc.
- K&A:** Keith & Associates, Inc.
- CAS:** Craig A. Smith & Associates, Inc.
- RI:** Radise International, L.C.

6. Organizational Chart, Availability & Workload

Name	Role	% Available
Terrance Glunt, PE, LEED AP	Contract Manager	25%
Jeffrey Crews, PE, LEED AP	Senior Project Manager	40%
Ramon Castella, PE, ENV SP, LEED AP	Principal in Charge	15%
Sangeeta Dhulashia, PE, PMP	QA/QC Manager	15%
Shehab Bata, PE	Civil/Stormwater Engineer	50%
Carlos Herdocia, PE, LEED AP	Civil/Stormwater Engineer	40%
Eduardo Lopez	Civil/Stormwater Engineer	25%
Brian LaMay, PE	Water/Wastewater/FM/LS Engineer	25%
Marlon Medina, PE, CFM	Water/Wastewater/FM/LS Engineer	25%
Dave Clarke, PE, CFM	Water/Wastewater/FM/LS Engineer	25%
Chris Benitez, PE, PTOE, RSP	Roadways/Traffic Engineer	30%
Patrick Leung, PE	Roadways/Traffic Engineer	20%
Matthew Crim, PE, PTOE	Roadways/Traffic Engineer	25%
Sean Compel, PE, ENV SP, LEED AP	CEI/Emergency Response Engineer	30%
Juan Bolivar, PE, PMP	CEI/Emergency Response Engineer	25%
Fernando Vargas	CEI/Emergency Response Inspector	100%
Kevin Mangan PLA, ASLA	Streetscape/Parks Landscape Architect	30%
Scott Buttari, PLA, ASLA	Streetscape/Parks Landscape Architect	25%
Adam Markle, ASLA, LEED AP	Streetscape/Parks Landscape Architect	30%
Matthew Starr PG	Coastal/Marine Engineer	25%
Nicole Carter, MS	Coastal/Marine Permitting	20%
Todd DeMunda, PE	Coastal/Marine Engineer	25%
Alex Lazowick, PE, PMP (Keith)	Civil/Stormwater Engineer	15%
Michael Mossey, PSM (Keith)	Surveyor	20%
Kelli Schueler, PLA, LEED AP (Keith)	Streetscape/Parks Landscape Architect	30%
Paul Weinberg, PLA, ASLA (Keith)	Streetscape/Parks Landscape Architect	30%
Tom Mullin, PE (Radise)	Geotechnical Engineer	30%
Andrew Nixon, PE (Radise)	Geotechnical Engineer	30%
Akash Bissoon, PE (Radise)	Geotechnical Engineer	30%
Robert D. Keener, PSM (CAS)	SUE/Surveyor	50%
James Driscoll (CAS)	SUE/Surveyor	50%

Current Workload and Our Ability to Handle the Scope of Services

Stantec is a financially strong company that continues to grow and expand in responsible ways to improve our service packages and benefit our clients. Stantec's philosophy is to maintain a healthy backlog of work while carefully evaluating and pursuing new work. We pursue projects that correspond to our areas of expertise and we schedule staff accordingly to allow for success on each project. This is especially true of our local offices that specialize in Continuing Services contracts that rely on periodic task work orders to maintain workload and facilitate growth.

We approach each contract based on discipline with revenue generated over an entire region, not by an individual office, but instead through the use of staff over multiple offices that work in the same disciplines. That will provide the City of Pompano Beach with the best of both worlds. The City of Pompano Beach will have direct, personal contact with our local managers and experienced staff, but will also have access to experience for unique projects that spans the entire nation.

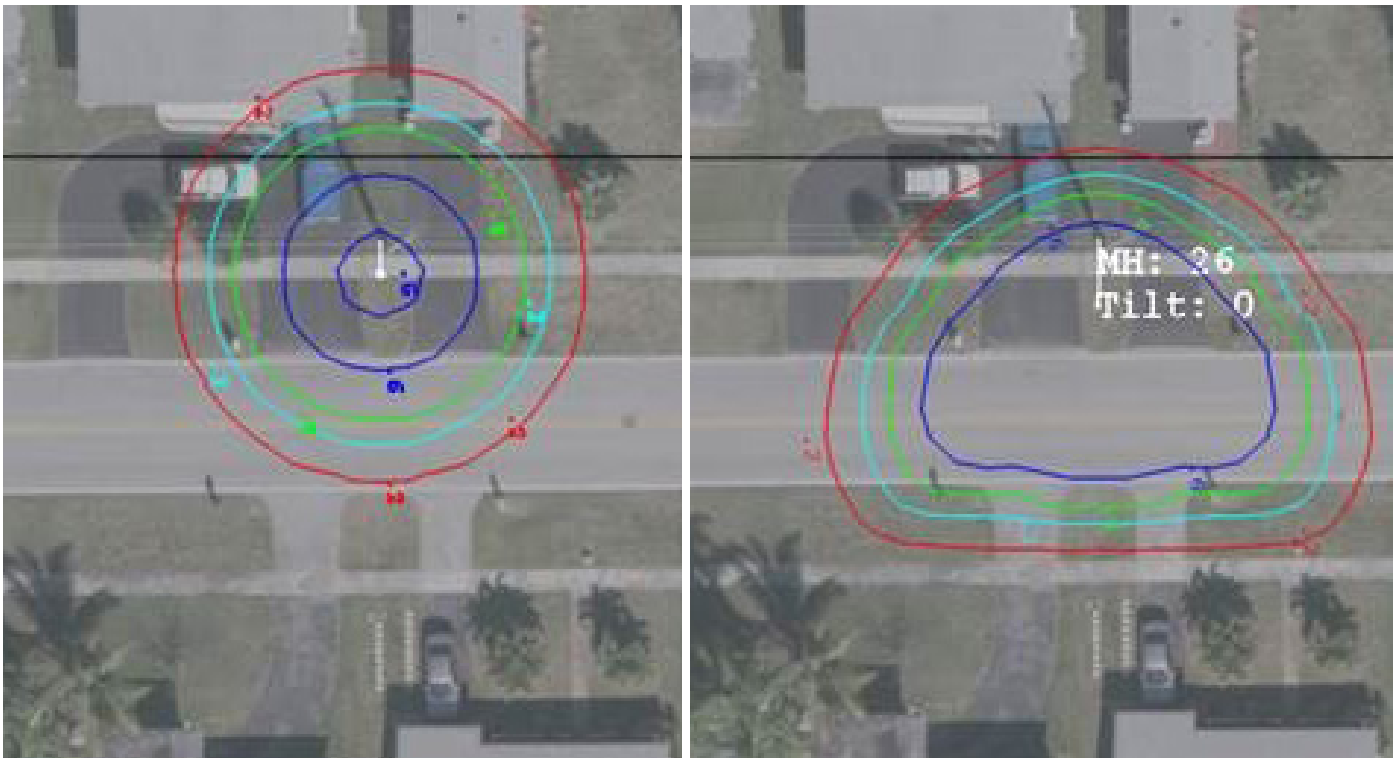
See attached list of projects completed or currently working on by staff involved with this contract. As a firm, the depth of our flexible staffing structure allows for additional personnel in each of the required disciplines to be added to the team in the event of an unexpected workload conflict. Therefore, every person on the organizational chart has multiple backup resources to handle unforeseen circumstances.

Workload	
Project Name	Location
SR7/US441 Transit Corridor Improvements	Fort Lauderdale, Florida
Washington Park Improvements	Florida City, Florida
Tamarac Canal Culverts Ph 6	Tamarac, Florida
Tamarac Buffer Walls Phase 5	Tamarac, Florida
Tamarac Buffer Walls Ph 4	Tamarac, Florida
Greymon Drive Improvements	West Palm Beach, Florida
Greenwood Avenue Improvements	West Palm Beach, Florida
City of Sunrise Maint. Boat Ramp Improvement	Sunrise, Florida
Avila Road CEI	West Palm Beach, Florida
Watermain Plan Update and Perm	Pinecrest, Florida
SR 836 SW Extension PD&E Study	Miami Dade, Florida
RTC Modeling NEPA/ Negotiation	Fort Lauderdale, Florida
South Miami Pedestrian Study	South Miami, Florida
Atlantic Blvd Feasibility Stud	Coral Springs, Florida
Franjo Park Lighting Improvements	Cutler Bay, Florida
Franjo Park Site Improvements	Cutler Bay, Florida
Kerdyk Tennis Center Phase 2 C	Coral Gables, Florida
Miami Beach Convention Center	Miami Beach, Florida
Palmetto Bay Thalatta Park	Palmetto Bay, Florida
Review of Traffic Impact Study	South Miami, Florida
Franjo Park Build Improvements	Cutler Bay, Florida
Fisher Island Slip Widening Ci	Fisher Island, Florida

6. Organizational Chart, Availability & Workload

Workload	
Project Name	Location
Fast Forward Fort Lauderdale	Fort Lauderdale, Florida
Cutler Ridge Park Field Lights	Cutler Bay, Florida
Cutler Bay Bus Shelter Post-De	Cutler Bay, Florida
CEI for 19th Street Pump Sta.	Miami, Florida
Adonel Concrete 960 Batch Plan	Miami, Florida
726-730, LLC Concrete Batch Pl	Miami, Florida
MBRC Phase II Section 2 CEI	Miami Beach, Florida
Mishcon Park Athletic Field	North Miami Beach, Florida
Palm-Hibiscus Islands RPR Ins	Miami Beach, Florida
Springtree WWTP Equip Bldg	Sunrise, Florida
University Drive Overpass Artw	Tamarac, Florida
Venetian Islands Seawalls	Miami Beach, Florida
45th St. Irrigation Service	West Palm Beach, Florida
Aquatic Facilities DCP Services	Deerfield Beach, Florida
Asphalt Surfacing Prgm 2017	Coral Springs, Florida
Copart - Homestead, FL	Homestead, Florida
John Prince Pk Boat Ramp	Lake Worth, Florida
US41/W Villages Signal Design	North Port, Florida
SA #8 Ft Hamer Rd Ext Seg C	Parrish, Florida
Jacaranda-Portapalo Tr Design	Venice, Florida
Ibis St/Graphic, GIS & Mtg	Sarasota, Florida
Cattleman Rd/Phase 2	Sarasota, Florida
C9T98 S/M Barrier Isle Traffic	Sarasota, Florida
Wellington Town Center MP	Wellington, Florida
Parking Lot P86	Miami Beach, Florida
Key West Hist Seap Seawall Repairs	Key West, Florida
Gulfstream Road - From Caribbean	Cutler Bay, Florida
West 42nd Sheridan Ave Pine D	Miami Beach, Florida
10th Street Lake Park	Key West, Florida
Alton Road & 4th Street New si	Miami Beach, Florida
Florida City Streetscape (Seg 2 & 3)	Florida City, Florida
D4 DW Minor Design Serv -C9V64	FDOT District 4
C9M21 PB Ops CEI Supp/Creative	West Palm Beach, Florida
Forest Hills Blvd. Lighting	Coral Springs, Florida

7. Statement of Skills and Experience



NW 25th Court Lighting Study Sunrise, FL

Project Description:

The City of Sunrise selected Stantec, as Prime Consultant, to perform a lighting study on NW 25th Court as part of a safety upgrade program in the area. The study was necessitated due to the recent installation of traffic calming elements. The City wanted to make sure that the lighting levels along the street supported the roadway improvements that had been incorporated into the neighborhood.

Stantec personnel performed site inspections at night to obtain current light levels and compared those to the existing design to determine how much of a potential reduction in lighting levels has occurred over the years since the system was originally installed. The City was also in the process of converting all lighting in the City to new LED fixtures so a photometric analysis was performed comparing the original design, the current condition and the proposed level of lighting once the fixtures have been converted. Based on the analysis, we determined that the proposed conversion to LED lighting will help increase the visibility in the corridor with some minor improvements in the form of installation of a few light poles coupled with some realignment of heads.

Firm's Responsibility:

Responsible for performing lighting study to support a traffic calming project. Duties included determination of existing light levels, photometric analysis, summarization of data, and recommendations for lighting upgrades.

Project Owner:

City of Sunrise
777 Sawgrass Corp.
Parkway
Sunrise, FL 33325

Completion Date:

2019

Firm's Personnel:

Tery Glunt, PE
Principal in Charge
Shehab Bata, PE
Project Engineer



Sunrise Maintenance Canal Boat Ramps

Sunrise, FL

Project Description:

The City of Sunrise retained Stantec to develop a plan for installing or replacing maintenance boat ramps at 10 different locations within the City's canal system. The purpose of the boat ramps is to be able to place small boats into the canals for cleaning and maintenance. Stantec developed the prototype boat ramp in conjunction with City staff and placed the ramp design at each location providing site specific modifications to fit the geometry. At most locations, an existing culvert headwall existed that in some cases required some modification for upgrade or structural integrity.

Other design items included, sidewalk, guardrail, access gates, stabilized grass access drives, paver brick ramp approaches and utility adjustments. Permitting included Broward County Surface Water permits, tree removal permits, City Building Dept. permits, and City Community Development Approval. Plan included structural plans, notes and details, demolition plans, typical sections, MOT plans and a Storm Water Pollution Prevention Plan for each site. Specifications were provided in CSI format complete for bid purposes. Phase 2 of the boat ramps will be designed under separate contract.

Firm's Responsibility:

Responsible for planning, engineering design, and permitting for all disciplines.

Client:

City of Sunrise
777 Sawgrass Corp.
Parkway
Sunrise, FL 33325

Completion Date:

2019

Firm's Personnel:

Tery Glunt, PE
Project Manager
Shehab Bata, PE
Project Engineer



Tamarac Canal Culvert Restoration Project

Tamarac, FL

Project Description:

The City of Tamarac hired Stantec, as Prime Consultant, to evaluate existing canal culvert crossings and develop design plans for repair of each of the culvert end walls including adjacent right of way, guardrail and sidewalk. The work was necessitated due to serious erosion around the existing culverts which resulted in undermining of sidewalk and the overall creation of an unsafe condition around the culvert end walls. Scope included topographic and bathymetric survey, geotechnical investigation, design analysis, development of construction plans, permitting, bid assistance and construction administration services. The design included aluminum sheet pile retaining walls, culvert pipe extensions, erosion control measures, guardrail installation, new sidewalk and tree removal. Permitting was performed for the City of Tamarac and Broward County.

When complete, the projects will have involved more than 40 different culvert locations throughout the City.

Firm's Responsibility:

Prime Consultant for civil, permitting, construction administration services.

Project Owner:

City of Tamarac
6011 Nob Hill Road
Tamarac, Florida 33321

Completion Date:

On-going

Firm's Personnel:

Tery Glunt, PE
Project Manager
Jeff Crews, PE
Project Engineer



Veteran's Park Canal Boat Launch Tamarac, FL

Project Description:

Stantec was contracted, as Prime Consultant, by the City of Tamarac to design and permit a new boat launch staging facility with two picnic shelters within the C-14 canal Right of Way in Tamarac, Florida. Our services consisted of providing structural and civil engineering drawings, along with obtaining a right-of-way permit from South Florida Water Management District and the Army Corps of Engineers approval. In addition to the permit and construction drawings, Stantec provided special inspection services during the concrete pile installation.

Firm's Responsibility:

Responsible for civil and structural engineering, permitting and special inspections during construction.

Project Owner:

City of Tamarac
6011 Nob Hill Road
Tamarac, Florida 33321

Completion Date:

2017

Firm's Personnel:

Tery Glunt, PE
Project Manager
Jeff Crews, PE
Project Engineer



Park Lane Phase V LAP Project

Oakland Park, FL

Project Description:

This \$1.2 million dollar LAP project consisted of street improvements for NW 38th Street (Park Lane Road) from Powerline Road to Park Lane Drive. These improvements included milling and resurfacing, widening, bike lane construction, ADA improvements, sidewalk construction, signalization, lighting installation, railroad coordination, drainage, landscaping and irrigation.

Firm's Responsibility:

Responsible for construction management/inspections.

Project Owner:

City of Oakland Park
3650 NE 12 Avenue,
Oakland Park, Florida
33334

Completion Date:

2016

Firm's Personnel:

Juan Bolivar, PE
Project Administrator



Park City Project - Pipeline and Lift Station Sunrise, FL

Project Description:

The Park City is a manufactured home community in central Davie, where water and wastewater service is provided by the City of Sunrise. The water distribution system was a concern to the City due to the old, existing back-lot, small diameter galvanized distribution system with limited fire protection coverage. System consisted of approximately 2,000 LF of small diameter galvanized and AC water mains. The project also consisted of replacement of force main and installation of new reclaim water main.

Stantec performed hydraulic modeling using Infowater software to determine pipe sizes, fire hydrant siting was performed using GIS, and Infowater was used to determine the fire flow requirement for community areas and residential areas. Stantec designed the piping layout alternatives with a recommended alternative for review and approval by the City. Once an alternative was selected a preliminary design was developed. Stantec developed technical specifications and drawings to solicit bids. The design included installation of new 4-inch, 6-inch, 8-inch, and 12-inch water main in sandy soils. The design also included installation of new meter boxes and service piping and disconnecting the existing water service to connect the new water meter and service piping.

Replacement of undersized and old AC force main piping with new 8-inch and 12-inch PVC force main piping was added to the project to avoid having to disturb the community with a separate project. The design of Park City Water Main Replacement project included keeping the existing 6-inch and 8-inch asbestos concrete potable water piping located within the right of way in service and connecting new PVC potable water piping and service connections to the existing piping.

Project Owner:

City of Sunrise
777 Sawgrass Corporate
Parkway, Sunrise, FL

Completion Date:

2015

Firm's Personnel:

Brian LaMay PE
*Engineer of Record and
Design Manager*
Sangeeta Dhulashia, PE
Project Engineer



Park City Project - Pipeline and Lift Station (continued)

Stantec provided permitting and bidding support services. Permit support was provided to get approvals from Town of Davie Engineering, City of Sunrise Engineering, Broward County Health Department, Broward County Environmental Planning and Growth Management Division, South Broward Water Control District, Broward County Traffic and Highway Engineering.

Stantec also provided engineering services during construction to include contract interpretation and clarifications, change order request review and recommendation, construction meeting attendance, examination of schedule of values, construction schedules, review of shop drawings, and submittals, attendance and presentation to stakeholder meetings. Stantec also provided inspection of the work, review and approval of payment requests, and a resident project representative. During construction inspection, the City's plumbing inspector requested that all services get upgraded to the new building code thus backflow preventer and additional provisions were supplied to meet this requirement in the field.

Firm's Responsibility:

Prime Consultant for engineering, permitting, and construction administration services.



Lift Station 3

Davie, FL

Project Description:

Lift Station 3, located in the Town of Davie, required an emergency upgrade after its skip mounted pumps failed. Stantec provided expedited design and permitting services to replace the existing pumps with an in-kind pre-packaged lift station which included a new hinged fiberglass housing and a structural steel base.

Additionally, the improvements included new suction piping, a new isolation plug valve, an emergency pump out connection, new discharge force main, and rehabilitation to the existing wet well.

Firm's Responsibility:

Prime Consultant for engineering, permitting, and construction administration services.

Project Owner:

Town of Davie
7350 SW 30th Street,
Davie, FL 33314

Completion Date:

2018

Firm's Personnel:

Sangeeta Dhulashia, PE
Principal in Charge
Marlon Medina, PE
Project Manager/Engineer of Record



Pump Station 124

Miami-Dade County, FL

Project Description:

Pump Station 124 is part of Miami Dade Water and Sewer Department's (WASD) Pump Station Improvement Program (PSIP). The program aims to bring over 112 pump stations into compliance, each pump station must be certified as meeting an established operational requirement.

Improvements to Pump Station 124 included a new 8-ft inside diameter wet well, a new valve vault with 8-inch internal discharge piping, valves and fittings, and two (2) new 30 HP pumps with an operating point of 440 gpm at 101 TDH. It also included new electrical service, a new control panel, and new Main Disconnect Switch with fuses. The site restoration included a new chain link fence and bollards. A sewer extension with one (1) new manhole was also designed to connect the existing influent manhole and influent pipe to the new wet well.

Firm's Responsibility:

Prime Consultant for engineering, permitting, and construction administration services.

Project Owner:

MD-WASD
3850 Bird Road, Suite
502, Miami, FL 33146

Completion Date:

2017

Firm's Personnel:

Sangeeta Dhulashia, PE
Principal in Charge
Marlon Medina, PE
*Project Manager/Engineer
of Record*



Hillsboro Boulevard Lane Reduction/Complete Streets Study, Deerfield Beach, FL

Project Description:

The City of Deerfield Beach selected Stantec, as Prime Consultant, to provide traffic study services to aid the City in their petition to reduce Hillsboro Boulevard from 6 to 4 lanes to provide traffic calming and create a safer pedestrian and bicycle use corridor with access to the beach area. The corridor has realized over 150 accidents in the last 10 years, most involving bicycles and pedestrians. The study included traffic data acquisition, 35 years projections, signalization study, and a full level of service analysis. Additionally, an Access Management Plan was produced and FDOT granted approvals to the City 6 months from notice to proceed.

Firm's Responsibility:

Prime consultant responsible for traffic studies.

Project Owner:

City of Deerfield Beach
401 SW 4th Street,
Deerfield Bch, FL 33441

Completion Date:

2015

Firm's Personnel:

Matt Crim, PE, PTOE
Project Manager
Chris Benitez, PE, PTOE
Traffic Engineer



Alsdork Park Parking Expansion

Pompano Beach, FL

Project Description:

Stantec provided the Master Planning and Design work for the expansion and rehabilitation of an existing public boat ramp and coastal park facility. This project included reconstruction of three ramp boat ramp facility with 80 boat trailer parking spaces, wash down area, controlled marine patrol access, 84 passenger car spaces, walkways, playground, and landscaping. The project also included the design of a fourth boat ramp and additional parking for both passenger vehicles and boat trailers. This project included FIND approval and required phasing to maintain boating access at all times. Irrigation upgrades included conversion to reuse water. The facility had to remain in operation during construction so phasing was extremely important. Eastern portion of parking area was previous FIND spoil area and soil conditions needed improvements prior to parking lot construction..

Firm's Responsibility:

Prime Consultant for master planning, engineering, permitting, and construction administration services.

Project Owner:

City of Pompano Beach
1201 NE 5th Avenue
Pompano Beach, Florida
33060

Completion Date:

2016

Firm's Personnel:

Tery Glunt, PE
Principal in Charge
Jeff Crews, PE
Project Manager



Brittany Bay Park Seawall Improvements Miami Beach, FL

Project Description:

Stantec was selected by the City of Miami Beach to provide design and permitting services for the seawall renovations at Brittany bay Park. This linear park, along Indian Creek, included 535 LF of steel sheet pile retaining wall complete with concrete cap and batter piles to replace the existing steel sheet pile tie back wall that was severely deteriorating. Originally the City had designed the repairs using the same steel sheet piling and tie back anchors, but conflicts with the upland portion of the park prevented the use of tie backs so the City directed Stantec to develop an alternate design to alleviate the conflicts.

The structural designers developed a solution using precast concrete batter piles in lieu of tieback anchors and redesigned the steel sheet piling and concrete cap to compensate for the changes. In addition, Stantec provided permitting services for the seawall and rip rap installation, along with the creation of a living shoreline complete with mangroves and aquatic habitat. A concrete walking path and seating wall were also designed to allow pedestrians to walk along the water and sit and take in the vistas of Indian Creek and the waterway along Miami Beach.

Firm's Responsibility:

Responsible for civil and structural engineering, permitting, and construction management/inspections.

Project Owner:

City of Miami Beach
1700 Convention Center
Drive
Miami Beach, Florida
33139

Completion Date:

2018

Firm's Personnel:

Tery Glunt, PE
Principal in Charge
Jeff Crews, PE
Project Manager
Sean Compel, PE
Construction Manager



Bill Baggs State Park Seawall and Bulkhead Imp. at No Name Harbor, Miami-Dade County, FL

Project Description:

This project involved the rehabilitation of 1,400 LF of seawall along No Name Harbor in Bill Baggs State Park. The project involved a condition study of the seawall and cap along with the associated upland pathways. Permitting issues included the identification, removal and relocation of corals and sponges that were attached to the seawalls being repaired. Permits were obtained from the USACOE as well as through Miami Dade County Department of Environmental Resource Management.

Firm's Responsibility:

Responsible for study, civil and structural engineering, permitting, and construction administration.

Project Owner:

FDEP
3301 Gun Club Road
West Palm Beach, Florida
33406

Completion Date:

2017

Firm's Personnel:

Sean Compel, PE
*Project Manager/
Construction Manager*
Carlos Herdocia, PE
Project Engineer



Palm and Hibiscus Islands Neighborhood Improvements, Miami Beach, FL

Project Description:

Stantec served as Design Criteria Professional and Resident Project Representative for this design/build project which involves complete infrastructure reconstruction with primary goals including beautification and combatting the effects of sea level rise.

The scope of work includes watermain and water service replacement, rehabilitation of the existing gravity sanitary sewer line and manholes, complete stormwater infrastructure improvements, roadway reconstruction including raising roads where possible and harmonization to properties, concrete work including sidewalks, the undergrounding of overhead utilities for Florida Power & Light (FPL), AT&T, and Atlantic Broadband, and landscaping. The stormwater systems include a primary and secondary gravity collection system and large pump stations to discharge into Biscayne Bay. Environmental controls during construction and all maintenance of traffic had to be carefully monitored at all times. Close coordination with City staff and homeowners was very important to ensure impact to residents were minimized.

Firm's Responsibility:

Responsible as design criteria professional and resident project representative.

Project Owner:

City of Miami Beach
1700 Convention Center
Drive
Miami Beach, Florida
33139

Completion Date:

2020

Firm's Personnel:

Ramon Castella, PE
Principal in Charge
Jeff Crews, PE
Project Manager
Sean Compel, PE
Construction Manager
Carlos Herdocia, PE
Project Engineer



The Roads Neighborhoods Improvements Miami, FL

Project Description:

This comprehensive project for the City of Miami began with preliminary cost estimates to assist the City in prioritizing and selecting project areas. Several neighborhood streets within the historic Roads neighborhood were selected and analyzed for improvements.

Final improvements included new drainage systems, curb and gutters, sidewalk repairs, ADA ramps and detectable warning mats to promote safe pedestrian usage, milling and resurfacing of the existing asphalt roadway, new signage, striping, and swale restoration. The projects were part of a larger program in which we assisted the City with upgrading over 3 miles of local roads. The projects were successfully completion within budget.

Firm's Responsibility:

Prime Consultant for planning, surveying, geotechnical testing, civil, permitting, construction administration services.

Project Owner:

City of Miami
444 SW 2nd Ave
Miami, FL, 33130

Completion Date:

2018

Firm's Personnel:

Ramon Castella, PE
Principal in Charge
Carlos Herdocia, PE
Project Manager
Sean Compel, PE
Construction Manager



Old Cutler Road Improvements (SW 97th Avenue to SW 87th Avenue), Cutler Bay, FL

Project Description:

This project successfully accomplished several goals including pedestrian safety, traffic calming, improved traffic flow and beautification. Project elements included two traffic circles, pavement reconstruction, curb and gutter, new sidewalks, a shared use path, medians, continuous drainage system, medians, signalization upgrades, crosswalks, landscaping, irrigation, lighting, and several site amenities. Amenities included new bus shelters specifically designed for a unique Town feel, site furniture, the creation of a park area with rare native plant species provided by Fairchild Tropical Gardens, state historic designation markers, and an electronic message board.

Firm's Responsibility:

Prime Consultant for planning, surveying, geotechnical testing, traffic studies, civil, structural, architecture, landscape architecture, electrical, permitting, construction administration services.

Project Owner:

Town of Cutler Bay
10720 Caribbean Blvd.
Cutler Bay, Florida 33189

Completion Date:

2015

Firm's Personnel:

Ramon Castella, PE
Principal in Charge
Sean Compel, PE
*Project Manager/
Construction Manager*
Carlos Herdocia, PE
Senior Project Engineer



Caribbean Boulevard Roadway Improvements Cutler Bay, FL

Project Description:

Stantec was contracted by the Town of Cutler Bay as prime consultant to provide engineering design and construction administration/inspections for the portion of Caribbean Boulevard between Coral Sea Road and SW 87th Avenue. Stantec was selected as the lead consultant and ATI was selected as the prime contractor to perform the roadway improvements. The project consisted of 1.8 miles of roadway improvements and included two traffic circles, pavement reconstruction, curb and gutter, sidewalks, concrete crosswalks, pavers, drainage facilities, medians, turn lanes, landscaping, irrigation, bus shelters, roadway lighting, pavement markings, signage and signalization.

The improvements for Caribbean Boulevard included roundabouts at Gulf Stream Road and SW 192 Drive for traffic calming and beautification. The corridor is a two-lane roadway with turn lanes, landscape medians and traffic calming splitter islands where plausible.

Firm's Responsibility:

Prime Consultant for planning, surveying, geotechnical testing, traffic studies, civil, structural, architecture, landscape architecture, electrical, permitting, construction administration services.

Project Owner:

Town of Cutler Bay
10720 Caribbean Blvd.
Cutler Bay, Florida 33189

Completion Date:

2015

Firm's Personnel:

Ramon Castella, PE
Principal in Charge
Sean Compel, PE
*Project Manager/
Construction Manager*
Carlos Herdocia, PE
Senior Project Engineer



Gibson Park

Miami, FL

Project Description:

Toddlers wading in the splash park, pee-wee sized football players in oversized helmets, and proud parents cheering-on their children from rainbow-colored benches – all these sights bring new hope to the residents of Overtown.

In an effort to revitalize the community, the local Community Redevelopment Agency (CRA) enlisted Stantec to reconstruct the 9.4 acre Gibson Park located in a historic but run-down section of Miami. Improvements included a Gold LEED ® certified 6,700 SF recreation building and aquatics center, sports field improvements, landscape improvements, and park amenities including a children's play area and a perimeter walking trail and parking. The park also includes a new artificial turf multipurpose field for baseball and football. The field incorporates covered stadium seating for 1500 patrons.

A 22,000 sq ft addition to the existing community center with an indoor NBA standards basketball court, concession stand, classrooms and multi-purpose community rooms helped to complete the building and provide the community with gathering spaces and various activities for the young and young at heart.

Stantec is proud to note that this project was awarded the U.S. Green Building Council South Florida Chapter 2014 LEEDership and Green Awards "Most Outstanding LEED Public Project".

Firm's Responsibility:

Prime Consultant for master planning, civil engineering and architecture.

Project Owner:

City of Miami
3500 Pan American Drive
Miami, FL 33133

Completion Date:

2016

Firm's Personnel:

Jeff Crews, PE
Project Manager



FIU Multi-Use Fields

Miami, FL

Project Description:

Stantec was selected to provide consulting services for the multi-purpose practice fields on the Modesto Maidique Campus of FIU. The complex includes one artificial turf field and one prescription turf field. The complex will be the primary practice facility for the Division I football team led by Butch Davis. The University will use the complex for intramural competitions when not in use by the football team.

The project includes a 3,500 SF restroom and storage building to complement the usage of the field elements. The fields are also lit for night usage with LED sports lighting that function with approximately half of the energy usage of traditional sports lighting.

Firm's Responsibility:

Prime Consultant for civil engineering and structural engineering.

Project Owner:

Florida International University
11200 SW 8th Street,
Miami, FL 33199

Completion Date:

2019

Firm's Personnel:

Jeff Crews, PE
Project Manager



Buccaneer Park

Miami Gardens, FL

Project Description:

This design-build project consisted of park improvements to Buccaneer Park located in Miami Gardens, Florida. Improvements to this 5.25 acre park include a playground and shade structure, interactive water feature, new community center, resurfacing and refurbishing sports courts, fencing, lighting, pavilions, parking lot improvements, landscaping and irrigation. Stantec Consulting Services performed overall park planning and Civil Engineering services including utilities, drainage, paving and grading. Stantec also provided some specialty services related to sports court refurbishment, playground, splash deck and shade structures.

Firm's Responsibility:

Lead Designer for planning and civil engineering.

Project Owner:

City of Miami Gardens
18605 NW 27th Avenue
Miami Gardens, FL 33056

Completion Date:

2018

Firm's Personnel:

Jeff Crews, PE
Project Manager
Tery Glunt, PE
Principal in Charge



Riverbend Park

Jupiter, FL

Project Description:

The improvements to Riverbend Park consisted of enhancements to several areas of the park. The main entrance improvements included a decorative retaining wall, concrete hardscape, entrance lighting, historical markers and an entrance monument sign. All improvements were influenced by the existing site; use of natural wood, concrete, and stone allowed for the proposed buildings to blend in seamlessly into their surroundings. The administration building included office and storage space, staff shower and restroom facilities, public restrooms, and break room spaces. The open air main corridor is covered by a vaulted pavilion to provide shade and protect visitors from the elements as this area is intended for use of park events. A restroom building at the back of the park was also constructed. To assist with the connectivity on site, a new parking lot was provided and reconfiguration of the existing parking lot with modifications to the traffic pattern were made. All respective park utilities and storm water management systems were upgraded to account for this and all future work.

Firm's Responsibility:

Prime Consultant for engineering and architectural design, permitting, and construction administration.

Project Owner:

Palm Beach County
2633 Vista Parkway
West Palm Beach, Florida
33411

Completion Date:

2017

Firm's Personnel:

Tery Glunt, PE
Principal in Charge
Jeff Crews, PE
Project Manager



Avila Road, Greenwood Drive and Greymon Drive Water Main Replacements, West Palm Beach, FL

Project Description:

Avila Road: Stantec provided design drawings, construction specifications and cost estimate for the construction of approximately 460 linear feet of 8" DIP Water Main along Avila Road between Dixie Highway and Olive Avenue. The project also included Florida DOH permitting, relocation of water meters and water service lines that service the existing residences along Avila Road and the south side of Monceaux Road, and the abandonment of the existing 3" transite water line. Other improvements include milling and resurfacing, updating and reconstructing traffic calming devices.

Greenwood Drive: We provided design drawings, construction specifications and cost estimate for the construction of approximately 1,800 LF of 8-in DIP water main along Greenwood between Dixie Highway and Washington Road. The project also included FDOT coordination, Florida DOH permitting. The project scope included house condition assessment of existing structures that may be impacted by the proposed improvements, as well as relocation of water meters and water service lines that service the existing residences along Greenwood Drive, and the abandonment of multiple existing water lines.

Greymon Drive: We provided design drawings, construction specifications and cost estimate relocate water meters for 14 properties along Greymon Drive between S. Olive Ave and Washington Road, and 3 properties along Washington Road. New service lines will be connect to the 6-in CIP along Greymon Drive, and 4-in CIP and 8-in DIP along Washington Road. The project also includes grouting the existing water mains in the back of the properties along Greenwood Drive and Greymon Drive. The project scope also included house condition assessment of existing structures that may be impacted by the proposed improvements. Other improvements for both projects include milling and resurfacing, updating and reconstructing traffic calming devices.

Firm's Responsibility: Engineering design, permitting, and construction administration .

Project Owner:

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

Completion Date:

2019

Firm's Personnel:

Tery Glunt, PE
Principal in Charge
Shehab Bata, PE
Project Manager



SW 264th Street Widening from US-1 to SW 137th Avenue, Miami-Dade County, FL

Project Description:

The SW 264th Street widening project was completed with the Miami-Dade County Public Works and Waste Management Department. The project is located along SW 264th Street from US1 to SW 137th Avenue in Miami Dade County Commission District 9. The improvements included widening the existing roadway to a 2-lane divided highway with raised landscaped medians, bicycle lanes, on-street parking, sidewalks, curb and gutter, a continuous storm drainage system, signalization, pavement markings and signage and lighting. Stantec led the public involvement effort including the development of the Public Involvement Plan (PIP), fact sheets, and public meetings. Stantec provided engineering design and construction management (including construction engineering inspections).

Firm's Responsibility:

Prime Consultant for planning, surveying, geotechnical testing, traffic studies, civil, landscape architecture, electrical, permitting, construction administration.

Project Owner:

Miami-Dade County
701 NW 1st Court
Miami, FL 33136

Completion Date:

2015

Firm's Personnel:

Ramon Castella, PE
Principal in Charge
Carlos Herdocia, PE
Project Manager
Sean Compel, PE
Construction Manager



Cutler Bay Bus Shelters

Cutler Bay, FL

Project Description:

Stantec assisted the Town in a multi-year Bus Shelter implementation program which began with the Town's review and adoption of conceptual renderings. Several options were presented and discussed in order to select the most functional, applicable look in line with the Town's feel. From the conceptual phase, the construction documents were developed including civil, structural and architectural. The locations were selected based on the Town's Transportation Master Plan and analysis of the ridership at each stop. Coordination with Miami-Dade County Transit was an important part of the success of this project.

A total of 10 shelters were completed as part of phase 1 and we look forward to completing future phases for the Town. This project serves as a prime example of Stantec's collaboration at all phases of the project from planning through construction.

Firm's Responsibility:

Prime Consultant for planning, surveying, geotechnical testing, civil, structural, architecture, electrical, permitting, construction administration services.

Project Owner:

Town of Cutler Bay
10720 Caribbean Blvd.
Cutler Bay, Florida 33189

Completion Date:

2019

Firm's Personnel:

Sean Compel, PE
*Project Manager/
Construction Manager*
Carlos Herdocia, PE
Senior Civil Engineer



SR 710 (Beeline Highway) Phase C, from west of Australian Avenue to Old Dixie Highway, Palm Beach County, FL

Project Description:

This project consists of improvements for the 0.8 mile segment of SR-710 that lead to the entrance of the Port of Palm Beach, for a total of \$17.5 Million widening and reconstruction cost. The scope of this project entails widening two-lane roadway (SR 710) to four lanes. This includes constructing two new lanes, reconstructing the two existing lanes, and the construction of a neighborhood frontage road. The scope also includes drainage, retention swales, signalization, utility relocation, signing and pavement markings, curb and gutter, ADA improvements, sidewalk construction, lighting, irrigation, and the construction of a perimeter wall. The project also incorporates two (2) JPA water and sewer installations with a construction cost of \$3 Million for the City of Riviera Beach.

Firm's Responsibility:

Responsible for construction management/inspections.

Project Owner:

FDOT District 4
7900 Forest Hill Blvd.,
West Palm Beach, FL
33413

Completion Date:

2018

Firm's Personnel:

Juan Bolivar, PE
Project Administrator
Terrance Glunt, PE
Project Engineer

ADDITIONAL PROJECTS

Utilities Service Complex

Pompano Beach, FL



Client: City of Pompano Beach

Complete reconstruction of the Utilities Services Complex for the City of Pompano Beach. The City Utility Department currently occupies a 2.8 acre site with multiple outdated buildings. Personnel and other uses are spread through a number of buildings which are placed haphazardly around the site. The lack of continuity and effective layout has hampered operating efficiencies and the buildings are in need of replacement.

We provided Master Planning Services to reorganize the site and the building spaces to better utilize the space available. The master plan was adopted by the City and a Design Criteria Package was developed for competitive bidding to a Design Build Contractor.

Multipurpose Center Renovation

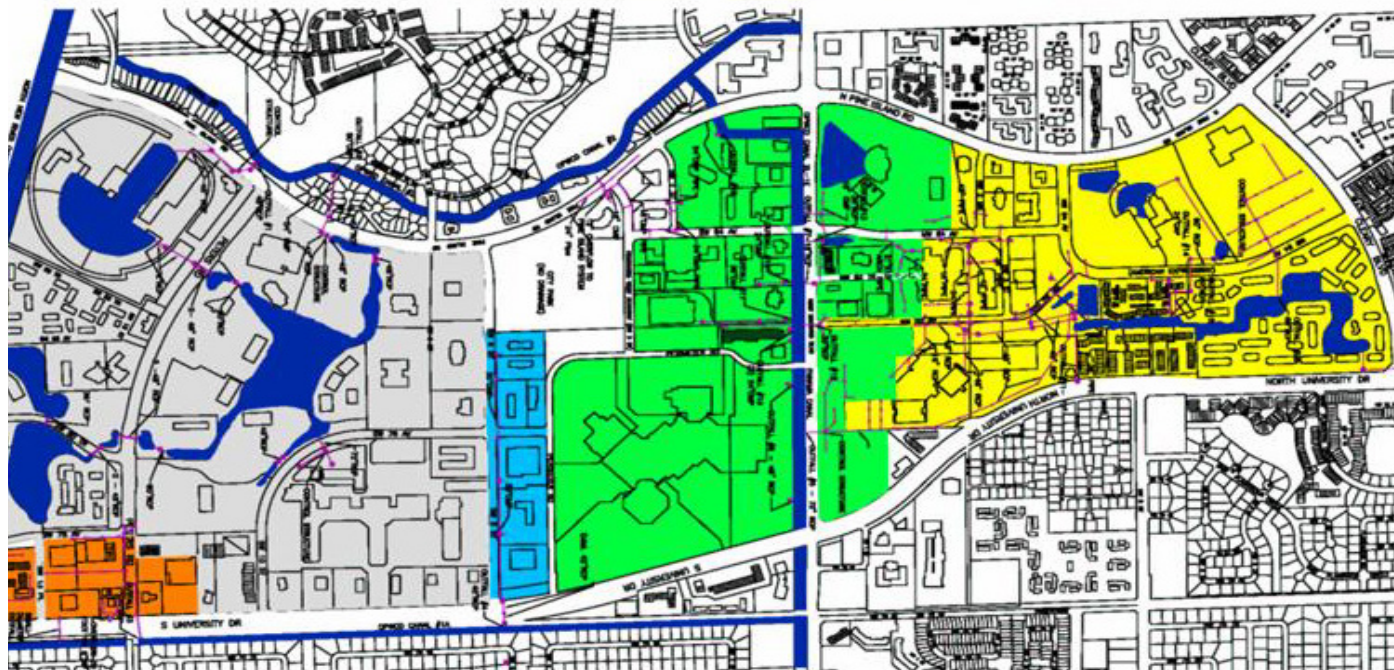
Tamarac, FL



Client: City of Tamarac

Stantec was commissioned by the City of Tamarac for the design, improvements, investigations, and evaluations of the existing building exterior cladding ("kalwall") along with a structural analysis of the Tamarac Multipurpose Center. The existing cladding (skin) of the building reached its lifespan and a new skin was proposed. We analyzed and provided investigations to the building's structural integrity of the existing building. Within the scope of work, Stantec proposed several alternatives for a new skin that would continue to provide some natural light with clearstory windows and protect the gym from the water penetration it was dealing with previously. In review and analysis, we proposed a building system and exterior cladding to provide a more solidified exterior and blend in within the existing campus architectural style.

Plantation Midtown Drainage Study, Plantation, FL



Client: City of Plantation

Stantec was selected by the City of Plantation to analyze the drainage system of a 760-acre area known as Plantation Midtown, a mixed use area with residential, commercial and institutional zoning. The purpose of the study was to provide a backbone drainage system that would allow future development and redevelopment in accordance with the Master Plan. The existing system was modeled using ICPR with information from available records and survey of the existing drainage system.

Future development was also modeled in accordance to the maximum development potential of the area. The study recommends drainage improvements that would allow the future development and creates an integrated system to be easily maintained by the City. These recommendations were coordinated into current Roadway/ Landscaping Improvements Projects and future CIP projects in order to minimize construction in the area. The drainage master plan developed in the study and construction plans for specific drainage improvements were permitted through Old Plantation Water Control District, SFWMD and the City of Plantation.

Plantation Midtown Bus Shelters

Plantation, FL



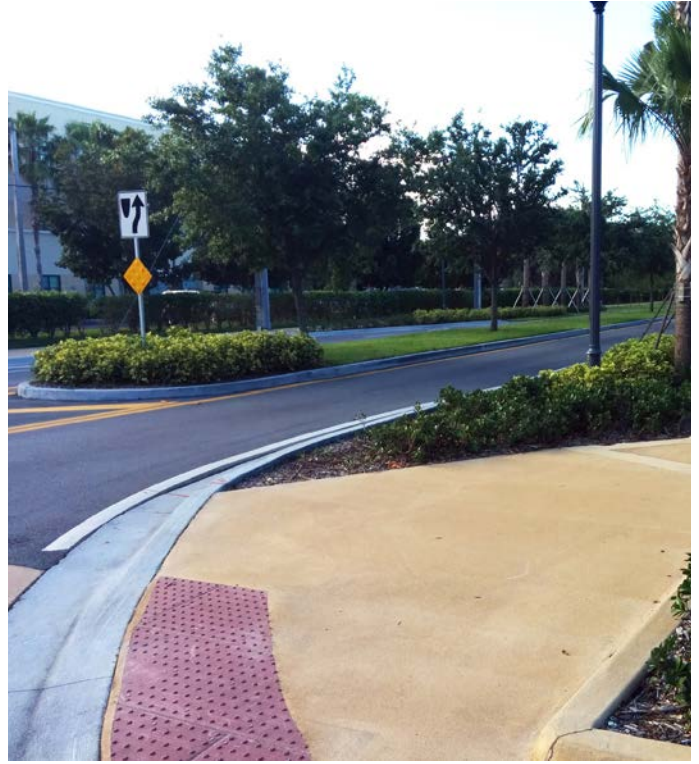
Client: City of Plantation

Stantec was selected for this project which involved the design and permitting of prototypical bus shelters for the City in their unique vernacular including tile roofs, brick columns, built in benches and brick paver walkways. The bus shelters were part of an FDOT LAP project approved by both FDOT and the County Mass Transit Authority.

The project included 16 bus shelters on two major FDOT roadway. In addition to the roadway design components, the project included bus shelters to be used by Broward County Transit buses as well as City of Plantation Circulator Shuttles. The project included three primary corridors within the City, connecting major work centers to commercial, retail and residential areas. The intent was to eliminate vehicular traffic within the central business district while promoting the use of mass transit vehicles and shuttles.

84th Avenue Improvements

Plantation, FL



Client: City of Plantation

As Prime Consultant for this project, Stantec provided design and permitting for approximately 4000 LF of four lane roadway. Services included roadway design, traffic studies for conversion of through lanes to four way stop and roundabout, signalization, street lighting, landscaping and signing and pavement markings. Rehabilitation of an existing at grade bridge as also included. Drainage design involved a combination of exfiltration trench and dry retention with emphasis on pretreatment requirements prior to discharge into the OPWCD canal.

Project was made complex due to a number of major facilities being located on the corridor including a hospital, mass transit facility, medical and retail office complexes and multifamily housing. Water mains and force mains were upgraded during design to accommodate the city utilities department. Since the project crosses Broward Boulevard, coordination with Broward County Traffic Operations was required for signalization and work within the County right of way. Additionally, the project was funded by FDOT through their LAP program and as such, the requirements for design were reviewed and approved by the Department. The design and permit schedule required the project to be ready for notification for bid within 150 days of the NTP.

FIU Stadium (Artificial Turf)

Miami, FL



Client: Florida International University

Fast track design build project to replace the existing artificial turf in the reconstructed FIU Stadium. Complete design and construction was performed prior to the fall football season beginning in August of that same year. Services included all design, layout and specification for the artificial turf and subsurface drainage for the project. The field was designed as a dual purpose football and soccer field and received the highest level FIFA certification for soccer. Advanced drainage design and coordination was required to allow the field underdrain system to be connected into the previously designed master drainage system.

Palmetto Bay Park

Miami, FL



Client: Village of Palmetto Bay

For the Village of Palmetto Bay, we renovated and expanded an existing park facility to add six baseball fields, a two-story concession/restroom facility, lighting, paths with fitness stations, new asphalt parking areas, landscaping and irrigation, and a special feature playground area. The playground, a "boundless" series of structures specifically designed for ADA accessibility park included an existing building structure that needed to be upgraded and a new system of utilities was incorporated into the park including a sanitary lift station and a new water main to service the park and surrounding community.

Countess D'Hoernle Park

Boca Raton, FL



Client: City of Boca Raton

The Countess de Hoernle Park is part of a 175-acre tract of former IBM land along I-95. Stantec is collaborating with the City of Boca and the Greater Boca Raton Beach & Park District to provide a full-range of professional services on-site, including survey, environmental, landscape architecture, planning, engineering, architecture, mechanical/electrical and structural engineering, and traffic.

Phase I included a master plan for the South Site, approximately 171 acres, to satisfy the needs of the local sports leagues and general public. Amenities included four lighted soccer fields and four lighted softball/baseball fields with two single-story support buildings. Our design focused on recreation as well as function as demonstrated in the creation of a meandering pathway around the existing canal leading to the lake.

Phase II includes four rectangular multi-purpose fields, one field building with restrooms, bleachers and related amenities. Flexibility was designed into the multi-purpose fields so they can be reconfigured to accommodate a variety of sports.

Deerfield Beach Middle School

Deerfield Beach, FL



Client: City of Deerfield Beach

Stantec developed a master plan for this 5.0 acre site located adjacent to Deerfield Beach Middle School. Full Architectural and Engineering services were provided for the project. This new complex includes three Little League baseball fields, one mixed-use field for adult softball/pony baseball/softball, and one football/soccer field with a perimeter running track. Along with the fields, Stantec designed a two-story baseball pavilion which offers a snack bar/concession area and an announcer's booth and a one-story football pavilion which provides players with restrooms, weigh-in room, storage and observation deck. The site also features a 50-meter competitive swimming pool with zero-depth entry at one point, where school children will receive weekly swimming lessons. Also included in the pool building are restrooms, locker rooms, offices, and a meeting room.

Mitchell Moore Aquatic Center

Pompano Beach, FL



Client: City of Pompano Beach

The Mitchell Moore Aquatic Center project involved the replacement of an outdated pool complex into a competition aquatic facility. A new 25-yard pool with integral dive well was constructed for competition swimming and diving. The pool also included an extended shallower area for water aerobics and learn-to-swim instruction. A support building included restrooms, locker rooms, concession, lifeguard break room, ticketing window, office, and equipment room.

Pompano Community Park

Pompano Beach, FL



Client: City of Pompano Beach

The Community Park Aquatic project involved the expansion of an outdated pool complex into a state-of-the-art competition aquatic facility. A new 50-meter x 25-yard pool with integral dive well was constructed for competition swimming and diving. The pool also included a shallower L-shaped section for water aerobics and learn-to-swim instruction. The existing T-shaped pool was renovated to provide additional space for recreational and instructional activities. A support building included restrooms, locker rooms, concession, lifeguard break room, ticketing window, office, and equipment room.

Sanford Avenue Drainage & Utility Improvements, Palm Beach, FL



Client: Town of Palm Beach

The project included the full re-design of a two block section of Sanford Avenue in the Town of Palm Beach. The design included replacement of the roadway, curbing, drainage system, water, sewer and street lighting components of the project. Town of Palm Beach required special low profile curb elements and new design had to conform to existing driveway profiles while still improving drainage characteristics. Design of the sanitary and water systems had to tie in to existing facilities at each end of the project, while upgrading piping and MAS structures. Project also included conduit for cable television, BellSouth and FP&L to eliminate overhead service lines. Project required phasing to accommodate access to resident driveways.

Tangier Avenue & North Lake Way Imp., Palm Beach, FL



Client: Town of Palm Beach

Our company was retained by the Town of Palm Beach to provide design improvements to existing roadways Tangier Avenue and North Lake Way. The projects included full roadway reconstruction as well as water and sanitary main replacement, and stormwater upgrades. Specific tasks included project design plans, permitting services as well as construction administration. Great care was taken during design to match existing driveways to the new pavement elevations as well as maintaining operation of existing utilities and driveways during construction.

Reclaimed Water Pipeline Canal Crossing, Margate, FL



Client: City of Margate

Stantec served as the Engineer of Record for the Design Build team for the construction of 2000 LF of 16" reclaimed water main. The project included a 600' segment of 18" HDPE Horizontal Direction Drilling (HDD) to cross a city canal and residential lot. The HDD required a complicated reverse curve alignment to remain within a designated easement and road right-of-way that were horizontally off set. The HDD also required unusual depth to ensure proper clearance under the canal. The project also included 1200' of direct bury installation to complete the entire alignment. Our company was responsible for all design and permitting aspects of the installation as well as field inspection during construction.

Florida Turnpike Crossings – North & South, Lauderhill, FL



Client: City of Lauderhill

We were selected for this project which included four horizontal directional drillings (HDD) beneath the Florida Turnpike. HDPE (high density polyethylene) was used for a casing pipe and carrier pipe for both water mains and force mains. These large diameter pipe lines are extremely important to the City of Lauderhill. Florida Turnpike Enterprise is widening the Turnpike and the City's old transmission mains needed to be abandoned, replaced and upgraded. Stantec designed new force mains and water mains under the Turnpike with the new HDPE pipe installed via HDD (horizontal directional drill). Work was done using FDOT approved methods and materials. Facilities were installed in rapid succession and tied into DI pipe at its ends. Restrained joints were designed throughout both the water and the wastewater transmission mains.

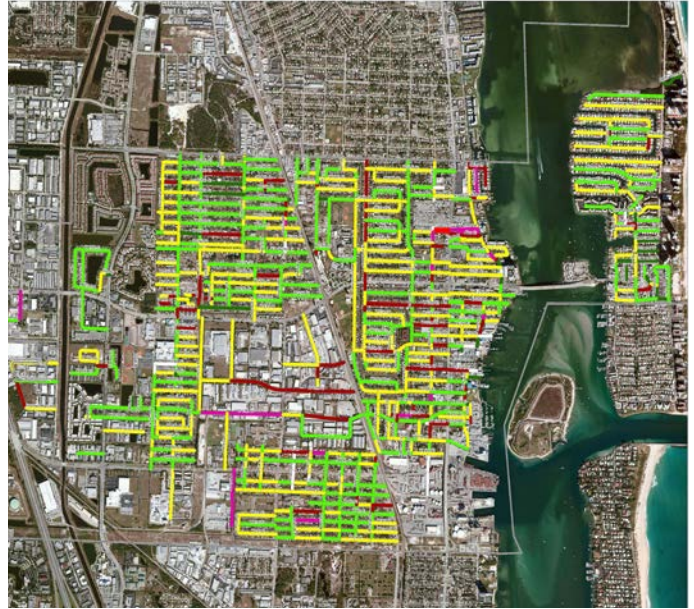
GIS Stormwater Atlas (Citywide), Riviera Beach, FL



Client: City of Riviera Beach

Stantec, as Prime Consultant, assembled all available Stormwater data and created a City GIS Stormwater Atlas. The scope of work started by collecting existing data from old as-built, paper atlases and record drawings that the City collected over the years. Then the firm engineers evaluated the existing data and digitized all the structures and stormwater pipes using ArcMap software. The scope of work also included field verification by the firm and sub-surface verification by the City. In addition to the GIS Stormwater Atlases, the firm developed a basic maintenance tracking system that was set up so staff can determine which structures have been cleaned and when. The firm also purchased ArcMap licenses for the City and assisted the City by providing proper training to its staff on how to properly use the ArcMap program.

Pavement Assessment Study (Roadway/Sidewalk), Riviera Beach, FL



Client: City of Riviera Beach

Stantec provided services to assess the condition of approximately 85 centerline miles of the City's existing roadway pavement network and use the information to develop a Multi-year Maintenance and Rehabilitation Plan for the City. The project also included assessment of sidewalk, and asset inventory of catch basins and manholes. In association with EnterInfo, the data collection is carried out using their data collection van (eRoadInfo).

The data is processed and populated into MicroPaver software to perform present condition analysis for each segment of the existing roadway sections in terms of the Pavement Condition Index (PCI). Development of deterioration models, and ranking and prioritization of repair and rehabilitation needs, engineering analysis of repair and rehabilitation options for the various roadways, development unit cost information and development routine maintenance requirements was performed by Stantec. This information was used to develop a multi-year Maintenance and Rehabilitation Work Plan and carried out budget analysis based on the Minimum PCI and Critical PCI methods for the City of Riviera Beach.

8. Resumes of Key Personnel



Terrance N. Glunt PE, SI, LEED AP Contract Manager

Tery has over 43 years of experience in the management and administration of engineering divisions responsible for all aspects of design and construction of government and agency related facilities including marina and boating access facilities, recreation complexes, urban and Interstate roadways and bridges, utility corridors, municipal public works and administration facilities, nuclear power plants, landfills and aviation facilities throughout Florida and the United States. His specific experience includes engineering design and coordination of multiple projects, construction engineering and inspection, quality control / constructability review, rigid and flexible pavement design and analysis, hydrologic evaluations, geotechnical and environmental studies, DRI and PD&E involvement, environmental and drainage permitting, preparation of grant applications and coordination of numerous miscellaneous civil and structural contracts with State, County and Municipal entities. Additionally, he has been a Resident Engineer on FDOT construction projects in numerous Districts.

EDUCATION

Bachelor of Science in Civil Engineering, Florida International University, Miami, Florida, 1985

Bachelor of Science in Environmental Sciences, Juniata College, Huntington, Pennsylvania, 1976

REGISTRATIONS

Professional Engineer #40130, State of Florida
LEED Accredited Professional, US Green Building Council

CERTIFICATIONS

Certification, Threshold Inspector, No. 0950, 2012
Certification, ACI, Level 1 Field Technician, 2012
OSHA, 40-hour Hazardous Materials Technician,
HAZMAT, 2012

PROJECT EXPERIENCE

84th Avenue Transit Greenway, Mobility Enhancements & Traffic Studies, Plantation, Florida

Project Manager for the master planning, design and permitting services for 3,500 L.F. of roadway including storm water improvements, roadway reconstruction, colored concrete sidewalk, paver brick crosswalks, lighting, landscaping and signalization design. The project created a more pedestrian-friendly center city venue for moving foot traffic across Broward Blvd., a

6-lane section. A traffic study supported the design to reduce the roadway from 4 to 2 lanes with parallel parking and landscape islands in the median.

Hillsboro Boulevard Lane Reduction Study and Landscaping, Deerfield Beach, Florida

Principal in Charge for traffic study services to aid the City in their petition to reduce Hillsboro Boulevard from 6 to 4 lanes to provide traffic calming and create a safer pedestrian and bicycle use corridor with access to the beach area. The corridor has realized over 150 accidents in the last 10 years, most involving bicycles and pedestrians. The study included traffic data acquisition, 35 years projections, signalization study, and a full level of service analysis. Additionally, an Access Management Plan was produced and FDOT granted approvals to the City 6 months from notice to proceed.

Sunrise NW 25th Court Lighting Study, Sunrise, Florida

Principal in Charge for a lighting study as part of a safety upgrade program in the area. The study was necessitated due to the recent installation of traffic calming elements. The City wanted to make sure that the lighting levels along the street supported the roadway improvements that had been incorporated into the neighborhood. Stantec performed night inspections to obtain current light levels and compared those to the existing design to determine how much of a potential reduction in lighting levels has occurred over the years since the system was originally installed. The City was also converting all lighting in the City to new LED fixtures, so a photometric analysis was performed comparing the original design, the current condition and the proposed level of lighting once the fixtures have been converted. We determined that the proposed conversion to LED lighting helps increase the visibility in the corridor with some minor improvements in the form of installation of a few light poles coupled with some realignment of heads.

Sanford Avenue Drainage & Utility Improvements, Palm Beach, Florida

Principal in Charge for the full re-design of a 2-block section of Sanford Avenue including replacement of the roadway, curbing, drainage system, water, sewer, and street lighting components. Town of Palm Beach required special low profile curb elements and new design had to conform to existing driveway profiles while still improving drainage characteristics. Design of the sanitary and water

Terrance N. Glunt PE, SI, LEED AP Contract Manager

systems had to tie in to existing facilities at each end of the project, while upgrading piping and MAS structures. Project also included conduit for cable television, BellSouth and FP&L to eliminate overhead service lines. Project required phasing to accommodate access to resident driveways.

Caroline Avenue & Avocado Avenue Pathways, Palm Beach, Florida

Senior Project Engineer for the design and permitting of neighborhood pathway and sidewalk improvements for the purpose of providing safety upgrades and connectivity between the local neighborhood and the bust stop locations on Southern Blvd. (SR-80). The project consisted of 4 blocks of frontage sidewalks, side street crosswalks, ADA access ramps, curb and gutter upgrades, drainage considerations, sidewalk and ADA Ramp modifications to two intersections on FDOT SR-80. Permitting included FDOT R/W Access and Drainage permits as well as SFWMD drainage permit modifications. This project was provided under a Palm Beach County Neighborhood Improvement Funding Grant.

Basins "A" and "B" Stormwater Pump Stations, Lauderhill, Florida

Senior Engineer for these projects which both required two 40,000 gpm line shaft axial flow pumps with 145 hp natural gas caterpillar engines with a third pump for back-up. Pumps operate in an automatic mode and start when storm stage levels rise. The facility includes a reinforced masonry structure that houses the engines, controls generator and communications equipment.

Riviera Beach Citywide GIS Stormwater Atlas, Riviera Beach, Florida

Principal in Charge for this project which consisted of assembling all available Stormwater data and creating a City GIS Stormwater Atlas. The scope of work started by collecting existing data from old as-built, paper atlases and record drawings that the City collected over the years. Then the firm engineering evaluated the existing data and digitized all the structures and stormwater pipes using ArcMap software. The scope of work also includes field verification by the firm and sub-surface verification by the City. In addition to the GIS Stormwater Atlases, the firm developed a basic maintenance tracking system that was set up so staff can determine which structures

have been cleaned and when. The firms also purchased ArcMap licenses for the City and assist the City by providing proper training to its staff.

Mangrove Park Boardwalk Structural Study, Boynton Beach, Florida

Project Manager for a forensic study of the Mangrove Park Boardwalk facility. The boardwalk is an elevated metal boardwalk that meanders through a mangrove forest along the Intracoastal waterway in the City. The facility is about 15 years old and the City had recently identified an isolated area requiring repair due to a failed member. Stantec performed a study of the entire structure that included historical research, field investigation, structural evaluation of the design as well as the current condition, identification of problem areas and current permitting status with impacts on repair methods. The study indicated that well over 50% of the structure has degraded to less than half of its life expectancy. Various repair schemes were provided ranging from isolated repairs of specific members to long term repairs and a maintenance program intended on bringing the boardwalk system back to current Code condition. Cost estimates were provided for each repair methodology.

Riviera Beach Roadway Sidewalk Pavement Assessment, Riviera Beach, Florida

Principal in Charge for this project for which our company provided professional services to assess the condition of approximately 85 centerline miles of their existing roadway pavement network and use the information to develop a Multiyear Maintenance and Rehabilitation Plan for the City. The project also includes assessment of sidewalk, and asset inventory of catch basin and manhole. Automated field data of pavement distresses were collected and loaded into MicroPaver to determine Pavement Condition Index (PCI). Development of deterioration models, and ranking and prioritization of repair and rehabilitation needs, engineering Analysis of repair and rehabilitation options for the various roadways, development unit cost information and development routine maintenance requirements was developed by Stantec. This information was used to develop a multi-year Maintenance and Rehabilitation Work Plan and carried out budget analysis based on the Minimum PCI and Critical PCI methods for the City of Riviera Beach. This multi-year plan served as the City's CIP.



Jeffrey S. Crews PE, LEED AP Senior Project Manager

Jeff, with over 32 years of experience, has been Design Engineer and Project Manager on various projects in the field of structural and civil engineering. Mr. Crews' civil experience has included the preparation of utility relocation plans, drainage analysis, development of traffic control, and stormwater pollution prevention plans. Mr. Crews also has extensive design, construction inspection, and administration experience in all types of building structures.

EDUCATION

Bachelor of Science in Civil Engineering, Cum Laude, University of Miami, Miami, Florida, 1988

REGISTRATIONS

Professional Engineer #46575, State of Florida
LEED Accredited Professional, U.S. Green Building Council
Certified, Masonry Inspector, No. SMI-74, 2012

PROJECT EXPERIENCE

NE 33rd Avenue, Fort Lauderdale, Florida

Project Manager for master planning of a neighborhood improvement program that included traffic calming and aesthetic features for an upscale neighborhood in Fort Lauderdale's Beach area. Features included traffic circles, crosswalks, median islands, paver inlays, sidewalks and bike paths.

85th Avenue Roadway Improvements, Coral Springs, Florida

Project Manager and Lead Civil Engineer responsible for improvements to a heavily traveled segment of roadway in a school zone in Coral Springs. Improvements included new sidewalks and complete pavement overlay. Project also included drainage improvements and new canal outfalls.

Coral Hills Drive Roadway Improvements, Coral Springs, Florida

Project Manager and Lead Civil Engineer responsible for a series of improvements to a mile long segment of historic roadway in Coral Springs. Improvements included new pathways and traffic calming as well as drainage improvements and new canal outfalls.

Pompano Beach Drainage Basin 4-1 and 4-2, Pompano Beach, Florida

Project Manager for this project which involved design services for the neighborhood drainage improvements in the southeast section of the City. The area is a low-lying residential neighborhood in the coastal region resulting in high ground water table. The project included the development of significant amounts of French drain along with minor utility modifications and an asphalt overlay. Services also include permitting and continued through procurement and construction.

Design Criteria for Sunset Island 3 and Sunset Island 4, Miami Beach, Florida

Design Criteria Professional and Project Manager for the preparation of design-build criteria packages including design development plans. This project was a full reconstruction project of Sunset Island 3 and 4. The islands are an exclusive and historic high-end residential neighborhood in Biscayne Bay. The scope of work includes drainage, roadway, water, landscaping, lighting, and undergrounding of utilities (FPL, ATT and Comcast). Project also includes cost estimating, maintenance of traffic, scheduling, storm water pollution prevention, permitting, and construction management.

Design Criteria for Palm Island and Hibiscus Island*, Miami Beach, Florida

Design Criteria Professional and Project Manager for the preparation of design-build criteria packages including design development plans. This project was a full reconstruction project of Palm Island, and Hibiscus Island. The islands are an exclusive and historic high end residential neighborhood in Biscayne Bay. The scope of work includes drainage, roadway, water, landscaping, lighting, and undergrounding of utilities (FPL, ATT and Comcast). Project also includes cost estimating, maintenance of traffic, scheduling, storm water pollution prevention, permitting, and construction management. The scope of work included the development of a master prototype Design Criteria Package with a new approach to the design build delivery system.

Waterway Park, Jupiter, Florida, Palm Beach County Parks and Recreational Dept.

Principal for development of new boat ramp facility. Duties included site plan development, design, permitting and construction administration for this 30-acre natural

Jeffrey S. Crews PE, LEED AP Senior Project Manager

park along Indiantown Road and the ICWW. Permitting issues included development of a gopher tortoise reserve, mangrove and seagrass mitigation, compliance with county manatee protection program, stormwater runoff and an FDOT permit for the entrance off of Indiantown Road. The project included 4 boat ramps, concrete floating dock finger piers and staging docks, concrete seawall protection, education kiosks, picnic pavilions, restroom facilities, parking for 50 boat trailers and on-site roadway and parking systems.

Turnpike Crossings, Lauderhill, Florida

Project Engineer for four horizontal directional drillings (HDD) beneath the Florida Turnpike. HDPE (high density polyethylene) was used for a casing pipe and carrier pipe for both water mains and force mains. These large diameter pipe lines are extremely important to the City of Lauderhill. Florida Turnpike Enterprise was rebuilding the Turnpike and the City's old transmission mains needed to be abandoned and replaced. The firm decided to design new force mains and water mains under the Turnpike with the new HDPE pipe installed via HDD (horizontal directional drill). Work was done using FDOT approved methods and materials.

Basin "A" Stormwater Pump Station, Lauderhill, Florida

Senior Civil Engineer for a 3-pump stormwater pump station project. Project required two 40,000 gpm line shaft axial flow pumps with 145 hp natural gas caterpillar engines. A third pump is provided for back ups. Pumps operate in a automatic mode and start when storm stage levels rise. The facility includes a reinforced masonry structure that houses the engines, controls generator and communications equipment.

Basin "B" Stormwater Pump Station, Lauderhill, Florida

Senior Civil Engineer for the design and specifications of a 2-pump stormwater pump station which required a 44,000 gpm line shaft axial-flow pump with a 145 hp natural gas caterpillar engine. Second pump is used as back-up. Station operates under an automatic mode. A reinforced masonry structure houses the engines, controls, generator, RTU, etc.

Reclaimed Water Pipeline Canal Crossing, Margate, Florida

Project Manager and Engineer of Record for this Design Build project for which the firm was the Engineer of Record for the construction of 2000 LF of 16" reclaimed water

main. The project included a 600' segment of 18" HDPE Horizontal Direction Drilling (HDD) to cross a city canal and residential lot. The HDD required a complicated reverse curve alignment to remain within a designated easement and road right-of-way that were horizontally offset. The HDD also required unusual depth to ensure proper clearance under the canal. The project also included 1200' of direct bury installation to complete the entire alignment. The firm was responsible for all design and permitting aspects of the installation as well as field inspection during construction.

FIU Multi-Purpose Fields, Miami-Dade County, Florida

Project Manager providing consulting services for the multi-purpose practice fields on the Modesto Maidique Campus of FIU. The complex includes one artificial turf field and one prescription turf field. The complex will be the primary practice facility for the Division I football team. The University will use the complex for intramural competitions when not in use by the football team. The project includes a 3,500 SF restroom and storage building to complement the usage of the field elements. The fields are also lit for night usage with LED sports lighting that function with approximately half of the energy usage of traditional sports lighting.

Flamingo West Park, Cooper City, Florida

Project Manager and Lead Civil Engineer for the Master Planning and Development of a regional soccer park in western Broward County. The project includes 4 artificial turf soccer fields with supporting parking and concession restroom building. The park also includes a passive park with picnic facilities and trails around a lake and mitigated wetland. The land was provided by a private developer under a development order and services were provided for oversight of the preliminary site preparations. Other services include master planning, full project development and construction oversight.



Ramon Castella PE, ENV SP, LEED AP Principal in Charge

Ramon has over 33 years of expertise in public and private infrastructure projects throughout Florida and the Caribbean. His engineering experience on these projects includes programming, planning, analysis, design, preparation of construction documents, construction administration and inspection and commissioning. His public works infrastructure project types include drainage, flood control, coastal construction, water and sewer systems, roads and bridges, public facilities, parks, project budgeting and grants acquisition.

EDUCATION

Bachelor of Science in Civil Engineering, Florida International University, Miami, Florida, 1985

REGISTRATIONS

Professional Engineer #40073, State of Florida
Professional Engineer #11731, Commonwealth of Puerto Rico (Estado Libre Asociado de Puerto Rico)
Envision Sustainability Professional (ENV SP)
LEED Accredited Professional, U.S. Green Building Council

PROJECT EXPERIENCE

Plantation Midtown Improvements and Greenway Transit Route Phase I, Plantation, Florida

Principal in Charge for streetscape design that includes the reconstruction of 2.5 miles of mixed use walkways, textured crosswalks, parallel parking, landscaped medians, and a roundabout at a key intersection of the City. As part of the City's master plan, a greenway transit route for the entire midtown area is included. We have worked with the City in designing the route that the first phase of the bus transit will operate as well as helped them research the different type of transit vehicles available to them.

Plantation Midtown Drainage Study, Plantation, Florida

Principal in Charge responsible for this study of a 760-acre area known as Plantation Midtown, a mixed use area with residential, commercial and institutional zoning. The purpose of the study was to provide a backbone drainage system that would allow future development and redevelopment in accordance with the Master Plan. The existing system was modeled using ICPR with information from available records and survey of the existing drainage system. Future development was also modeled in accordance to the maximum development potential of the area. The study recommends drainage

improvements that would allow the future development and creates an integrated system to be easily maintained by the City. These recommendations were coordinated into current Roadway/ Landscaping Improvements Projects and future CIP projects in order to minimize construction in the area. The drainage master plan developed in the study and construction plans for specific drainage improvements were permitted through Old Plantation Water Control District, SFWMD and the City of Plantation.

Old Cutler Road (SW 97-87Avenue), Cutler Bay, Florida

Principal in Charge for roadway improvements, traffic circles, pavement resurfacing, sidewalks, drainage facilities, medians, landscaping and lighting. Old Cutler Road is designated a historic roadway which required all improvements to respect the existing roadway footprint, thus limiting the modification and/or additional widening of the road. The proposed configuration for Old Cutler Road include roundabouts at each end of the corridor for traffic calming and beautification. The 1.24 mile corridor between these two roundabouts will be a two lane roadway with turn lanes, landscape medians and scramble lanes. Permitting including Miami-Dade County Public Works DERM and Town of Cutler Bay.

Caribbean Blvd. (Coral Sea Road to SW 87Avenue), Cutler Bay, Florida

Principal in Charge of roadway improvements, two traffic circles, pavement reconstruction, curbwork, sidewalks, drainage facilities, medians, turn lanes, landscaping and roadway lighting. This portion of Caribbean Blvd. is primarily a residential road. The proposed configuration for Caribbean Blvd. includes roundabouts at Gulf Stream Rd. and SW 192 Dr. for traffic calming and beautification. The corridor will be a two lane roadway with turn lanes, landscape medians and traffic calming splitter islands where plausible. Permitting including Miami-Dade County Public Works, DERM and Town of Cutler Bay.

Palmetto Bay Drainage Improvements, Palmetto Bay, Florida

Principal in Charge for this project that involved field surveying, design, permitting, bidding, and construction administration of drainage improvements at 10 locations throughout the Village. These 10 areas were identified as having flooding problems. The improvements included new drainage structures, exfiltration trenches, outfalls, and asphalt overlays.

Ramon Castella PE, ENV SP, LEED AP Principal in Charge

Golden Beach Capital Improvements Program, Golden Beach, Florida

Principal in Charge for Capital Improvements Program Master Plan that focused on: town-wide drainage improvements; utilities underground relocation (electrical, telephone, cable); town-wide streetscape & traffic calming; and renovation to the Town's existing Town Hall building. The Master Plan carefully considered the each of these with respect to feasibility, cost/benefit, and design, as well as an analysis of funding options and scenarios, and schedule for phasing and implementation.

Pinecrest Watermain Master Plan and System Design Pinecrest, Florida

Principal in Charge for the design of over 27 miles of watermain to complete the potable water system of the entire Village. The Master Plan was prepared that included a computerized model of the entire system and public workshops and meetings were held to inform and educate the residents of the work and cost involved in the project. The firm also prepared special taxing districts and an EQCB Variance to detail the finances of this \$23 million project.

NW 82nd Avenue Improvements, Doral, Florida

Principal in Charge for this project which included the study, design, and construction administration of various improvements on NW 82nd Avenue from NW 12th Street to NW 25th Street. It consisted of milling and resurfacing, sidewalk and curb and gutter replacement and reconstruction, handicap ramp replacement, and drainage work including the installation of exfiltration trenches, concrete manholes and solid pipes. The project also involved the repair of damaged asphalt around existing manholes, valves, and above existing drainage trenches and crossings. The final design also included pavement markings and signage.

Sunset Drive Improvements (West of US 1), South Miami, Florida

Principal in Charge for this master planning project involving the development of conceptual streetscape and infrastructure improvements along Sunset Drive from the western city limits to US 1. These include delineating intersections with concrete pavers and crosswalks, redefining roadways sections, and providing new lighting and landscape design to increase public safety and appeal. In addition, a new architectural site plan for City Hall was designed incorporating surrounding public spaces and

facilities to create an enhanced civic and community space. The master plan was developed substantially in accordance with the City's Hometown Plan Area 2, and evaluated proposed improvements with respect to their feasibility, cost/benefit, design, and construction. In addition, the firm held three public workshops to collect public opinions and suggestions, and ensured the Master Plan was reflective of, and sensitive to the community.

Crandon Boulevard Master Plan, Key Biscayne, Florida

Principal in Charge of design for this project that takes an existing suburban style highway and transforms it into a center of community activities. By promoting the safe and secure transit of all types of vehicles and pedestrians, this CPTED-friendly design also serves to create a source of identity for the community connecting retail, residential, public parks and government facilities into a cohesive design. The project consisted of a master plan that encompassed the design for a 4-lane divided road, improved public safety, easing of traffic congestion, traffic calming, pedestrianization, improved mass transit, streetscape improvements, sidewalks, lighting, and a roundabout. This project, divided into three phases, will provide the Village with a reference for the traffic and public safety impacts of future development or redevelopment of properties fronting Crandon Boulevard and its side streets.

Basin A and Basin B Stormwater Pump Stations, Lauderdale, Florida

Basin A - Principal in Charge for a 3-pump stormwater pump station project. Project required two 40,000 gpm line shaft axial flow pumps with 145 hp natural gas caterpillar engines. A third pump is provided for back ups. Pumps operate in a automatic mode and start when storm stage levels rise. The facility includes a reinforced masonry structure that houses the engines, controls generator and communications equipment. *Basin B* - Principal in Charge for the design and specifications of a 2-pump stormwater pump station which required a 44,000 gpm line shaft axial-flow pump with a 145 hp natural gas caterpillar engine. Second pump is used as back-up. Station operates under an automatic mode. A reinforced masonry structure houses the engines, controls, generator, RTU, etc.



Sangeeta Dhulashia PE, PMP QA/QC Manager

Sangeeta, a Senior Principal with Stantec, has 37 years of experience in water, wastewater and reuse engineering with majority of focus in integrated utility planning. Sangeeta has managed more than 16 master plans in the Tri-County area. She brings forward the ability to comprehend your utility needs with focused local knowledge. Her technical expertise encompasses utility planning, process optimization, treatment plant design for water, wastewater and reuse, regulatory compliance and permit assistance, construction management, CIP development, rate studies, impact fee updates, and bond engineering.

EDUCATION

Master of Science, Environmental Engineering, Florida International University, Miami, Florida 1999

Bachelor of Science, Chemical Engineering, Gujarat University, Ahmedabad, India, 1993

REGISTRATIONS

Professional Engineer #72284, State of Florida
Project Management Professional, 2006

PROJECT EXPERIENCE

City of Pompano Beach Water Master Plan - 2020 Plan, Pompano Beach, Florida

Client Manager and Technical Advisor responsible for overseeing the modeling team. The team performed model reconstruction and setup. Unaccounted demand including flushing demand were identified for demand allocation. Performed model validation for extended period of 24 hour. Simulations were then performed to determine existing system deficiencies under various scenarios. Future demands were allocated and system wide analysis was performed to identify improvements and expansion needs for 2020. Extensive fire flow evaluation and recommendations were made. Criticality analysis was performed and backup solutions were provided to the City as part of the Master Plan. Organizational assessment was also performed where future division focus and expansion areas were identified based on the Utility goals.

Water Supply Facilities Plan, Florida

Ms. Dhulashia has been Client Manager and Project Manager, led a team of talented engineers for development of several water supply facilities plan. Ms. Dhulashia provided intergovernmental coordination in addition to performing projections, identifying demand

and infrastructure deficit, developing expansion/improvement to infrastructure and developing capital improvement plan. Preparation of these plans required high level of stakeholder, and permit agency engagement, reviews and input. Some of these plans included presentation to the local government commission. Ms. Dhulashia has prepared following plans:

- City of Sunrise 2008 Plan and 2014 update.
- City of Oakland Park 2008 Plan and 2014 update.
- City of Pompano Beach 2014 update.
- City of North Miami Beach 2008 Plan and 2014 update.

City of Sunrise Water and Wastewater Capital Improvements Program, Sunrise, Florida

Technical Services Manager for the City of Sunrise Water and Wastewater Capital Improvements Program. Sangeeta provided planning and oversight of technical delivery for 50+ projects. She supplied project managers based on the project needs to augment utility staff, provided management of 5 consulting firms, technical reviews and provided a team to support full range of professional engineering services to support the City's Utilities department. Sangeeta provided planning, and concept development, for a \$110M 5-year capital improvements plan for variety of projects including water, wastewater, biosolids, reuse, and pipeline projects. She provided progressive planning services to the City on an annual basis where prioritization was performed and CIP was developed annually by working with the City staff. She provided engineering efforts to develop impact fee update, rate update, revenue sufficiency studies, bond feasibility report and comprehensive plan updates as it pertained to utility engineering.

City of Sunrise Water and Wastewater Master Plan 2010, Rate Analysis support and Engineering Feasibility Report for Bond issuance, Sunrise, Florida

Project Manager responsible for leading a large team of various technical expertise for a growth, regulatory and capital driven master plan. The plan consisted of population and demand projections, reviewing existing facilities and performing condition assessment to determine replacement needs. Future process needs within the regulatory constraints were also determined. Alternatives such as water supply, biosolids, reuse, treatment and network improvements were evaluated. Phased and prioritized capital improvements were developed. Provided projected operational expenditures to support rate study and prepared engineering feasibility

Sangeeta Dhulashia PE, PMP QA/QC Manager

report for bond issuance along with connection fee update report. This project was delivered to the City on schedule and within budget. Schedule for this project was critical since water supply study and consumptive use permit was being prepared in parallel to this master plan.

City of Sunrise Park City Water and Wastewater System Replacement, Sunrise, Florida

As Project Manager, Sangeeta led this project from concept level to perform alternative evaluation, fire hydrant spacing and fire flow evaluation for residential and commercial areas. Once an alternative was selected a preliminary design was developed with a network model for design criteria setup. The design also included installation of new meter boxes and service piping and disconnecting the existing water service to connect the new water meter and service piping. Replacement of undersized and old AC force main piping with new 8-inch and 12-inch PVC force main piping was added to the project to avoid having to disturb the community with a separate project. Sangeeta provided permitting and bidding support services. Permit support was provided to get approvals from Town of Davie and City of Sunrise Engineering.

Water System Master Plans, Florida

Sangeeta has been project manager for various clients within Southeast Florida to perform their system-wide master plans encompassing hydraulic analysis, infrastructure capacity evaluation, CIP development and project prioritization. She has performed project manager's role for City of North Miami Beach and City of Miramar's water system master plans using hydraulic modeling. Sangeeta was an assistant Project Manager for the Water Storage, Pumping and Transmission System Modeling for the City of Sunrise. The project included updating, calibrating and developing the hydraulic model to determine water storage, high service pumping and distribution projects to meet existing and future water demands. She led the field calibration efforts to ensure a good quality basis for the model runs. Sangeeta performed City of Tamarac's Water system plan to include phased improvements in conjunction with their five-year roadway improvement plan. Network analysis using Cybernet software was performed for the wastewater transmission system for build out. Critical areas for main improvements were identified based on system condition. Cost effective analysis to implement the improvements was performed as part of the final report.

Wastewater System Master Plans, Florida

Sangeeta has been project manager and project engineer for various Wastewater Master Plans. She served as technical advisor to the project manager for City of Cape Coral's Infiltration and Inflow reduction program. Sangeeta reviewed and assisted with advice on the basis of prioritization for rehabilitation, contract document development process to assure that all the technical aspects including submittal types, installation techniques as well as warranty items of the pipe lining contract were addressed and the terms and conditions were embedded appropriately within the documents to protect the City's interest. The City of Tamarac was approaching its wastewater capacity, this study assisted the City to determine the future wastewater requirements and alternative methods of meeting them. Sangeeta estimated the flow projections for build-out, evaluated different interim and future capacity measures, and performed wastewater hydraulic analysis. She evaluated the possibility of flow reduction with implementation of a sewer rehabilitation program, performed cost effective analysis of the alternatives and prepared the final report for the City. Sangeeta has performed collection system master plans for several utilities in south east Florida including City of Coral Gables, City of Hialeah, Miami Dade Water and Sewer, Broward County, City of Margate, City of Vero Beach, FGUA, and City of Cape Coral.

Consent Decree Program, Miami Dade Water and Sewer, Florida

As a Senior Principal, Sangeeta led over 15+ wastewater and stormwater projects. Developed scopes, fees, managing quality, risk, change and delivery. The design of majority of these projects were over a duration of 3 years. Projects consists of multitude of processes including headworks, biological treatment, mixing in oxygen trains, clarifiers, digesters, electrical buildings, odor control, FOG facility, and oxygen production rehabilitation. An example project is the Headworks Improvement for which Sangeeta is the Engineer of Record and Project Manager. She led the design of the oldest and largest 360 MGD peak flow capacity of the WWTP, and she delivered the design of the most critical project on the EPA consent decree within 7 months. Sangeeta led a \$2.9M design project and managed a large team of over thirty professionals from five different engineering firms. The team developed and completed a 3D design with climate adaptation, resilience and sustainability considerations.



Shehab Bata PE Civil/Stormwater Engineering

Shehab has 14 years of experience in site/civil design and is a registered Professional Engineer in the States of OH, MD and TX. Project experience includes: municipal, commercial, residential and industrial land development, power/environmental, and oil and gas. His specific areas of experience include: stormwater management, best management practices, NDPES permitting, preparation of stormwater pollution prevention plans (SWPPP), site grading, erosion and sediment control, highway/road design, storm sewer design, water distribution systems, sanitary sewer collection systems and utility and pipeline design. Shehab is proficient in AutoCAD Civil 3D and majority of the hydraulic and hydrologic modeling software.

EDUCATION

Bachelor of Science, Civil Engineering, West Virginia University, 2002

REGISTRATIONS

Professional Engineer #E-78582, State of Ohio
Professional Engineer #46740, State of Maryland
Professional Engineer #127584, State of Texas

PROJECT EXPERIENCE

Avila Road Improvements, West Palm Beach, Florida
Civil Engineer for this project which is part of the City of West Palm Beach Utility Master Plan O&M program. The intent of the project is to provide water main utility improvements along Avila Road (from South Dixie Hwy to South Olive Ave.) A new water main is to replace the current water service located in the rear easement of the residential properties with a new water main located in the Avila Road R/W along the frontage of the properties. The City will require restoration of the roadway pavement in the area of the trench due to its current poor to fair condition as well as the lining of the gravity sewer main, laterals and manholes that will be impacted by the installation of the water main. The scope of work will also include geotechnical investigation, underground utility designation and public information services.

Tamarac Multiple Buffer Walls, Tamarac, Florida

Civil Engineer to design and permit a multi-phase precast concrete buffer wall project at various locations within the City. The wall location and configuration varied from one location to another and a concept design was developed in accordance to City of Tamarac Major Arterial corridor

study. The scope of work consisted of 12,000 LF of 6' height pre-cast concrete wall that will be constructed at different locations within the City's major corridors. Some of which will be within the City's frontage road and others will be within recently acquired easements. Our scope of services also included permitting through state and local agencies such as FDOT R/W office and Broward County Traffic engineering permit. In addition, landscape, electrical and utility coordination with different utility providers was also required and included in our scope of services.

Greenwood Drive Improvements, West Palm Beach, Florida

Project Manager & Lead Design Engineer responsible for road reconstruction and water main utility improvements along Greenwood Drive (from South Dixie Hwy to Flagler Road). A new water main is to replace the current water service located in the rear easement of the residential properties with a new water main located in the road R/W along the frontage of the properties. Water service connections are to be relocated to connect to the new water meters provided at the frontage with Greenwood Drive. The scope of work also includes geotechnical investigation, underground utility designation and public information services.

Duke Energy – Gallagher Station Reconstituted Design, Floyd County, Indiana

Civil design lead and task manager for coal ash management projects at the Duke Gallagher Station. The program at the Gallagher Station consists of conducting engineering evaluations, analyses, design, and implementation for multiple projects involving the upgrade of the ash management infrastructure (ponds, basins, landfills, spillways, dikes, etc.) to meet current engineering and operational criteria. Job duties included providing general civil engineering services to assess the conditions of all existing ash impoundments at the Gallagher Station and develop site plans to remedy the existing site issues. Design tasks included preparation of construction drawings and coordination with all involved engineering disciplines to generate the reconstituted design report.

Pleasant Valley Road Improvements, Loudoun County, Virginia

Civil Engineer for the redesign of vertical and horizontal

Shehab Bata PE Civil/Stormwater Engineering

alignment and widening of an existing county road as a part of a proffered special exceptions plan that included commercial and residential developments. Design tasks included the design of construction plans and profiles of Pleasant Valley Road, storm sewer design, erosion and sediment control plan, and stormwater management t/adequate outfall analysis for the proposed improvements.

Falling Waters Station Subdivision, Berkeley County, West Virginia

Civil Engineer for the preliminary site development plans for 34 Acres of commercial and residential development. Design tasks included the design of stormwater management plan that entailed three stormwater detention facilities, and the design of vertical and horizontal alignments for two private roads. Design tasks also included the development of a master site grading plan and earthwork analysis for the entire development.

Flamingo West Park, Cooper City, Florida

Civil Design Engineer for the Development of a regional soccer park in western Broward County. The project includes 4 artificial turf soccer fields with supporting parking and concession restroom building. The park also includes a passive park with picnic facilities and trails around a lake and mitigated wetland. Other services include site grading, storm drainage design, and water line and sanitary sewer design.

Highway Department Central Facility Fuel System Upgrades, Hagerstown, Maryland

Task Manager / Civil Engineer responsible for site design for the existing fuel center and garage upgrades in the City of Hagerstown, MD. The proposed improvements included replacing the existing fuel storage and dispensing system with a new system and canopy, as well as the removal of an underground fuel storage tank and the replacement of indoor oil, waste and anti-freeze tanks. Design tasks included the preparation of construction drawings, specifications, Engineer's cost estimate, Erosion and Sediment Control plans, and coordinating with all involved engineering disciplines (i.e. fuel systems, structural, geotechnical, and surveying).

Soldiers and Memorial Hospital Expansion*, Tioga County, Pennsylvania

Civil Engineer responsible for site development plans

for the emergency department addition. Design tasks included parking layout, site grading, erosion and sediment control plans, and the coordination of layout changes and modifications with the architect.

Steeplechase Sheraton Dulles North, Loudoun County, Virginia

Civil Engineer responsible for site development plans for a 7-story hotel. Design tasks included site layout, zoning computations, site grading, storm sewer design, utilities design, adequate outfall analysis, erosion and sediment control plan, landscape plan and a frontage road improvements plan that included the addition of a turn lane onto the project site. Project tasks also included the preparation of bond/cost estimates and the coordination of layout changes and modifications with the architect.

Geneseo Hampton Inn, Livingston County, New York

Civil Engineer responsible for site development plans for a 4-story hotel. Design tasks included site layout, site grading, erosion and sediment control plan, stormwater management plan, landscape plan, and utilities plan. Design tasks also included the preparation of a stormwater pollution prevention plan (SWPPP) for NYS DEC and the coordination of the progress of the plans and permits submitted with the corresponding review agencies.

Potomac Farms Business Park, Loudoun County, Virginia

Civil Engineer responsible for design tasks in various phases of design for a 64-Acre commercial/office park development that included a four-lane collector and ten commercial structures. Design tasks included the development of a preliminary grading plan and earthwork analysis for the entire site and the design of an extended detention stormwater management facility.

Partlow/Ashburn, LLC Building Improvements, Loudoun County, Virginia

Civil Engineer responsible for site development plans for two office buildings. Design tasks included site layout, zoning computations, site grading, storm sewer design, utilities design, storm water management and best management practices plan design that included the design of an underground detention facility and storm filters to remove the required pollutant load, erosion and sediment control plan, landscape plan, and frontage road improvements plan.



Carlos Herdocia PE, LEED AP Civil/Stormwater Engineering

Carlos has over 32 years of experience and has been Project Manager and Senior Design Engineer on various roadway and drainage projects for municipalities in Miami-Dade County. He has extensive experience in developing residential, commercial and highway roadway and drainage plans. This experience includes traffic calming, resurfacing and reconstruction plans, drainage design studies and reports, maintenance of traffic, signalization, lighting and signing and marking plans.

EDUCATION

Bachelor of Science in Civil Engineering, Florida International University, Miami, Florida, 1988

REGISTRATIONS

Professional Engineer #47660, State of Florida
LEED Accredited Professional, U.S. Green Building Council

PROJECT EXPERIENCE

SW 264th Street Improvements (US-1 to SW 137th Avenue), Miami-Dade County, Florida

Project Manager and Engineer of Record involved with the design for the street improvements for SW 264th Street (approx. 0.74 miles). Design elements included a new configuration for SW 264th Street with a two lane divided roadway within an 80 foot right of way. The proposed corridor design consisted of standard travel lanes, bicycle lanes, parking stalls with landscape bump-outs after every second parking stall, a landscaped median, traffic separator, standard curb and gutter, sidewalk, school bus drop-off, pavement marking and signage, roadway lighting and report, school zone with applicable markings, signs and flashers, and modification of existing traffic signal at US-1. Design elements of stormwater management included over 3,150 feet of exfiltration trench, 2,000 feet of solid pipe, 45 drainage structures, pollution control structure with an emergency overflow into Naranja Canal with a rip-rap end-wall and manatee grate. Services also included preliminary field investigations, utility coordination, computation book, drainage report, detailed cost estimates and permitting through DERM.

Traffic Calming Devices and Right-of-Way Improvements (Phases I and II), Doral, Florida

Project Manager for the design and construction of traffic calming devices and right of way improvements within the City limits. Stantec was the prime design firm

for this design/build project that includes the design and permitting of one traffic circle at the intersection of NW 109th Avenue and NW 86th Street and two splitter islands on SW 78th Street. The project also includes new curb and gutters, pavement milling and resurfacing, paved crosswalks (at traffic circle only), and landscaped medians.

Fisher Island Paving Improvements, Fisher Island, Florida

Senior Civil Engineer for this paving improvements at this exclusive island accessed only by ferry. Roadways here had not been paved in many years and various levels of deterioration were observed. The scope of work involved asphalt overlays where limited pavement damage was observed and milling and paving in areas with heavy cracking. An asphalt leveling course was provided in areas that displayed settling. During construction all equipment and asphalt trucks were brought over on barges and the work was successfully completed during the islands off-season months.

McFarland Neighborhood Sidewalk Feasibility Study Miami, Florida

Project Manager for this feasibility study. Project scope of services for McFarland included: evaluation of the feasibility and impacts of installing sidewalks in the McFarland neighborhood. This area is bounded by US1 to the north, LeJeune Road to the west, Lincoln Drive and Brooker Street to the east and Grand Avenue and Grant Drive to the South. Sidewalks were recommended for one side of the street or both, depending on available right of way and encroachments. The area north of Grand Avenue is part of an historic district and required approval from the Historic Preservation Board.

Town of Golden Beach Capital Improvements Program, Golden Beach, Florida

Senior Civil Engineer for this comprehensive Capital Improvements Program Master Plan that focuses on several major improvement areas: town-wide drainage improvements; utilities underground relocation (electrical, telephone, cable); town-wide streetscape & traffic calming; and renovation to the Town's existing Town Hall building. The Master Plan carefully considered the each of these with respect to feasibility, cost/benefit, and design, as well as an analysis of funding options and scenarios, and schedule for phasing and implementation.

Carlos Herdocia PE, LEED AP Civil/Stormwater Engineering

De Soto Road and Sevilla Boulevard Road Improvements, Coral Gables, Florida

Project Engineer for the design of approximately 1 mile of two-lane roadway resurfacing and drainage improvements. Also included in these projects are landscaping, ground marking and signage, and maintenance of traffic.

City of Miami District 3 Street Improvements, Miami, Florida

Engineer of Record and Project Manager for the engineering design and preparation of construction drawings and specifications for numerous roadway reconstruction projects in the City of Miami varying from 0.5 to miles, and two- to three-lane sections. The improvements included geometry, earthwork, milling and resurfacing, pavement sidewalk, curb and gutter, raised median, drainage, pavement marking and signage.

Marta Drive Improvements, Cutler Bay, Florida

Engineer of Record and Project Manager for the engineering design and preparation of construction drawings and specifications for Marta Drive at the Town of Cutler Bay. The improvements included geometry, earthwork, milling and resurfacing, pavement sidewalk, valley gutter, drainage, pavement marking and signage.

Gulfstream Road Improvements, Cutler Bay, Florida

Engineer of Record and Project Manager for the engineering design and preparation of construction drawings and specifications for Gulfstream Road at the Town of Cutler Bay. The improvements included geometry, earthwork, milling and resurfacing, pavement sidewalk, valley gutter, drainage, pavement marking and signage.

20th Street Improvements, City of Key West, Florida

Engineer of Record and Project Manager for the engineering design and preparation of construction drawings and specifications for 20th Street at the City of Key West. The improvements included geometry, earthwork, milling and resurfacing, pavement sidewalk, curb and gutter, pavement marking and signage.

Greene Street Improvements, Key West, Florida

Engineer of Record and Project Manager for the engineering design and preparation of construction drawings and specifications for Greene Street at the City of Key West. The improvements included geometry,

earthwork, milling and resurfacing, pavement sidewalk, curb and gutter, pavement marking and signage.

West Kendall District Park (SW 157th Avenue and SW 120th Street), Miami-Dade County, Florida

Engineer of Record and Project Manager involved with proposed new roadway design and street improvements for Miami-Dade County. Design elements included over 4,600 feet of exfiltration trench, 1,000 feet of solid pipe, 31 drainage structures, over 5,000 feet of 16" water main with sub-aqueous crossing, roadway resurfacing, roadway lighting and report, new signalization with mast arm configuration of existing intersection, over 1 mile of new roadway with sub base, base and asphalt, sidewalk, guardrail, landscaped median, retaining wall, curb and gutter, pavement markings and signs and coordination with structural department for design of proposed Bridge over a canal. Services include the production of Grading and Drainage, Typical Sections, detail plans, preliminary field investigations, utility coordination, computation book, drainage report and detailed cost estimates. Other tasks included permitting through DERM, Miami-Dade Water and Sewer, Miami-Dade Fire Rescue, Florida Department of Health and acquisition of Right of Way permit through SFWMD.

John F. Kennedy Causeway Redevelopment North Bay Village, Florida

Senior Engineer for this project that involves the design and construction services for the redevelopment of the John F. Kennedy Causeway. The project was implemented in several phases. Phase I the landscape design and construction of street beautification improvements to the western end of the Causeway. While this phase was implemented, a conceptual master plan was prepared to address the complete beautification and redevelopment program for Kennedy Causeway which includes the roadway, adjacent business district, and the waterfront.

Crandon Boulevard Pedestrian Mobility Improvements, Key Biscayne

Engineer of Record and Project Manager responsible for preparing five traffic beacon at select intersections along Crandon Boulevard in Key Biscayne Florida.

Miracle Mile Signal Modification, Coral Gables, Florida

Engineer of Record and Project Manager responsible for preparing five signal modifications along Miracle Mile.



Eduardo Lopez

Civil/Stormwater Engineering

Eduardo has 32 years of focused experience as a Stormwater Management Engineer in South Florida. During this time, he has held several positions with South Florida Water Management District including: Engineering Specialist 4, Senior Water Quality Engineer and Senior Engineer. These positions enabled him to develop a unique set of skills which include: drainage and hydraulic modeling for airports, solid wastes facilities, highways and golf courses. He was responsible for evaluation and issuance of Consumptive Use and Environmental Resource permits in Southeast Florida. His knowledge of local, state and federal environmental regulations and excellent reputation in the regulatory community ensures that Eduardo will be a great asset in developing drainage and stormwater plans for clients, both in the private and public sectors. In addition, his knowledge of South Florida hydrology and geology allow him to provide expert advice on dewatering and nutrient issues which are so important for a wide array of construction projects and stormwater management plans. Eduardo has extensive experience with Environmental Resource Permitting, Stormwater Management Systems (Masters systems for all types of projects), Water Resource Management (Design and evaluation), Retention and detention areas, Dewatering and Irrigation systems (Design and permitting), Soil Erosion & Sediment Control, and Environmental Assessment & Permitting. Eduardo's outstanding relationships with local and federal agencies make him an asset to government and private applicants in the resolution of conflicts within the regulatory community.

EDUCATION

Bachelor of Science, Environmental Technology, Florida Institute of Technology, Jensen Beach, Florida, 1982

Civil Engineering Studies, University of Puerto Rico School of Engineering, Mayaguez, , Puerto Rico, 1981

PROJECT EXPERIENCE

SR 836 Extension (Segments 1 & 2) from West of 137th Avenue to HEFT, Miami-Dade Expressway Authority

Senior Drainage Reviewer for the environmental resource permit for this major roadway extension through sensitive environmental lands within limited right-of-way project. Provided guidance and substantive input on the drainage design to minimize wetland impacts and comply with requirements of multiple regulatory agencies.

Sea Level Rise Plans, Miami Beach, Florida

Senior Drainage Reviewer to upgrade the drainage infrastructure to address sea level rise. This is part of the overall plan for the city-wide stormwater imp. system to reduce flooding for the residents of Miami Beach. timeframe.

Miami International Airport (MIA) Master Drainage Plan, Miami, Florida

Senior Drainage Reviewer in charge of the environmental resource permit for the integration of new and existing stormwater management facilities in the design of a master surface water management system for MIA. Regulatory challenges included site and hydrologic constraints, contamination, and manatee protection. Eduardo was also in charge of coordinating with multiple agencies, including FAA, FDEP, USACE & MDDERM, to address and meet all regulatory criteria and design constraints.

Indian Creek Drive - Seawall Replacement, Miami Beach, Florida

Senior Drainage Reviewer for the replacement of a seawall on the southern shoreline of Collins Canal in the City of Miami Beach. Sensitive environmental challenges included proximity to seagrasses, manatees, and sovereign submerged lands. Eduardo identified exempt status for portions of the seawall allowing for this project to move forward.

PD&E Study for SR 836 Southwest Extension from NW 137th Avenue to SW 136th Street, Miami-Dade Expressway Authority

Chief Stormwater Specialist responsible for assisting with the development of the conceptual drainage design, Stormwater Management Report and Location Hydraulic Report associated with the development of the Project Environmental Impact Report and Project Engineering Report. This project will evaluate a new transportation corridor extending SR 836 in the southwest region of Miami-Dade County.

I-395/SR 836/I-95 Design-Build Project, FDOT District 6

Chief Stormwater Specialist responsible for assisting with the drainage design, construction dewatering plan and associated Water Use permit, and overall support for

Eduardo Lopez

Civil/Stormwater Engineering

the Federal and State permitting process of a complex design-build project including the reconstruction of the interstate and a major expressway in Miami-Dade County.

Golden Glades Interchange Final Design, FDOT District 6
Chief Stormwater Specialist responsible for assisting with the development of the drainage design and preparation of the Conceptual Environmental Resource Permit (ERP). He also led the agency coordination with the SFWMD associated with the drainage design and impacts to the adjacent canals.

Miami River Bridge/SR 968 West Flagler over the Miami River, Miami, Florida

Eduardo reviewed and investigated the drainage calculations, construction plans, resource impacts, and coordination with other District departments including Right-of-Way and Land Management.

I-395 Reconstruction from West of I-95 to MacArthur Causeway, Miami-Dade County, Florida, FDOT District 6

Eduardo reviewed and investigated the drainage calculations, construction plans, resource impacts, and coordination with other District departments including Right and Land Management. He also worked with the design consultant and evaluate design plans for potential issues prior to the submission of the application.

SR 997/Krome Avenue Reconstruction, FDOT Miami, Florida

Senior Drainage Reviewer in charge of the environmental resource permit for the roadway widening and bridge construction of this project. Challenges included proximity to wetlands, seepage from future South Florida Water Management District Comprehensive Everglades Restoration project, wellfields, and Tribal lands. Eduardo was responsible for coordinating with multiple agencies, including Florida Division of Historical Resources, Miami-Dade County DERM, USACE, and SFWMD for relocation of District structures to ensure all regulatory criteria were met.

Countyline Corporate Industrial Park, Hialeah, Florida

Senior Reviewer for the environmental resource permit for the construction of an industrial site on top of a closed landfill. Eduardo reviewed and provided input on multiple options for the design of the stormwater management

system, including the use of drainage and injection wells, to ensure compliance with regulatory criteria. Challenges for this project included land constraints, wetland impacts, and site contamination. Eduardo was responsible for coordinating with multiple agencies, including the City of Hialeah, Miami-Dade County DERM, and FDEP, during formulation of the remedial action plan.

Nicaragua Wet Canal, Nicaragua

Senior Drainage Reviewer in charge of the environmental resource permit. Eduardo participated on the project team preparing a feasibility analysis to optimize the route for the proposed navigation canal connecting the Atlantic Ocean with the Pacific Ocean. He also conducted environmental site inspections and prepared a report applying local regulations, and US environmental criteria to identify and minimize environmental impacts in order to select the optimal route. Presented results to local officials and consortium of companies with financial interest in the realization of the project.

South Florida Water Management District (1987-2018) Engineering Specialist 4 (1996 – 2018)

Provided QA/QC, analyzed complex storm water management and environmental resource permit applications, and skillfully prepared the necessary written and oral reports commensurate with the complexity of the applications. Many years of experience in the review and analysis of hydrologic and hydraulic analyses and modeling for surface water management systems. Provided technical advice to other SFWMD units and external organizations as a representative of the department. Employed solid civil engineering expertise in conjunction with established criteria, accepted principles, and normal construction practices. Utilized construction plans/specifications, engineering and environmental reports and water resource computer program output. Communicated effectively with engineering professionals, attorneys, construction professionals, developers, agriculturists, and others on the District's stormwater management regulatory and right-of-way programs and related concerns. Exercised independent judgment (and decision-making) to the degree appropriate for the situation.



Brian LaMay PE, LEED AP Water/Wastewater/Force Mains/Lift Stations

Brian has 21 years of experience in the civil and environmental engineering field, with an emphasis in the detailed design of water and wastewater projects. His background includes managing and designing water and wastewater projects, including treatment plants, pump stations, pipelines, and wells. His responsibilities include design management of multidisciplinary design teams in the technical execution of design projects.

EDUCATION

University of Florida, 2001

Bachelor of Science in Environmental Engineering, University of Florida, 1998

REGISTRATIONS

Professional Engineer #60142, State of Florida
LEED Accredited Professional, U.S. Green Building Council

PROJECT EXPERIENCE

Park City Water Main Replacement, Sunrise, Florida
Engineer of Record/Design Manager in the design of new 4-inch, 6-inch, 8-inch, 10-inch, and 12-inch PVC potable water, force main, and reclaimed water piping. The design included installation of piping, new water services, connections to existing asbestos concrete pipe, and grouting and abandoning of existing pipe. Oversaw development of detailed design drawings, developed technical specifications and construction details, and provided coordination between all the design team.

Sawgrass Water Treatment Plant Expansion, Sunrise, Florida

Mechanical/Process Project Engineer on the expansion of the Sawgrass WTP from 12 mgd to 18 mgd. Design expansion included the addition of two nanofiltration membrane trains and associated feed pumps, cartridge filters, and chemical feed systems, and new corrosion inhibitor system. Completed detailed CAD design drawings and sizing/selection of process equipment and valves. Performed permitting and engineering services during construction.

Flamingo Park Wellfield and Raw Water Transmission Main, Sunrise, Florida

Project Technical Lead and Lead Civil design engineer in the design of four raw water wells (2,600 gpm each) and approximately two miles of ductile iron pipe raw

water transmission main piping with sizes ranging from 16-inches to 36-inches. The design included approximately 500 linear feet of a horizontal direction drill of 36-inch HDPE piping to cross underneath a multi-lane Broward County roadway. The design also included an 18-mgd pretreatment facility to remove sand at the Sawgrass Water Treatment Plant, portable generator tie-down modifications at an existing wellfield, and well pump upgrade modifications at an existing wellfield. Brian coordinated the development of detailed design drawings among the different design disciplines, while completing the civil design, including development of detailed design drawings and technical specifications. Brian provided technical leadership in coordinating with local City and County engineering, building, traffic, water management, and health departments to obtain all required construction permits.

Following design, Brian served as the Resident Project Engineer for the construction of this \$8.5 million construction project.

Conditions Assessment and Technical Evaluation of Water Treatment Plant Alternatives, West Palm Beach, Florida

As Project Engineer Brian completed a condition assessment and evaluation of treatment plant alternatives at the City's Water Treatment Plant to identify rehabilitation needs and provide a technical evaluation of treatment alternatives to meet consent order requirements. Identified long and short-term rehabilitation needs and authored technical memorandums presenting the assessment findings and recommendations. Treatment alternatives included lime softening, nanofiltration, micro filtration, reverse osmosis, magnetic ion exchange (MIEX), ozonation, and various combinations.

M-20 Lift Station Rehabilitation, Brevard County, Florida
Engineer of Record and Project Manager in the design, bidding, and engineering services during construction for this rehabilitation of an existing master lift station. Design included installation of three dry pit owner furnished pumps, new piping and valves, and owner furnished control panel.

Water and Wastewater Utility Facility Assessment, Wellington, Florida

Senior Project Engineer conducting an assessment of the Village of Wellington's Water and Wastewater Facilities to assist the Village in developing a Renewal

Brian LaMay PE, LEED AP

Water/Wastewater/Force Mains/Lift Stations

and Replacement (R&R) program. Brian was responsible for conducting a visual inspection and assessment of the mechanical assets at the Village's Water Treatment Plant, Wastewater Treatment Plant, and Storage Re-Pump Facilities. Brian complied and analyzed the assessment data and provided the Village with a database of inspected facilities and assets. He authored an Existing Conditions report presenting the condition of the assets, the expected replacement schedule for each asset with a planning level order of magnitude replacement cost, and general recommendations for R&R upgrades and improvements. The Village used the database and report to develop an R&R program and develop its Water and Wastewater Facility budgets.

CDWWTP Reverse Activated Sludge (RAS) Pump Station Improvements, Miami-Dade County, Florida

Project Manager and project Engineer of Record in the design of improvements to the five existing RAS Pump Stations at Plant 2 of the CDWWTP. The project included the replacement of twenty 50-hp RAS pumps; RAS pump piping, valves, and meters; RAS header piping; electrical equipment and controls, and enclosing the electrical equipment in a new environmental controlled room. Brian was responsible for overseeing all aspects of the projects, providing coordination between discipline engineers and subconsultants to develop detailed design documents to be used for bidding. Brian conducted permitting coordination for obtaining permits and approval from the City of Miami, FDEP, and the Miami Dade Department of Regulatory and Economic Resources on the behalf of WASD.

Master Pump Station No.3, Miami-Dade County, Florida

Project Technical Lead/Engineer of Record in the design of a new 29-MGD raw sewage pump station to convey flow from downtown Miami to the CDWWTP. The pump station is of a multi-level wet-well/dry configuration and includes four 300 hp variable speed vertical non-clog pumps with medium voltage motors. The station also included a generator building which houses one medium voltage generator, bulk diesel storage, and an FPL vault. Brian was the main technical interface with the WASD and was responsible for the technical execution of the project, providing coordination between technical leads and discipline engineers while developing detailed design civil and mechanical drawings and technical specifications. He conducted permitting coordination for obtaining permits

and approval from the City of Miami, FDEP, and the Miami Dade Department of Regulatory and Economic Resources on the behalf of WASD. Bidding services were also provided. The project was currently under construction and Brian served as the overall project engineering, overseeing engineering services during construction and construction management services.

Design Build Criteria Package for Gravity Sewer Interceptors to Pump Station No.3, Miami-Dade County, Florida

Project Technical Lead and Engineer of Record in the development of a design-build criteria package for use by the Miami Dade Water and Sewer Department to issue a Request for Design Build Services (RDBS) to obtain the services of a Design-Builder to design and construct gravity sewer interceptors to supply the new Master Pump Station No.3. The project consists of microtunneling 30, 36, 48, and 54-inch gravity sewer piping and manholes through downtown Miami to convey flow from existing Pump Station No.8 located in Brickell Avenue to the new Pump Station No.3. The design criteria package included development of a Basis of Design Report (BODR), Geotechnical Data Report, Geotechnical Baseline Report, Technical Specifications, and development of the RDBS with selection/scoring criteria and minimum qualifications. Brian was responsible for the civil design and working with the geotechnical engineers and WASD to develop the RDBS. Brian was in responsible charge of the overall project and oversaw the coordination with the tunneling and geotechnical design team, technical experts, permitting agencies, and the WASD. The project is currently under construction with WASD's Design Build Criteria Package engineer to ensure the Design-Builder is in conformance with the RDBS documents.

Rehabilitation of High Service and Transfer Pump Evaluation and Detailed Design, Margate, Florida

Engineer of Record and Project Manager for preliminary evaluation, detailed design, bidding, and engineering services during construction for rehabilitation of an existing transfer pump station and high service pump station at the City's Water Treatment Plant. Design included replacement of five 50hp vertical turbine transfer pumps, two 125hp and three 250 hp variable speed high service pumps, piping and valves. Provided permitting services, bidding services, and engineering services during construction.



Marlon Medina PE, CFM

Water/Wastewater/Force Mains/Lift Stations

Marlon has over 12 years of experience in the design of Civil Engineering systems including drainage, paving and utilities for large scale projects. He has served as project engineer for various drainage, water, sewer, underground electrical, and industrial projects. His experience has allowed him to effectively deliver projects satisfying all owner requirements. He is proficient at various software packages including Microsoft Project, MBR (SFWMD Multi-Basin Routing Software), Flowmaster, AutoCAD, AutoTurn and EaglePoint.

EDUCATION

Bachelor of Science in Civil Engineering, Florida State University, Tallahassee, Florida, 2008

REGISTRATIONS

Professional Engineer #77052, State of Florida
Certified Floodplain Manager #US-12-06741, State of Florida

PROJECT EXPERIENCE

Lift Station 122, 128, and 210 Rehabilitation, Sunrise, Florida

Engineer of Record responsible for the engineering analysis and report, design drawings, and specifications for the repair and rehabilitation of LS 122, LS 128, and LS 210. These three lift stations are not meeting current hydraulic demands and will be converted to submersible lift stations. A design criterion was developed and implemented to identify a new peak flow demand for each sewer basin. LS 122 will be upgraded with new 60 Horsepower pumps, variable frequency drives and an on-site natural gas generator. Engineering services will also include obtaining state and local permits, and Engineering Services during construction.

Lift Station 3 Rehabilitation, Davie, Florida

Engineer of Record responsible for the delivery of project documents and permit approvals necessary for the rehabilitation of Lift Station 03. LS 03 was not functioning and in need of emergency repairs. Stantec provided engineering services necessary to obtain state and local permits and meet US-EPA criteria. The design included new skid-mounted pumps to match existing capacity, wet well improvements, and site improvements.

MD-WASD's Pump Station Improvement Program (PSIP), Miami, Florida

Project Manager and Engineer of Record for several pump stations part of the PSIP. US-EPA issued a Consent Decree to Miami Dade County requiring over 112 sewer pump stations to be brought into compliance over a period of 5 years. Stantec was selected as a consultant to provide engineering services necessary for upgrading over a dozen pump stations and bringing them into compliance with US-EPA criteria. Marlon was responsible for the development and delivery of project documents including engineering analysis and reports, project drawings, and specifications. Engineering services also included obtaining state and local permits. Stantec has met the challenge of obtaining these permits in a very short period and delivering these pump station projects expeditiously to meet critical EPA deadlines. Certification of these pump stations removed them from Moratorium and allowed for Certificates of Occupancy to be issued with permission to connect to adjacent sewer systems.

MD-WASD PSIP – Pump Station #0698, Miami, Florida

Project engineer responsible for the engineering analysis and report, design drawings, and specifications for the construction of a new triplex pump station. Existing station is a dry-pit/wet well pump station where the pumps are set below grade and the motors are installed within an at-grade operating building located above the dry well. This station normally pumps directly into the suction side of Booster Station 0522. Engineering services include the design of a new submersible pump station, (3) new 47 HP submersible pumps, variable frequency drives, magnetic flow meter, automated control valves, control panels, radio telemetry, and electrical upgrades to the station. Automated control valves are designed to direct discharge wastewater to the suction or discharge side of BS 0522, this allows for a more efficient operating condition for both BS 0522 and PS 698. Upgrades to this pump station will increase capacity and remove from Absolute Moratorium.

MD-WASD PSIP – Pump Station #0124, Miami, Florida

Engineer of Record and Project Manager responsible for the delivery of project documents and permit approvals necessary for the construction of a new pump station. PS 0124 was in moratorium with Nominal Average Pump Operating Times over 10 hours per day. Stantec provided engineering services necessary to obtain state and local permits and meet US-EPA criteria. The design included

Marlon Medina PE, CFM

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increasing pumping capacity, motor sizes, new wet well and valve vault, upgrading the power supply into the station and new force main.

MD-WASD PSIP – Pump Station #0494, Miami, Florida
 Engineer of Record and Project Manager responsible for the delivery of project documents and permit approvals necessary for the upgrades of pump station 0494. This pump station services part of the Golden Beach neighborhood, Center Island. Design services included upgrades to the electrical facilities, (2) new 20 HP pumps, rectifying illegal force main, and implementing Climate change resiliency features for stations in Coastal communities. Stantec provided an outside the box design that allowed for a shorter construction time and minimized utility conflicts. configuration. The new peak flow capacity of Pump Station 0494 allows for future connections within its basin, critical in an area re-developing at a rapid pace.

MD-WASD PSIP – Pump Station #0076, Miami, Florida
 Project Engineer responsible for the engineering analysis and report, design drawings, and specifications for the repair and rehabilitation of PS 0076. This pump station was comprised of a dry-pit and wet well and required the installation of (2) new dry-pit mounted submersible pumps with 54 Horsepower motors. The existing pump station was retrofitted to accommodate the new pumps and a trolley system for removal of the pumps. The pump station meets a peak demand of 1910 gallons/minute and allows for future connections within its 0.25 square mile basin.

K8 Drainage Improvements, Key Biscayne, Florida
 Engineer of Record for the study, planning, design, and permitting of this drainage basin in the center of Key Biscayne. This basin is the lowest lying area of the key and during heavy rainfall it would take days for the water to recede. Upon studying different options, it was determined that a pump station was the ultimate solution; however due to available funding the immediate project was to install two new gravity wells fitted with tideflex valves. The wells were sized and designed to allow for conversion to pressure wells in the future as funding becomes available. The completed project has demonstrated that the wells are effective in draining water quickly after heavy storm events.

Master Pump Station 104.00 Vertical Asset Hierachy Development, Collier County, Florida

Project Engineer responsible for the asset management evaluation of Master Pump Station 104.00. Services included an analysis of available project cost information necessary to assign a reasonable capital cost to each utility asset. Project data including the Construction Plans, Schedule of Values, Cost Estimate, Bid Tabulation, and Technical Specifications were broken down in the development of a final asset cost. These efforts assisted the Stantec GIS team in developing an ArcGIS based inventory that will aid Collier County in forecasting future capital costs when planning for utility improvements.

Pelican Marsh Irrigation Pump Station Improvements Collier County, Florida

Project Manager responsible for the delivery of a site improvement project at the Pelican Marsh Irrigation Pump Station. The improvements will provide appropriate vehicular and pedestrian access to the station's control building and will also remove nuisance drainage ponding in the building. Engineering Services included local permitting with Collier County, bid assistance, and Engineering Services during construction.

Picardy-Perkins Connector Storm Water Pump Station, Baton Rouge, Louisiana

Project Engineer for pre-design and detailed engineering of a storm water pump station for a new railroad underpass. The multi-disciplined project included civil, mechanical, structural, electrical, and controls design for this 35-foot deep, pre-cast concrete pump station incorporating three (2) 50-hp submersible mixed-flow pumps each with a rated capacity of 10,000 gpm, along with discharge piping and associated outfall facilities, and associated facility power and control systems.

Village of Palmetto Bay Drainage Improvements Phase V, Palmetto Bay, Florida

Project Engineer involved with street and drainage improvements. Design elements included field review of existing conditions, limited engineering survey of roadway centerline elevations and low points as needed to establish flow patterns and collection points, perform engineering analysis and design of new drainage systems or system improvements/modifications, and preparation of construction sketches sufficient for construction. Duties also included drainage report and detailed cost estimates.



Dave Clarke PE, CFM Water/Wastewater/Force Mains/Lift Stations

Dave has 18 years of experience on numerous public infrastructure projects which includes coordination and design of water and wastewater utilities for major projects, including urban arterials, limited access facilities, for City of Sunrise, Town of Davie, Miami-Dade County Water and Sewer Department (M-D WASD), and design-build projects for Florida Department of Transportation (FDOT), and Florida Turnpike through Joint Project Agreements (JPAs). He has extensive permitting experience with many of the regulatory agencies including the Florida Department of Environmental Protection Department (FDEP), South Florida Water Management District (SFWMD), Department of Health (DOH), and numerous Public Works Department in Broward and Miami-Dade County.

EDUCATION

Master of Science in Civil Engineering, Florida International University, Miami Beach, Florida, 2008

Bachelor of Science in Civil Engineering, Florida International University, Miami Beach, Florida, 2002

REGISTRATIONS

Professional Engineer #66553, State of Florida
Professional Engineer #040056, State of Georgia
Certified Floodplain Manager #US-12-06737, State of Florida

CERTIFICATIONS & TRAINING

Advanced Maintenance of Traffic Certification, FDOT, Florida, 2012
Design Certification, FUCC Utility Coordination, Florida, 2012
Construction Certification, FUCC Utility Coordination, Florida, 2011
Coordination, Cost Estimate & Billing Certification, FUCC Utility Coordination, Florida, 2010

PROJECT EXPERIENCE

City of Sunrise, JPA Relocation 8-inch Water Main, Broward County Florida

Project Manager for this project for which the City of Sunrise Utilities Department owns and maintains an existing distribution 8-inch Polyvinyl Chloride (PVC) portable Water Main (WM) facility which currently serves residents and businesses along SR 84 EB between Pine Island and University Drive. It is necessary to relocate

a portion of this WM along SR 84 EB to facilitate the proposed sound barrier wall number six (6) construction which consists of two sections along SR 84 EB. The firm is in charge of the design to relocate approximately 550 LF of the existing WM, the technical special provisions and permitting through FDOT (utility office) and Broward County Health Department.

Town of Davie JPA Relocation 4-inch Force Main, Broward County, Florida

Project Manager for this project. The Town of Davie Utilities Department owns and maintains an existing 4-inch Polyvinyl chloride (PVC) Force main (FM) facility which currently serves Bradford Marine. The existing 4-inch FM ties into an existing lift station at Bradford Marine then continues to the west North of SR 84 WB, Ramp U-15 and South of Canal Drive, and diverts to the North into New River Cove Apartments, where it terminates into an existing manhole. The firm is in charge of the design to relocate approximately 942 LF of the existing FM, the Technical Special Provisions, quantities, and permitting through FDOT (utility office) and FDEP.

JPA Relocation Plans 16-inch Force Main, Broward County, Florida

Project Manager for this DBFOM project with concessionaire Dragados USA. The City of Sunrise Utilities Department owns and operates a 16-inch Ductile Iron Pipe (DIP) Force Main (FM) facility serving residents and businesses throughout the I-595 corridor and was in conflict with the I-595 Improvements. The roadway improvements required a design to relocate approximately 1,026 LF of existing FM, the technical special provisions, quantities, and permitting through FDOT (utility office) and FDEP.

JPA Relocation Plans 16-inch Water Main along NW 47th Avenue, Miami, Florida

Project Manager for the design and construction of 10,023 LF of 16" ductile iron watermain, along SR 847/NW 47th Avenue from SR 860/NW 183rd Street to North of NW 207th Drive and a 500 LF horizontal directional drill (HDD) beneath the SFWMD Snake Creek Canal. The project includes installation of new fire hydrants according to Miami-Dade Fire Department requirements, new water services and reconnections of existing stub outs within the project limits. Services provided include; conducting site investigations, utility

Dave Clarke PE, CFM**Water/Wastewater/Force Mains/Lift Stations**

coordination, topographic surveys, geotechnical investigation, engineering design, develop construction documents (plans & specifications), permitting and providing support services during procurement and construction.

MDWASD Design Criteria Package for 36-inch Force Main, Miami, Florida

Project Manager. As part of the Doral Area Sewer Improvements, MD-WASD intends to abandon-in-place an existing 24" force main and replace it with a 36" DIP force main along NW 107th Avenue, from a point approximately 300 feet south of NW 7th Street (Fountainbleu Blvd.) to NW 25th Street. The 36" DIP force main will cross under the CXS rail road located just north of SR 836. The new force main will connect to an existing 36" force main at the south part terminus, and to an existing 20" force main at the north part terminus. Stantec is the Design/Build Criteria Professional (DCP) for this project responsible for the development of a Design Criteria Package, Procurement Support and limited services during the Design-Build Contract period. This included gathering and reviewing background information for evaluating possible pipeline alignments and recommend the final alignment to be used for the base Design criteria, Request for Design Build Services (RDBS) Volumes I and II Package per M-D WASD requirements and procurement support.

Sanitary Sewer Evaluation Study (SSES), Medley, Florida

Project Inspector responsible for field evaluation of field investigation data by independent contractor of the city-wide collection system, including cleaning, television inspection, manhole investigation, inflow and infiltration and smoke testing. Inspector responsible for marinating progress sketches, repair quantities, and quality of work.

JPA Relocation for 8-inch Waste Water Force Main and Gravity Sewer along NW 47th Avenue, Miami, Florida

Project Manager for the construction documents for the installation of approximately 1,100 LF of 8" ductile iron waste water forcemain and 2, 500 LF of gravity sewer along SR 847/NW 47th Avenue from SR 860/ NW 183rd Street to North of NW 207th Drive. Services provided include; conducting site investigations, utility coordination, topographic surveys, geotechnical investigation, engineering design, develop construction documents (plans & specifications), opinion of probable construction cost, permitting and providing support services during procurement and construction.

I-595 Express Design Build Fire Suppression System, Broward County, Florida

Project Engineer. The new Express Lanes will be "managed" lanes; that is, traffic will flow east-bound in the early morning hours and west-bound in the afternoon and evening hours. Because these 'Express Lanes' will be isolated from municipal hydrant access along SR 84 a special fire protection or fire suppression system (FSS) is being provided. The FSS is a dry-type (wet, but not under pressure) pipe system, which is independent of the municipal water supply and distribution system. The functioning of the FSS depends on booster pumps connected by the Fire Department(s) to the municipal system, to supply water under pressure to the FSS. A combination of Inlet an Outlet stand pipes will be strategically located to allow for the system to be used in fighting fires. Project included design to install approximately 29, 437 LF of new 8-inch water main, 6, 680 LF of 10-inch new water main, the technical special provisions and permitting through FDOT and Davie and Sunrise Fire Departments.

SL-1B.1 66-inch Force Main to SDWWTP Phase 1, Miami, Florida, Miami, Florida

Design Manager for this project. SL-1B.1 is an MD WASD 66-inch transmission force main proposed to convey wastewater flows from the east terminus of SL-2.2 100 feet west of the intersection of SW 112TH Avenue and SW 216TH Street to the existing 60-inch pipe connection on an existing 72-inch transmission force main at the the intersection of SW 97TH Ave and SW 216TH Street near the SDWWTP. The force main has an approximate length of 8,700 linear feet. There is trenchless crossing under the Florida's Turnpike and SFWMD's Black Creek (C-1) Canal with a Mirco-tunnel. A new 90-inch steel casing will be used to accomplish the micro tunnel.

PS 1- PS 2 Interim Piping Upgrades, Miami, Florida

Suction & Discharge Piping Upgrades at MDWASD's two largest Pump Stations (PS-1 and PS-2). Project includes new piping (42-inch, 48-inch and 60-inch), plug valves (42-inch, 48-inch and 60-inch) and fitting to allow flexibility in flow into and out of these two stations, and into the two cross-bay force main manifolds. Responsible for design, client management, permitting, utility coordination, specifications and cost estimate.



Christopher Benitez PE, PTOE, RSP¹ Roadways/Traffic Engineering

Christopher has been working in the transportation field for more than 13 years. His experiences includes transportation planning, traffic and safety engineering, Project Development & Environment (PD&E) Studies, Interchange Access Requests (IAR), Efficient Transportation Decision Making (ETDM) process, transit planning, public involvement support, in-house consulting, and managing on-call/Districtwide contracts. He has worked on projects for FDOT District Six, FDOT District Four, FDOT District One, FDOT Central Office, Miami-Dade Transportation Planning Organization (TPO), Broward Metropolitan Planning Organization (MPO), Florida's Turnpike Enterprise, Miami-Dade Expressway Authority (MDX), South Florida Regional Transportation Authority (SFRTA), and local governments within South Florida including the City of Doral, City of Miami, City of South Miami, and City of Coral Gables.

EDUCATION

Bachelor of Science in Civil Engineering, Florida International University, Miami Beach, Florida, 2006

REGISTRATIONS

Professional Engineer #74035, State of Florida
 Certified Professional Traffic Operations Engineer #4286,
 Transportation Professional Certification Board Inc.
 Road Safety Professional (RSP) #323, Transportation
 Professional Certification Board Inc.

CERTIFICATIONS & TRAINING

Training, FDOT Traffic Analysis for PD&E Studies, 2019
 Training, FDOT Standard Scope of Services for
 Concurrent PD&E and Design Webinar, 2019
 Training, FDOT Interchange Access Request (IAR)
 Process and Safety Webinars, 2018
 Training, FDOT Highway Safety Manual (9 webinars),
 2017
 FSUTMS, Comprehensive Modeling Workshop, 2007
 Training, FDOT, PD&E Manual Webinar, 2012
 Training, Florida Advanced Maintenance of Traffic, 2013
 Training, PVT, VISSIM Introduction, 2015
 Training, Introduction to Activity Based Models and
 SERPM, 8.0, 2016

PROJECT EXPERIENCE

Doral Central Park Traffic Study, Doral, Florida
 Lead Traffic Engineer for the development of the
 Doral Central Park Traffic Study. Reviewed traffic data

collection; performed traffic volume assessment;
 completed trip generation and distribution; performed
 intersection analysis with Synchro; roadway segment
 analysis; project driveway analysis; diagnosed
 recommended improvements; and, completed
 documentation.

Traffic Operations and Parking Assessment of the SW 8 Street and SW 39 Avenue Area, Miami, Florida

Developed final document, coordinated/reviewed data
 collection effort, performed field reviews, and analyzed
 traffic operations of the area utilizing SYNCHRO software.

Traffic Flow Modification Study at Stillwater Drive and 79 Street, Miami Beach, Florida

Project Manager for a traffic study that evaluated the
 repurposing of travel lanes for parking within the City of
 Miami Beach. This improvement would modify the flow of
 traffic to one-way operations. Christopher evaluated the
 traffic data and impacts from this proposed improvement
 along the roadway segments and intersections.

Traffic Calming Study along SW 74th Street, South Miami, Florida

Project Manager for the traffic calming study along
 SW 74th Street between SW 63rd Avenue and SW 65th
 Avenue within the City of South Miami. Performed
 traffic operational analysis that included an assessment
 of traffic volumes, vehicle speeds, and intersection
 operational analysis.

Miami Springs Pedestrian Crossing Feasibility Study, Miami-Dade County, Florida, FDOT District 6

Project Manager for a feasibility study of a potential
 pedestrian bridge between the City of Miami Springs and
 the Metrorail Okeechobee Road Station crossing over the
 Miami Canal and SR 27/Okeechobee Road. Completed
 a qualitative existing conditions assessment, identified
 design criteria, and determined the recommended
 alignment, structural requirements, environment permits,
 cost estimates, and preliminary project challenges and
 risks.

Safety Analysis Report for the PD&E Study along I-95 between Stirling Road and Oakland Park Boulevard (9 miles), FDOT District 4

Deputy Project Manager for the Safety Analysis Report
 that was completed for the PD&E Study. He extracted the

Christopher Benitez PE, PTOE, RSP¹ Roadways/Traffic Engineering

crash data, identified crash patterns, determined probable causes, and developed the Safety Analysis Report. Christopher also identified an existing signage issue near an interchange that resulted in FDOT issuing a work order to upgrade the signage.

Safety Analysis for Sawgrass Express Lanes Direct Connect to/from I-75 Feasibility Study, Sunrise, Florida's Turnpike Enterprise

Completed a safety analysis of project alternatives. The analysis included an Highway Safety Manual (HSM) predictive crash estimations, Interactive Highway Safety Design Model (IHSDM) results reduction, and benefit-cost analysis.

National Transit Database (NTD) Revenue and Shuttle Bus Capitalization Analysis, South Florida Regional Transportation Authority (SFRTA)

Documented the research of existing shuttle bus routes in the South Florida region, reviewed NTD rules and regulations, researched opportunities for partnerships with local agencies, calculated capital purchase of new SFRTA shuttle vehicles, and reviewed the potential of restructuring of existing shuttle bus contracts.

Interchange Modification Report (IMR) for SR 84 Eastbound to I-75 Southbound, Broward County, Florida, FDOT District 4

Deputy Project Manager and traffic engineer responsible for the development of the IMR, Methodology Letter of Understanding (MLOU), traffic operational analysis, future traffic development, safety analysis, and the conceptual signage master plan. Christopher utilized CORSIM Microsimulation software, Synchro, HCS, and Microstation tools for the project.

SW 344th Street and US-1 Evacuation Planning Assessment, Miami-Dade Metropolitan Planning Organization (MPO)

Performed background research, reviewed the conceptual plans, and coordinated with various agencies.

General Engineering Consultant, Miami-Dade Expressway Authority (MDX), Miami-Dade County, Florida

Transportation Engineering consultant who assisted with PD&E document reviews, public involvement support, coordination, and traffic analysis activities.

Miami Trolley System Development, Miami, Florida

Assisted with the planning aspects including the development of 5 trolley routes within the City of Miami. Some tasks included public outreach, development of operational characteristics, calculation of operations and capital costs, research of funding applications and cash flow analysis.

Proposed FTA (Lead Agency) Transit Projects, FDOT District 6

Developed the scope of services for the Beach Corridor Transit Connection (Baylink) PD&E Study utilizing FTA Policy Guidance on CIG Program and draft PD&E Chapter for Transit Project Delivery (not finalized). The proposed improvements from this project include a Light Rail Transit (LRT) system between Downtown Miami and Miami Beach. Also, assisted with reviewing the PD&E Scope of Services for other Premium Transit projects for Flagler Street, Kendall Drive, and NW 27 Avenue corridors.

Traffic Impact Study for Suncoast Community Church Rezone and Special Exception, Sarasota, Florida

Task Manager responsible for completing traffic impact statement which included trip generation calculations and intersection operational analysis with Highway Capacity Software (HCS).

Work Zone Traffic Analysis for Mobile River Bridge Design/Build, Mobile, Alabama, ALDOT

Task Manager responsible for completing a work zone analysis for several lane closures for the Mobile River Bridge project, (a multi-billion dollar project). The analysis included work-zone alternatives evaluation by freeway segment and arterial analysis with Highway Capacity Software, intersection operational analysis Synchro, turn-lane queuing evaluations to check for potential spillback. This work activity was completed during the Design-Build Team procurement stage of the project.

Interchange Modification Report (IMR) for SR 84 Eastbound to I-75 Southbound, Broward County, Florida, FDOT District 4

Deputy Project Manager and Traffic Engineer responsible for the development of the Interchange Modification Report (IMR), Methodology Letter of Understanding (MLOU), traffic operational analysis, future traffic development, safety analysis, and the conceptual signage master plan. Christopher utilized CORSIM Microsimulation software, Synchro, HCS, and Microstation tools for the project.



Patrick Leung PE

Roadways/Traffic Engineering

Patrick has been a South Florida resident since 1973 after emigrating from Hong Kong. He has over 36 years of experience in designing highway interchanges, freeways, complex urban roadways, drainage, railroad, bridge structures, small buildings and specialty structures. As the Regional Transportation Manager for both Broward and Palm Beach offices, Patrick and his team have successfully completed projects for FDOT Districts 4 and 6 and the Florida Turnpike. He recently led the efforts on the I-75 Miramar Interchange Improvements Design/Build project which received the FTBA's Florida Best Construction Award in 2013. In addition to being formerly recognized with this award, the Client Project Manager gave our team an even better gift – his feedback that Stantec is his firm of choice because we always offer innovative solutions to project challenges while garnering stakeholder buy-in and support.

EDUCATION

Bachelor of Science, Civil Engineering, University of Miami, Miami, Florida, 1987

Bachelor of Science, Architectural Engineering, University of Miami, Miami, Florida, 1987

Associate of Science, Broward Community College, Fort Lauderdale, Florida, 1983

REGISTRATIONS

Professional Engineer #50617, State of Florida

CERTIFICATIONS & TRAINING

Certification, ATSSA, WZTC, 2012

Certification, FDOT, Spec Package, 2012

Certification, FDOT, Project Management Part 1, 2012

PROJECT EXPERIENCE

I-95 Express Corridor Design Consultant (CDC) Phase 3A-2 from Commercial Boulevard to SW 10 Street, FDOT District 4

This DB project provides two express lanes in each direction on I-95 by converting an existing HOV lane and adding one express lane by outside widening. It's a very fast track DB project with many scope changes after letting. Patrick is representing the CDC team as the Design Liaison, for post design services, responsible for the coordination for the review and approval of the design submittals for all design disciplines, RFIs, shop

drawings, CSIs, SAs, and design / construction decisions. The post design services include attending all progress and resolution meetings. Special design support and coordination efforts include FEC ROW acquisitions for the I-95 over FEC Bridge, Bridge Load Rating analyses revaluations, resolve local agencies' issues (including cross streets), and provide/coordinate design resolutions whenever design/ construction issue arises.

I-95 Express Corridor Design Consultant (CDC) Phase 3B-1 & 3B-2 from SW 10 Street to Glades Road, and from Glades Road to Linton Boulevard, FDOT District 4

This DB project is to provide two express lanes each direction on I-95 by converting an existing HOV lane and adding one express lane by outside widening. Other improvements include adding auxiliary lanes both directions, a new Hillsboro Canal Bridge in Phase 3B-1, and reconstructing Clint Moore Rd Bridge in Phase 3B-2. Patrick is the strike team lead for the design concepts of these two segments and for preparing the RFP criteria packages. His design coordination responsibilities include aerial scope plots; roadway; signing and markings (toll / express lane signage included); drainage, permitting, bridge structures; lighting; signalization (including ramp metering); utility coordination; toll facilities, and ITS. Other responsibilities include RFP languages; RFP attached / reference documents; ELOI evaluations ATCs evaluations; and Technical Packages evaluations. Extremely fast track schedule where Phase 3B-1's draft RFP Package was produced in less than 4 months. There were significant challenges with the express lanes' ingress / egress points that were changed multiple times during the procurement phase due to updated traffic data and Turnpike inputs.

SR-821 / HEFT from North of Bird Road to SR-836 RFP Package, Florida's Turnpike Enterprise

Project Manager and Engineer of Record responsible for preparing the RFP Package and provides Procurement Services for Florida Turnpike Enterprise for this \$133.2 million D/B Project. The project scopes included the overall design concept for the widening and resurfacing of the mainline HEFT; extend and add new auxiliary lanes; new noise walls; new conventional and electronic toll signs; new ITS structures; new lightings; signalizations; drainage upgrades; side streets improvements; bridges widening over side streets and canals; bridge replacement over HEFT on Coral Way; and new express lanes connector ramp bridges to and from SR-836. Modification to the HEFT mainline horizontal and vertical

Patrick Leung PE Roadways/Traffic Engineering

geometries was part of the innovative approaches to achieve the design objectives. Under his guidance, his team provided innovative approaches to resolve permitting issues with SFWMD for a ramp bridge over C-4 Canal, and utility issues with FGT (Florida Gas Transmission) gas line under the HEFT mainline overpass at SW 8th Street.

I-75/Miramar Parkway Interchange Improvements in Broward County, FDOT District 4

Design Project Manager and Engineer of Record for this \$12.2 million project which involved the milling and resurfacing of the mainline, the addition of two new auxiliary lanes, the addition of new noise walls, addition of new ITS structures drainage upgrade, and deck replacement for the bridge over Snake Creek Canal on I-75 and replacement of overhead sign structures. This project also involved the two new ramp terminus relocations and the Miramar Parkway improvement. Improvements on Miramar Parkway include adding sidewalks on the Miramar Parkway Bridge over I-75, bridge barrier upgrades to current standards, new pedestrian railings, new sidewalks, new mast-arm signals, and upgrading existing mast-arm signals. Innovative MOT was proposed to eliminate the need for sacrificial bridge widening for the northbound bridge deck replacement to reduce construction time and cost. TCP was further improved by eliminating one MOT phase during construction to lessen the impact to the traffic.

595 Express Design Build Finance Operate Maintain (DBFOM) from I-75 to West of I-95 in Broward County, Florida for FDOT District 4

Senior Roadway Engineer for the Zone 4 segment. This project consists of a \$1.5 Billion (Construction) Public Private Partnership (P3) Infrastructure project covering 10.5 Miles of improvements along I-595 including the total reconstruction of the interstate and the implementation of three reversible tolled express lanes. The pavement design included considerations for several segments with varied geotechnical and traffic characteristic. The analysis and design considered both flexible and rigid pavement design for the new 3-lane reversible express lanes proposed within the I-595 median. The final output of this project was a pavement design recommendations for rehabilitation, widening, or reconstruction of the mainlines, Reversible Express Lanes, auxiliary lanes, shoulders, ramps, crossroads of I-595, and SR 84.

Forest Hill Boulevard (SR 882) 3R improvement, West Palm Beach, Florida, FDOT District 4

Project Manager for this complex urban project which involves the widening of travel lanes, drainage system improvement, pedestrian signal upgrades, ADA ramp upgrades, new median planters, extensive utility coordination, within the city limits of West Palm Beach. Coordination with the City of West Palm Beach to obtain concurrence of the proposed typical section, landscaping concept design and other amenities including TDLC features. This project required extensive public involvement and coordination with local agencies to resolve local concerns. The project has converted to a POP (Pavement Only Project) per joint decision from local residents, local agencies, school officials and FDOT.

SR 710 3R Improvements from Okeechobee County Line to East of the SR 76 Ramps, FDOT District 4

Engineer of Record responsible for the Constructability and Biddability Phases and Final Production Submittals for the 3R improvements to 17-miles of SR 710 within Martin County and the Indiantown Community. The project includes 2-component plans, one from MP 0.154 to MP 14.648, and one from MP 14.648 to MP 17.722 that includes an urban, undivided 4-lane section through Indiantown with a scramble lane. The scope includes pavement rehabilitation, cross-slope correction, and a new sidewalk to complete current gaps and to connect residents to Martin Luther King Drive. Project involved extensive public involvement and coordination efforts with Martin County as well as Indianwood Town on landscaping design issues, new median planter islands, new sidewalks and bike paths, signalized mid-block pedestrian crossings, decorative lightings, drainage improvements, impact with the new Natural Gas facility, and impact with the new commercial development property (Venture Park).

SR-5 / Biscayne Boulevard from 87th Street to 123rd Street, Miami-Dade County, Florida

Project Manager responsible for 30% and 60% submittal of roadway plans design of this busy corridor. Provided, as part of a fast-track submittal, all roadway design elements, including access management and plans preparation for the proposed enhancement. Also assisted the drainage system design. The corridor spans over three local municipalities in a heavy urbanized area, and includes 26 intersections.



Matthew Crim PE, PTOE Roadways/Traffic Engineering

Matt has 15 years of experience in transportation planning/engineering. His technical experience includes arterial and intersection level-of-service analyses, signal timing optimization, signal preemption studies, signal warrant analyses, corridor studies, traffic impact analyses, micro and macro traffic modeling, long-range transportation planning/modeling, land use analyses, access management, traffic calming measures, and parking analyses.

EDUCATION

Master of Engineering, University of Florida, Gainesville, Florida, 2005

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

REGISTRATIONS

Professional Engineer #68297, State of Florida
Professional Engineer #11800067, State of Indiana
Professional Engineer #81033, State of Ohio
Professional Engineer #102538, State of Texas
Certified Professional Traffic Operations Engineer #3067,
Institute of Transportation Engineers

CERTIFICATIONS & TRAINING

Advanced Work Zone Traffic Control, Department of Transportation, Florida, 2018

PROJECT EXPERIENCE

SR 810 Lane Elimination Study, Deerfield Beach, Florida
Project Manager responsible for preparing lane elimination report. This project consisted of vehicular, pedestrian, and bicycle safety improvements along Hillsboro Boulevard (SR 810) from Dixie Highway (SR 811) to Federal Highway (US 1). This was accomplished by changing the typical section from a seven-lane undivided roadway to a four-lane divided roadway with bike lanes. Components of the study required the development of a concept plan, crash data analysis, operational analysis, qualitative assessment, and a preliminary cost estimate of the construction cost.

Glenview Drive Sidewalk Improvements, Tallahassee, Florida

Project Engineer responsible for sidewalk design. Stantec designed and prepared contract plans and documents for the construction of approximately 4,400 feet of proposed

sidewalk along Glenview Drive. The project is part of the City's Residential Sidewalk Program.

Roundabout, Honore Avenue at Central Sarasota Parkway, Sarasota, Florida

Traffic Engineer responsible for operational analyses comparing a roundabout to traditional intersection improvements. Stantec designed improvements for a two-lane roundabout at the intersection of Honore Avenue and Central Sarasota Parkway.

Honore Avenue Phases I-V (SR 681 to Palmer Ranch Parkway), Sarasota County, Florida

Traffic Engineer responsible for project-related traffic analysis, studies, and master plans. Stantec provided surveying, design, and permitting services for the construction of Honore Avenue from State Road 681 to Palmer Ranch Parkway. This 5-mile stretch of new roadway is designed to serve as a major County north-south arterial and as access to development parcels within Palmer Ranch.

Clark Road/Gantt Road/Approach Road Intersection Analysis, Sarasota County, Florida

Traffic Engineer responsible for project-related traffic analysis, studies, and master plans. Stantec performed an intersection capacity analysis at the Clark Road/Gantt Road/Approach Road intersection using Synchro software. The analysis accounted for the redistribution of traffic facilitated by a new access road from the Sarasota Memorial Care Center East Campus to Approach Road. The analysis demonstrated that the adopted level of service at the intersection was maintained with the redistribution of traffic.

Big Bend Road/I-75 Interchange Improvements, Hillsborough County, Florida

Prepared an Interchange Operational Analysis Report (IOAR) evaluating developer stipulated improvements to the Big Bend Road and I-75 interchange. The IOAR consisted of performing a complex traffic analysis which included a capacity analysis and micro-CORSIM traffic modeling. The information from this analysis set design criteria for the interchange improvements and the surrounding roadway network.

Central Sarasota Parkway - I-75 Interchange PD&E Study & Final Design, Sarasota County, Florida

Traffic Engineer responsible for project-related traffic

Matthew Crim PE, PTOE Roadways/Traffic Engineering

analysis, studies, and master plans. Stantec conducted the Project Development and Environmental (PD&E) Study and final design on behalf of Sarasota County, Palmer Ranch, and the FDOT District 1. The interchange will complete the extension of Central Sarasota Parkway from Honore Avenue to I-75 and provide new access to and from the interstate for area residents.

Quincy Bypass Northern Loop Corridor Alternatives Study

Gadsden County, Florida

FDOT hired Stantec to evaluate a new roadway alignment that reroutes traffic north of the town square area of downtown Quincy, Florida. The corridor will help alleviate truck traffic from moving through downtown Quincy and provide additional system connectivity. Responsible for preparing the Design Traffic Technical Memorandum (DTTM) which examined the existing traffic conditions and developed future travel projections using the CRTPA Travel Demand Model. In addition, a roundabout feasibility evaluation was conducted at the three new major intersections created by the Quincy Bypass at SR 12, CR 65, and SR 267. A Level 2 Roundabout Life Cycle B/C Evaluation was conducted comparing a roundabout to traditional intersection improvements for the Opening Year of 2025 and Design Year of 2045.

North Cattlemen Road PD&E and Design, Sarasota County, Florida

Traffic Engineer responsible for traffic analysis for the development of the PD&E Study and final design for the widening and extension of North Cattlemen Road from Richardson to DeSoto Road (total project length 2.8 miles). The traffic tasks associated with this project included the production of the Design Traffic Study, the preliminary roadway design and the traffic elements of the Project Development Summary Report (PDSR). The Design Traffic Study included the capacity analysis for the roadway alternatives scenarios for intersection and arterial analysis. FSUTMS and HCS were used in the production of this analysis.

Bulldog Drive PD&E and Design, Palm Coast, Florida

Provided traffic analysis for transportation engineering elements. Stantec managed a team providing the full PD&E services, transportation planning, alternatives analysis, and right-of-way survey for the evaluation of the potential improvement of Bulldog Drive from its existing two-lane, rural cross-section, to a multiple lane,

urban divided cross-section. Responsible for traffic design reports in support of the FDOT permitting. These reports included the intersection capacity analysis at Bulldog Drive/SR 100, the development of an access management configuration for Flagler Palm Coast High School adjacent to SR 100 and Bulldog Drive.

Old Kings Road PD&E Study, Palm Coast, Florida

Traffic Engineer responsible for traffic analysis portion of the PD&E study. Stantec provided project management oversight for the development of the PD&E Study for the widening and extension of Old Kings Road from Palm Coast Parkway to north of Matanzas Woods Parkway (total project length 5.2 miles). Responsible for producing the Design Traffic Study which included the capacity analysis for the roadway alternatives scenarios for intersection and arterial analysis using the Central Florida Travel Demand Model to determine gross traffic volumes and Highway Capacity Software for the arterial and intersection analysis.

Pine Ridge Road Corridor Congestion Study, Collier County, Florida

Provided traffic engineering services as part of the congestion study of the Pine Ridge Road corridor near I-75. Services included land use analysis, levels of service analysis of existing and future conditions, development and testing of potential solutions, and public involvement. Innovative concepts developed along the corridor included a continuous flow intersection (CFI), jug handle intersection, restricted crossing U-turn (RCUT) intersection, and a diverging diamond interchange (DDI).

SR 10 Resurfacing, Rehabilitation, and Restoration from Ocala Road (US 90/West Tennessee Street) to SR 61 (US 27/Monroe Street), Tallahassee, Florida

Traffic Engineer responsible for preparing a mid-block crossing study which evaluated vehicular, pedestrian and roadway conditions at three locations near the Florida State University campus. The study included an analysis of sight distance, pedestrian generators and attractors, pedestrian volumes, vehicular volume, and pedestrian crashes. This was completed as part of the 3.25-mile resurfacing, rehabilitation, and restoration project of a six-lane divided urban arterial roadway for the FDOT.



Sean Compel PE, LEED AP Construction Engineering Inspections

Sean has over 18 years of extensive experience in the planning, design, permitting and construction of civil engineering and site development projects. He has served as project construction administrator and project manager for various roadway, drainage, water, sewer, underground electrical, and industrial projects. Clients include municipalities, state agencies, educational facilities, and private businesses. His experience in construction services has allowed him to effectively deliver projects satisfying all owner requirements and goals. Responsibilities during construction include permitting, review of scheduling, and overall cost analysis.

EDUCATION

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

REGISTRATIONS

Professional Engineer #66618, State of Florida
Envision Sustainability Professional (ENV SP)
LEED Accredited Professional, U.S. Green Building Council

PROJECT EXPERIENCE

Grove Park Phase 2: NW 18th Place, Miami, Florida
Construction Administrator for this critical area of drainage improvements. The Grove Park area just south of SR 836 has a history of flooding and low-lying homes have been in need of relief for quite some time. After studying the area, it was determined that utilizing an existing outfall as well as providing a new connection to the existing large pump station would provide the best relief. This project, though challenging during construction, was completed on time and provided the necessary drainage solution. Construction activities and lanes closures had to be coordinated with the Miami Marlins baseball home schedule due to the proximity to the stadium.

Caribbean Boulevard Roadway Improvements, Cutler Bay, Florida

Construction Administrator for this award-winning project which greatly enhanced Caribbean Boulevard from Coral Sea Road to SW 87th Avenue. This Joint Participation Agreement between Miami-Dade County and the Town of Cutler Bay successfully accomplished several important goals including pedestrian safety, traffic calming, improved traffic flow and overall beautification. This

critical segment involved full roadway reconstruction improvements including pavement reconstruction, new curb and gutter, new sidewalks, two new traffic circles, continuous drainage system, new medians, an entrance sign, custom bus shelters, bus bays, street furniture, landscaping, and decorative roadway lighting.

Palmetto Bay Drainage Improvements, Palmetto Bay, Florida

Project Manager and Construction Administrator for the field surveying, design, permitting, bidding, and construction of drainage improvements at various locations throughout the Village. The Village's stormwater master plan identified and prioritized areas with flooding problems. Many areas had no existing drainage. Each phase of construction included the installation of drainage structures, exfiltration trenches, connections to the existing system, and associated restoration. All phases of work were completed on schedule and under budget.

Sunset Drive Improvements (West of US 1), South Miami, Florida

Construction Administrator for this master planning project involving the development of conceptual streetscape and infrastructure improvements along Sunset Drive from the western city limits to US 1. These include delineating intersections with concrete pavers and crosswalks, redefining roadway sections, and providing new lighting and landscape design to increase public safety and appeal. In addition, a new architectural site plan for City Hall was designed incorporating surrounding public spaces and facilities to create an enhanced civic and community space. The master plan was developed substantially in accordance with the City's Hometown Plan Area 2, and evaluated proposed improvements with respect to their feasibility, cost/benefit, design, and construction. In addition, the firm held three public workshops to collect public opinions and suggestions, and ensured the Master Plan was reflective of, and sensitive to the community.

Palm and Hibiscus Islands Neighborhood Improvements, Miami Beach, Florida

Construction Administrator for this design/build infrastructure reconstruction with primary goals including beautification and combating the effects of sea level rise. Scope of work includes watermain and water service replacement, rehabilitation of the existing gravity

Sean Compel PE, LEED AP Construction Engineering Inspections

sanitary sewer line and manholes, complete stormwater infrastructure improvements, roadway reconstruction including raising roads where possible and harmonization to properties, concrete work including sidewalks, the undergrounding of overhead utilities for Florida Power & Light (FPL), AT&T, and Atlantic Broadband, and landscaping. The stormwater systems include a primary and secondary gravity collection system and large pump stations to discharge into Biscayne Bay. Environmental controls during construction and all maintenance of traffic had to be carefully monitored at all times. Close coordination with City staff and homeowners was most important to ensure impacts to residents were minimized.

Manta Drive Improvements (Marlin Road to Old Cutler Road), Cutler Bay, Florida

Construction Administrator for improvements to this existing neighborhood street which had no sidewalks or driveway approaches. The scope of improvements included new sidewalks, driveway approaches, continuous valley gutter, drainage, asphalt milling and resurfacing, back of sidewalk harmonization, and tree plantings. Some roadway reconstruction was required to allow proper sloping along new gutters. The Town secured funding through TAP Grants (administered by FDOT) and the project was completed on-time and under budget.

K8 Drainage Improvements, Key Biscayne, Florida

Project Manager and Construction Administrator for the study, planning, design, and permitting of this drainage basin in the center of Key Biscayne. This basin is the lowest lying area of the key and during heavy rainfall it would take days for the water to recede. Upon studying different options, it was determined that a pump station was the ultimate solution; however due to available funding the immediate project was to install two new gravity wells. The wells were sized and designed to allow for conversion to pressure wells in the future as funding becomes available. The completed project has demonstrated that the wells are effective in draining water quickly after heavy storm events.

Miami Gardens Canal Stabilization & Repairs, Miami Gardens, Florida

Construction Administrator for this design-build canal bank stabilization project for over 3000 linear feet of canal bank, 2 large culvert headwalls, reconstruction of 12 stormwater outfalls, and outfalls structures. A stabilization synthetic stacking system was used for the canal bank to reestablish the banks by preventing

future erosion. Permitting included a Class III permit throughout PERA Water, Miami-Dade Public Works. The project design included a stormwater pollution prevention plan, environmental designs including manatee grates, and maintenance of traffic. Additionally, the project also included grant management.

Outfall replacement at 398 Harbor Drive, Key Biscayne, Florida

Construction Administrator for this project which involved a new 24-inch outfall to Biscayne Bay to relieve flooding on surrounding streets. The new outfall replaced an old collapsed pipe at another location and it included a duckbill type backflow preventer. The installation of the outfall required securing a 10-foot-wide easement through private property and also required close coordination and compliance with the permitting agencies including Miami Dade DERM. The Village of Key Biscayne secured a grant from FDEP and the project was successfully completed and closed out on time.

Village of Pinecrest Paving CEI, Pinecrest, Florida

Construction Administrator for this multi-year paving program in which various streets were milled and resurfaced. Our scope included field assessments of existing ADA facilities and compilation of paving plans to meet the Village's annual \$1 million paving budget. During construction, our field inspector was on-site during all paving activities and assisted with field modifications throughout the work.

Multi-Year Villagewide Paving, Palmetto Bay, Florida

Construction Administrator for this multi-year paving program in which various streets were milled and resurfaced based on the study and recommendations provided by the Village. During construction, our field inspector was on-site during all paving activities and assisted with field modifications throughout the work. New thermoplastic striping and reflective pavement markers were also provided. This contract is completed annually based on the Village's available budget.

Key Biscayne Zones 1 & 4 Water Main and Sanitary Sewer Replacement, Key Biscayne, Florida

Construction Administrator responsible for assisting with the administration of sanitary sewers, manholes, existing pump station upgrades and modifications, lateral connections, fire hydrants, water main replacement including valves and appurtenances, and roadway/right-of-way restoration.



Juan Bolivar PE, PMP, LEED AP Construction Engineering Inspections

Juan has more than 18 years of experience in the design and construction of transportation and civil engineering projects. He has served as Field Project Manager and Staff Designer on numerous projects in the U.S. as well as Colombia. He has a strong understanding of engineering specifications, construction practices and methodologies, as well as, estimating, surveying, and computer-aided design and drafting. His experience includes: highways, tunnels, soils and pavement testing, transportation systems, and marine structures. Juan is fluent in English, Spanish, French, and Portuguese..

EDUCATION

Master's in Project Management, Boston University, Boston, Massachusetts, 2010

Graduate Certificate in Project Management, Boston University, Boston, Massachusetts, 2009

Master of Sciences in Civil Engineering with Minor in Business, FAU, Boca Raton, Florida, 2008

Bachelor of Sciences in Civil Engineering (cum laude), FAU, Boca Raton, Florida, 2005

REGISTRATIONS

Professional Engineer #73153, State of Florida
LEED Accredited Professional, U.S. Green Building Council
Project Management Professional #1345010, Project Management Institute

PROJECT EXPERIENCE

Park Lane Phase V Project, City of Oakland Park, Florida
Project Engineer / Project Administrator on this \$1.2 Million LAP project consisting of milling and resurfacing, widening, ADA improvements, signalization, sidewalk improvements, lighting upgrades, railroad coordination, drainage, landscaping and irrigation.

SR 710 (Beeline Highway) from west of Australian Avenue to Old Dixie Highway, Palm Beach County, Florida, FDOT District 4

Project Administrator / Contract Support Specialist on a 0.8 mile, \$17.5 Million widening project. The scope was widening two-lane roadway (SR 710) to four lanes. This included constructing 2 new lanes and reconstructing the two existing lanes. The scope also included drainage, retention swales, signalization, utility relocation, signing and pavement markings, curb and gutter, sidewalk,

lighting, and a perimeter wall. The project also incorporated two (2) JPA water and sewer installations with a construction cost of \$3 Million for the City of Riviera Beach.

PB Operations General CEI Consultant Construction Support, Palm Beach County, Florida, FDOT District 4

Contract Support Specialist assigned to various projects for the Palm Beach Operations Center under General Assigned CEI Services Contract. In addition to his standard field inspection duties, also assisted the FDOT personnel in the auditing and preparation of final estimates records on various project throughout Palm Beach County.

SR 710 (Beeline Highway) from W. of Congress Avenue to W. of Australian Ave, Palm Beach County, Florida, FDOT District 4

Assistant Project Administrator / Contract Support Specialist on a 0.8 mile, \$12 Million widening project. The scope was widening two-lane roadway (SR 710) to four lanes. This included constructing 2 new lanes and reconstructing the two existing lanes. The scope also included drainage, retention swales, signalization utility relocation, signing and pavement markings, curb and gutter, sidewalk, lighting, landscaping and irrigation. The project also incorporated two (2) JPA water and sewer installations with a construction cost of \$2.5 Million for the City of Riviera Beach.

SR 80 from Parker Ave. to W. of Washington Road, Palm Beach County, Florida, FDOT District 4

Assistant Project Administrator / Contract Support Specialist on a \$1.5 million 3R project consisting of milling and resurfacing, bridge joint replacement, upgrade of existing curb ramps, sidewalks and crosswalks to ADA standards, drainage improvements, and replacement of strain poles with mast arms at SR-805 (Dixie Hwy). The scope also included upgrade of pedestrian signals, detectors and signal loops/video detection, replacement of signing and pavement markings, and utility repair work under UWHC agreement.

SR 700 (US 98) from Old 700 Alignment to Old Conners Highway / SR-729 (State Market Road) from SR 15, Palm Beach County, Florida, FDOT District 4

Assistant Project Administrator / Contract Support Specialist for an approximately 15-mile milling and resurfacing project including: shoulder widening, drainage

Juan Bolivar PE, PMP, LEED AP Construction Engineering Inspections

improvements, curb and gutter, slope reconstruction and revetment, ADA improvements, sidewalks, guardrail, and mill and resurfacing. In addition to the general roadway improvements, the project incorporated a paving process called "Hot in Place" placement. This will be the first time this technology has been used in South Florida and is the first attempt to go "GREEN" building roads. Responsible for the preparation of supplemental agreements, change orders, work orders, weekly and monthly reports, document maintenance, calculation of quantities, preparation of monthly progress payments to contractor, and preparation of the final estimates package. Duties included assisting the Project Administrator with field coordination and engineering analysis.

SR-808 (Glades Rd.) from West of I-95 to NW 7th Ave./ SR-5/US-1 from North of Glades Road to South of Yamato Rd./SR-804 (Boynton Beach Blvd.) from East of Hagen Ranch to West of Jog Rd., FDOT District 4

Assistant Project Administrator / Contract Support Specialist for a three project grouping including: bridge widening, shoulder widening, drainage improvements, curb and gutter, ADA improvements, sidewalks, guardrail, and mill and resurfacing. Responsible for the preparation of supplemental agreements, work orders, monthly reports, calculation of quantities, preparation of monthly progress payments to contractor, and preparation of the final estimates package. Duties include assisting the Project Administrator with field coordination and engineering analysis.

Forest Hill Boulevard (SR 882) 3R Improvements, West Palm Beach, FL

Project Engineer for this project which involves the widening of travel lanes, extensive utility coordination, new lighting, improved drainage facilities, within the city limits of West Palm Beach. A portion of the project is located within the C-51 Basin. Coordination with the City of West Palm Beach was required to obtain concurrence of the proposed typical section and other amenities including TDLC features.

SR-821/HEFT from North of Bird Road to SR-836 RFP Package, Florida's Turnpike Enterprise

Project Engineer for the preparation of the RFP Criteria Package and Procurement Services for this \$133.2 million D/B Project. The project scope includes the overall design concept for the widening and resurfacing of the mainline HEFT; extend and add new auxiliary lanes; new noise

walls; new conventional and electronic toll signs; new ITS structures; new lighting; signalization; drainage upgrades; side street improvements; bridge widening over side streets and canals; bridge replacement over HEFT on Coral Way; and new express lane connector ramp bridges to and from SR-836. Modification of the HEFT mainline horizontal and vertical geometries was part of the innovative approach to achieve the design objectives. The project requires an innovative approach to resolve permitting issues with SFWMD for a ramp bridge over the C-4 Canal, and utility issues with FGT (Florida Gas Transmission) gas line under the HEFT mainline overpass at SW 8th street.

Resurfacing, Restoration and Rehabilitation (3R) of SR-518 from East of Pineapple Avenue to SR-A1A, Brevard County, Florida, FDOT District 5

Project Engineer responsible for the initial engineering phase, constructability phase, biddability phase and final production submittals for the 3R improvements to SR-518/Eau Gallie Boulevard within Brevard County. The project included milling and resurfacing, cross slope correction, signing and pavement marking upgrades, sidewalk and ADA improvements, as well as drainage and safety upgrades.

595 Express Design Build Finance Operate Maintain (DBFOM) from I-75 to West of I-95, Broward County, Florida, FDOT District 4

Senior Pavement Design Engineer for the entire corridor. This project consists of a \$1.22 Billion (Construction) Public Private Partnership (P3) Infrastructure project covering 10.5 Miles of improvements along I-595 including the total reconstruction of the interstate and the implementation of three reversible tolled express lanes. The pavement design included considerations for several segments with varied geotechnical and traffic characteristic. The analysis and design considered both flexible and rigid pavement design for the new 3-lane reversible express lanes proposed within the I-595 median. The final output of this project was a pavement design recommendation for rehabilitation, widening, or reconstruction of the mainlines, Reversible Express Lanes, auxiliary lanes, shoulders, ramps, crossroads of I-595, and SR 84. To accommodate the express lanes direct connection with the Florida's Turnpike, pavement analysis and design for widening and rehabilitation was also carried out for the Turnpike's mainline, auxiliary lanes, and ramps between Griffin Road & Peters Road.



Fernando Vargas

Senior Inspector

Fernando has over 14 years of experience in materials testing and inspection services in both the public and private sectors. His duties have included sampling and field and laboratory testing of soils and concrete. He has served as lead project inspector for public projects of various scope including water and sewer, drainage, roadway, utilities and industrial. The water and sewer projects include new facilities, retrofitting of existing facilities, and repairs to existing systems. Monitoring of costs and schedule throughout these projects ensures the client is always receiving a quality product on time and within budget.

CERTIFICATIONS

Certification, FDOT, Asphalt Paving Tech Level 1, 2013

PROJECT EXPERIENCE

NW 82nd Avenue Improvements, Doral, Florida

Inspector for this project which included the study, design, and construction administration of various improvements on NW 82nd Avenue from NW 12th Street to NW 25th Street. It consisted of milling and resurfacing, sidewalk and curb and gutter replacement and reconstruction, handicap ramp replacement, and drainage work including the installation of exfiltration trenches, concrete manholes and solid pipes. The project also involved the repair of damaged asphalt around existing manholes, valves, and above existing drainage trenches and crossings. The final design also included pavement markings and signage.

Doral Grande, Atlantic and Pacific Developments, Doral, Florida

Inspector for this project that consisted of the design and permitting of a regional WASD Wastewater Pump Station for the entire half section. Project included design, permitting of water main system and 20" wastewater forcemain donated to Miami-Dade WASD. Project also included full construction management including inspections and engineering support. The proposed utilities serve a 30 Acre site being developed into a 300 apartment residential community in Doral. Other services also included drainage, striping, signage, geometry and development of adjacent right of ways.

Miami-Dade County Roadway Improvements, Miami-Dade County, Florida

Inspector for this project which consists of supervising all operations necessary for the construction of a new

4-lane divided roadway along SW 157th Avenue (from SW 120th Street to SW 112th Street) including a new bridge over the C-IW Canal. The work includes new sidewalk, curb and gutter, median, a storm water drainage system, signage, pavement markings, signalization, and street lighting. The scope also include the new construction of a 2- lane roadway on SW 120th Street (from SW 157th Avenue to 1800 feet West of SW 157th Avenue), the construction of a new 16" water main along SW 157th Avenue (from SW 112th Street to SW 120th Street), the construction of 16" water main along SW 120th Street (from SW 157th Avenue to SW 162nd Avenue), and the installation of a 36" sewer force main along SW 157th Avenue (from SW 112th Street to SW 120th Street), as part of the overall wastewater master plan to complete a connection north of SW 112th Street.

CEI Construction Services – Miami Center for the Performing Arts / Biscayne Boulevard "Superblock" Streetscape Improvements, Miami, Florida

Inspector responsible for inspection support and all materials testing for a high profile roadway reconstruction and resurfacing project in downtown Miami including: paver brick pavement, Superpave asphalt, decorative lighting, signalization, drainage, striping, signage, curb and gutter, sidewalks, and landscaping.

Belle Meade Drainage Improvements, Miami, Florida

Inspector for this \$8 million project which consisted of the design and permitting of a drainage improvement project encompassing several miles of road in developed flood-prone neighborhood providing quality treatment through the use of exfiltration trenches and gravity wells and discharging to the Miami River. Permitting included pre/post analysis and stage calculation for Miami-Dade's Class II Surface Water Management Permit.

Drainage and Stormwater Planning & Design Belle Meade Drainage Improvements, Miami, Florida

Inspector for this \$8 million project which consisted of the design and permitting of a drainage improvement project encompassing several miles of road in developed flood-prone neighborhood providing quality treatment through the use of exfiltration trenches and gravity wells and discharging to the Miami River. Permitting included pre/post analysis and stage calculation for Miami-Dade's Class II Surface Water Management Permit.



Kevin Mangan PLA, ASLA Streetscape/Parks & Recreation

Kevin has practiced Landscape Architecture, Urban Design, and Land Planning for over 35 years. His leadership and experience in a broad range of interdisciplinary and complex assignments in community development, urban design, hospitality and resorts, health care, streetscapes, and infrastructure projects for domestic and international private and public clientele is the hallmark of his diversity in the profession. Kevin has a passion and expertise for collaborative and teaming roles with the requirements of project management, planning, and detailed design of complex projects. As a Principal and leading design team member, Kevin enjoys forging long term relationships with his clients and professional team members spanning three decades of professional Landscape Architecture service. Kevin's role with Stantec includes client relationship, business development, team leadership roles in planning and detailed design across a variety of markets and locations. Noteworthy projects and relationships include the Fort Lauderdale Beach Revitalization, Shell Point Retirement Communities, Amelia Island Plantation, Renaissance Vinoy Resort and Club, Moorings Park, and the historic Downtown Redevelopment of Old US 41 in the City of Bonita Springs. International works include projects at Al Wasseel Hills in the Kingdom of Saudi Arabia, Emerald Bay, Great Exuma, Bahamas, Four Seasons, Nevis, and post hurricane work at Cap Jaluca, Anguilla.

EDUCATION

Bachelor of Science, Landscape Architecture, State University of New York, College of Environmental Science and Forestry at Syracuse, Syracuse, New York, 1985

Associate of Arts, State University of New York at Canton, Canton, New York, 1982

REGISTRATIONS

Registered Landscape Architect #0001337, State of Florida

PROJECT EXPERIENCE

Fort Lauderdale Beach Revitalization, Fort Lauderdale, Florida

Responsible for Resident Project Representation, Construction observation and continued design services for this transformational project in the State Road A1A corridor along Fort Lauderdale's renowned urban beach front. Day to day activities included interpreting

construction drawings and answering RFI's, providing construction landscape sketches to clarify design and design intent in the field, working with the Engineering RPR on coordinating construction issues, securing and tagging plant materials in both the pre- and post-Hurricane Andrew nursery market place and working with the City Engineer in the review of construction activities and contractor obligations to implement the works.

SR A1A Phase I Corridor Improvements, Volusia County, Florida, FDOT District 5 Landscape Architect responsible for the Phase I improvements of the PD&E Corridor Enhancement study for landscape, hardscape, and streetscape improvements.

Bonita Springs Downtown Improvement Project, Bonita Springs, Florida

Lead Landscape Architect responsible for all conceptual streetscape design components including vehicle travel lanes, on-street and off-street parking configurations, bicycle, and pedestrian needs. The scope also included all detailed hardscape elements, furnishings, and site materials and finishes. This \$16 million improvement project along the Old US 41 corridor in the City of Bonita Springs beautifies Bonita Springs' downtown, contributes to economic growth, and creates a unique sense of place. The project, encompassing more than 500 acres, also includes Felts Street located one block east of Old US 41 and the connecting streets.

Golden Glades Interchange/Palmetto Expressway Project

Miami-Dade County, Florida

Lead Landscape Architect responsible for coordinated field data collection and validation within the rights of way. Production of highway opportunity plans, tree and palm relocation plans, tree preservation plans, and local street interchange coordination with local municipalities.

US 1 (SR 5)/Titusville Revitalization, Brevard County, Florida, FDOT District 5

Lead Landscape Architect responsible for ongoing landscape architecture elements. This project entails landscape design, restoration, and parking studies for the one-way pairs on US 1 through historic downtown Titusville. Stantec provided streetscape design, detailed construction documentation, and specifications for landscape, lighting, site furnishings, hardscape elements and signage.

Kevin Mangan PLA, ASLA Streetscape/Parks & Recreation

SR 951 over Big Marco Pass Design-Build, Collier County, Florida, FDOT District 1

Lead Landscape Architect responsible for landscape, hardscape, and streetscape features along with project management assistance for concept design and production of detailed landscape planting construction documents. Stantec is working with the design-build team of FIGG Engineering and Johnson Brothers Construction to complete a new two-lane bridge parallel to the existing bridge span. The new bridge will accommodate traffic heading to Marco Island while the existing bridge will serve traffic departing Marco Island.

City of Naples 10th Street Beautification, Naples, Florida

Lead Landscape Architect responsible for overall project landscape architecture elements. Stantec worked with the City of Naples and the CRA District to bring streetscape improvements to 10th Street North. The project extends from Central Avenue to 7th Avenue North, and includes the linear park along 6th Avenue North, adjacent to Lake Manor. Services included landscape architecture, engineering and traffic improvements.

Mayhood Dog Park, City of Bonita Springs, Florida

Stantec has created a unique park setting providing for large, medium and small dog run areas, a pedestrian multipurpose trail, and many naturally shaded locations within the park and along the trail for all patrons. The pedestrian multipurpose trail connects neighborhoods to the north to the park and allows for exercise and fitness to residents and visitors of the park even if you are not there to play with your pet. The park plans allow for future additions of parking, recreation elements, and other park components for the City.

Baker Park Planning, City of Naples, Florida

Stantec has prepared a Peer Review of the newly planned public park on the Gordon River in the City of Naples. This review provided park planning, design commentary, and plan alternatives for the planned park that is to be created atop a brownfield site along the river. The setting offers a unique opportunity to engage the river in a manner that does not exist in the balance of the City while evolving the pedestrian, water borne and bicycle connectivity between different points in the City. The park also sits as an anchor site at the end of the Gordon River Greenway, a Collier County Parks and Recreation element that has been a new and great success established

by the Conservancy, the City and County, and many with an interest in the quality of life, environment and sustainability of our community.

Amelia Island Plantation, Fernandina Beach, Florida

Landscape Architect responsible for twenty years of ongoing master planning and site design services to Amelia Island Plantation, an award-winning beach front community along the Atlantic Ocean and Intra-coastal waterways of Nassau County. Improvements have included the expansion of the Conference Center, development of site plans and amenity improvements, detailed design for the creation of the new Amelia Village and Spa as well as several other enhancements. The addition of the SR A1A roundabouts has become a solution of choice in the Nassau County roadway areas.

Kingston Plantation Resort, North Myrtle Beach, Florida

Principal, Landscape Architect and Planner responsible for leading the planning and landscape architectural team through the design process that includes the redesign of the project entry sequence including the addition of a common resort check in facility and the renovation and expansion of the spa, health and tennis complex. Redesign and expansion concepts for the existing hotel facilities included with the addition of 240 residential units and the redesign of the resort pool complex and amenity areas.

Wyndham Bayfront San Diego, San Diego, California

Landscape Architect and Project Manager responsible for managing and leading the preparation of the conceptual site development design for the resort renovation and expansion along North Embarcadero on San Diego harbor. The design concept engages a mid-century feel in spatial development, landscape and hardscape patterns, and the use of site elements in support of a refreshed architectural treatment. The coordinated design looks to return original uses of the facility to a pedestrian oriented promenade, open vistas and public access to and through the property, engage new linear park development north and south of the site and set the stage for entitlement and permit applications processes with the Port of San Diego, the City and Coastal Commission in the State of California. Stantec provided the site development plans and the supporting 355 site development application narratives for the Owner.



Scott Buttari PLA, LEED AP Streetscape/Parks & Recreation

Scott's 21 years of experience includes master planning and construction document preparation for golf course and residential communities, hotel and resort developments, county and neighborhood parks, commercial centers, office parks, and streetscape projects. His LEED Accreditation recognizes his ability to incorporate design, construction, and maintenance techniques that increase energy efficiency and reduce impacts on health and the environment. His designs reflect the successful incorporation of the natural environment in all development projects.

EDUCATION

Bachelor of Science, Landscape Architecture, University of Florida, Gainesville, Florida, 1999

REGISTRATIONS

Professional Landscape Architect #0001756, State of Florida
LEED Accredited Professional, U.S. Green Building Council

PROJECT EXPERIENCE

East Bradenton Neighborhood Streetscape Design, Bradenton Downtown Development, Florida

Landscape Architect responsible for conceptual streetscape design. Stantec provided a neighborhood vision plan for the East Bradenton area. Responsibilities included site inventory and analysis of existing pedestrian, vehicular, and recreational facilities, meetings with neighborhood groups, conceptual vision plan preparation, project summary document preparation and presentation to the City of Bradenton Downtown Development Authority.

Downtown Improvement District Master Plan, Sarasota, Florida

Project Manager responsible for development of an overall master plan. Stantec assisted the Development Improvement District (DID) of Sarasota in preparing an overall Master Plan of the Dependent Tax District created in 2008 for the "downtown core" area of the City. To aid in realization of improving the "downtown ambiance", services included a public workshop, preparation of an opportunities and constraints map. Preliminary design sketches, and preliminary cost estimates for the capital improvements.

Gulf Drive Corridor Enhancement, Bradenton Beach, Florida

Lead Landscape Architect responsible for the development of enhanced landscape treatments for intersections and beach access along Bradenton Beach's north-south corridor. Native/drought-tolerant plant materials are incorporated for the landscape features. The new plantings were selected to mesh with the existing streetscape and provide a consistent signature for the public beach access points. Two ADA accessible sunset decks were designed to integrate seating and gathering spaces with open shower facilities and public parking for beach-goers.

St. Armands Circle Streetscape, Sarasota, Florida

Project Manager responsible for conceptual hardscape and landscape plans. Stantec prepared the Design Criteria Package utilized by the City in the recent Design/Build RFP. Design criteria, based upon the Circle's original developer John Ringling, including conceptual hardscape and landscape plans that serve as the basis for the construction of safety and aesthetic improvements to the landmark shopping and dining district.

Flamingo West Park, Cooper City, Florida

Senior Landscape Architect for this new 15 acre complex for Cooper City, Florida. Stantec was in charge for the master planning and development of a regional soccer park in western Broward County. The project includes 4 artificial turf soccer fields with supporting parking and concession restroom building. In addition, the park also includes a passive park with picnic facilities and trails around a lake and mitigated wetland. The land was provided by a private developer under a development order and services were provided for oversight of the preliminary site preparations. Other services include master planning, full project development and construction oversight.

Bayfront Multi-Use Recreational Trail (MURT), Sarasota, Florida

Landscape Architect responsible for alignment coordination, landscape beautification, lighting selection, and development of the MURT signature way-finding and interpretive features. Stantec has played a significant role in the design of the 6.7-mile-long trail connecting Selby Botanical Gardens to the Ringling Museum/University of South Florida (USF) campus area along the bayfront, utilizing City-owned land and other existing facilities.

Scott Buttari PLA, LEED AP Streetscape/Parks & Recreation

Honore Avenue Improvements (Bee Ridge Road to Fruitville Road), Sarasota County, Florida

Landscape Architect responsible for incorporation of bio-retention areas with appropriate plant materials and naturalistic clustering of median plantings to create an aesthetically pleasing Low Impact Development (LID) model. This design-build contract entails the 2.5-mile extension a critical missing link of one of the few north-south thoroughfares in the County. The result will be the standard context for sensitive design and Low Impact Development strategies in the region. Imaginative lane and median configuration saves more than 75% of the existing high value trees within the previously dedicated right-of-way.

48th Street Court East Improvements, Bradenton, Florida

Lead Landscape Architect responsible for production of detailed landscape and irrigation plans. This public roadway widening and improvements project entailed 1.2 miles of four-lane divided roadway.

Roundabout at Venice and Jacaranda Boulevard, Sarasota County, Florida

Lead Landscape Architect responsible for landscape, signage and lighting for this high-profile roundabout. Stantec performed the conceptual through final design of a roundabout at two major arterial roadways in South Sarasota County, Florida. In addition to design, our tasks included permitting, utilities design, maintenance of traffic plans, stormwater design, signing/markings plans, and street lighting. The three-lane roundabout at the intersection of two four-lane arterial roadways is unique in Sarasota County. The new roundabout included design of roadway transitions from six-lane to four-lane urban arterials, bicycle facilities, pedestrian crossings, and an intermediate two-lane design.

Capital Circle SE Phase 3, Tallahassee, Florida

Lead Landscape Architect for this design-build team member responsible for the preparation of preliminary plans, final construction documents and maintenance plan for the 1.5-mile expansion of the existing two-lane roadway to four lanes. The design will meet FDOT requirements and the Blueprint 2000 Multi-modal Design Guidelines as well as blend seamlessly into the previously constructed phases of Capital Circle. Incorporation of native plantings and the minimization of small turf areas will reduce maintenance while providing

a pleasant experience for both vehicles and pedestrians utilizing the 10-foot wide meandering pathway.

Honore Avenue - Phases IV - VI, Sarasota County, Florida

Landscape Architect responsible for plant palette development and landscape construction documents for construction of Honore Avenue from its current southern terminus to State Road 681. This extension is intended to serve future development parcels within Palmer Ranch and provide a critical alternative north-south roadway through central county.

Central Sarasota Parkway - I-75 Interchange PD&E Study & Final Design, Sarasota County, Florida

Lead Landscape Architect responsible for creative conceptual landscape design. Stantec conducted the Project Development and Environmental (PD&E) Study and final design on behalf of Sarasota County, Palmer Ranch, and the Florida Department of Transportation (FDOT) District 1. The interchange will complete the extension of Central Sarasota Parkway from Honore Avenue to I-75 and provide new access to and from the interstate for area residents.

Lakewood Ranch Boulevard Extension, Manatee County, Florida

Landscape Architect responsible for working with the established palettes of the Town Center area and the Riverwalk area, to create a smooth transition between the formal plantings of the mixed-use areas to the informal plantings of the residential areas. Stantec provided the design and permitting of roadway improvements to approximately 0.5 miles of Lakewood Ranch Boulevard. The design included widening the existing, four-lane urban arterial roadway to six lanes with intersection improvements at University Parkway

Toledo Blade Boulevard Widening Design, North Port, Florida

Lead Landscape Architect responsible for the preliminary and final design of pedestrian and landscape enhancements for 4.5 miles of roadway under expansion from two to four lanes. The design includes the addition of meandering sidewalks, integrated stormwater facilities and gateway features which included custom designed signage. The project includes new raised medians, establishments of an access management plan, five new traffic signals, two new bridges, street lighting, drainage facilities, and landscaping.



Adam Markle CLARB, ASLA, LEED AP Streetscape/Parks & Recreation

Over the last 15 years, Adam has been providing a broad range of consulting services to both public and private sector clients, all the while crafting thoughtful and inspired designs and project solutions. The focus of his work includes land-use planning and design as well landscape architecture for facilities and infrastructure projects of various scale and scope. His LEED Accreditation recognizes his ability to incorporate design, construction, and maintenance techniques that increase energy efficiency and reduce impacts on health and the environment. Adam provides his clients with responsible, aesthetically pleasing designs that fuse the functions of the project into a cohesive, efficient system.

EDUCATION

Bachelor of Landscape Architecture, Ball State University College of Architecture and Planning, Muncie, Indiana, 2004

REGISTRATIONS

Registered Landscape Architect #6667098, State of Florida
LEED Accredited Professional, U.S. Green Building Council

PROJECT EXPERIENCE

FIU Multi-Use Fields, Miami, Florida

Stantec provided civil engineering and landscape architecture services for the design of two sports fields. The two fields will serve as practice facilities for the school's football program as well as facilitate rec-league sports in the off season. The fields displaced a pond and portions of a wooded area which was prized by several academic departments. The design team worked with those departments to develop a demonstration stormwater area near the displaced natural areas. The pond will receive stormwater from the football and baseball stadiums, is planted with 100% native plant materials, and will serve to showcase various methods for treating stormwater in South Florida.

Hillsboro Boulevard Lane Reduction Study and Landscaping Project, Deerfield Beach, Florida

Stantec provided landscape design and FDOT grant application services for the one mile stretch of roadway between North Dixie Highway and South Federal Highway (US-1) to accompany lane reduction and vehicular access control improvements.

Jacaranda Boulevard Extension Design-Build, Venice, Florida

Landscape Architect for the design-build contract of design, permitting, and construction of 1.1 mile of new arterial roadway within the City of Venice and Sarasota County. The project includes the two outside travel lanes of a divided, ultimate four-lane roadway, bicycle lanes, sidewalk, multi-use path, closed drainage, street lighting, utility relocations, and a landscaped median. The resulting award also puts us in the advantageous position to cross-sell additional potential services including additional utility design, site design and permitting, land surveying, and landscape architecture design for adjacent lands.

Atlanta Braves Spring Training Facility, North Port, Florida

Stantec provided landscape architecture for the Atlanta Braves new spring training home in the West Villages. Responsibilities include the development of the landscape and hardscape theming for the fan experience from arrival to the stadium gates and team only access areas from the clubhouse to the practice facilities. A unique aspect of the facility will be the inclusion of a plaza/lawn space which will serve as a pre-game festival area and public event space/park during non-game days as well overflow parking areas designed to accommodate multi-use sport fields.

Toledo Blade Boulevard Widening Design, Sarasota County, Florida

Responsible for landscape planting design, monument signage and solar lighting design, lighting plan and irrigation plan design coordination, as well as preparation of the landscape construction document package. Stantec was retained to provide the design for the widening of Toledo Blade Boulevard from US 41 to I-75 (five miles) from two lanes to four lanes. The project includes new raised medians, establishment of an access management plan, five new traffic signals, two new bridges, street lighting, drainage facilities, and landscaping.

Madison Street Park, Tampa, Florida

Stantec's landscape architecture team facilitated community stakeholder workshops to develop a program that met the needs of Channel District community in downtown Tampa. The result was a multi-faceted park with lawn and performance space, multi-sport court, putting green, shuffleboard courts, and a dog park. This space serves as one of two city owned parks in the district.

Adam Markle CLARB, ASLA, LEED AP Streetscape/Parks & Recreation

St. Armands Circle Streetscape, Sarasota, Florida

Landscape Architect responsible for conceptual hardscape and landscape plans, Stantec prepared the Design Criteria Package utilized by the City in the recent Design/Build RFP. Design criteria, based upon the Circle's original developer John Ringling, including conceptual hardscape and landscape plans that serve as the basis for the construction of safety and aesthetic improvements to the landmark shopping and dining district.

Design/Build Capital Circle Southeast from Crawfordville Road to Woodville Highway, Tallahassee, Florida

Landscape Architect responsible for the design and permitting services for the section of SR 263 (Capital Circle) from SR 363 (Woodville Highway) to SR 61 (Crawfordville Road) to widen from a two-lane facility to a seven-lane facility. In addition engineering and survey, landscape architecture services were provided. The project was implemented by Blueprint 2000, an intergovernmental agency tasked with administering community infrastructure projects in the City of Tallahassee and Leon County, Florida.

Cattlemen Road Widening and Improvements Design (Bee Ridge Road to Fruitville Road), Sarasota County, Florida

Landscape Architect responsible for oversight of preparation and management of entitlement applications and permitting support. Sarasota County engaged Stantec to design improvements for approximately 2.8 miles of Cattlemen Road from Bee Ridge Road to Fruitville Road. The improvements included widening the existing two-lane roadway to four lanes with center left turn lanes, bike lanes, curbs and gutters, sidewalks, and street lighting.

Robert L. Taylor Community Field, Sarasota, Florida

Landscape Architect for this park project. The field was converted from a heavily utilized but worn multi-use softball/open play field originally built over an early 20th century construction debris landfill. The new oversized multi-purpose turf field with upgraded lighting, fencing, parking and concession stand provides the opportunity for full size fields for soccer, football, lacrosse and three short fields for mini-soccer and flag football. With permanent inlaid striping, the field allows for rapid change from one sport to another, maximizing its use and potential revenue opportunities for the Community Center.

Wiregrass Sports Complex, Pascoe County, Florida

Landscape Architect for this contract. A joint partnership between the owner, Pascoe County, and the developer/operator, RaddSports, this multi-sport complex consist of a 100,000 square-foot indoor competition fieldhouse as well as outdoor event lawn and County maintained sports fields. Stantec has been working with the team to win the project and also permit and provide construction documents for its design for a number of years. Stantec's landscape architecture team developed the site layout, sports field program, and provided planting and hardscape design for the venue.

Blackstone Park Baseball Complex, Palmetto, Florida

Stantec was responsible for the design of three little league ball fields, along with providing further practicing and visitor facilities. Due to unsuitable soils and a shallow rock layer, an import soil profile specification and underdrain system was developed to achieve the level of service expectations of the local league play.

IMG Academy, Manatee County, Florida

Stantec provides master-planning and landscape architecture services in an ongoing relationship with the project architect and the academy. The team has collaborated on a number of expansion related projects including IMG's state-of-the-art, 5,000 seat multi-sport facility for football, lacrosse, soccer, as well as track and field. Other new facilities include student residence halls, a student center, and baseball field. All of these fantastic facilities are encompassed by a beautiful campus consisting of plazas and tree-lined paths.

Waterset Lakeside Park, Apollo Beach, Florida

Project Manager in the development of Waterset, a 1,500-acre community, providing master planning support services and landscape architecture for Phase-II. The planning and design of the community space in Phase-II was closely coordinated with the developer to create various parks where residents can enjoy both passive and active lifestyle activities while living in a unique neighborhood design. Phase-II also included Lakeside, Waterset's newest amenity. Lakeside contains a splash playground for all ages, an outdoor fitness center, shade pavilion, picnic and grilling areas and a dog park. The observation deck overlooking a large lake also serves as the stage for the outdoor event lawn. The site has pedestrian access from all sides and is centrally located on the mile-long jogging trail around the lake.



Matthew Starr PG

Coastal/Marine Engineering (Dredging)

Matthew has 18 years of project management and technical experience in coastal engineering, dredging, beach renourishment, port and marine facilities, coastal structures, hydrographic surveying, ecosystem restoration, asset management, natural resource mapping, water quality, and wildlife biology. Matthew has been responsible for all phases of project delivery including local, state, and federal permitting, design services, construction plans, contract documents/bidding, contractor procurement, and CEI services.

EDUCATION

Bachelor of Science, Marine Science/Coastal Geology, Coastal Carolina University, Conway, South Carolina, United States, 2006

REGISTRATIONS

Professional Geologist #2906, State of Florida

CERTIFICATIONS & TRAINING

100-Ton Vessel Captain #88206, United States Coast Guard, Florida, 2006

Erosion, Sedimentation Control & Stormwater Control Inspector #29474, FDEP, 2014

OSHA 10-Hour/Competent Person, Evacuation, Florida, 2013

MHSA Mine Hazard Safety Training, Florida, 2013

Authorized Gopher Tortoise Agent #GTA-16-00033B, Florida Fish and Wildlife Conservation Commission, Florida, 2016

PROJECT EXPERIENCE

Matheny Creek Dredging, Sarasota County, Florida

Responsible for public/neighborhood communications, feasibility studies, technical analysis, cost estimates, permitting, engineering analysis, specification/bid document development, bid analysis, construction management and oversight, public and commission meeting support, and other miscellaneous services as directed pertaining to the Sarasota County Coastal Program.

Hillsborough County Canals Dredge and Preventative Measures, Tampa, Florida

Provided to Hillsborough County dredging feasibility analysis on eight canal systems adjacent to Tampa Bay: Baycrest, Essex Downs, Bay Crest, Bayport Channel A, Dana Shores, Alafia River, Apollo Beach North, Apollo Beach South, and Ruskin. Matthew served as lead coastal

scientist responsible for sediment collection, geotechnical analysis, hydrographic data, dredge template design, and volume calculations.

Grand Canal Muck Removal Dredging, Satellite Beach, Florida

Project Manager. The residential canal system known as Grand Canal (and its finger canals) located within the City of Satellite Beach has experienced significant accumulation of muck since the upland cut canals were originally created in the 1950's and 1960s. The initial hydrographic survey and jet probes indicated approximately 605,000 cubic yards of muck to remove from the canal system. Matthew served as project manager responsible for permitting, geotechnical analysis, hydrographic survey/jet probes, project design, spoil site design, and construction documents. This project is also included under Brevard County's initiative to restore the Indian River Lagoon.

Lake Kiowa Dredging and Permitting, Cooke County, Texas

Project Manager. This project for the Lake Kiowa Property Owners Association was to develop a conceptual assessment of alternatives to sediment removal and to provide a detailed preliminary design to dredge approximately 145,000 cubic yards of sediment from eight areas within the lake to allow residents to access deeper portions of the waterbody during periods of the year when the water level in the lake is lowered. The overall objective was to improve water quality, storage capacity, and navigation within the lake. Matthew served as the project manager responsible for benthic surveys, geotechnical analysis, dredge template design, upland disposal locations, and federal permitting.

Haldeman Creek Dredging Project Construction Services, Collier County, Florida

This project for the Collier County Streets and Stormwater Department involved the design and permitting of a dredge channel to improve stormwater conveyance in the East Naples area. Matthew provided oversight and supervision during dredging activities as well as water quality monitoring. Following construction, Matthew was responsible to collect sediment samples and provide a geotechnical analysis on the dredged material from the disposal area to identify any contamination at the site.

Matthew Starr PG**Coastal/Marine Engineering (Dredging)****Clam Pass Maintenance Dredging and JCP Permitting, Collier County, Florida**

This project involved obtaining state and federal permits for the purposing of dredging an inlet to enhance tidal flushing and mangrove habitats. Matthew was responsible for an assessment of existing data, permitting coordination with regulatory agencies, and field operations including hydrographic surveys, sediment core boring analysis, assessment of natural resources, sediment sampling and analysis, deployment and recovery of tide/current gages and a vibracore investigation.

East Naples Bay Dredging Project Design and Permitting Services, Naples, Florida

Project Manager responsible for an assessment of existing data, permitting coordination with the Florida Department of Environmental Protection (FDEP) and the U.S. Army Corps of Engineers (USACE), field operations including a hydrographic survey, rock probe investigation, sediment core boring analysis, assessment of natural resources, subsurface side scan sonar investigation, design services from feasibility to 100% construction documents, bidding and contractor selection, and full-time construction oversight. During construction, approximately 22,000 cy of sediment and 2,000 cy of rock was dredged from 31 residential canals with no damages to existing to docks or seawalls due to sediment removal.

Sawgrass Lake Dredging and Restoration, Southwest Florida Water Management District, St. Petersburg, Florida

This project involved the implementation of an action plan for the remediation and reclamation of spent lead shot and clay targets at the Sawgrass Lake Park & Water Management Area in Saint Petersburg, Florida. The goal was to dredge the lake and bind the lead contamination in the sediment in the lake from a shooting range along the western shore, build an earthen berm to prevent future shot from reaching the lake, and develop a filter marsh to improve the water quality of Sawgrass Lake which discharges into Tampa Bay. Matthew was responsible for providing field data collection services including hammer cores, sediment collection, and chemical analysis of lake sediment and engineering design related to lake dredging and volume calculations. He also provided construction oversight services during the hydraulic dredging and handling of the dredge material at the project area. His

post-construction services included quarterly monitoring of surface water quality and groundwater constituents for heavy metals and Total Dissolved Solids with reporting to the FDEP.

Lake Kiowa Dredging and Permitting, Cooke County, Texas

Project Manager. This project for the Lake Kiowa Property Owners Association was to develop a conceptual assessment of alternatives to sediment removal and to provide a detailed preliminary design to dredge approximately 145,000 cubic yards of sediment from eight areas within the lake to allow residents to access deeper portions of the waterbody during periods of the year when the water level in the lake is lowered. The overall objective was to improve water quality, storage capacity, and navigation within the lake. Matthew served as the project manager responsible for benthic surveys, geotechnical analysis, dredge template design, upland disposal locations, and federal permitting.

Mims Boat Ramp Muck Removal Dredging, Brevard County, Florida

Project Manager. As an effort to restore the Indian River Lagoon (IRL), Brevard County initiated a county-wide effort to remove decades of muck accumulation from the bottom the IRL caused by agriculture, construction, stormwater runoff and erosion. This boat ramp facility at the end of Jones Road in Mims, Florida is a dirt boat ramp providing water access for small vessels into the north end of the Indian River Lagoon with approximately 42,000 cubic yards of muck to be removed to restore the sandy bottom and promote seagrass growth. Matthew served as project manager responsible for permitting, geotechnical analysis, hydrographic survey/jet probes, project design, spoil site design, construction documents, and contractor procurement.

Smather's Beach Renourishment Construction Services, Key West, Florida

Provided construction monitoring and permit compliance services. During construction, the project was monitored for sea turtles, marine lighting, placement of sand on the beach, sediment QA/QC, turbidity, topographic survey data collection, and JCP/USACE permit compliance. Matt was responsible for completing yearly post-construction monitoring reports to evaluate shoreline and volumetric change analysis within the project area and along profiles east of the project area within Cell 1.



Nicole Carter MS

Coastal/Marine Engineering (Permitting)

Nicole has over 22 years of professional environmental experience in Florida. Her areas of expertise include the preparation of NEPA (Programmatic, Cat-EX Type II, EA / FONSI and EIS's) documentation and FHWA regulations as well as State Environmental Impact Reports (SEIR) for non-federally funded facilities. Her experience includes environmental permit compliance, marine biological surveys and natural resource assessment, specifically for transportation related projects. Her PD&E work includes project management and oversight, quality control and the preparation of environmental documents including advanced notifications, project reevaluations, and environmental technical reports. Her experience also includes permitting, Phase I audits, water quality monitoring, endangered species monitoring, and marine biological surveys.

EDUCATION

Master of Science Marine Biology, Nova Southeastern University, Ft. Laud., Florida, 2009

Bachelor of Science Marine Science and Biology, University of Miami, Coral Gables, Florida, 1998

CERTIFICATIONS & TRAINING

SCUBA Certification, PADI, Florida

Certified Inspector, Florida Department of Environmental Protection, NPDES

Training, Efficient Transportation Decision Making (ETDM) Process, Coral Gables, Florida

FHWA Legal Sufficiency Training

FHWA Audit Training

PROJECT EXPERIENCE

Miami Harbor Deepening Project – Phase II, Port of Miami, Florida

Environmental Monitoring Manager responsible for creating and implementing the environmental protection plan for the Miami Harbor Deepening Project – Phase II. Her duties included: designing all sampling and analysis procedures; data analysis; coordinating the manatee and sea turtle protection program and turbidity monitoring program; coordination with county, state and Federal permitting agencies; coordination with Port staff; and, managing a staff of field technicians.

Project Development and Environment (PD&E) Study for I-95 from Stirling Road to Oakland Park Boulevard, FDOT District 4

Environmental Project Manager for the development of the supporting environmental documents and the corresponding Cat-Ex Type II for this 9-mile PD&E study. The purpose of this study is to enhance operational capacity and relieve congestion by implementing two High Occupancy Toll (HOT) lanes in each direction.

Project Development and Environment (PD&E) Study for SR 80/Southern Boulevard from CR 880 to Forest Hill Boulevard, FDOT District 4

Environmental Project Manager for the development of the supporting environmental documents and the corresponding PDSR/Cat-Ex Type II for this 8.7-mile corridor PD&E Study.

Project Development and Environment (PD&E) Study for Sawgrass Expressway from Sunrise Blvd. to US 441, Broward County, Florida's Turnpike Enterprise

Environmental Project Manager responsible for the development of the supporting environmental documents and corresponding SEIR for this 18-mile PD&E Study. This project will evaluate adding lanes to the mainline and interchange improvements along the Sawgrass Expressway.

Districtwide Environmental Permits Contract, Miami-Dade & Monroe Counties, Florida, FDOT District 6

Project Manager operating as an extension of FDOT's Staff and responsible for performing environmental permitting services for District 6 including preparation of Federal and state permit applications; agency coordination; evaluating design plans for potential impacts; wetland assessments and delineations; upland and hammock assessments; protected species surveys and evaluations; mitigation plan design; and coordination with FDOT staff and designers. Her responsibilities include overall contract oversight and administration, coordination and QA/QC.

Districtwide Environmental Compliance Services Contract, FDOT District 6

Deputy Project Manager operating as an extension of FDOT's Staff for the environmental permit compliance oversight of all active construction projects throughout District 6. Her responsibilities include QA/QC of

Nicole Carter MS Coastal/Marine Engineering (Permitting)

compliance documents, oversight and development of templates. Her compliance projects include all segments of US 1 South, SR 826, Okeechobee Road, and SW 2nd Avenue Bridge. She also developed several tracking tools for the Department, including the US 1 South Environmental Permit Condition and NEPA Commitment Tracker. Subconsultant to Metric Engineering.

Project Development and Environment (PD&E) Study for the Bridges of the Isles, Broward County, FDOT District 4
Senior Environmental Scientist responsible for the Development of the supporting environmental documentation and corresponding PDSR/Cat-Ex Type II for the replacement of four historic bridges over the Las Olas Canal.

Project Development and Environment (PD&E) Study for West Avenue Bridge LAP, Miami Beach, Florida, FDOT District 6
Senior Environment Scientist assisting FDOT District 6 with the review and oversight of the supporting environmental documents and the corresponding PDSR / Cat Ex-Type II for this 0.25-mile corridor PD&E Study.

Project Development and Environment (PD&E) Study for Golden Glades Interchange SR 826 / Palmetto Expressway Eastbound to I-95 Northbound, FDOT District 6
Environmental Project Manager for the development of the supporting environmental documents and the corresponding Cat-Ex Type II for this 2-mile corridor PD&E Study.

Project Development & Environment (PD&E) Study for SR 836 Southwest Extension from NW 137th Avenue to SW 136th Street, Miami-Dade Expressway Authority
Environmental Project Manager responsible to assist with the development of the Project Environmental Impact Report and associated documentation. This project will evaluate a new transportation corridor extending SR 836 in the southwest region of Miami-Dade County.

Project Development and Environment (PD&E) Study for US 25/Okeechobee Road from SR 826 to Krome Avenue, FDOT District 6
Environmental Project Manager assisting with the development of the supporting environmental documents including the NSR and CSER for this 10-mile corridor PD&E Study. Subconsultant to Metric Engineering.

Project Development and Environment (PD&E) Study for Venetian Causeway, FDOT District 6
Environmental Project Manager responsible for project oversight and development of the supporting environmental documents and corresponding Environmental Assessment (EA). This project will evaluate various options to preserve Natural Register-Listed bridges located over Biscayne Bay.

SEMO Support Consultant Contract, FDOT Central Office
Senior Environmental Scientist for this contract to assist FDOT SEMO with technical services and support, including preparing the Permit Handbook that will serve as a permitting guide to FDOT employees statewide.

Project Development and Environmental (PD&E) Study for I-95 at PGA Blvd. & Central Blvd., Palm Beach County, FDOT 4
Environmental Project Manager responsible for development of the environmental supporting documents and corresponding Cat-Ex Type II. Subconsultant to BCC Engineering.

Project Development and Environment (PD&E) Study for NW 36th Street Bridge, Miami-Dade County, FDOT District 6
Environmental Project Manager for the development of the supporting environmental documents and the corresponding SEIR for this PD&E Study. This included coordination with affected parties, development of an MOA and mitigation measures under FS 267 for the replacement of a National-Register Listed bridge.

Programmatic Categorical Exclusion and Programmatic Agreement Preparation, National Park Service – Everglades National Park and Dry Tortugas National Park
Environmental Project Manager to develop Programmatic Categorical Exclusions and Programmatic Agreements in accordance with the National Environmental Policy Act and Director's Order Number 12 for Everglades National Park and Dry Tortugas National Park. Services also include biological assessments, Section 7 Consultation, wetland jurisdictional assessments and permitting support.



Todd DeMunda PE

Coastal/Marine Engineering (Dredging & Coastal Studies)

Todd has 15 years of experience in research and applied coastal engineering, serving private and public clients across the United States and abroad, with a focus on hydrodynamic, wave, and morphological numerical modeling, as well as shoreline management and hydrodynamic data collection and analysis. He has extensive experience developing two- and three-dimensional hydrodynamic, wave, and sediment transport models, incorporating satellite-derived oceanographic and meteorological data and imagery, performing analyses of coastal hydrodynamics and developing management and infrastructure solutions to both short- and long-term climate events and changes. This specialized skill set has allowed Todd to support projects such as flood zone delineation, marshland restoration, beach management plans, and shore protection design and optimization.

EDUCATION

Master of Science, Coastal Engineering, University of Delaware, Newark, Delaware, 2006

Bachelor of Science, Ocean Engineering, University of Rhode Island, Kingston, Rhode Island, 2004

REGISTRATIONS

Professional Engineer #71585, State of Florida
Professional Engineer #41527, State of Maryland

PROJECT EXPERIENCE

Broward County Convention Center, Broward County, Fort Lauderdale, Florida

As part of Stantec's design effort for Broward County's new convention center, assisted with a sea level rise analysis and numerical modeling of wave impacts to determine infrastructure elevations and setbacks necessary for protection against extreme events under future environmental conditions.

Beach Preservation Plan 2019 Update, Indian River County, FL, Indian River County, Vero Beach, Florida

In support of Indian River County's semi-decadal update to their Beach Preservation Plan, which outlines all aspects of coastal management, assesses past actions and plans future efforts, assisted in analyzing beach profile changes, volumetric change, shoreline erosion modeling, and narrative development to help the County continue successfully managing their shoreline resources.

Cedar Island Marsh Restoration, Wachapreague, Virginia

The southern end of Cedar Island, a barrier island along the Atlantic Ocean on Virginia's eastern shore, has experienced rapid

erosion relative to adjacent areas, likely in part due to the lack of a landward marsh platform to allow for natural roll-over during storm events. Stantec is assisting VIMS in developing a marsh platform fill template and planting plan in order to rehabilitate the bay side of Cedar Island to allow for natural barrier island migration.

East Naples Bay Dredging and Rock Removal, Naples, Florida

Assisted in the development and submittal of project plans, specifications, and permits to dredge sediment and rock in a series of man-made residential canals on the eastern shore of East Naples Bay in Naples, FL.

Cooper's Bayou Circulation Enhancements, FDOT, Clearwater, Florida

Developed a Delft3D hydrodynamic and constituent transport model to simulate the flushing and dispersion of stormwater inflows under both existing conditions and a selection of potential hydraulic modifications within Cooper's Bayou in western Old Tampa Bay, including channel enhancement, dredging, and causeway modifications. Model results will help inform the potential for improving water quality and restoring seagrass beds in Cooper's Bayou.

Tiki Island Residential Channel Sedimentation Analysis, Village of Tiki Island, Galveston, Texas

The Village of Tiki Island has an extensive network of residential canals and channels for pleasure boat navigation which are subject to significant sedimentation and require periodic maintenance dredging. To assess the viability of structural alternatives to alleviate accumulation in one of the channels, developed a Delft3D hydrodynamic, wave, and sediment transport model to simulate tidal circulation, wave growth, and sediment transport for base conditions and a number of alternative wall configurations. An annualized amount of sediment accumulation was computed for each alternative and compared to base conditions to quantify the effectiveness of the structural options.

Prime Hook National Wildlife Refuge Flood Protection and Marsh Rehabilitation Study, US Fish and Wildlife Service, Milton, Delaware

Developed a hydrodynamic numerical model using Delft3D to investigate the hydrodynamics, salinity, and sediment transport within the marsh during operational and extreme conditions. In the past several years, a series of significant storms, including Hurricane Sandy, created breaches in the barrier island separating Prime Hook National Wildlife Refuge and Delaware Bay, leading to saltwater intrusion of the formerly freshwater impoundments, causing flooding and habitat disruption. The

Todd DeMunda PE**Coastal/Marine Engineering (Dredging & Coastal Studies)**

U.S. Fish and Wildlife Service desires to restore the system to its original salt marsh habitat, which existed before impoundment. Examined a number of alternatives to estimate the effects that closing the breaches and adding conveyance channels based on historical flow pathways would have on circulation, water levels, and salinity within the system. Used the results of the model to determine the design template for channel creation and delineate potential marsh habitat areas based on predicted water level and salinity ranges.

Wave Climate Analysis, SeaOne Maritime, San Pedro de Macoris, Dominican Republic

As part of a feasibility study for the construction of a liquefied natural gas (LNG) terminal, nearshore wave conditions were necessary as part of the infrastructure design and planning. Satellite-derived wind and wave fields were acquired from Oceanweather, Inc.'s GROW-FINE Caribbean hindcast model and statistically analyzed to determine average and extreme conditions offshore of the site. A SWAN wave model was developed which simulated the propagation of these waves to the nearshore to determine the potential extreme wave conditions possible at the site. These wave conditions will be used in the design of the site infrastructure and aid in vessel traffic logistics.

Coastal Storm Surge Sensitivity Analysis, FEMA, New York/New Jersey

Performed a review of existing storm surge studies and new analyses in support of the FEMA Region II coastal flood risk study. Tasks include reviewing satellite-derived hurricane data, using storm event wind fields derived from satellite data, storm surge model simulations, and statistical analyses. Results from this analysis will ultimately be used to guide the process for updating coastal regulatory flood maps throughout the region as well as to support local coastal resiliency projects.

Delaware Bay Beaches Management Plan, Delaware Department of Natural Resources and Environmental Control, Dover, Delaware

Developed an ADCIRC/STWAVE hydrodynamic and wave model for Delaware Bay and the adjacent Atlantic coast. Used model results in conjunction with SBEACH morphology modeling and historical analyses to develop a 10-year management plan for the State of Delaware for beach protection and restoration in the communities along the western shore of Delaware Bay

Gasparilla Island Beach Monitoring, Lee County, Lee County

Performed analysis of beach profiles for volumetric and shoreline changes on Gasparilla Island before and after a beach nourishment project as well as an analysis of the impact and recovery of the offshore sediment borrow area.

Shore Protection for Port of Gulfport Expansion, Mississippi State Port Authority, Gulfport, Mississippi

Completed this task as part of a larger design effort for the expansion of the Port of Gulfport. Used wave and storm surge data from an extensive modeling effort to design and optimize shore protection of the expanded site within specific design criteria using CEM-based tools developed in Matlab for armor stone sizing, wave overtopping, slope stability, and cross-section layout of riprap revetments.

Collier County Beach Monitoring, Collier County, Collier County, Florida

Performed an analysis of beach profiles on an annual basis for volumetric and shoreline changes in Collier County and South Marco Island before and after a beach nourishment project, as well as specific analysis of the impact of specific tropical storm events.

St. Augustine Riverfront Seawall Rehabilitation, FDOT, St. Augustine, Florida

In support of a seawall and roadway redesign in St. Augustine, FL, local wave dynamics and structural loadings were required. This involved collecting available historical wind data and performing a Peaks Over Threshold analysis to determine various return period wind speeds, which in turn were used to drive a 1D SWAN wave model across the Matanzas River to calculate wave conditions at the site under these scenarios. Fully nonlinear stream function wave theory was used to compute the detailed local wave dynamics, and procedures from the USACE Coastal Engineering Manual were used to compute the wave load distributions based on these wave characteristics.

Coastal Flood Hazard Analysis (Great Lakes), FEMA

As part of Federal Emergency Management Agency's effort to update flooding maps and studies nationwide, Mr. DeMunda was a lead engineer responsible for developing state-of-the-art ADCIRC+SWAN model for the Lake Huron/Lake Michigan basin, incorporating storm event wind fields using NOAA's National Centers for Environmental Protection (NCEP) Climate Forecast System Reanalysis (CFSR) data. A set of 151 historical storms were modeled, with the results used as input to a nearshore morphology model (CSHORE) and a number of wave runup and overtopping programs to compute storm water levels across a variety of shoreline types. These water levels were ultimately used in a statistical analysis to determine base flood elevations and update FEMA's Flood Insurance Rate Maps (FIRMs).



ALEX LAZOWICK, PE, PMP

President

Mr. Lazowick was introduced to civil engineering and construction by his grandfather, Mr. Bill Keith, founder of the firm. He is eager for the challenge to be the third family generation professional working to provide quality developments within the South Florida community.

Project Manager: Mr. Lazowick has gained experience in civil engineering design projects including water, sewer and drainage systems, roadway design, permitting, and construction administration services. He understands the importance of working together as a team to quickly identify and establish project goals and achieve successful results in the most expedient and cost effective manner. His qualifications include knowledge with AutoCAD Civil 3D, Navisworks, Revit, BIM, Microsoft Office, computer networking, and he possesses excellent communication skills.

Construction Engineering Inspections (CEI) / Resident Project Representative (RPR): Mr. Lazowick's field construction supervision and inspection experience includes a diverse array of project classifications from aviation, roadway, recreational, residential, commercial and governmental projects. His responsibilities consist of confirming contract compliance with plans and specifications, measurements and quantities, tracking critical activities, document events, resolving discrepancies, daily reports, record as-built plans and specifications, schedule testing and certifications and safety. He has been authorized by Homeland Security for FAA Air-side Airport Access and Escort Clearance and Movement Ramp Driving at Fort Lauderdale Hollywood International Airport and is familiar with BCAD Operations policies and procedures.

BIM Manager: Mr. Lazowick, as the firm's BIM Manager, oversees all 3D oriented projects. From Laser Scanning to 3D GIS, Mr. Lazowick is tasked with getting the job done. He manages the client relationship and QC's all 3D deliverables. He is always eager to try new software and find new workflows to help save our clients time and money. He is Autodesk Certified and well qualified with all Autodesk, ESRI and Leca software. He trains all new employee on the needed software. He is also tasked with assembling new computers to handle the ever growing file sizes.

RELEVANT PROJECT EXPERIENCE

BCWWS Water and Waste Water Services Continuing Contract, Broward County, FL: Broward County Water and Wastewater Services is implementing a new septic tank elimination program which consists of short sanitary sewer runs to serve small pockets of previously unserved properties. KEITH is providing engineering services for water distribution, wastewater collection and storm water collection systems. As the Prime consultant, KEITH is providing design and construction support services throughout the county related to the septic tank elimination program.

Broward County Water Reclaimed Water Plant Expansion, Broward County, FL: KEITH served as a subconsultant to Brown and Caldwell and was responsible for performing the pre-design, detailed design, bidding and permitting services, as well as engineering services during construction for the expansion of the existing reclaimed facility to increase its capacity.

North Regional Wastewater Treatment Plant (NRWWTP) Load Center and Motor Control Centers Rehabilitation, Pompano Beach, FL: The scope of this project includes the design and engineering services during construction for the replacement of Load Centers 5 and 6 related Motor Control Centers (MCC), and replacement/rehabilitation of associated duct banks at the North Regional Wastewater Treatment Plan (NRWWTP). KEITH is providing surveying services for this project.



Years of Experience
10

Education
B.S. Civil Engineering,
University of North
Florida, 2010

Professional Registrations
Professional Engineer,
State of Florida, #78625
(2015)

Project Management Professional Certification
No. 2554175 (2019)

Professional Affiliations
ASCE Member

FES Member

BIM Smart Foundation
Member

BuildingSMART
Foundation Member

Professional Certifications
Troxler Nuclear Gauge

FDOT Workzone Traffic
Control Intermediate
Level MOT

30 Hour OSHA
General Industry safety
and health hazard
recognition and
prevention

2900 North Bay Road, Miami Beach, FL: A Full Scan to BIM project. KEITH teamed with VDCO to fully laser scan this private residence, over 20,000 SF, and fully model the inside and outside of the property. Mr. Lazowick was tasked with overseeing the scan crews, reviewing the Point Cloud, running Anti-Clash Detecting to review the model's accuracy to the point cloud and ultimately delivering the final project to the client. The Anti-Clash Detecting is a newer work flow to make sure the Revit Model aligns fully with the point cloud. If there is a wall not in contact with the point cloud, it will call out an Anti-Clash similar to Clash Detection. In addition to the 3D model, plan, sections and elevation sheets were created from the model. **(09088.00)**

City of Pompano Beach Miscellaneous Civil Engineering Services, Pompano Beach, FL: KEITH has served as the General Engineering Consultant for the City of Pompano Beach for over 16 years on an as needed basis. All services of the firm are utilized including planning, civil engineering, surveying, subsurface utility engineering, and landscape architecture.

Avery Glen, Sunrise, FL: Mr. Lazowick provided construction engineering inspections for the final stages of this fast-track construction associated with the for this affordable housing 149-unit Multi-family apartments residences. The project included preparation and processing of the site plan, platting, surveying, design and permitting of the water, sewer and drainage systems, roadway design and permitting, utility coordination, offsite right-of-way design and the construction administration services.

Barkland - Parkland Municipal Dog Park, Parkland, FL: Mr. Lazowick provided the preliminary engineering design of water, drainage, sidewalks and parking areas associated with the design for this 4 acre municipal recreational development project. Coordination with landscape architect subconsultant and agency permitting were required for this project.

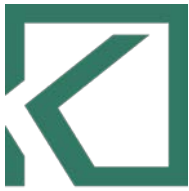
Bombardier Aircraft Service Center at FLL, Fort Lauderdale, FL: This facility is located on approximately 30 acres of leased property located on the West side of Fort Lauderdale-Hollywood International Airport, South of Taxiway Charlie and North of Lee Wagner Boulevard. The project consists of approximately 290,000 square feet of hangar, shops and office area, including a parking lot and an apron and airside connection to Taxiway Charlie. KEITH is providing survey, planning and civil engineering services to include the site plan preparation and processing, water, sewer, paving, grading and drainage design to support the proposed facility. Mr. Cartossa performed stormwater management calculations using ICPR, which included an analysis of the +/- 1430 acre airport (FLL), developed plans for approximately 1,100 LF water main, 2,600 LF gravity sewer and 5,500 LF drainage pipe. He also developed a system for containing AFFF on-site in the event of a fire and he designed the airside apron pavement design for 100,000 lb aircrafts with FAARFIELD. **(09069.00)**

Blanche Ely High School, Broward County, FL: Mr. Lazowick provided construction engineering inspections for the final stages of the school's stadium project facilitated through a Design Build Contract with Balfour Beatty Construction. Project includes complete reconstruction associated with the new football stadium, track and concession stand.

Broward County Aviation Department, Fort Lauderdale, FL- Building Information Modeling (BIM) Standards - Version 1 / 2013: Mr. Lazowick assisted ACAI and Associates with the authorship and preparation of the civil engineer and GIS sections of the first time released and newly implemented BIM Standards for all county aviation projects.

Broward County Library – Pompano Beach Branch, Pompano Beach, FL: Mr. Lazowick was responsible for verifying contractor extraction and fill quantities associated with the environmental cleanup of nonhazardous waste materials, earthwork volumes and quantifications for this joint County-Municipal project.

Parkland City Hall Building Department Wing Expansion, Parkland, FL: The proposed 3,000 SF expansion will be done on the Building Department wing of City Hall. The project will include the addition of approximately 1,500 SF of retention storage and 1,500 SF of Building Department space. The proposed retention space will also include access to the existing parking lot for intake of documents, as well as, moving paper out for disposal (shredding) purposes. KEITH is the Prime consultant serving as Owner's Rep and providing planning, surveying, civil engineering and subsurface utility engineering services. The engineering design includes approximately 160 LF of gravity sewer, 230 LF of water main and restoration of the parking lot.



KEITH

MICHAEL MOSSEY, PSM
Senior Surveyor & Mapper

Mr. Mossey has over 40 years of experience in land surveying and mapping in South Florida. He has extensive senior project management experience for large-scale projects and continuing service, on-call type contracts for both public and private sector clients. He is a highly talented Quality Surveyor with a successful track record in budget estimation, valuation of items and completing

projects on time. Mr. Mossey's experience includes a wide range of projects incorporating GIS deliverables for various agencies including Broward County, the Federal Aviation Administration (FAA) and municipalities.

RELEVANT PROJECT EXPERIENCE

A-1-A / S.R. 814 Atlantic Boulevard, Pompano Beach, FL: As Survey Project Manager, Mr. Mossey prepared extensive Topographic Design Surveys for this Pompano Beach CRA roadway improvement project. Project included design and right-of-way survey as well as a FDEP Coastal Topographic Survey required for design and permitting of coastal roadways, pedestrian walkways, and beach and dune beautification improvements. Concept includes reconstruction of roadway, water, sewer and drainage, streetscapes and beautifications.

Pompano Beach Boulevard Streetscape, Pompano Beach, FL: Mr. Mossey was responsible for the Coastal Hydrographic and Topographic Surveys for Florida Department of Environmental Protection (FDEP) Permitting for the design and construction of the roadway and pedestrian pathways adjacent to the beachfront. The project was situated seaward of the Coastal Construction Control Line therefore the design required extensive hydrographic and topographic survey in accordance with the requirements of the Florida Department of Environmental Protection- Division of Beaches and Shores as set forth in Section 62B-33.0081.

Pompano Beach Oceanside Fire Station #11, Pompano Beach, FL: KEITH is working with a team of consultants with the primary responsibility of surveying and platting to construct a new barrier island Oceanside Fire Station (Station # 11) in Pompano Beach. The proposed site required a land use plan amendment, rezoning, platting and site plan approval before the station could be permitted. KEITH coordinated with City staff and other consultants to properly time the plat approval in conjunction with the plan amendment as well as coordinating with the architect and FDOT for the plat opening along A-1-A for the fire station driveway. As Survey Project Manager, Mr. Mossey prepared Boundary and Topographic Design Survey including tree locations and identifications for this new public facility station on A-1-A including offsite improvements. Services included easement vacations plat preparation, processing and recordation.

Pompano Beach Fire Station #103, Pompano Beach, FL: As a sub-consultant to Currie Sowards Aguila Architects, KEITH responsibilities included the following services: preparing boundary and topographic surveys; plat preparation and processing; preparation of documents and attendance meetings for the site plan approval; pre-application meeting with agencies having jurisdiction; prepare all required bidding and construction documents for the projects, design plans, supplementary contract requirements, technical specifications and cost estimates; provide assistance for LEED BD+C rating documentation and processing; prepare and process all required plat permit applications and submittal packages as required for permit issuance of all agency permits.

General Engineering/Surveying Services Contract, Pompano Beach, FL: Through our continuing services contract, KEITH has provided surveying and mapping services for multiple parks and public spaces within the City. As Survey Project Manager Mr. Mossey prepared Boundary and Topographic surveys, as well as sketches of description for Pompano Community Park, Highlands Park, Alsdorf Park, Rustic Bridge Park, Founders Park and Lovely Park.



Years of Experience
40

Education

*Maryville College,
Maryville, Tennessee*

Professional Registrations

*State of Florida
Professional Surveyor
& Mapper #5660*

Professional Affiliations

*Florida Society of
Professional
Surveyors &
Mappers*

*Secretary,
Broward
Chapter
FSMS, 1999-
2000 and
2000-2001*

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Pompano Beach GIS Mapping Services Pilot Project, Pompano Beach, FL: KEITH was tasked to locate all water meters and valves, sanitary manholes and cleanouts, and storm drainage inlet structures and manholes with at least sub-meter grade GPS (Global Positioning System). The general limits of the project are from McNab Road (SE 15th Street) to the southerly edge of water of Lettuce Lake (just North of SE 8th Street) and from the easterly right-of-way of Federal Highway to the westerly edge of water of the Intracoastal Waterway. Mr. Mossey served as Senior Project Surveyor for this GIS project and is currently working in this geographic area and progress up to 1,550 data points. Once completed, KEITH will edit the files by moving the existing utilities, including any pipes, services or laterals that connect to the structure, to the true, GPS-verified location. The attribute data attached to each utility will remain unchanged.

S.E. 8th Court Bridge Replacement, Pompano Beach, FL: The project consisted of the replacement of the existing bridge at S.E. 8th Court across Santa Barbara Shores Canal, in the City of Pompano Beach. The project consists of demolition of existing structure and installation of a new bridge structure, headwalls, concrete deck, handrails, guardrails, and existing utilities. As Survey Project Manager, Mr. Mossey prepared the topographic and right of way survey including channel sounding and utility locations.

FDOT District 4 Districtwide Survey Services, Broward County, FL: KEITH provided surveying and mapping, and engineering services including water, sewer, paving grading & drainage design, permitting and construction inspection for this new \$4 million community facility in the City of Dania Beach.

Broward County Water Reclaimed Water Plant Expansion, Broward County, FL: As a subconsultant to Brown and Caldwell, KEITH was tasked with surveying activities to supplement the existing topographic survey provided by Broward County and verifying the elevation of select hydraulic process structures such as top of weir/wall/floor and overflow elements of existing structures.

Broward County Water and Wastewater Services Sanitary Improvements Survey, Hillsboro Beach, FL: As a Sub- Consultant to Brown and Caldwell, KEITH provided surveying and mapping services for the Sanitary Sewer Improvement Project along Hillsboro Mile (A-1-A). The scope included preparing a Topographic/Design survey from right-of-way to right-of-way along Hillsboro Mile starting at the inlet bridge and extending north to S.E. 10th Street. The survey included the acquisition and mapping of the above ground improvements and utilities within the survey corridor approximately 16,000 linear feet.

Broward County District 1A Water Treatment Plant Preliminary Design Phase I, Lauderdale Lakes, FL: Mr. Mossey provided surveying services associated with expansion and development new well sites for the Broward County Water Treatment Plant No 1A Property generally located at 3701 North State Road 7 in the City of Lauderdale Lakes, Broward County. KEITH provided Topographic surveys for the 2 Floridian well sites and pipeline alignment routes to the plant, a topographic survey for the injection well, and utilized all available existing record utility as-built information provided by utility companies, from the most reliable source, to identify underground utilities.



Kelli Schueler, PLA, LEED AP
 Director of Landscape Architecture

Ms. Kelli Schueler is a landscape architect and dedicated project manager who provides planning, design and project management services for a wide variety of project types through all phases of the development process. Her knowledge of the local environment, native species and sustainable best practices is combined with a creative approach that is detail oriented, ensuring designs are implemented efficiently and precisely. Her skills include project management, team leadership, production management, construction documentation and observation, regulatory approval and LEED documentation and sustainable strategies.



Years of Experience
14

Education
B.S.

Landscape
Architecture,
Oklahoma State
University, 2003

Professional Registrations
Registered Landscape
Architect, State of
Texas, #2959 (2014)

Council of
Landscape
Architecture
Registration Boards
(CLARB Certified)

**Professional
Affiliations** United
States Green
Building Council
(USGBC)

USGBCLEED
Accredited
Professional

RELEVANT PROJECT EXPERIENCE

Atlantic Boulevard Streetscape Improvements, Margate, FL: The CRA requested the KEITH Team develop a branded approach to several of the city's ROW and streetscapes. The request includes multiple miles of streetscape, medians, walls, walkways, landscape, lighting, signage and a signature fountain feature. The team worked to create a brand or identity that can be utilized throughout the City in these public realm areas. The signature element for this streetscape initiative is the addition of a roundabout and fountain feature. The CRA requested that a theme of a child fishing along the edge of the canal be utilized for inspiration. KEITH had to work around existing infrastructure items and yet was able to develop a creative approach for the fountain. The result was a combination of water, sculpture, landscape and hardscape to make a statement for the City and CRA of Margate.

Plantation Fire Station No. 1, Plantation, FL: KEITH was responsible for the development of the site plan and is currently coordinating with the design architect to develop the Landscape and Civil Engineering for the project. The intention is to utilize xeriscape and low maintenance materials that will provide aesthetics, as well as include CPTED principles for safety.

The Adderly, Fort Lauderdale, FL: KEITH is providing a full scope of services to include for this condominium project consisting of 455 rental units, 13,800 sf of retail and a 4,000 sf restaurant. KEITH is providing civil engineering, surveying, SUE, planning, traffic engineering, landscape architecture and construction management services to develop a parcel of land located at the intersection of Sistrunk Boulevard and NW 7th Avenue – otherwise known as Avenue of the Arts. The project is envisioned to be a 6 story mixed use project with residential, commercial and structured parking. The project intends to place a heavy focus on the design of the public realm areas and include art as a theme throughout.

PIXL, Plantation, FL: The PIXL project is part of the overall +/- 25 Acre mixed-use development that includes +/- 150 townhomes, 330 multi-family units and 50,000-SF of Retail and Office space. The project seeks to change the precedent for the City of Plantation to create a more modern look/feel for a project. KEITH is responsible for Survey, Planning, Civil Engineering and Landscape Architecture. Our team worked with the INVESCA group to advance the overall concept and theme for the project. KEITH was responsible for the design of the amenity areas, pedestrian realm, vehicular circulation, site infrastructure and drainage. KEITH was also responsible for coordinating the entitlement process with the team.

Fort Lauderdale Aquatics Center, Fort Lauderdale, FL: The Fort Lauderdale Aquatic Center is situated on a man-made pier which extends approximately 600 feet into the Intracoastal Waterway. The City of Fort Lauderdale and its CRA is looking to renovate the facility and ensure it meets aquatic competition requirements. KEITH's tasks include surveying, subsurface utility engineering, planning services, landscape architecture, and civil engineering. The intent of the project is to restore the Aquatic Center to remain as one of the icons of Fort Lauderdale Beach.

Engineering Inspired Design.

Levitt Pavilion and Esplanade Park, Fort Lauderdale, FL: I worked with a team to develop a design for a new concert venue and pavilion in Downtown Fort Lauderdale at the Esplanade Park. The design embraces local heritage of Native American culture and celebrates the river location while providing a state-of-the-art park and concert facility for the public. The project serves as a catalyst to new development in Fort Lauderdale's civic core and will provide citizens with an attractive public environment for daily use and special events.

Annie Gillis Park, Pompano Beach, FL: A renovation of the existing Annie Gillis Park in Pompano, this project provides a facelift to this open space to create a large Urban Plaza, while maintaining balance with ample green space. The park serves to bring people in through the implementation of a stage area for events, interactive play opportunities, exercise equipment, improved lighting and adequate shading, all of which serve to activate the park on a regular basis and provide a flexible space for multiple uses.

Fast Forward Fort Lauderdale Design and Construction Manual, Fort Lauderdale, FL: KEITH is working with renowned architecture firm Brooks + Scarpa to develop a design and construction manual that would facilitate a sustainable and resilient community, as well as a cohesive public realm that could potentially impact every facet of infrastructure and design within the city.

DC Alexander Park Improvements, Fort Lauderdale, FL: The DC Alexander Park is viewed as the "front yard" of the Fort Lauderdale Aquatic Center and occupies a prominent location on Fort Lauderdale Beach. Ms. Schueler is managing and coordinating the design of this improvement project.

Granite Hotel, Fort Lauderdale, FL: A boutique hotel and mixed-use development located on A1A directly adjacent to DC Alexander Park in Fort Lauderdale. This project is a multi-story high rise development with a blend of indoor / outdoor spaces that comele with the public realm. The project is designed to engage the beach, as well as the adjacent park / green space. The location sets itself up for both views and a potential future connection to the Intercoastal and Swimming Hall of Fame to the West and is designed keeping this in mind. I am managing and coordinating the design and ongoing development of this project.

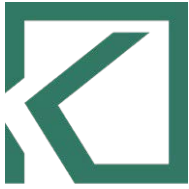
2nd Street District, Austin, Texas: Ms. Schueler worked on a variety of projects with Austin's 2nd Street District. These projects included working closely with the city and Austin's Great Streets Master Plan to help improve the quality of downtown streets and sidewalks, the goal being to help transform public right-of-ways into great public spaces. Design components throughout this district follow Complete Street principles and include wide sidewalks, sidewalk cafes, transit stops, street furnishings, tree canopy, bicycle parking and travel lanes.

Riverwalk Tower, Tampa, FL: An on-going project, Ms. Schueler has worked with the design team from the initial design phase, through design development, regulatory approval and now into the development of construction drawings for this project. This mixed use tower fronts the Hillsborough River in Tampa, and includes a Waterfront Plaza, Retail, and Streetscape component in addition to multiple Amenity Decks for residential use.

Public Storage, City of Pompano Beach, FL: KEITH provided comprehensive Planning, Civil Engineering and Landscape Architecture services for the construction of a three-story, 150,000 square foot self-storage facility at an existing Public Storage site. Scope of work included easement vacations and recording, site plan processing, paving, grading and drainage, water and sewer, pavement marking and signage, landscape, construction inspections and certification.

7-Eleven Land Development Services, South Florida: Ms. Scheuler is the project landscape architect for multiple project locations throughout Florida for 7-Eleven, where KEITH serves as a full service development partner providing a full suite of services including due diligence, civil engineering, planning, landscape architecture, surveying, subsurface utility engineering and traffic.

City of Pompano Beach Miscellaneous Civil Engineering Services, Pompano Beach, FL: KEITH has served as the General Engineering Consultant for the City of Pompano Beach for over 16 years on an as needed basis. All services of the firm are utilized including planning, civil engineering, surveying, subsurface utility engineering, and landscape architecture.



KEITH

PAUL WEINBERG, PLA, ASLA

Vice President of Planning and Landscape Architecture

Mr. Paul Weinberg is a multi-talented designer and team leader who has been based in South Florida since 2000. During this time, he has worked with a variety of significant public and private sector projects including urban parks, hotels, campuses, plazas, mixed-use development, entertainment districts, streetscapes, waterfront and residential projects that provide meaning and purpose to the community. He has a unique understanding of how to create immersive, authentic and memorable spaces that create place identity to bring vitality to each district. He is committed to a team-based approach that delivers creative, thought-provoking solutions tailored to the distinct character of each project. This collaboration starts with the multi-disciplinary approach at KEITH and builds to include other partners, consultants, and co-collaborators.

RELEVANT PROJECT EXPERIENCE

Pompano Beach Ali Cultural Center, Pompano Beach, FL: KEITH, as subconsultant to DK Architects, provided civil engineering and landscape architecture services to the Pompano Beach Community Redevelopment Agency (CRA) for the renovation of the 2-story, 7,000-SF building and new addition to this historically significant cultural center located on MLK Boulevard in Downtown Pompano. The existing historical building was renovated and enhanced by the addition of an outdoor performance space and concession facilities, as well as a new multi-purpose building including exhibit space, offices and a conference room to form a cultural campus. The landscape architecture department performed full site analysis and evaluation to prepare tree disposition plans showing tree preservation and tree removal and subsequently prepared landscape and hardscape plans for the outdoor amenities. The property has exterior plazas for events and exterior pedestrian corridors to connect the neighborhoods with the commercial area on MLK Boulevard. KEITH's efforts for this project within historical context included extensive coordination with the CRA and the City to coordinate the project with the Downtown Connectivity Plans. Civil engineering department prepared the design including water, sanitary sewer and storm drainage to service the new site plan, parking lot and driveway connections to the existing right-of-ways and permitting through the regulatory agencies.

Pompano Beach Charlotte Burrie Civic Center, Pompano Beach, FL: KEITH provided civil engineering, permitting, landscape architecture and construction administration and coordination services for the 8,712-SF Charlotte J. Burrie Community/Civic Center location at 2669 North Federal Highway in Pompano Beach's Crethaven neighborhood. The Civic Center was designed with multipurpose meeting spaces for civic, social, and recreational activities, easy pedestrian access with ADA compliance, porte-cochère entrance for inclement weather protection, and 48 vehicular and 20 bicycle parking spots. The interior of the Civic Center includes a lobby/pre-function area, reception area, administrative offices, small conference room, large assembly space accommodating up to 250 people, fixed platform performance stage, warming kitchen, storage areas and two activity rooms. The Civic Center building is LEED-certified. The engineering requirements include LEED templates, permitting, engineering plans including water and sewer, on-site paving, grading and drainage, signing and pavement marking, stormwater pollution prevention, bidding assistance and construction observation. Landscape services included tree inventory and appraisal, a tree disposition plan, landscape and irrigation plans, and landscape construction observation.

Fast Forward Fort Lauderdale Design and Construction Manual, Fort Lauderdale, FL: KEITH is working with renowned architecture firm Brooks + Scarpa to develop a design and construction manual for a sustainable and resilient community and cohesive public realm that could potentially impact every facet of infrastructure and design within the city. Mr. Weinberg is responsible for the planning and landscape architecture elements of the manual.



Years of Experience
18

Education
B.S. Landscape
Architecture, Michigan
State University, 2000

**Professional
Registrations**
Registered Landscape
Architect, State of
Florida, #LA6666804
(2005)

Council of Landscape
Architecture Registration
Boards (CLARB Certified)

Professional Affiliations
Urban Land Institute,
Member

American Society of
Landscape Architects
(ASLA), Member

American Resort
Development
Association (ARDA),
Member

Riverwalk Trust, Board
Member

MSU Landscape
Architecture Advisory
Board, Board Member

Fort Lauderdale Aquatics Center, Fort Lauderdale, FL: The Fort Lauderdale Aquatic Center is situated on a man-made pier which extends approximately 600 feet into the Intracoastal Waterway. The City of Fort Lauderdale and its CRA is looking to renovate the facility and ensure it meets aquatic competition requirements. KEITH's tasks include surveying, subsurface utility engineering, planning services, landscape architecture, and civil engineering. The intent of the project is to restore the Aquatic Center to remain as one of the icons of Fort Lauderdale Beach

Atlantic Boulevard Streetscape Improvements, Margate, FL: The CRA requested the KEITH Team develop a branded approach to several of the city's ROW and streetscapes. The request includes multiple miles of streetscape, medians, walls, walkways, landscape, lighting, signage and a signature fountain feature. The team worked to create a brand or identity that can be utilized throughout the City in these public realm areas. The signature element for this streetscape initiative is the addition of a roundabout and fountain feature. The CRA requested that a theme of a child fishing along the edge of the canal be utilized for inspiration. KEITH had to work around existing infrastructure items and yet was able to develop a creative approach for the fountain. The result was a combination of water, sculpture, landscape and hardscape to make a statement for the City and CRA of Margate.

Hallandale Fire Station No. 7 and EOC Headquarters, Hallandale Beach, FL: The building program and design for the City's new main fire rescue headquarters and emergency management facility were developed to achieve LEED Silver Certification and include a 25,000 SF, two-story complex with four apparatus bays and living quarters for up to 16 firefighters. In addition to on-duty fire rescue staff, the building will house the City's Fire Prevention Bureau including office space for fire inspectors, plans review and public education. KEITH is providing Civil Engineering, Landscape Architecture and SUE services.

City of Fort Lauderdale Tunnel Top Park, Fort Lauderdale, FL: The Riverwalk and Downtown Development Authority of Fort Lauderdale have been studying a number of visionary projects to connect and activate the downtown riverfront district corridor. Mr. Weinberg lead the team to the visioning for several key projects including Tunnel Top Park. The project is set to create a stage within the public realm that links the surrounding context together. The Tunnel Top Park will be a mini Klyde Warren Park or High Line for the City and bridge the gap between Laura Ward Plaza, the riverfront and the Las Olas Corridor. Currently the project is being coordinated through the FDOT and is seeking to be implemented through a multi-agency effort.

City of Fort Lauderdale Cemetery Master Plan, Fort Lauderdale, FL: KEITH assisted the City of Fort Lauderdale to develop a master plan for its four (4) cemeteries that range in size from 5 to 50 acres. The charge for the plan was to develop an inventory of the existing facilities, create a strategy to develop additional components and analyze the existing care fund that is in place for preservation. Through working with the cemetery advisory board our team created the master plan and it was unanimously approved. The pilot projects have been identified in the master plan and next steps to implementation are under way.

DC Alexander Park Improvements, Fort Lauderdale, FL: The DC Alexander Park is viewed as the "front yard" of the Fort Lauderdale Aquatic Center and occupies a prominent location on Fort Lauderdale Beach. Mr. Weinberg is leading the design, planning and permitting of this improvement project in conjunction with the City's CRA. He is managing a multi-disciplinary team to create a legacy project that will serve as an iconic, memorable place. (10046.M0)

Isle Casino, Pompano Beach, FL: Mr. Weinberg served as Principal-In-Charge working with the Cordish and El Dorado Resort companies to develop a campus wide master plan for the nearly 250 acre campus. Partnering with Elkus Manfredi architects KEITH is responsible for comprehensive planning documents, rezoning, traffic analysis, agency coordination, civil engineering and stakeholder/public engagement. The plan will be transformative to the campus as well as the overall neighborhood.

Plantation Fire Station No. 1, Plantation, FL: KEITH was responsible for the development of the site plan and is currently coordinating with the design architect to develop the Landscape and Civil Engineering for the project. The intention is to utilize xeriscape and low maintenance materials that will provide aesthetics, as well as include CPTED principles for safety.



Craig A. Smith & Associates, Inc.

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

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
- Flood Elevation Certificates

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: 24 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. 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.

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.

Misc. Flood Elevation Certificates.

Per the close out requirements of various counties and municipalities, Mr. Keener is proficient with the preparation of FEMA Flood Elevation Certificates for all phases of construction.



Craig A. Smith & Associates, Inc.

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.



Tom Mullin, P.E.
 RADISE International, L.C.
 Chief Geotechnical Engineer



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

9. Office Location

Stantec has over 17,000 people in more than 350 locations worldwide. With 200 offices and 7,600+ people in the US alone, chances are there's a Stantec presence right where you need us to be. More specifically, we have 15 offices within the State of Florida including our local Deerfield Beach office to aid in this contract, and we have a long history of serving municipal and county government clients throughout the state.

Our Deerfield Beach office (located at 800 Fairway Drive, Suite 195, Deerfield Beach, Florida) is only **10 minutes (7 miles)** from the City of Pompano Beach City Hall. We are very interested in this contract and our integrated team is committed to making it a success. This office shall be supported by staff from our other local offices in Sunrise, Coral Gables, and West Palm Beach as needed. **Our skilled professionals will work together to deliver the best possible design solutions!**

Deerfield Beach, Sunrise, West Palm Beach, and Coral Gables Staff Information		Stantec Staffing Information	
Administrative	26	Administrative	3289
CAD Technician	13	Architect	995
Civil Engineer	45	Biologist	254
Computer Programmer	1	CAD Technician	653
Construction Inspector	9	Civil Engineer	2390
Electrical Engineer	7	Computer Programmer	436
Environmental Engineer	2	Construction Inspector	273
Environmental Scientist	9	Electrical Engineer	673
Hydrologist	2	Environmental Engineer	423
Land Surveyor	5	Environmental Scientist	841
Planner, Urban/Regional	5	Geologist	220
Project Manager	7	Interior Designer	271
Structural Engineer	13	Land Surveyor	410
Technician/Analyst	3	Landscape Architect	227
Transportation Engineer	10	Mechanical Engineer	608
Other	9	Planner, Urban/Regional	261
	Total 166	Project Manager	671
		Structural Engineer	675
		Technician/Analyst	1920
		Transportation Engineer	250
		Other	1431
		Total	17,171

Office Locations

Deerfield Beach Office

800 Fairway Drive, Suite 195
Deerfield Beach, Florida 33441
(954) 481-2812

Sunrise Office

1551 Sawgrass Corporate
Parkway, Suite 440
Sunrise FL 33323
(954) 851-1572

West Palm Beach Office

2056 Vista Parkway, Suite 100
West Palm Beach FL 33411
(561) 771-5345

Coral Gables Office

901 Ponce de Leon Blvd., Suite 900
Coral Gables, FL 33134
(305) 445-2900

Subconsultant Office Locations

Keith & Associates

301 East Atlantic Blvd.
Pompano Beach, FL 33060
(954) 788-3400

Craig A. Smith & Assoc.

277 Goolsby Blvd., Unit 4C
Deerfield Beach, FL 33442
(954) 782 8222

Radise International

4152 W. Blue Heron Blvd.
Suite 1114
Riviera Beach, FL 33404
(561) 841-0103

10. Local Business

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 for Various City Projects

Prime Contractor's Name: Stantec Consulting Services Inc.

<u>Name of Firm, Address</u>	<u>Contact Person, Telephone Number</u>	<u>Type of Work to be Performed/Materials to be Purchased</u>	<u>Contract Amount</u>
Keith & Associates 301 East Atlantic Boulevard Pompano Beach, FL 33060	Alex Lazowick, PE, PMP (954) 788-3400	Surveying services, and Civil/Stormwater Engineering and Landscape Architecture support services	TBD

LOCAL BUSINESS EXHIBIT "A"

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

Solicitation Number E-23-20

TO: Stantec
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

 an individual a corporation

 a partnership a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

civil engineering, landscape architecture, surveying

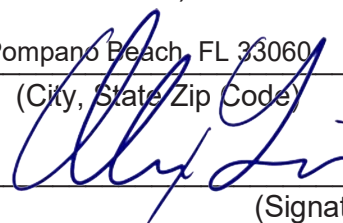
at the following price: TBD

7/22/2020
(Date)

Keith and Associates, Inc., bda KEITH
(Print Name of Local Business Contractor)

301 E. Atlantic Boulevard
(Street Address)

Pompano Beach, FL 33060
(City, State Zip Code)

BY: 
(Signature)

IMPORTANT NOTE: Signatures on this form MUST be by an authorized employee of Subcontractor and must be uploaded to the Response Attachment Tab

LOCAL BUSINESS EXHIBIT "B"

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

N/A

Solicitation # E-20-20

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

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

3. Did you send written notices to Local Businesses?

Yes No

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

4. Did you advertise in local publications?

Yes No

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

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

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

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

8. Other comments: _____

LOCAL BUSINESS EXHIBIT "D" – Page 2

N/A

LOCAL BUSINESS EXHIBIT "D"

LOCAL BUSINESS EXHIBIT "C"
LOCAL BUSINESS UNAVAILABILITY FORM

N/A

Solicitation # E-20-20

I, _____
(Name and Title)

of _____, certify that on the _____ day of

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

items to be performed in the City of Pompano Beach:

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

Said Local Businesses:

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

Name and Title: _____

Date: _____

Note: Attach additional documents as available.

LOCAL BUSINESS EXHIBIT "C"

TIER 1/TIER 2 COMPLIANCE FORM

IN ORDER FOR YOUR FIRM TO COMPLY WITH THE CITY'S LOCAL BUSINESS PROGRAM AS A TIER 1 OR TIER 2 VENDOR, BIDDERS MUST COMPLETE THE INFORMATION BELOW AND UPLOAD THE FORM TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.

TIER 1 LOCAL VENDOR

_____ My firm has maintained a permanent place of business within the city limits and maintains a staffing level, within this local office, of at least 10 % who are residents of the City of Pompano Beach.

And/Or

_____ My firm has maintained a permanent place of business within the city limits and my submittal includes subcontracting commitments to Local Vendors Subcontractors for at least 10 % of the contract value.

Or

_____ My firm does not qualify as a Tier 1 Vendor.

TIER 2 LOCAL VENDOR

_____ My firm has maintained a permanent place of business within Broward County and maintains a staffing level, within this local office, of at least 15% who are residents of the City of Pompano Beach

And/Or

My firm has maintained a permanent place of business within Broward County and my submittal includes subcontracting commitments to Local Vendors Subcontractors for at least 20% of the contract value.

Or

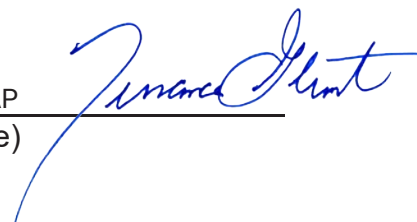
_____ My firm does not qualify as a Tier 2 Vendor.

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

July 29, 2020
(Date)

Stantec Consulting Services Inc.
(Name of Firm)

BY: _____
Terrance Glunt, PE, LEED AP
(Name)



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: STANTEC CONSULTING SERVICES INC **Receipt #:** 315-274235
Business Name: STANTEC CONSULTING SERVICES INC **Business Type:** ENGINEER (CERTIFICATE OF AUTHORIZATION)

Owner Name: STANTEC CONSULTING SERVICES INC **Business Opened:** 01/06/2016
Business Location: 800 FAIRWAY DR STE 195 **State/County/Cert/Reg:** 27013
 DEERFIELD BEACH **Exemption Code:**

Business Phone:

Rooms	Seats	Employees	Machines	Professionals
		4		

For Vending Business Only						Total Paid
Number of Machines:			Vending Type:			
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	
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:
 STANTEC CONSULTING SERVICES INC
 11130 NE 33 PL STE 200
 BELLEVUE, WA 98004

Receipt # 1CP-18-00015565
Paid 09/10/2019 30.00

2019 - 2020

<p>Business Tax Office 150 NE 2nd Ave. Deerfield Beach, FL 33441 Phone: (954)480-4333 E-mail: web.btr@deerfield-beach.com</p>	 Deerfield Beach Florida	<p>Business Tax Receipt License 2019-2020 License Number: 20-00031169 Date Issued: 9/10/2019 Expires: 9/30/2020</p>				
<p>STANTEC CONSULTING SERVICES IN 11130 NE 33RD PL SUITE 200 BELLEVUE WA 98004</p>	<p>Classification: ENGINEERING SERVICES/ENGINEER Business Location: 800 FAIRWAY DR Service(s): ENGINEERING FIRM - SUITE 195 Control Number: 0001589</p>					
<table border="1"> <tr> <td>Tax Amount: \$ 117.60</td> <td>Add. Fees: \$ 122.40</td> <td>Penalty: \$ 0.00</td> <td>Total Amount Paid: \$240.00</td> </tr> </table>			Tax Amount: \$ 117.60	Add. Fees: \$ 122.40	Penalty: \$ 0.00	Total Amount Paid: \$240.00
Tax Amount: \$ 117.60	Add. Fees: \$ 122.40	Penalty: \$ 0.00	Total Amount Paid: \$240.00			
<p>Notice: This Tax Receipt becomes NULL and VOID if ownership, business name, or address changed. Business owner must apply to Business Tax Office for Transfer.</p>						

11. Litigation

Firm Name: Stantec Consulting Services Inc. ("SCSI")**LEGAL PROCEEDINGS**

Following are legal proceedings arising out of construction or design projects. We have listed all currently pending litigation against SCSI (including litigation against Stantec Consulting Inc. and Stantec Consulting Corporation. Stantec Consulting Inc. was merged into Stantec Consulting Services Inc. as of December 31, 2009; Stantec Consulting Corporation was merged into SCSI as of December 31, 2011), and all currently open litigation or litigation that has been closed since the date of acquisition of companies acquired by SCSI, namely: The Sear-Brown Group, Inc., Dufresne-Henry, Inc., Vollmer Associates, LLP., Trico Engineering, Inc., Neill & Gunter, Inc., R.D. Zande, Inc., Fuller, Mossbarger, Scott & May, Inc., Secor International Incorporated, Jacques Whitford Company, Inc., Bonestroo, Inc., ENTRAN, Inc., ABMB Engineers, Inc. Greenhorne & O'Mara, Inc., USKH Inc., Processes Unlimited, Inc., Penfield & Smith Engineers, Inc., Fay, Spofford & Thorndike, Inc. and MWH (collectively "acquired companies").

1) Currently Pending Litigation for SCSI or acquired companies

PROJECT NAME, LOCATION & OWNER	DESCRIPTION OF CONVICTIONS, FINES and LEGAL PROCEEDINGS (include caption of case, parties, location of proceeding, description of the dispute or enforcement action, dates action commenced and concluded and status and/or outcome)
DCAS – 210 Joralemon LL11 Brooklyn, NY Owner – New York City Department of Citywide Administrative Services	Fitim Shehu v. The Board of Managers of the 210 Joralemon Street Condominium, Stantec Consulting Services Inc., Stantec Architecture Inc., Ashnu International Inc., ZDG LLC, 210 Muni, LLC and United American Land, LLC; County of New York; allegations re unsafe work conditions; pending, unresolved litigation.
Modified Wastewater Pumping Station; Wastewater & Effluent Force Mains Plymouth, MA Owner – Town of Plymouth, MA	Town of Plymouth v. Veolia North America – Northeast LLC, Veolia Water North America Operating Services LLC. Veolia North America, Inc., American Home Assurance Company, Insurance Company of the State of PA. American International Group, Inc., Ace American Insurance Company, CDM Smith, Inc., P. Gioioso & Sons, Inc. and Stantec Consulting Services Inc.; United States District Court, commenced May 2016; allegation re force main sewer, pending, unresolved litigation.
Modified Wastewater Pumping Station; Wastewater & Effluent Force Mains Plymouth, MA Owner – Town of Plymouth, MA	Commonwealth of Massachusetts v. Veolia, Town of Plymouth and Town of Plymouth v. CDM Smith, Stantec Consulting Services Inc., et al.; companion case to previous Town of Plymouth v. Veolia, et al.; allegation in Massachusetts State Court, allegation re discharge of water; pending, unresolved litigation.
Quarry Naples, FL Owner - Centex Homes now Pulte	Quarry Community Association Inc., Plaintiffs vs. Centex Real Estate, Wilson Miller Inc., et al.; allegation re construction defects in common areas which were constructed by Pulte; commenced May 31, 2017; pending, unresolved litigation.
SP NO 454-02-0071, I-12 Widening D-B Amite River Bridge Baton Rouge, LA Owner - LA Department of Transportation and Development	City of Walker, City of Denham Springs, The Williamson Eye Center (APMC), Timothy John Kinchen and Shannon Farris Kinchen. v. State of LA thru State of LA Department of Transportation and Development, ABMB Engineers, et al.; allegation re concrete barrier along I-12 as part of Geaux Wider highway; commenced January 2017; pending, unresolved litigation.
Henrico Fire Station #10 Henrico County, VA Owner - County of Henrico	Murray v. County of Henrico and Haley Builders; Jewell v. County of Henrico & Haley Builders, Inc.; allegation re storm water runoff at construction site; commenced June 2016; pending, unresolved litigation.
Glendale Community College District Services Building Glendale, CA Owner - Glendale Community College District	Mallcraft, Inc v. Glendale Community College District. Mechanical system is not performing in new services building. The construction contract with the contractor was terminated during construction for default and the bonding company (Travelers Insurance) took over. Travelers brought arbitration against the College and is claiming architectural and engineering errors and omissions both as a defense to defect claims and as an affirmative source to recover their losses. Stantec performed mechanical, electrical and plumbing design and Traveler's alleges their contractor did not follow the design because it was "overdesigned." College district brought in Architect due to Contractor defenses, and Stantec brought in as a defendant by Architect. Settled, <i>pending closure</i> . (September 2019)

PROJECT NAME, LOCATION & OWNER	DESCRIPTION OF CONVICTIONS, FINES and LEGAL PROCEEDINGS (include caption of case, parties, location of proceeding, description of the dispute or enforcement action, dates action commenced and concluded and status and/or outcome)
<i>Legacy Personal Injury Claims</i> relating to Wolff & Munier, Inc., acquired by Fay Spofford & Thorndike of New York, Inc.	Pending lawsuits tendered to Wolff & Munier, prior insurance carrier; claims relating to alleged asbestos exposure on projects decades ago; on projects where Wolff & Munier allegedly provided services.
Pike County Manufacturing Center Improvement Project Waverly, OH Owner – Pike County	Vulgamore Farms v. Stantec Consulting Services Inc. v. Pike County Board of Commissioners, et al.; alleged conversion of earth; commenced September 2016; pending, unresolved litigation.
Hidden Canyon Estates Draper, UT Owner - DJ Investment Group	DJ Investment Group v. SCSi; Plaintiff alleges negligence and breach of contract in design of a road and culvert for a stormwater detention basin, and review of separate parcels of land for future development activities; commenced Nov. 2017; pending, unresolved litigation.
Eastside WRF Aeration System and Headworks Improvements Nokomis, FL Owner - City of Venice, FL	Antaya v. MWH Americas, Inc., MWH Global, Inc., Stantec Consulting Services Inc., et al.; wrongful death claim; allegation of negligence in provision of contract administration services; commenced January 2018; pending, unresolved litigation.
SR 347 Dunmore, PA Owner – Pennsylvania Department of Transportation	Bertocki Realty, LLC, Bertocki, J.P. Insurance Agency, Inc., Plaintiffs vs. Commonwealth of PA Dept, of Transportation a/k/a PennDoT, Harrisburg; Commonwealth of PA Dept, of Transportation a/k/a PennDoT (Office of Attorney General, Civil Litigation Unit); Stantec Consulting Services Inc.; New Enterprise Stone & Lime Co. Inc.; McMahon & Mann Consulting Engineers, P.C., Defendants; allegation re encroachment of property; commenced July 2018; pending, unresolved litigation.
Tulloch Hydroelectric Project 3 rd Unit Addition Calaveras/Tuolumne Counties, CA Owner - Tri-Dam Joint Venture	Tri-Dam Project, a cooperative venture between Oakdale Irrigation District, a public agency, and South San Joaquin Irrigation District, a public agency, v. MWH Americas, Inc. a DE corporation; MWH Global, Inc., a DE corporation; Stantec, Inc. a foreign business entity; and Does 1-100 inclusive; allegation re design error; commenced May 2017; pending, unresolved litigation.
Harrison West Harrison, NY Owner – Memorial Sloan Kettering Cancer Center	Svetlana Mironov, Plaintiff, v. Memorial Hospital for Cancer and Allied Diseases, Ewing Cole, Inc., Hunter Roberts Construction Group, L.L.C., WJL Architecture & Engineering, D.P.C., dba Ewing, Cole, Wilson Jarvis Patel Architecture & Engineering, P.C., dba Ewing, Cole, Jaros, Baum & Bolles, Inc., Jaros Baum & Bolles, Inc. Consulting Engineers, LLP, Robert Silman Associates Structural Engineers, D.P.C., Stantec Consulting Services Inc., Granary Associates, Inc., Orange County Iron Works, LLC, A-Val Architectural Metal III LLC, Port Morris Tile & Marble Corp., Imperial Woodworking Company, RE:SOURCE New Jersey, Inc. and West-Fair Electric Contractors, Inc., Defendants; allegation re personal injury, commenced September 2018; pending, unresolved litigation.
SR 836 & SR 826 Interchange Reconstruction Miami, FL Owner – Florida Department of Transportation	Jose Antonio Florez Garcia, Plaintiff vs. BCC Engineering, Inc., et al., (Stantec Consulting International, LLC, an AZ corporation); commenced December 2018; allegation re personal injury; pending, unresolved litigation.
SDS Treatment Plant Colorado Springs, CO Owner – Colorado Springs Utilities	Wildeman v. MWH Global; Stantec Inc., SimplexGrinnel, Western States Fire Company, allegations re personal injury; commenced November 2017; pending, unresolved litigation.

PROJECT NAME, LOCATION & OWNER	DESCRIPTION OF CONVICTIONS, FINES and LEGAL PROCEEDINGS (include caption of case, parties, location of proceeding, description of the dispute or enforcement action, dates action commenced and concluded and status and/or outcome)
Windy Ridge Tank Anaheim, CA Owner – City of Anaheim, CA	KANA ENGINEERING GROUP, INC., a California Corporation, Plaintiff V. CITY OF ANAHEIM, a California Municipal Corporation, Defendant V. CITY OF ANAHEIM, a California municipal corporation, Cross-Complainant V. STANTEC CONSULTING SERVICES INC., a New York corporation, for itself and as assignee of MWH AMERICAS, INC., a California corporation, Cross-Defendants; allegation by City of Anaheim re termination of contract; commenced December 2018, pending, unresolved litigation.
Four Seasons Restaurant (280 Park Avenue) New York, NY Owner - Classic Restaurants	Jame Legacy LLC d/b/a The Four Seasons Restaurant and Classic Restaurants Corp, Plaintiff v. Stantec Consulting Services Inc., Defendants; allegation re Omission of Steam Piping on Drawings re Four Seasons; commenced on March 2019, pending, unresolved litigation.
Southern Beltway Project County of Washington, Pennsylvania Owner - Pennsylvania Turnpike Commission	Gary Andreis, Jr., Plaintiff vs. Pennsylvania Turnpike Commission; Stantec Consulting Services Inc.; Joseph B. Fay Company; CDR Maguire, Inc.; Washington County Conservation District; Commonwealth of Pennsylvania, Department of Environmental Protection. Defendants; Writ of Summons filed against Stantec Consulting Services Inc. in March of 2019; pending, unresolved litigation.
Somerset Units Owner – Various Homeowners	Somerset Homeowners Association v. Somerset Development Company, Q&D Construction, Parsons Brothers Rockeries, et al. v. Stantec Consulting Inc.” (third party defendant); Multiple Alleged Defects; pending, unresolved litigation.
Gleman v. MWH Americas Inc., et al.	Michael E. Gleman, Plaintiff, v. MWH Americas, Inc., Jack McDonald, Adam Ward, Stantec Consulting International, LLC, Hinterland Group and Dan Duke, Defendants filed in Circuit Court of the 15th Judicial Circuit in and for Palm Beach, FL; claim alleges defamation, tortious interference with a business relationship and negligent retention and supervision. Claim is for damages in excess of \$15,000; motion to dismiss granted, appeal pending; September 2019.
Santa Barbara High School Peabody Stadium Santa Barbara, CA Owner – County of Santa Barbara, CA	AMG & Associates, Inc. vs. Stantec Consulting Services Inc., shoring piles were constructed in wrong location and had to be moved; contractor alleges Stantec surveyors incorrectly staked the piles for construction; Stantec alleges shoring plans provided by contractor contained the error; commenced May 2019; pending, unresolved litigation.
Mallory Park Del Webb, Manatee County, FL Owner – Pulte Homes @ Time of Survey	Leo Hyatt, Barbara Hyatt and Laura Mondello, Plaintiffs, v. Geopointe Surveying, Inc. and David Bouverat, Inc. d/b/a Key Appraisal Services, Inc.; allegation re property survey, commenced July 2019; pending, unresolved litigation.
Chartwell Building Expansion Congers, NY Owner – Chartwell Pharmaceuticals	Chartwell Pharmaceuticals, Plaintiff v. Stantec Consulting Services Inc., Defendant; allegation re design documents, commenced August 2019, pending, unresolved litigation.
F-395 AB88 SIRA GRP Construction Conroe, TX Owner - San Jacinto Water Authority	San Jacinto Water Authority, Plaintiff v. Texas Sterling Construction Co., Binkley & Barfield, Inc., Brown & Gay Engineers, Inc., Stantec Consulting Services Inc., Huff & Mitchell, Inc., Defendant, allegation re pipe failure of water line installed by Contractor; commenced July 2016; pending, unresolved litigation.
Cubsmart – Burbank Sewer Relocation Baton Rouge, LA Owner – Brookwood Properties	Rosehill Construction, LLC, Plaintiff vs. Ted Hebert, LLC, Defendant, Third Party Demand; allegation that Stantec failed to account for unsuitable soil conditions when designing the site sewer system for the project; commenced April 2019, pending, unresolved litigation.
9A – West Street Promenade New York, NY Owner – NYSDOT, Hugh L. Carey Battery Park City Authority & Battery Park City Parks Conservancy Corporation	ISAMAR ROSA, Plaintiff against Hugh L. Carey Battery Park City Authority and Battery Park City Parks Conservancy Corporation, Defendants; Hugh L. Carey Battery Park City Authority and Battery Park City Parks Conservancy Corporation, Third-Party Plaintiffs, Against Stantec Consulting Services Inc. and Applied Landscape Technologies Inc., Third-Party Defendant; allegation re personal injury; October 2019, pending, unresolved litigation.

PROJECT NAME, LOCATION & OWNER	DESCRIPTION OF CONVICTIONS, FINES and LEGAL PROCEEDINGS (include caption of case, parties, location of proceeding, description of the dispute or enforcement action, dates action commenced and concluded and status and/or outcome)
STARR FEMA PTS contract Tecumseh, MO Owner - FEMA	Derek Christopherson and Jennifer Christopherson, Plaintiffs, vs. Robert and Connie Jo. Bushner and Federal Emergency Management Agency (FEMA) and Stantec, Inc. and WS Atkins, PLC and The Dewberry Companies, Inc. and CoreLogic, Inc., Inez Pahlmann and Missouri Ozarks Realty, Inc., Inez Pahlman and John Doe, Defendants; allegation re floodwaters which destroyed home and personal property, July 2019; pending, unresolved litigation.
SR 286 / I-75 Express Lane Project Miami, FL Owner – Florida Department of Transportation	Mariella Barbera, Plaintiff, vs. COMMUNITY/CONDOTTE/DE MOYA, JV, LLC, a Florida Corporation, BCC ENGINEERING, INC., a Florida Corporation, STANTEC CONSULTING SERVICES INC., a Foreign Corporation, and, BOB'S BARRICADES, INC., a Florida Corporation, Defendant; allegation re personal injury; pending, unresolved litigation,
SR 286 / I-75 Express Lane Project Miami, FL Owner – Florida Department of Transportation	Manuel Enrique Rodriguez Barbera, an individual, Ehimy Doucet, an individual, Alexander Doucet, a minor and Alisha Doucet, a minor, Plaintiffs, vs. Community / Condotte / De Mayo, JV, LLC, a Florida Corporation, BCC Engineering, Inc., a Florida Corporation, Stantec Consulting Services Inc., a Foreign Corporation, Defendants; commenced October 2019; allegation re personal injury; pending, unresolved litigation.
CE&I Services for CR 41 Bridge replacement, ALDOT Project BR-0041(501), Escambia County Brewerton AL Owner – Alabama Department of Transportation	ARCH INSURANCE COMPANY, a corporation, Plaintiff, vs. STANTEC CONSULTING SERVICES, INC., a Corporation; FORTERRA PIPE & PRECAST, LLC, a Foreign Limited Liability Company; HANSON PIPE & PRECAST, INC., a Corporation; JOHN R. COOPER, in His Official Capacity as Director of the Alabama Department of Transportation (ALDOT); WINSTON J. POWE, in His Official Capacity as State Construction Engineer of ALDOT, Defendants; commenced October 2019; pending, unresolved litigation.
Loop 375 Border Highway West Extension Project Texas Owner – Texas Department of Transportation	Walter P. Moore and Associates v Stantec Consulting Services Inc. and Kellogg Brown & Root, LLC; Claims for unpaid invoices and alleged additional services performed by Moore on the Loop 375 project in El Paso, TX.
I-85/I-385 Design-Build Interchange Improvements Greenville County, SC Owner - South Carolina Department of Transportation	Flatiron-Zachry, a Joint Venture, Plaintiffs, vs. Civil Engineering Consultant Services, Inc. dba Civil Engineering Consultant Services, Inc., ECS Southeast, LLP f/k/a ECS Carolinas, LLP, Mead and Hunt, Inc.; Stantec Consulting Services, Inc.; and T.Y. Lin International, Defendants; commenced March 2019; allegation regarding delivery plans; pending, unresolved litigation.
State Road 8 (1-10) in Leon County Leon County, FL Owner – Florida Department of Transportation	Alfonso Diaz Bautista, a FL citizen and resident, Lucia P. Gutierrez, a FL citizen and resident, and Alfonso Diaz Bautista and Lucia P. Gutierrez, as Parents and Natural Guardians of Minor Child, RB, Plaintiff, vs. Carter & Burgess nka Jacobs Engineering, a Foreign Corporation, C. W. Roberts Contracting Incorporated, a FL Citizen, Resident, and Corporation, Safety Contractors, Inc., a FL Citizen, Resident and Corporation, and Greenhorne O'Mara nka Stantec, a Foreign Corporation, Defendant; commenced October 2019; allegation re personal injury; pending, unresolved litigation.
Integrated Planning and Regulatory Support Project City of Akron, OH Owner – City of Akron, OH	Stantec Consulting Services Inc., Plaintiff v. City of Akron, Ohio, Defendant; Summit County, OH; commenced September 2019; allegation regarding unpaid invoices; pending, unresolved litigation.

12. 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) Terrance Glunt, PE, LEED AP Title Principal/Contract Manager

Company (Legal Registered) Stantec Consulting Services Inc.

Federal Tax Identification Number 11-2167170

Address 800 Fairway Drive, Suite 195

City/State/Zip Deerfield Beach, Florida 33441

Telephone No. (954) 481-2812 Fax No. (954) 481-2818

Email Address tery.glunt@stantec.com

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

VENDOR CERTIFICATION REGARDING SCRUTINIZED COMPANIES LISTS

Respondent Vendor Name: Stantec Consulting Services Inc.

Vendor FEIN: 11-2167170

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



BIDDERS ARE TO COMPLETE FORM AND UPLOAD COMPLETED FORM TO THE EBID SYSTEM

EXHIBIT E

MINORITY BUSINESS ENTERPRISE PARTICIPATION

RLI # E-20-20

List all members of your team that are a certified Minority Business Enterprise (as defined by the State of Florida.) You must include copies of the MBE certificates for each firm listed with your electronic submittal.

Name of Firm	Certificate Included?
Radise International, LC	Yes (see Tab 15-Licenses)



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

July 27, 2020

ADDENDUM #1, RLI E-20-20

Continuing Contracts for Professional Surveying and Mapping Services

To Whom It May Concern,

The revised solicitation document, with the inclusion of services to the Community Redevelopment Agency (CRA), has been added to the attachments tab of the City's eBid system.

Addendum #1 is posted on the City's eBid website: <http://pompanobeachfl.ionwave.net>. Acknowledge receipt of this Addendum using the Addendum Attribute on the Attributes tab in the eBid System.

The deadline for acceptance of proposals in the eBid system is **2:00 p.m. (local), July 30, 2020.**

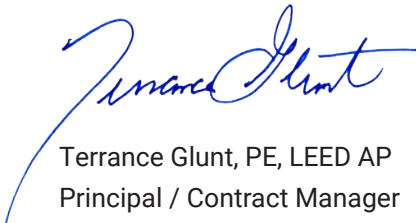
The remainder of the solicitation is unchanged at this time.

Sincerely,

Jeff English, Purchasing Agent

cc: website

Acknowledgment of Addenda Received:



Terrance Glunt, PE, LEED AP
Principal / Contract Manager

13. Financial Information

Financial Information

Stantec Inc. is a publicly traded entity listed on the New York Stock Exchange (Symbol: STN) and the Toronto Stock Exchange (Symbol: STN). We are required to be financially stable in order to maintain these listings and we are required to adhere to the Internal Control – Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission “(2013 framework)” (the COSO criteria). We are subject to ongoing independent audits that prove our financial stability and credit worthiness. For a complete view of our audited financial statements, visit the Financial Information section of our web site at <https://www.stantec.com/en/investors/stantec-financial-information>. Please note that Stantec Inc.’s operating subsidiaries and affiliates (e.g., Stantec Consulting Ltd., Stantec Consulting Services Inc., etc.) are not publicly traded, but are owned and/or controlled by Stantec Inc. Stantec Inc.’s financial statements are consolidated to include its subsidiaries and structured entities that are controlled, but do not necessarily include all affiliates.

A financial summary is shown below and our complete financial statement was uploaded to the Response Attachments.

2019 Financial Highlights

	Year Ended Dec 31					
	2019		2018		2017	
	\$	% of Net Revenue	\$	% of Net Revenue	\$	% of Net Revenue
<i>(In millions of Canadian dollars, except per share amounts and percentages)</i>						
Gross revenue	4,827.3	130.1%	4,283.8	127.7%	4,028.7	126.9%
Net revenue	3,711.3	100.0%	3,355.2	100.0%	3,173.8	100.0%
Direct payroll costs	1,702.9	45.9%	1,540.0	45.9%	1,411.9	44.5%
Gross margin	2,008.4	54.1%	1,815.2	54.1%	1,761.9	55.5%
Administrative and marketing expenses	1,433.6	38.6%	1,438.2	42.9%	1,407.7	44.4%
Other	(1.2)	0.0%	6.9	0.2%	(60.4)	(2.0%)
EBITDA from continuing operations (note)	576.0	15.5%	370.1	11.0%	414.6	13.1%
Depreciation of property and equipment	58.2	1.6%	50.1	1.5%	52.2	1.6%
Depreciation of lease assets	115.8	3.1%	-	0.0%	-	0.0%
Amortization of intangible assets	66.9	1.8%	65.0	1.9%	73.0	2.3%
Net interest expense	69.6	1.9%	28.7	0.9%	25.9	0.8%
Income taxes	71.1	2.0%	55.0	1.6%	166.5	5.2%
Net income from continuing operations	194.4	5.2%	171.3	5.1%	97.0	3.1%
Net loss from discontinued operations	-	0.0%	(123.9)	(3.7%)	-	0.0%
Net income	194.4	5.2%	47.4	1.4%	97.0	3.1%
Basic and diluted earnings per share (EPS) from continuing operations	1.74	n/m	1.51	n/m	0.85	n/m
Adjusted EBITDA from continuing operations (note)	574.4	15.5%	392.5	11.7%	353.3	11.1%
- Excluding IFRS 16 (note)	431.4	11.6%	392.5	11.7%	353.3	11.1%
Adjusted net income from continuing operations (note)	225.0	6.1%	206.6	6.2%	196.7	6.2%
Adjusted diluted EPS from continuing operations (note)	2.02	n/m	1.82	n/m	1.72	n/m
Dividends declared per common share	0.58	n/m	0.55	n/m	0.50	n/m
Total assets	4,561.5		4,009.9		3,883.1	
Total long-term debt	860.9		933.7		739.6	

Construction Services operations are presented as discontinued operations. Results for 2019 were accounted for using IFRS 16 and results for 2018 and 2017 were accounted for using IAS 17. Gross and net revenue were accounted for using IFRS 15 for 2019 and 2018 and IAS 11 for 2017.

note: EBITDA, adjusted EBITDA, adjusted net income, adjusted basic and diluted EPS, and measures excluding IFRS 16 are non-IFRS measures (discussed in the Definitions section of this MD&A).

n/m = not meaningful

We delivered solid performance in 2019 and met all of our key financial metrics. Our gross revenue and net revenue growth remained strong, we achieved consistent gross margin performance, and generated more than 10% growth in our adjusted diluted earnings per share.

- Net revenue increased 10.6% or \$356.1 million mainly due to acquisition growth of 5.2% and organic growth of 4.4%. Organic growth was achieved in all businesses except for a 1.6% retraction in Energy & Resources. Organic growth was particularly strong in Environmental Services and Infrastructure and in our US and Global regions, while Canada's organic net revenue growth was flat.
- Gross margin increased 10.6% and, as a percentage of net revenue, remained stable at 54.1%.
- Administrative and marketing costs were 38.6% of net revenue which is within our targeted range, including a 0.2% impact from severances associated with our organizational reshaping efforts. Without the impact of IFRS 16, administrative and marketing expenses as a percentage of net revenue decreased from 42.9% to 42.5%. 2018 results included non-recurring costs related to a lease exit liability charge and a past pension service cost. Adjusted for severances associated with our reshaping efforts and non-recurring costs, our results for administration and marketing expenses remained consistent with 2018.
 - In 2019 we initiated a process to improve utilization and reshape the organization to significantly reduce excess labor costs. At December 31, 2019, our organizational reshaping efforts have delivered annualized cost savings within the guidance we provided of approximately \$40 million to \$45 million, or \$0.26 to \$0.29 per share. This initiative has not affected our ability to execute projects, build backlog, or achieve organic growth. While undertaking our reshaping effort, we continued to add staff in our regions and businesses that are experiencing strong organic growth and high utilization.
- Adjusted EBITDA from continuing operations increased 46.3% from \$392.5 million to \$574.4 million, representing 15.5% of net revenue, mainly due to IFRS 16 (a 9.9% increase to \$431.4 million and representing 11.6% of net revenue, before IFRS 16).
- Adjusted diluted EPS increased 11.0%—from \$1.82 to \$2.02.
- Contract backlog is \$4.3 billion—a 1.9% increase from December 31, 2018—representing approximately 11 months of work.
- Net debt to adjusted EBITDA (on a trailing twelve-month basis) is 1.1x—within our internal guideline of 1.0x to 2.0x (post-IFRS 16 adoption), reflecting a continued reduction over the course of 2019.
- Return on invested capital at December 31, 2019 is 8.8%.
- Operating cash flows from continuing operations increased 119.2% from \$205.2 million to \$449.9 million, mainly due to increased cash receipts from clients and IFRS 16; partly offset with higher payments made to suppliers and employees because of acquisition growth (a 62.4% increase to \$333.2 million before IFRS 16).
- Days sales outstanding was 94 days (79 days including deferred revenue), a strong improvement compared to 103 days (88 days including deferred revenue) at December 31, 2018 and 104 days (91 days including deferred revenue) at September 30, 2019, as well as below our target of 98 days. This improvement reflects our significant and continuous efforts made during the year to improve our billing and collections and the receipt of certain milestone-based payments.
- On February 26, 2020, our Board of Directors declared a dividend of \$0.155 per share, payable on April 15, 2020, to shareholders on record on March 31, 2020.

14. Insurance



CERTIFICATE OF LIABILITY INSURANCE

5/1/2021

DATE (MM/DD/YYYY)

4/10/2020

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 Lockton Companies 444 W. 47th Street, Suite 900 Kansas City MO 64112-1906 (816) 960-9000	CONTACT NAME: _____	
	PHONE (A/C, No, Ext): _____	FAX (A/C, No): _____
E-MAIL ADDRESS: _____		
INSURER(S) AFFORDING COVERAGE		NAIC #
INSURER A: Berkshire Hathaway Specialty Insurance Company		22276
INSURER B: Travelers Property Casualty Co of America		25674
INSURER C: _____		
INSURER D: _____		
INSURER E: _____		
INSURER F: _____		

INSURED
 1415077 STANTEC CONSULTING SERVICES INC.
 370 INTERLOCKEN BLVD
 SUITE 300
 BROOMFIELD CO 80021-8012

COVERAGES **CERTIFICATE NUMBER:** 14193567 **REVISION NUMBER:** XXXXXXXX

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> CONTRACTUAL/CROSS <input checked="" type="checkbox"/> XCU COVERED GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC OTHER: _____	N	N	47-GLO-307584	5/1/2020	5/1/2021	EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 25,000 PERSONAL & ADV INJURY \$ 2,000,000 GENERAL AGGREGATE \$ 4,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 \$
B B B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY	N	N	TC2J-CAP-8E086819 (AOS) TJ-BAP-8E086820 TC2J-CAP-8E087017 (NJ)	5/1/2020 5/1/2020 5/1/2020	5/1/2021 5/1/2021 5/1/2021	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ XXXXXXXX BODILY INJURY (Per accident) \$ XXXXXXXX PROPERTY DAMAGE (Per accident) \$ XXXXXXXX \$ XXXXXXXX
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$	N	N	47-UMO-307585	5/1/2020	5/1/2021	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000 \$ XXXXXXXX
B B B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input checked="" type="checkbox"/> If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N	N/A	TC2J-UB-8E08592 (AOS) TRJ-UB-8E08593 (MA, WI) EXCEPT FOR OH ND WA WY	5/1/2020 5/1/2020	5/1/2021 5/1/2021	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) TO WHOM IT MAY CONCERN.

CERTIFICATE HOLDER

14193567
 TO WHOM IT MAY CONCERN

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

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CERTIFICATE OF LIABILITY INSURANCE

10/1/2020 DATE (MM/DD/YYYY)
9/13/2019

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 rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Lockton Companies 444 W. 47th Street, Suite 900 Kansas City MO 64112-1906 (816) 960-9000	CONTACT NAME: PHONE (A/C, No, Ext): E-MAIL: ADDRESS: FAX (A/C, No): INSURER(S) AFFORDING COVERAGE NAIC # INSURER A : Berkshire Hathaway Specialty Insurance Company 22276 INSURER B : AIG Specialty Insurance Company 26883 INSURER C : INSURER D : INSURER E : INSURER F :
INSURED 1414230 STANTEC CONSULTING SERVICES INC. 370 INTERLOCKEN BLVD SUITE 300 BROOMFIELD CO 80021-8012	

COVERAGES **CERTIFICATE NUMBER:** 14193575 **REVISION NUMBER:** XXXXXXXX

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

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GENL AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC OTHER:		NOT APPLICABLE			EACH OCCURRENCE \$ XXXXXXXX DAMAGE TO RENTED PREMISES (Ea occurrence) \$ XXXXXXXX MED EXP (Any one person) \$ XXXXXXXX PERSONAL & ADV INJURY \$ XXXXXXXX GENERAL AGGREGATE \$ XXXXXXXX PRODUCTS - COM/OP AGG \$ XXXXXXXX \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY		NOT APPLICABLE			COMBINED SINGLE LIMIT (Ea accident) \$ XXXXXXXX BODILY INJURY (Per person) \$ XXXXXXXX BODILY INJURY (Per accident) \$ XXXXXXXX PROPERTY DAMAGE (Per accident) \$ XXXXXXXX \$ XXXXXXXX
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$		NOT APPLICABLE			EACH OCCURRENCE \$ XXXXXXXX AGGREGATE \$ XXXXXXXX \$ XXXXXXXX
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y / N N / A	NOT APPLICABLE			PER STATUTE OTH-ER E.L. EACH ACCIDENT \$ XXXXXXXX E.L. DISEASE - EA EMPLOYEE \$ XXXXXXXX E.L. DISEASE - POLICY LIMIT \$ XXXXXXXX
A A B	Professional Liab Contractors Pollution Liab	N N	47-EPP-308810 NO RETROACTIVE DATE CPO8085428	10/1/2019 10/1/2019	10/1/2020 10/1/2021	\$5,000,000 PER CLAIM/AGG INCLUSIVE OF COSTS \$5,000,000 PER LOSS/AGG

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

CERTIFICATE HOLDER 14193575 TO WHOM IT MAY CONCERN	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
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ACORD 25 (2016/03) The ACORD name and logo are registered marks of ACORD

15. Licenses

State of Florida

Department of State

I certify from the records of this office that STANTEC CONSULTING SERVICES INC. is a New York corporation authorized to transact business in the State of Florida, qualified on November 14, 2001.

The document number of this corporation is F01000005948.

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 16, 2020, and that its status is active.

I further certify that said corporation has not filed a Certificate of Withdrawal.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Twenty-sixth day of February,
2020*

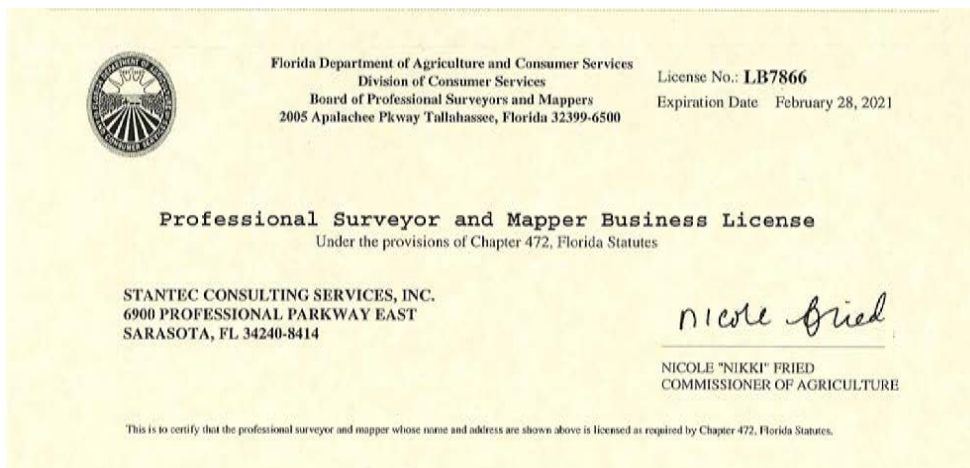


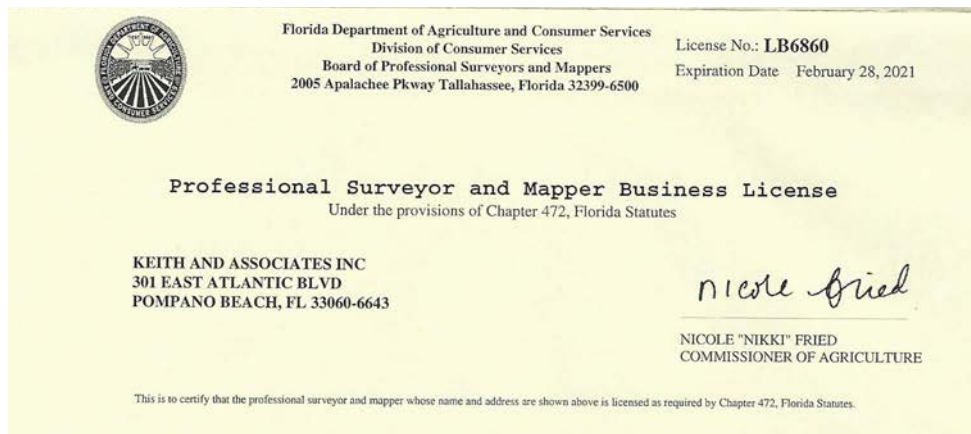
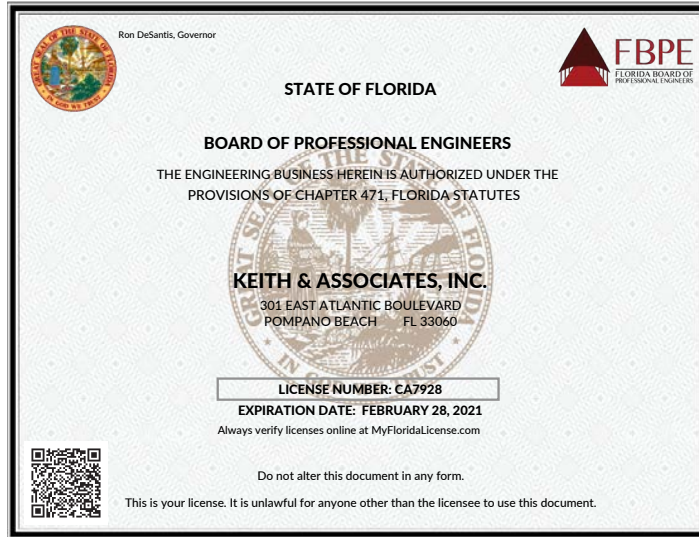
Ronald R. DeSantis
Secretary of State

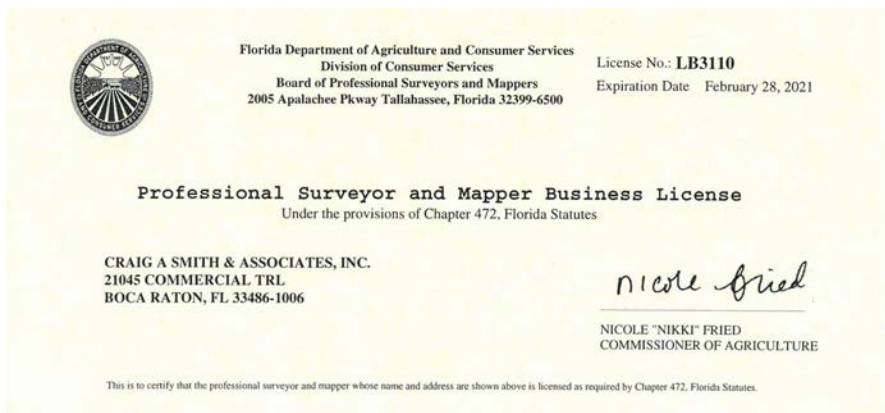
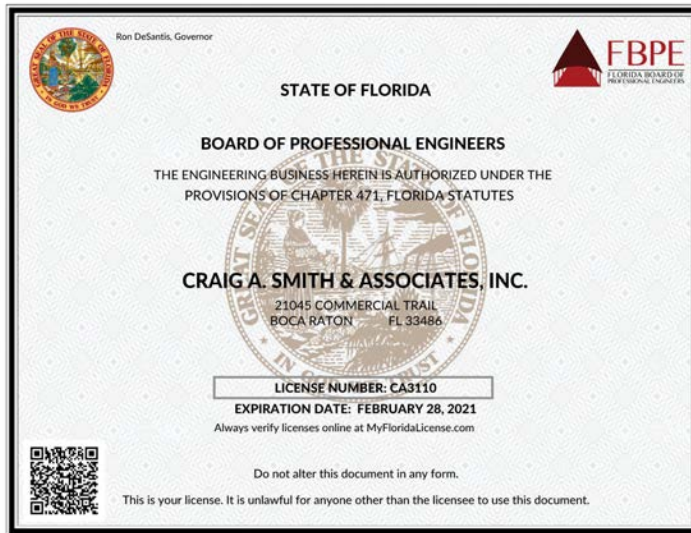
Tracking Number: 1855267277CU

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

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











Design with
community in mind

SCHEDULE OF PROFESSIONAL FEES – CITY OF POMPANO BEACH
STANTEC CONSULTING SERVICES, INC.

<u>ITEM NO.</u>	<u>CLASSIFICATIONS</u>	<u>HOURLY RATE</u>
1.	Project Director (Principal)	215.00
2.	Client Service / Program Manager	190.00
3.	Senior Engineer (P.E) / Project Manager	172.00
4.	Project Engineer (P.E)	158.00
5.	Staff Engineer	131.00
6.	Senior CADD Technician	120.00
7.	CADD Technician	98.00
8.	Senior Traffic Engr. / Transportation Planner	172.00
9.	Traffic Engr. / Transportation Planner	148.00
10.	Senior Landscape Architect (ASLA) / Planner / Project Manager	172.00
11.	Landscape Architect (ASLA) / Planner	158.00
12.	Senior Architect (R.A.) / Project Manager	172.00
13.	Registered Architect (R.A)	153.00
14.	Staff Architect	131.00
15.	Senior Structural Engineer (P.E.)	172.00
16.	Structural Engineer (P.E.)	148.00
17.	Senior MEP Engineer (P.E.)	170.00
18.	Staff MEP Engineer	120.00
19.	Senior Environmental Modelling Professional (P.E., P.G.)	180.00
20.	Project Modelling Professional (P.E., P.G.)	150.00
21.	Senior I/C Engineer (P.E.)	172.00
22.	I/C Engineer (P.E.)	148.00
23.	Senior Environmental Scientist / Hydrogeologist (P.E., P.G.)	172.00
24.	Environmental Scientist / Biologist / Permitting Specialist	130.00
25.	Financial Analyst (Utilities / Rate Studies)	195.00
26.	Senior Construction Inspector	120.00
27.	Construction Inspector	95.00
28.	Construction Manager (P.E., G.C., Administrative)	172.00
29.	Administrative Support	65.00
30.	Senior GIS Specialist	150.00
31.	GIS Specialist	95.00
32.	Direct Cost – Markup % Sub-Consultants	10.0%*

*Used only if services require sub-consultant services only as a stand-alone task order

EXHIBIT C

INSURANCE REQUIREMENTS

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

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

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

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

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

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

B. Liability Insurance.

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

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

Type of Insurance**Limits of Liability****GENERAL LIABILITY:**

Minimum 1,000,000 Per Occurrence and
\$1,000,000 Per Aggregate

* Policy to be written on a claims incurred basis

XX	comprehensive form	bodily injury and property damage
XX	premises - operations	bodily injury and property damage
—	explosion & collapse hazard	
—	underground hazard	
XX	products/completed operations hazard	bodily injury and property damage combined
XX	contractual insurance	bodily injury and property damage combined
XX	broad form property damage	bodily injury and property damage combined
XX	independent contractors	personal injury
XX	personal injury	

AUTOMOBILE LIABILITY:

Minimum \$1,000,000 Per Occurrence and \$1,000,000 Per Aggregate. Bodily injury (each person) bodily injury (each accident), property damage, bodily injury and property damage combined.

- XX comprehensive form
- XX owned
- XX hired
- XX non-owned

REAL & PERSONAL PROPERTY

— comprehensive form Agent must show proof they have this coverage.

EXCESS LIABILITY

Per Occurrence Aggregate

XX	Umbrella and other than umbrella	bodily injury and property damage combined	\$2,000,000	\$2,000,000
----	----------------------------------	--	-------------	-------------

PROFESSIONAL LIABILITY

Per Occurrence Aggregate

XX	* Policy to be written on a claims made basis		\$2,000,000	\$2,000,000
----	---	--	-------------	-------------

(3) If Professional Liability insurance is required, CONSULTANT agrees the indemnification and hold harmless provisions set forth in the Agreement shall survive the termination or expiration of the Agreement for a period of three (3) years unless terminated sooner by the applicable statute of limitations.

C. Employer's Liability. If required by law, CONSULTANT and all subcontractors shall, for the benefit of their employees, provide, carry, maintain and pay for Employer's Liability

Insurance in the minimum amount of One Hundred Thousand Dollars (\$100,000.00) per employee, Five Hundred Thousand Dollars (\$500,000) per aggregate.

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

- (1) Certificates of Insurance evidencing the required coverage;
- (2) Names and addresses of companies providing coverage;
- (3) Effective and expiration dates of policies; and
- (4) A provision in all policies affording CITY thirty (30) days written notice by a carrier of any cancellation or material change in any policy.

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

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



CERTIFICATE OF LIABILITY INSURANCE

5/1/2021

DATE (MM/DD/YYYY)
12/4/2020

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PRODUCER Lockton Companies 444 W. 47th Street, Suite 900 Kansas City MO 64112-1906 (816) 960-9000	CONTACT NAME:	
	PHONE (A/C, No, Ext):	FAX (A/C, No):
E-MAIL ADDRESS:		
INSURER(S) AFFORDING COVERAGE		NAIC #
INSURER A : Berkshire Hathaway Specialty Insurance Company		22276
INSURER B : Travelers Property Casualty Co of America		25674
INSURER C :		
INSURER D :		
INSURER E :		
INSURER F :		

COVERAGES CERTIFICATE NUMBER: 17178326 REVISION NUMBER: XXXXXXXX

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> CONTRACTUAL/CROSS <input checked="" type="checkbox"/> XCU COVERED GENL AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input checked="" type="checkbox"/> LOC OTHER:	Y	Y	47-GLO-307584	5/1/2020	5/1/2021	EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 25,000 PERSONAL & ADV INJURY \$ 2,000,000 GENERAL AGGREGATE \$ 4,000,000 PRODUCTS - COM/POP AGG \$ 2,000,000 \$
DED	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS ONLY	N	N	TC2J-CAP-8E086819 (AOS) TI-BAP-8E086820 TC2J-CAP-8E087017 (NJ)	5/1/2020 5/1/2020 5/1/2020	5/1/2021 5/1/2021 5/1/2021	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ XXXXXXXX BODILY INJURY (Per accident) \$ XXXXXXXX PROPERTY DAMAGE (Per accident) \$ XXXXXXXX \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED: RETENTION \$	N	N	47-UMO-307585	5/1/2020	5/1/2021	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000 \$ XXXXXXXX
DED	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	UB-3P635310 (AOS) UB-3P533004 (MA, WI) EXCEPT FOR OH AND WA WY	5/1/2020 5/1/2020	5/1/2021 5/1/2021	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
RE: RLI E-23-20 CONTINUING CONTRACT FOR ENGINEERING SERVICES FOR WATER AND REUSE TREATMENT PLANT PROJECTS. CITY OF POMPANO BEACH IS AN ADDITIONAL INSURED AS RESPECTS GENERAL LIABILITY. IF REQUIRED BY WRITTEN CONTRACT, WAIVER OF SUBROGATION APPLIES TO GENERAL LIABILITY WHERE ALLOWED BY STATE LAW AND IF REQUIRED BY WRITTEN CONTRACT.

APPROVED
By Danielle Thorpe at 9:02 am, Jan 06, 2021

CERTIFICATE HOLDER 17178326 CITY OF POMPANO BEACH ATTN: RISK MANAGER 100 WEST ATLANTIC BOULEVARD POMPANO BEACH FL 33060	CANCELLATION See Attachments 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 <i>Joseph M. Agnello</i>
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