

Contract Routing Form

CONTRACT: Professional Services Agreement between the City of Coral Gables and NOVA CONSULTING, INC., for Civil and Environmental Engineering Services – RFQ 2019-015F



Route for Review and Approval (Signature and Date):

- 46. Procurement Officer: Celeste Swartz Date: 9/17/19
- 47. Department Director: Will O Date: 9/17/19
- 48. Risk Management: Key Date: 9/20/19
- 49. Management & Budget: KD Date: 9/20/19
- 50. Finance Director: Janal Date: 9/20/19
- 51. City Attorney: W/S Date: 9/23/19
- 52. Asst. City Manager: [Signature] Date: 9/24/19
- 53. City Manager: [Signature] Date: 9/25/19
- 54. City Clerk: [Signature] Date: 9/25/19

Please contact the Yusbel Gonzalez (Procurement Division) at extension 5107 if you have any questions about this contract.

City of Coral Gables, FL
Finance Department / Procurement Division
2800 SW 72nd Avenue – Miami, FL 33155



Interdepartmental Cover Sheet

Department and Date of Origin: Procurement Division – Yusbel Gonzalez Date: 9/17/2019

Title of Document: Professional Services Agreement between the City of Coral Gables and NOVA CONSULTING, INC., for Civil and Environmental Engineering Services – RFQ 2019-015F

Executive Summary:

The City's Public Works Department requires the services of professional engineering firms, per the requirements of Florida Statute 287.055 (CCNA), with the qualifications and ability to provide Civil and Environmental Engineering Services. Due to some projects being eligible for Federal financial assistance by the Federal Emergency Management Agency ("FEMA"), contracts, established in accordance with the Federal Procurement Standards outlined in Title 2 C.F.R. § 200.317 to 200.326, have been prepared. The attached contracts with the top six (6) qualified professional engineering firms, per RFQ 2019-015, will allow the Public Works Department to receive the needed services.

A resolution for the award of the contracts was adopted by the Commission on August 27, 2019.

Requested Action: Execute Contract

Route to: City Clerk

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Insured Name

Nova Consulting, Inc. (CE000C

Nova Consulting, Inc. (CE00002729)

Active Records Only
Advance Search

Insured Tasks Admin Tools

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- Notes
- History
- Deficiencies
- Coverages
- Requirements
- Queue a Call
- Contract Screen
- Miner
- Trainers
- Add
- Edit
- Help
- Video Tutorials

Insured

Name:	Nova Consulting, Inc.
Account Number:	CE00002729
Address:	10486 NW 31 Terr, Miami, FL, 33172
Status:	<u>Compliant with Waived Deficiencies.</u>

Insured

Add to Watch List Insured History Print Insured Info

Account Information	
Account Number:	CE00002729
Risk Type:	Minimum Insurance Requirements w/ Professional
Do Not Call:	Address Updated:
Address Information	
Mailing Address Physical Address	
Insured:	Nova Consulting, Inc.
Address 1:	10486 NW 31 Terr
Address 2:	
City:	Miami

PROFESSIONAL SERVICES AGREEMENT # RFQ 2019-015F

Civil and Environmental Engineering Services

THIS PROFESSIONAL SERVICES AGREEMENT is made as of this 25 day of September, 2019, between the City of Coral Gables (hereinafter called the "City"), and Nova Consulting, Inc., (hereinafter called the "Professional").

RECITALS

WHEREAS, the City desires to enter into an agreement with the Professional to provide Civil and Environmental Engineering Services to the City; and

WHEREAS, the City having investigated the qualifications of the Professional to perform the services herein contemplated and found those qualifications satisfactory; and

WHEREAS, the Professional having examined the scope of the services required hereunder and having expressed desire and willingness to provide such services and having presented qualifications to the City in support of those expressed desires; and

WHEREAS, the Professional agrees to accept this Agreement upon the terms and conditions hereinafter set forth; and

NOW, THEREFORE, in consideration of the promises and the mutual covenants herein contained, the City agrees to retain the Professional for a two (2) year period to provide Civil and Environmental Engineering Services to the City. However, this period may be extended at the sole discretion of the City for three (3) additional one (1) year periods.

I. GENERAL PROVISIONS

This Agreement incorporates and supersedes all previous agreements, written and oral, and all prior and contemporaneous communications between the parties, regarding this subject. The City reserves the right to initiate change to any provision of this Agreement. All such changes shall be accomplished only by mutually signed Amendments.

The Professional shall perform the services as specifically stated in the Scope of Services, which is attached hereto and incorporated herein as Exhibit A and as may be specifically designated and authorized by the City.

1.1 Engagement. The City agrees to engage the Professional for a period specified in paragraph 1.2, and the Professional agrees to accept such engagement and to perform such services for the City upon the terms, and subject to the conditions set forth herein.

1.2 Agreement Period. The terms of the Agreement (the "Professional Period") shall commence within ten (10) days of the execution date of the agreement and shall continue thereafter for a two (2) year period. This period may be extended upon mutual agreement between the City and the Professional, for three (3) additional

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one (1) year periods or until terminated by the City upon 30 days written notice to the Professional, in accordance with the notice requirements contained in Section XIII.

1.3 Duties and Responsibilities/Priority of Interpretation. The Code and any City resolutions take precedence over this agreement and its exhibits. This document without exhibits is referred to as the "Base Agreement." In the event of any conflict or inconsistency in the definition or interpretation of any word, responsibility, schedule, or the contents or description of any task, deliverable, service, or other work, or otherwise, between the Base Agreement and the exhibits, or between exhibits, such conflict or inconsistency shall be resolved by giving precedence first to the body of this Base Agreement, and then to the exhibits according to the following priority:

- a) Scope of Work – Exhibit A
- b) Pricing Schedule - Exhibit B
- c) Professional 's Response to RFQ – Exhibit C
- d) Insurance Certificates – Exhibit D
- e) Appendices A and E – Exhibit E

1.3.1 The City shall be responsible for the following:

1. Assigning a City Project Manager to be the point of contact for the professional.

2. Establishing the budget and priority of the scope of work for each assignment.

3. Providing the professional all relevant information testing or data or providing for a means to the professional to procure the required data to complete the scope of services.

4. Provide direction and authorization to proceed so that the scope of service can be complete in a timely manner.

During the Agreement Period, the Professional will serve as a Consultant to the City and will assist the City in the Scope of Services (Section 2.0) with the terms, conditions and specifications contained in the RFQ. The Professional shall serve as a consultant to the City departments to recommend contract awards to best meet overall community short-term and long-term goals, pursuant to the RFQ

1.4 Background Investigation. The Professional agrees that all employees including the Professional may be subject to an annual background investigation.

1.5 Polygraph Examination. The Professional agrees to submit to polygraph examinations at the request of the Director or designee.

1.6 Medical, Drug Screening and Check-ups. All Professionals, their employees, agents and sub consultants must satisfactorily complete the City's pre-placement medical and drug screening examinations and be certified as drug free as

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well as abide by the City's Drug Free Work Place Policy at Professional 's expense. The City may require that the Professional and/or their employees, agents and sub consultants performing services for the City submit to a yearly medical and drug screen examination, at Professional's expense.

1.7 Drug Testing. The Professional agrees to submit to unannounced drug testing at the request of the Director or designee.

1.8 Driver's License. At City's option, the Professional must provide a valid Florida Driver's License or appropriate commercial driver's license for each employee, agent or sub consultant and be willing and able to operate any required vehicles as authorized by the City. Evidence of compliance with the Defensive Driving Course must be submitted to the City prior to operating a City vehicle or any vehicle where patrons or children are passengers. Individuals must be approved by the Risk Management Division of the City prior to the operation of a City owned vehicle and/or privately owned vehicles while conducting City business. The City reserves the right to request the employee/agent's driving record from the State of Florida, at Professional's expense.

1.9 Confidential Information. The Professional agrees that any information received by the Professional for the City and in providing services in accordance with this Agreement which is not publicly available, shall not be revealed to any other persons, firm or organizations.

1.10 Most Favored Public Entity. The Professional represents that the prices charged to City in this Agreement do not exceed existing prices to other customers for the same or substantially similar items or services for comparable quantities under similar terms and conditions. If Professional's prices decline, or should Professional, at any time during the term of this Agreement, provide the same goods or services to any other customer at prices below those set forth herein, then such lower prices shall be immediately extended to the City.

II. PROFESSIONAL SERVICES

2.1 Basic Services. The duties and responsibilities are outlined in the RFQ.

2.2 Reporting. The Professional shall comply with the necessary reporting requirements as outlined by the Director or designee for review. In addition, the Professional shall submit a monthly report to the Director or designee, which shall include detailed information regarding the activities of the Professional during the previous month.

2.3 Availability of Professional. The Professional shall make all documents available 24 hours a day, 7 days a week, 365 days a year, in order to satisfy the City's emergency demands for continued, non-interrupted service.

III. COMPENSATION

3.1 Basic Compensation. In full consideration of the services of the Professional hereunder, the Professional shall be paid at a rate stipulated for each of the services described on the RFQ pricing schedule (Exhibit B); here attached. The City

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reserves the right to contract with the Professional for additional services. Any increase in the agreed upon amount shall be approved by the Procurement Division or designee, and shall be in accordance with applicable City and State regulations.

3.2 Expenses. As part of, and in addition to the basic compensation described in this Agreement, the City shall provide the Professional with no additional compensation for any services performed in fulfilling the requirements of this Agreement. All additional requested expenses must be pre-approved through the Director or designee.

IV. INDEPENDENT CONTRACTOR AND PROFESSIONAL HOLD HARMLESS PROVISIONS

4.1 Independent Contractor and Professional. The Professional acknowledges entering into this Agreement as an independent Contractor and Professional, and that the Professional shall therefore be responsible for the deposit and payment of any Federal Income Taxes, FICA, Unemployment Taxes or any similar fees or taxes that become due, and shall be responsible for the collection and payment of all withholdings, contributions and payroll taxes relating to Professional's services, or those of employees of the Professional. The City shall not withhold from sums payable to the Professional, any amount whatsoever for Federal Income Taxes, FICA, Unemployment Insurance Taxes or any similar fees or taxes. The Professional, their employees or agents, will not be considered an employee of the City or entitled to participate in plans, distributions, arrangements or other benefits extended to City employees.

4.2 Agency. Nothing herein shall imply or shall be deemed to imply an agency relationship between the City and Professional.

4.3 Professional warrants that it fully complies with all Federal statutes and regulations regarding the employment of undocumented workers and others and that all employees performing work under this Agreement meet the citizenship or immigration status requirements set forth in Federal statutes and regulations. Professional shall indemnify, defend, and hold harmless City, its officers and employees from and against any sanctions and any other liability which may be assessed against Professional or City in connection with any alleged violation of any Federal statutes or regulations pertaining to the eligibility for employment of any persons performing work hereunder.

4.4 The employees and agents of each party, shall while on the premises of the other party, comply with all rules and regulations of the premises, including, but not limited to, security requirements.

4.5 Indemnification and Hold Harmless. To the fullest extent permitted by laws and regulations, the Professional shall defend, indemnify, and hold harmless the City, its elected and appointed officials, attorneys, administrators, consultants, agents, and employees from and against all claims, damages, losses, and expenses direct, indirect, or consequential (including but not limited to fees and charges of attorneys and other Professionals and court and arbitration costs) arising out of or resulting from the performance of the work and caused in whole or in part by either (i) any willful, intentional, reckless, or negligent act or omission of Professional, any sub consultant, or any person or organization directly or indirectly employed by any of them to perform

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or furnish any of the work or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by a party indemnified hereunder and regardless of the negligence of any such indemnified party, or (ii) any willful, intentional, reckless, or negligent act or omission of any individual or entity not a party to this agreement, or (iii) any negligent act or omission of the City or the City's officers, agents, or employees. The parties expressly agree that this provision shall be construed broadly, and Professional's obligations to pay for the City's legal defense hereunder shall arise and be fully enforceable when Professional (or any sub consultant or any person or organization directly or indirectly employed by Professional) is alleged to have acted willfully, intentionally, recklessly, or negligently in the performance of the work required under this Agreement. Any failure of Professional to comply with the terms of this provision shall be deemed a material breach of this Agreement and may subject Professional to debarment from consideration for future award of city contracts pursuant to Section 2-9:12 of the City of Coral Gables Code of Ordinances. This provision shall survive termination of the Agreement.

4.5.1 In any and all claims against the City or any of its elected and appointed officials, consultants, agents, or employees by any employee of Professional, any sub consultant, any person or organization directly or indirectly employed by any of them to perform or furnish any of the work or anyone for whose acts any of them may be liable, the indemnification obligation under the above paragraph shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for Professional or any such sub consultant or other person or organization under workers' or workman's compensation acts, disability benefit acts, or other employee benefit acts. Moreover, nothing in this Indemnification and Hold Harmless provision shall be considered to increase or otherwise waive any limits of liability, or to waive any immunity, established by Florida Statutes, case law, or any other source of law.

V. INSURANCE

5.1 Without limiting Professional's indemnification of the City, and during the term of this Agreement, Professional shall provide and maintain at its own expense the below described programs of insurance. Such programs and evidence of insurance shall be satisfactory to the City and shall be primary to and not contributing with any other insurance or self-insurance program maintained by the City. Certificates or other evidence of coverage shall be delivered to:

City of Coral Gables
Insurance Compliance
P.O. Box 100085 – CE
Duluth, GA 30096

Such certificates or other evidence of coverage shall be delivered prior to commencing performance under this Agreement, and shall specifically identify this Agreement, and shall contain the express condition that the City is to be given advance written notice by receipted delivery at least thirty (30) days in advance of any cancellation, non-renewal or material change of the insurance policy.

5.2 The Professional shall maintain during the terms, except as noted, of this Agreement the following insurance:

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a. **Professional Liability Insurance** with a limit of liability no less than \$1,000,000 per occurrence with a deductible per claim, if any, not to exceed 5% of the limit of liability providing for all sums which the Respondent shall become legally obligated to pay as damages for claims arising out of the services performed by the Respondent or any person employed, contracted and/or subcontracted in connection with this Agreement. This insurance shall be maintained for three (3) years after any work covered by this Agreement.

b. **Comprehensive general liability insurance** with broad form endorsement or equivalent, including automobile liability, completed operations and products liability, contractual liability, severability of interests with cross liability provision, and personal injury and property damage liability with limits no less than \$1,000,000 per occurrence for bodily injury and property damage, and \$2,000,000 in the aggregate. Said policy or policies shall name City as additional insured on a primary and non-contributory basis and shall reflect the hold harmless provision contained herein.

c. **Worker's Compensation Insurance** for all employees of Professional as required by Florida Statutes Section 440, and employer's liability insurance with limits not less than, \$1,000,000

d. **Automobile Liability insurance** covering all owned, non-owned and hired vehicles used in connection with the performance of the work in an amount not less than \$1,000,000 combined single limit per occurrence for bodily injury and property damage.

e. Other (or increased amounts of) insurance which City shall from time to time deem advisable or appropriate. Such new or additional insurance to be effective as of the sooner of ninety (90) days after notice thereof or the next annual renewal of any policy being increased (as applicable).

f. All policies shall contain waiver of subrogation, except Professional Liability, against City where applicable, and shall expressly provide that such policy or policies are primary over any other collective insurance the City may have.

g. All of the above insurance is to be placed with insurance companies with an A.M. Best or equivalent rating of "A-", "VI" or better, qualified to do business under laws of the State of Florida.

h. The City shall be named as an additional insured on a primary and non-contributory basis for the General and Auto Liability Policies. Said policies shall contain a "severability of interest or "cross liability" clause without obligation for premium payment of the City. The City reserves the right to request a copy of required policies for review.

i. All insurance policies shall provide for thirty (30) days [ten (10) days for non-payment of premium] advance written notice to City prior to cancellation, non-renewal or material change.

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j. The Professional shall furnish Certificates of Insurance to the Risk Management Division of the Office of Labor Relations and Risk Management prior to the commencement of operations or policy termination, which certificates shall clearly indicate that the City is named as and additional insured on a primary and non-contributory basis and that the Professional has obtained insurance in the type, amount and classification required for strict compliance with this Section and that no material change, cancellation or non-renewal of this insurance shall be effective without thirty (30) days advance written notice to the City.

5.3 Failure on the part of the Professional to obtain and maintain all required insurance coverage is a material breach upon which the City may, in its sole discretion, immediately suspend Professional's performance or terminate this Agreement.

VI. SOVEREIGN IMMUNITY

6. The Professional acknowledges that the Florida Doctrine of Sovereign Immunity bars all claims by Professional against the City other than claims arising out of this Agreement. Specifically, the Professional acknowledges that it cannot and will not assert any claims against the City, unless the claim is based upon a breach by the City of this Agreement. The Professional acknowledges that this Agreement in no way estops or affects the CITY's exercise of its regulatory authority. In addition, the CITY retains the full extent of its sovereign immunity in relation to the exercise of its regulatory authority. The PROFESSIONAL acknowledges that it has no right and will not make claim based upon any of the following:

- a. Claims based upon any alleged breach by the CITY of implied warranties or representations not specifically set forth in this Agreement, as the parties stipulate that there are no such implied warranties or representations of the CITY. All obligations of the CITY are only as set forth in this Agreement;
- b. Claims based upon negligence or any tort arising out of this Agreement;
- c. Claims upon alleged acts or inaction by the City, its commissioners, attorneys, administrators, consultants, agents, or any CITY employee;
- d. Claims based upon an alleged waiver of any of the terms of this Agreement unless such waiver is in writing and signed by an authorized representative for the CITY and PROFESSIONAL.

VII. STANDARD OF CARE

7.1 The Professional shall exercise the same degree of care, skill, and diligence in the performance of the services as is ordinarily provided by a comparable Professional under similar circumstances and the Professional shall, at no additional cost to the City, re-perform services which fail to satisfy the foregoing standard of care.

7.2 The Professional warrants that all services shall be performed by skilled and competent personnel to the highest Professional standards in the field.

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VIII. NON-DISCRIMINATION

8.1 EEO and ADA: The Professional must be and remain in compliance with all local, state and federal Equal Employment Opportunity (EEO) and American Disabilities Act (ADA) requirements.

8.2 It is understood that the Professional shall not discriminate against any employee in the performance of the contract with respect to hire, tenure, terms, conditions or privileges of employment, or any other matter directly or indirectly related to employment because of age, marital status, race, color, religion, national origin, sex, or disability.

8.3 City Policy Regarding Conduct. All Professionals, their employees, agents and sub consultants must abide by the City's policies regarding conduct. Discrimination, harassment, and/or violations of City policies will not be tolerated and are grounds for termination of the Agreement without harm to the City or its employees.

IX. CONFLICT OF INTEREST

9.1 The Professional represents that it has provided a list of all current clients subject to the jurisdiction of the City. Any potential or actual conflict between private interests and responsibilities under this Agreement shall be immediately disclosed to the City. The Professional agrees that it will not enter into any agreements during the term of this Agreement to provide services for any person or corporation who applies for a permit or other development approval from the City. Upon request of the Professional, and full disclosure of the nature and extent of the proposed representation, the City Manager or his designee shall have the authority to authorize such representation during the term of this Agreement.

X. CONFIDENTIALITY

10.1 Subject to the requirements of Chapter 119 of the Florida Statutes, no reports, information, computer programs, documentation, and/or data given to or prepared or assembled by the Professional under this Agreement shall be made available to any individual or organization by the Professional without prior written approval of the City.

XI. OWNERSHIP OF DOCUMENTS

11.1 Any and all documents, records, disks, or other information shall become the property of the City for its use and/or distribution as may be deemed appropriate by the City.

XII. TRUTH-IN-NEGOTIATION CERTIFICATE

12.1 Execution of this Agreement by the Professional shall act as the execution of a truth-in-negotiation certificate certifying that the wage rates and costs used to determine the compensation provided for in this Agreement are accurate, complete, and current as of the date of the Agreement.

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12.2 The said rates and costs shall be adjusted to exclude any significant sums should the City determine that the rates and costs were increased due to inaccurate, incomplete, or noncurrent wage rates or due to inaccurate representations of fees paid to outside consultants. The City shall exercise its rights under this "Certificate" within one (1) year following payment.

XIII. NOTICE

13.1 Any notice, request, instruction or other document required or permitted to be given hereunder by either party hereto to the other shall be in writing, and delivered personally, or sent by certified or registered mail, postage prepaid, return receipt requested, to the address set forth for such party at the bottom of this Agreement. Any notice so given shall be deemed received when personally delivered or three (3) business days after mailing. Any party may change the address to which notices are to be sent by giving notice of such change of address to the other party in the manner herein provided for giving notice. Notice as to the City of Coral Gables shall be to:

City Manager
City of Coral Gables
405 Biltmore Way
Coral Gables, FL 33134
cc: City Attorney

Notice as to the Professional shall be to:

Maria J. Molina, P.E.
President
Nova Consulting, Inc.
10486 NW 31st Terrace
Doral, FL 33172
T: 305-436-9200
C: 786-325-8070
F: 305-436-9265
mmolina@nova-consulting.com

XIV. DEFAULT AND TERMINATION

14.1 The City may terminate this Agreement for convenience at any time by providing thirty (30) days written notice to the Professional. In the event of a termination for cause, due to the Professional's failure to perform in accordance with the terms of this Agreement or the Professional's repudiation of this Agreement by word or conduct, The City may immediately terminate the Agreement and the Professional shall be paid any sums otherwise due and owing under this Agreement only after City has completed the work called for by this Agreement with other forces, and has deducted the cost of such work, and any other damages payable to City, from any contract balance otherwise due and owing to the Professional under this Agreement. In the event of a termination for convenience, the Professional shall be paid for all services performed through the date of termination, based on the percentage of services completed (subject to applicable setoff rights) and the Professional shall not be entitled to any other compensation or damages from the City. If, after notice of termination for cause, it is

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determined for any reason that Professional was not in default, the rights and obligations of the City and the Professional shall be the same as though the termination had been a termination for convenience. In no event shall the City be liable to Professional for lost profits on any work not performed, overhead, or any other type of consequential, special or indirect damages, and Professional hereby waives the same. Professional may terminate this Agreement due to the City's failure to comply with the material terms of this Agreement after giving City thirty (30) days written notice of its purported default and a reasonable opportunity to cure. Upon termination of this Agreement, all schematics, designs, plans, specifications, documents, records, disks, or other information (including electronic copies) produced or developed by Professional or sub consultants, whether finished or not, shall become City property. Failure to timely deliver the documentation shall be cause to withhold any payments due, without recourse by the Professional, until all documentation is delivered to the City.

XV. UNCONTROLLABLE FORCES

15.1 Neither the City nor Professional shall be considered to be in default of this Agreement if delays in or failure of performance shall be due to Uncontrollable Forces, the effect of which, by the exercise of reasonable diligence, the nonperforming party could not avoid. The term "Uncontrollable Forces" shall mean any event which results in the prevention or delay of performance by a party of its obligations under this Agreement and which is beyond the reasonable control of the nonperforming party. It includes, but is not limited to, fire, flood, earthquake, storm, lightning, epidemic, war, riot, civil disturbance, sabotage, and governmental action.

15.2 Neither party shall, however, be excused from performance if nonperformance is due to forces which are preventable, removable, or remediable, and which the nonperforming party could have, with the exercise of reasonable diligence, prevented, removed, or remedied with reasonable dispatch. The nonperforming party shall, within a reasonable time of being prevented or delayed from performance by an uncontrollable force, give written notice to the other party describing the circumstances and uncontrollable forces preventing continued performance of the obligations of this Agreement.

XVI. MODIFICATION

16.1 This Agreement may not be amended or modified unless in writing and signed by both parties.

XVII. ASSIGNMENT AND SUBCONTRACTING

17.1 This Agreement and the rights of the Professional and obligations hereunder may not be assigned, delegated or subcontracted by the Professional without the express prior written consent of the City. Any assignment, delegation or subcontract without such express prior written consent shall be null and void and shall constitute a material breach of this Agreement, upon which the City may immediately terminate the Agreement in accordance with the provisions of paragraph 13.1 (Termination by Default). The City may assign its rights, together with its obligations hereunder.

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XVIII. AUDITS

18.1 The Professional shall maintain accurate and complete financial records of its activities and operations relating to this Agreement in accordance with generally accepted accounting principles. Professional shall maintain adequate records to justify all charges and costs incurred in performing the services for at least three (3) years after completion of this Agreement. Professional shall also maintain accurate and complete employment and other records relating to its performance of this Agreement. Professional agrees that City, or its authorized representatives, shall have access to and the right to examine, audit, excerpt, copy or transcribe any pertinent transaction, activity, or records relating to this Agreement. All financial records, timecards and other employment records, and proprietary data and information shall be kept and maintained by Professional and made available to the City during the terms of this Agreement and for a period of three (3) years thereafter unless City's written permission is given to dispose of any such material prior to such time. All such materials shall be maintained by Professional at a location in Miami-Dade County, Florida, provided that if any such material is located outside Miami-Dade County, then, at City's option Professional shall pay City for travel, per diem, and other costs incurred by City to examine, audit, excerpt, copy or transcribe such material at such other location. 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 working business hours at the Professional's place of business.

In the event that an audit is conducted by Professional specifically regarding this Agreement by any Federal or State auditor, or by any auditor or accountant employed by Professional, then Professional shall file a copy of the audit report with the City's Auditor within thirty (30) days of Professional's receipt thereof, unless otherwise provided by applicable Federal or State law. City shall make a reasonable effort to maintain the confidentiality of such audit report(s).

Failure on the part of Professional to comply with the provisions of this Paragraph shall constitute a material breach upon which the City may terminate or suspend this Agreement.

18.2 City Audit Settlements. If, at any time during or after the term of this Agreement, representatives of the City conduct an audit of Professional regarding the work performed under this Agreement, and if such audit finds that City's dollar liability for any such work is less than payments made by City to Professional, then the difference shall be either repaid by Professional to City by cash payment upon demand or, at the sole option of City, deducted from any amounts due to Professional from City. If such audit finds that City's dollar liability for such work is more than the payments made by City to Professional, then the difference shall be paid to Professional by cash payment.

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XIX. AVAILABILITY OF FUNDS

19.1 The obligations of the City under this Agreement are subject to the availability of funds lawfully appropriated for its purpose by the City Commission.

XX. COMPLIANCE WITH LAWS

20.1 In performance of the services, the Professional will comply with applicable regulatory requirements, including federal, state, special district, and local laws, rules, regulations, orders, codes, criteria, and standards. It shall be the responsibility of the Professional to obtain and maintain, at no cost to the City, any and all license and permits required to complete the services provided pursuant to this Agreement.

20.2 Conflict of Interest. Professional covenants that no person employed by the Professional which exercises any functions or responsibilities in connection with this Agreement has any personal financial interests direct or indirect with the City. Professional further covenants that, in the performance of this Agreement, no person having a conflicting interest shall be employed. Any such interests on the part of Professional or its employees must be disclosed in writing to City.

20.3 Professional is aware of the conflict of interest code of the City of Coral Gables, the Conflict of Interest and Code of Ethics of Miami-Dade County, Florida, Section 2-11.1 et seq., and the Ethics Laws of the State of Florida, and agrees that it shall fully comply in all respects with the terms of said laws.

XXI. FEDERAL AND STATE TAXES

21.1 The City is exempt from Federal Tax and State Sales and Use Taxes. Upon request, the City will provide an exemption certificate to the Professional. The Professional shall not be exempted from paying sales tax to its suppliers for materials to fulfill the contractual obligations with the City, nor shall the Professional be authorized to use the City's Tax Exemption Number in securing such materials.

XXII. SUCCESSORS AND ASSIGNS

22.1 The City and the Professional each binds itself and its partners, successors, assigns, and legal representatives to the other party to this Agreement and to its partners, successors, executors, administrators, assigns, and legal representatives. The Professional shall not assign this Agreement without the express written approval of the City via executed amendment.

XXIII. CONTINGENT FEES

23.1 The Professional warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for the Professional, to solicit or secure this Agreement 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 Professional, any fee, commission, percentage, gift, or any other consideration contingent upon or resulting from the award or making of this Agreement.

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XXIV. ENTIRETY OF AGREEMENT

24.1 The City and the Professional agree that this Agreement sets forth the entire agreement between the parties, and that there are no promises or understandings other than those stated herein. This Agreement supersedes all prior agreements, contracts, proposals, representations, negotiations, letters, or other communications between the City and the Professional pertaining to the services, whether written or oral. None of the provisions, terms, and conditions contained in this Agreement may be added to, modified, superseded, or otherwise altered, except by written instrument executed by the parties hereto.

XXV. COUNTERPARTS

25.1 This Agreement may be executed simultaneously in several counterparts, each of which will be an original, but all of which together will constitute one and the same instrument.

XXVI. WAIVER

26.1 A waiver by either the City or the Professional of any breach of this Agreement shall not be binding upon the waiving party unless such waiver is in writing. In the event of a written waiver, such a waiver shall not affect the waiving party's rights with respect to any other or further breach. The making or acceptance of a payment by either party with knowledge of the existence of a default or breach shall not operate or be construed to operate as a waiver of any subsequent default or breach.

XXVII. SEVERABILITY, SURVIVAL

27.1 If any provision of this Agreement is found to be void and unenforceable by a court of competent jurisdiction, the remaining provisions of this Agreement shall nevertheless be binding upon the parties with the same effect as though the void or unenforceable provision had been severed and deleted.

XXVIII. GOVERNING LAW AND VENUE

28.1 The laws of the State of Florida shall govern this Agreement. Any and all legal action necessary to enforce the Agreement will be held in Miami-Dade County, and the Agreement will be interpreted according to the laws of Florida.

28.2 The invalidity, illegality, or unenforceability of any provision of this Agreement, or the occurrence of any event rendering any portion or provision of this Agreement void, shall in no way effect the validity or enforceability of any other portion or provision of the Agreement. Any void provision shall be deemed severed from the Agreement, and the balance of the Agreement shall be construed and enforced as if the Agreement did not contain the particular portion or provision held to be void. The parties further agree to reform the Agreement to replace any stricken provision with a valid provision that comes as close as possible to the intent of the stricken provision.

PROFESSIONAL SERVICES AGREEMENT # RFQ 2019-015F

Civil and Environmental Engineering Services

28.3 The provisions of this section shall not prevent the entire Agreement from being void should a provision, which is of the essence of the Agreement, be determined to be void.

XXIX. TIME IS OF THE ESSENCE

29.1 Time is of the Essence. If any anticipated or actual delays arise, Professional shall immediately so notify the City. Regardless of notice if services or deliveries are not made at the time agreed upon, the City may, at its sole discretion, terminate this Agreement and proceed pursuant to Paragraph 14.1 (Termination by Default).

XXX. WAIVER OF TRIAL BY JURY

30.1 THE PARTIES TO THIS AGREEMENT HEREBY AGREE TO EXHAUST ALL ADMINISTRATIVE REMEDIES BEFORE FILING A LAWSUIT IN CIVIL COURT TO RESOLVE THE DISPUTE. CITY AND PROFESSIONAL HEREBY KNOWINGLY, IRREVOCABLY, VOLUNTARILY AND INTENTIONALLY WAIVE ANY RIGHT EITHER MAY HAVE TO A TRIAL BY JURY IN RESPECT OF ANY ACTION, PROCEEDING OR COUNTERCLAIM BASED UPON THE AGREEMENT, OR ARISING OUT OF, UNDER, OR IN CONNECTION WITH, THE SERVICES TO BE PROVIDED, OR ANY COURSE OF CONDUCT, COURSE OF DEALING, STATEMENTS (WHETHER VERBAL OR WRITTEN), OR ACTIONS OF ANY PARTY.

**XXXI. FLORIDA PUBLIC RECORDS LAW
FLORIDA STATUTES CHAPTER 119, *et seq.***

31.1 Records subject to the provisions of Public Record Law, Florida Statutes Chapter 119, shall be kept and maintained in accordance with such Statute. Supplier acknowledges that records and books, not subject to exemption under Chapter 119, may be disclosed and/or produced to third parties by the City in accordance with requests submitted under Chapter 119 or court orders without penalty or reprisal to the City for such disclosure and/or production. Supplier also agrees to assert, in good faith, any relevant exemptions provided for under Chapter 119 for records in its possession on behalf of the City. Furthermore, Supplier agrees to comply with the provisions outlined in Section 119.0701 of the Florida Statutes, the requirements of which are incorporated herein.

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 305-460-5210, cityclerk@coralgables.com, 405 Biltmore Way, First Floor, Coral Gables, FL 33134.

PROFESSIONAL SERVICES AGREEMENT # RFQ 2019-015F

Civil and Environmental Engineering Services

XXXII. HEADINGS

32.1 The headings contained in this Agreement are for reference purposes only and shall not affect the meaning or interpretation of the Agreement.

XXXIII. WAIVER OF CONSEQUENTIAL DAMAGES

33.1 Professional waives claims against the CITY for consequential damages arising out of or related to this Agreement or its performance including, but not limited to, damages for lost income, profit, lost bonding capacity, financing, business and reputation, or for loss of management or labor productivity, damages incurred for principal office expenses, including the compensation of personnel stationed there, and for anticipated profit on any work not performed by Professional.

PROFESSIONAL SERVICES AGREEMENT # RFQ 2019-015F

Civil and Environmental Engineering Services

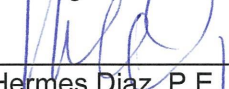
IN WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first above written.

Approved as to Insurance:



David J. Ruiz
Risk Management Division

Approved by Department Head
or head of negotiations team as to
the negotiated business terms



Hermes Diaz, P.E.
Director, Public Works

Approved as to compliance with
Applicable Procurement Requirements:



Celeste S. Walker
Assistant Finance Director for Procurement

Approved as to Funds Appropriation:



Diana Gomez,
Finance Director

ATTEST:



Corporate Secretary

Print Name: Maria J. Molina

(SEAL)

(OR)
WITNESSES (2):

Print Name: _____

Print Name: _____

AS TO CITY:

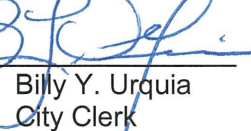


Peter J. Iglesias, P.E.
City Manager



Eduardo Santamaria, P.E.
Assistant City Manager

ATTEST:




Billy Y. Urquia
City Clerk

APPROVED AS TO FORM
AND LEGAL SUFFICIENCY



Miriam Soler Ramos
City Attorney

AS TO PROFESSIONAL



President

Print Name: Maria J. Molina



PROFESSIONAL SERVICES AGREEMENT # RFQ 2019-015F

Civil and Environmental Engineering Services

**EXHIBIT A
SCOPE OF WORK**

SECTION 2

Request for Qualifications (RFQ) No. 2019-015

2.0 SCOPE OF SERVICES

2.1 PURPOSE

The purpose of this RFQ is to qualify six (6) professional engineering firms ("Proposers"), per the requirements of Florida Statute 287.055 (CCNA), with the qualifications and ability to provide Civil and Environmental Engineering Services ("Services"). Professional services to be provided under the resulting agreement from this RFQ will be for projects in which the estimated construction cost of each individual project under the contract does not exceed \$2 million, and for study activities if the fee for professional services for each individual study does not exceed \$200,000.

The Proposers awarded under this RFQ will be required to provide the City with the following deliverables and services:

- Preliminary engineering analysis;
- Preliminary design;
- Final design;
- Permitting Process;
- Procurement documents, such as: scope of services, bidder's minimum qualifications, specifications, and plans to accompany with a solicitation (the Proposer will not be preparing the actual solicitation document); and
- Construction inspection and management

The Services provided under this RFQ shall reflect the community's and City's emphasis on preserving the historic and natural environmental which are long-standing traditions.

2.2 TYPES OF SERVICES / WORK CATEGORIES

2.2.1 Planning and General Civil Engineering Design Services

Under this category, Proposers will be required to provide all services necessary to deliver capital improvements and infrastructure construction, rehabilitation and repair including: master planning, sidewalk and street needs assessments, and miscellaneous engineering planning and design services.

2.2.2 Water and Sanitary Sewer Systems

Under this category, Proposers will be required to provide all services necessary to plan, design, equipment selection, preparation of construction documents, and administration of construction contracts for all types of water and sanitary sewer systems including but not limited to: water distribution and sewage collection systems, transmission lines of all sizes and types, and pumping stations. The work may include comprehensive studies and preparation of reports, permitting compliance, master planning, hydraulic modeling, development of new facilities, repairs and improvements of existing facilities.

2.2.3 Paving and Drainage Assessments and Design

Under this category, Proposers will be required to provide paving and drainage assessments of existing systems, drainage calculations, new systems design, streets parking lots, and other areas as may be required.

2.2.4 Environmental Engineering and Hazard Mitigation Strategies

Under this category, Proposers may be required to provide estimation of the effects of man on the environment and on human, animal and plant life as well as any action taken to reduce or eliminate the long-term risk to human life and property from natural hazards. Factors to be assessed include, but are not limited to: effects on natural resources; erosion and sedimentation; coastal and freshwater wetland communities; wildlife habitat and migration; air, water and soil pollution; groundwater and surface water movement and flow; and groundwater quality. The work involves the performance of studies and preparation of reports for environmental assessments of contaminated sites, provide air quality monitoring, manage DERM compliance process, certify contaminated soil removal, proposed land development, transportation improvements, hazard identification, vulnerability analysis, defining of hazard mitigation strategy and implementation of hazard mitigation activities and projects.

In addition to the basic engineering services listed above, special services may be required for some projects. Such services include engineering surveys, soil investigations, services of a resident engineer, feasibility studies, and other services requiring professional engineering analysis and/or design.

2.3 WORK ASSIGNMENTS AND DISTRIBUTION

Services under this RFQ will be requested on an as-needed basis throughout the term of the resulting Agreement. As such, this is a nonexclusive contract and the City does not guaranty a minimum number of tasks, hours, or work. Nonetheless, Proposer(s) will be "on-call" and must be ready to provide services upon request from the City.

Proposer(s) will be contacted by the City in the order of their Final Ranking as determined by their Total Aggregate Score per Section 7 of this RFQ. If a Proposer is unable to respond in a timely manner or cannot fulfill its contractual obligations or when the workload warrants, the City reserves the right to request services from the next Proposer in rank order, until all Proposers have been contacted and given an opportunity to provide services. If deemed necessary, the City further reserves the right to solicit services from another provider outside of this contract. The City also reserves the right to bypass a firm in the rank order rotation based on the volume of work or unique expertise requirements for a work assignment if deemed to be in the best interest of the City. Rationale for any such bypass action shall be fully documented by the City.

Service requests under this RFQ shall be made by the City in writing. Proposer(s) must acknowledge service requests within two (2) business days from the date the request is issued. Upon acknowledgment of receipt, Proposer(s) shall provide a **draft** timeline, proposal, and fees for the requested services by the deadline indicated in the City's service request. Once the proposal is finalized and approved by the City, a Purchase Order will be issued to commence services.

A Proposer shall be allowed to decline an offer of work assignment without a reasonable justification only twice per calendar year. After the second time, the Proposer may be suspended until further review. The City further reserves the right to remove Proposers in default or for failure to perform.

PROFESSIONAL SERVICES AGREEMENT # RFQ 2019-015F

Civil and Environmental Engineering Services

**EXHIBIT B
PRICING SCHEDULE**

RFQ 2019-015
CIVIL AND ENVIRONMENTAL ENGINEERING CONSULTING SERVICES

EXHIBIT B
PRICING SCHEDULE

Upon agreement of a fee, the Director of Public Works or his/her designee, will issue a written authorization to proceed to the PROFESSIONAL. In the case of an emergency, the CITY reserves the right to issue oral authorization to the PROFESSIONAL with the understanding that written confirmation will follow immediately thereafter. The CITY reserves the right to contract with the PROFESSIONAL for additional services. Any increase in the agreed upon amount shall be approved by the Public Works director or designee, and shall be in accordance with applicable CITY and State regulations.


The fees for professional services for each of the WORK shall be determined by one of the following methods or a combination thereof, as mutually agreed upon by the CITY and the PROFESSIONAL.

Multiple of Direct Salary expense: The "Not to Exceed" fee may be based on multiple of 3.00 times the salary rate, as determined from salaries reported to the Director of Internal Revenue, of the personnel engaged directly on a project, such multiplied rate not to exceed \$215.00 dollars per hour by either principles or employees.

Fixed Sum (Lump Sum): The fee for a task or Scope of Work may be fixed sum as mutually agreed upon by the CITY and the PROFESSIONAL.

Hourly Rate Fee: The CITY agrees to pay, and the PROFESSIONAL agrees to accept, for the services rendered pursuant to this agreement, fees in accordance with the following:

<u>Category</u>	<u>Hourly Rates</u>
• Principal	\$ <u>215.00</u>
• Project Manager	\$ <u>190.00</u>
• Senior Engineer	\$ <u>160.00</u>
• Project Engineer	\$ <u>140.00</u>
• Environmental Specialist	\$ <u>125.00</u>
• Construction Inspector	\$ <u>90.00</u>
• CADD Technician	\$ <u>75.00</u>
• Clerical	\$ <u>65.00</u>



Representative Authorized Signature

09/04/2019

Date

Maria J. Molina / President

Print Name and Title

Nova Consulting, Inc

Name of Firm

PROFESSIONAL SERVICES AGREEMENT # RFQ 2019-015F

Civil and Environmental Engineering Services

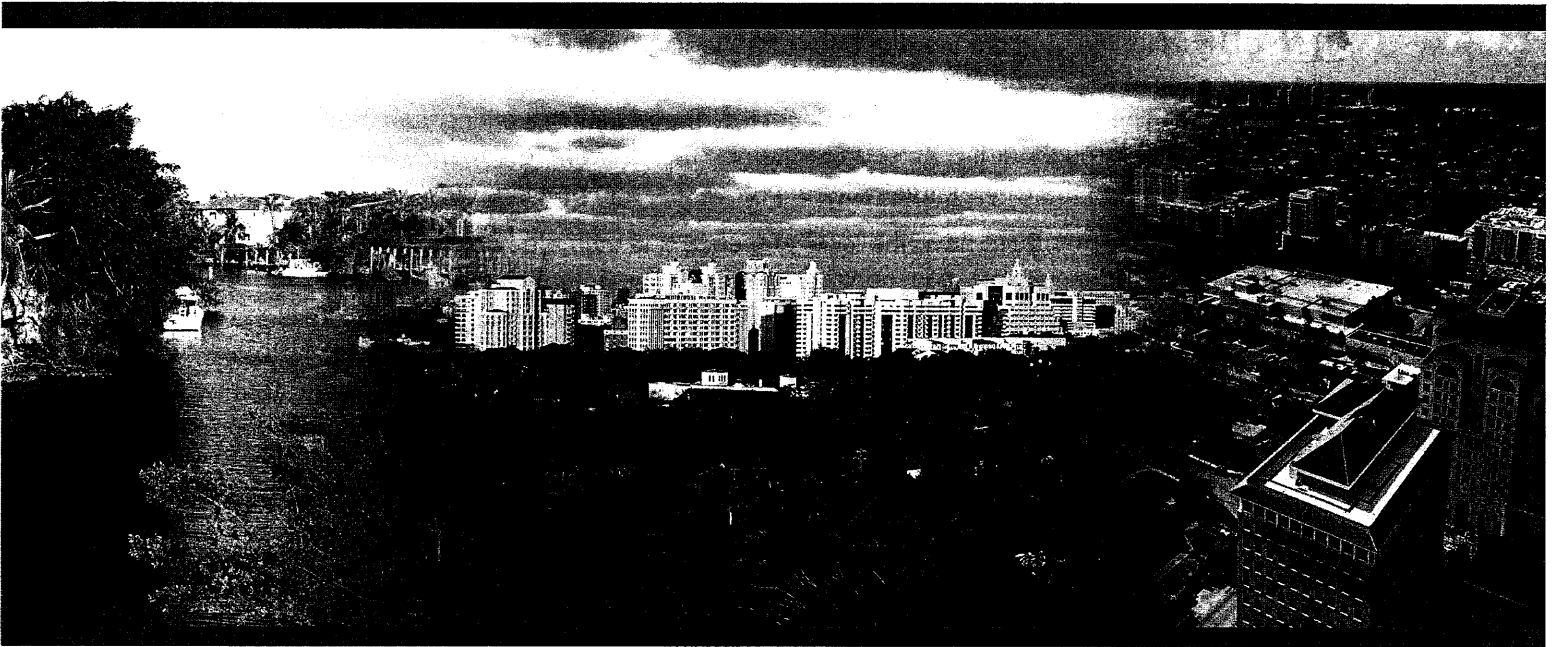
**EXHIBIT C
PROFESSIONAL'S RESPONSE TO THE RFQ**



CORAL GABLES

THE CITY BEAUTIFUL

**Civil and Environmental
Engineering Services
Solicitation RFQ 2019-015**



MBE | WBE | DBE | SBE

May 30, 2019

May 30, 2019

Yusbel Gonzalez, CPPB
Procurement Specialist
City of Coral Gables –Procurement Division
2800 S.W. 72nd Avenue
Miami, FL 33155

Ref: Proposal in response to Request for Qualifications No. 2019-015 – Civil and Environmental Engineering Services

Dear Ms. Gonzalez,

Nova Consulting, Inc. and our team of Sub-consultants (The Nova Team), are pleased to submit our qualifications to provide Continuing General Engineering Consulting Services for the City of Coral Gables. The Nova Team is excited about the opportunity of working with the City to provide the best service throughout the duration of the contract, utilizing our team's intimate knowledge and experience with the City's infrastructure, processes, and procedures.

Nova and its team-members have the local presence and intimate knowledge of the City and its objectives to recognize that this contract will be critical to achieve continual growth and development. As the consultants selected for this contract, it will be our duty to address the City's most pressing needs consisting of: (1) Actions driven by the need to serve actual and projected population and business growth such as, but not limited to: drainage and stormwater management, Infiltration and Inflow (I/I) in wastewater systems, traffic congestion, Sustainability, Complete Streets and Sea Level Rise (SLR); and (2) Regulatory driven actions in which the City must comply with regulatory requirements. We are eager and ready to assist in pursuing these objectives through sound professional analysis and advice.

The Nova Team consists of firms with in-depth experience in all services referenced in this RFQ, necessary for the successful execution of City of Coral Gables' projects. As Prime Consultant, Nova will be responsible for the overall management of this contract including the performance of its subconsultants. Nova will be accountable for each and every project under this contract from beginning to end and will make sure the end product exceeds the City's expectations.

Nova was incorporated in 1995 as a local woman-owned (M/WBE) company. The firm has a well-established reputation for excellence in civil and environmental engineering, as well as construction management services. Nova brings decades of experience providing professional services to state and municipal infrastructure agencies in South Florida and has an extensive and successful track record on projects with the City of Coral Gables during previous contracts that it has held.

The Nova Team consists of:

- Nova Consulting, Inc. Water, Sewer, Stormwater, Drainage, Civil Engineering
Sea Level Rise, Resident Engineering, Sustainability
- Gurri Matute, PA Architectural and Historical Preservation Services
- Geosol, Inc. Geotechnical Engineering
- CESGO Electrical Engineering
- Longitude Surveyors Surveying and Mapping Services
- HBC Engineers Roadway Design, Traffic Calming, Sustainability

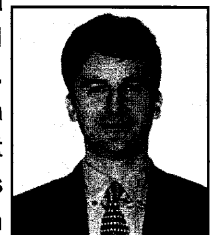
The Nova Team is proud to state that we are a 100% Small Business Enterprise (SBE) team, and 100% Miami Dade County based with a 100% Miami Dade County workforce. Additionally, Nova is headquartered in Miami and has a branch office located one (1) block away from the City (3850 Bird Road), all within a very close proximity to the City of Coral Gables offices.

Nova, as well as our team members, have been fortunate to work with the City of Coral Gables in the successful execution of numerous projects in the past. Through this experience, the Nova Team gained first-hand knowledge of local conditions; design standards, processes and procedures; local permitting requirements; stakeholder and public concerns; agency coordination needs; procurement procedures; general contracting practices; and construction methodologies specific to the projects to be administered by the City.



To ensure successful delivery of the projects under this contract, our team is led by our **Principal in Charge, Ms. Maria J. Molina, PE, ENV SP**. Ms. Molina is a Professional Engineer and Sustainability Professional resident of City of Coral Gables, who understands and has first-hand knowledge of the City's challenges. Ms. Molina pledges her personal commitment to the successful development of this contract by making sure that timely and effective resources, decisions and procedures are in place to accomplish the City's objectives.

The multidisciplinary activities in connection with the City's projects will require a proven Project Manager who is able to coordinate the multiple aspects and stakeholders. The Nova Team's proposed **Project Manager is Mr. Juan C. Prieto, P.E., PMP**, who is also a City of Coral Gables resident. Mr. Prieto is a Licensed Professional Engineer and a Project Management Professional that brings professional expertise combined with local knowledge to meet the City's expectations. He has over 20 years of contract and project management, design and construction management experience.





To ensure the best technical quality and professional advice, Nova's proposed **Technical Director/Chief Engineer, Mr. Steven Eagle, P.E.**, will review every analysis and every submittal to ensure consistency and accuracy of the technical approach and interpretation of results. Mr. Eagle has over 30 years of professional engineering experience, which gives him the specific knowledge to ensure success while performing this role.

Having worked closely with the City of Coral Gables staff in the past, The Nova Team understands the Town's expectations in terms of:

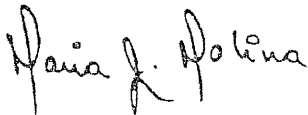
- Achieving project goals
- Satisfying approved budgets
- Meeting project timeframes
- Producing quality documents
- Minimizing/avoiding change orders
- Assuring client's and stakeholder's satisfaction

The Nova Team is committed to deliver the above results, while providing the Best Value for Money to the City. For every project, we will consistently meet the project's budget, time, and quality goals, focusing on the essential strategies that streamline designs, reduce the construction costs and periods, and minimize change orders. We extend our promise to perform, to protect the City's interests, and to produce the best quality designs through appropriate project management procedures. We strive to offer the City of Coral Gables with "big firm" project expertise, but with "small and local firm" fees and responsiveness.

The Nova Team is ready to start immediately assisting the City with engineering services for the years to come. We invite you to review the attached proposal and contact our references. We look forward to working with the City of Coral Gables to ensure the community continues to enjoy sustainable growth into the future.

Very truly yours,

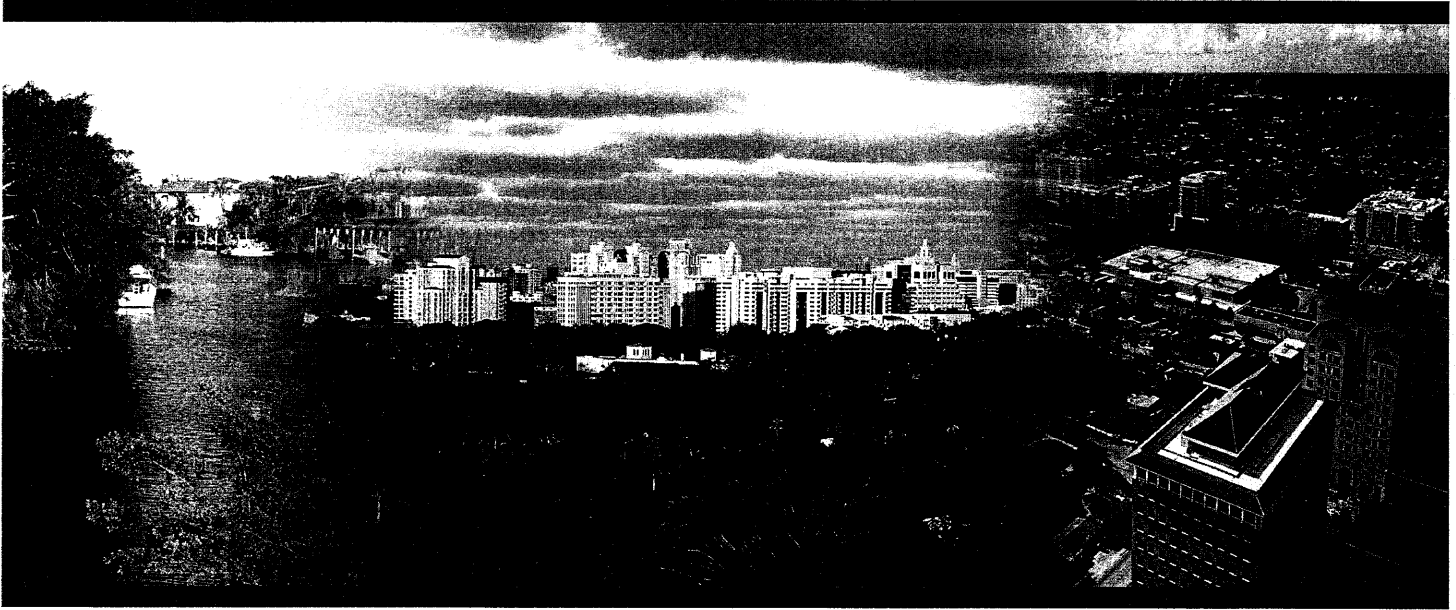
NOVA CONSULTING, INC.

A handwritten signature in black ink that reads "Maria J. Molina". The signature is written in a cursive, flowing style.

Maria J. Molina, P.E., ENV SP
President

CORAL GABLES

THE CITY BEAUTIFUL



SECTION I

TITLE PAGE, TABLE OF CONTENTS, REQUIRED FORMS, AND MINIMUM QUALIFICATION REQUIREMENTS



**Civil and Environmental
Engineering Services**

Solicitation RFQ 2019-015

Nova Consulting, Inc.
10486 NW 31st Terrace
Miami, FL 33172

Maria J. Molina, PE, ENV SP
mmolina@nova-consulting.com

786-325-8070
305-436-9200

May 30, 2019

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CITY OF CORAL GABLES, FL

2800 SW 72nd Avenue, Miami, FL 33155
 Finance Department / Procurement Division
 Tel: 305-460-5102 / Fax: 305-261-1601

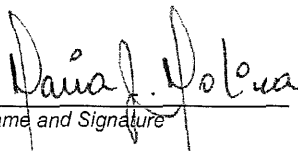
PROPOSER'S ACKNOWLEDGEMENT

<p>RFQ Title: Civil and Environmental Engineering Services</p> <hr/> <p>RFQ No. 2019-015</p> <p>A cone of silence is in effect with respect to this RFQ. The Cone of Silence prohibits certain communication between potential vendors and the City. For further information, please refer to the City Code Section 2-1027 of the City of Coral Gables Procurement Code.</p>	<p>Sealed response submittals must be received prior to 2:00 p.m., Monday, May 27, 2019, by the Procurement Office, located at 2800 SW 72nd Avenue, Miami, FL 33155 and are to remain valid for 120 calendar days. Submittals received after the specified date and time will be returned unopened.</p> <p>Contact: Yusbel Gonzalez, CPPB Title: Procurement Specialist Telephone: 305-460-5107 Email: ygonzalez@coralgables.com / contracts@coralgables.com</p>
--	---

Proposer's Name: Maria J. Molina, PE	FEIN or SS Number: 65-0577672
Complete Mailing Address: 10486 NW 31st Terrace, Doral, FL 33172	Telephone No.: (305) 436-9200 Cellular No.: 786-325-8070
Indicate type of organization below: Corporation: <input checked="" type="checkbox"/> Partnership: <input type="checkbox"/> Individual: <input type="checkbox"/> Other: <input type="checkbox"/>	Fax No.: (305) 436-9265
Bid Bond / Security Bond (if applicable) <u>N/A</u> %	Email: marketing@nova-consulting.com

ATTENTION: THIS FORM ALONG WITH ALL REQUIRED RFQ FORMS MUST BE COMPLETED, SIGNED (PERFERABLY IN BLUE INK), AND SUBMITTED WITH THE RESPONSE PRIOR TO THE SUBMITTAL DEADLINE. FAILURE TO DO SO MAY DEEM PROPOSER AS NON-RESPONSIVE.

THE PROPOSER CERTIFIES THAT THIS SUBMITTAL IS BASED UPON ALL CONDITIONS AS LISTED IN THE RFQ DOCUMENTS AND THAT THE PROPOSER HAS MADE NO CHANGES IN THE RFQ DOCUMENT AS RECEIVED. THE PROPOSER FURTHER AGREES IF THE RESPONSE IS ACCEPTED, THE PROPOSER WILL EXECUTE AN APPROPRIATE AGREEMENT FOR THE PURPOSE OF ESTABLISHING A FORMAL CONTRACTUAL RELATIONSHIP BETWEEN THE PROPOSER AND THE CITY OF CORAL GABLES FOR THE PERFORMANCE OF ALL REQUIREMENTS TO WHICH THIS RFQ PERTAINS. FURTHER, BY SIGNING BELOW PREFERABLY IN **BLUE INK**, ALL RFQ PAGES ARE ACKNOWLEDGED AND ACCEPTED AS WELL AS ANY SPECIAL INSTRUCTION SHEET(S) IF APPLICABLE. THE UNDERSIGNED HEREBY DECLARES (OR CERTIFIES) ACKNOWLEDGEMENT OF THESE REQUIREMENTS AND THAT HE/SHE IS AUTHORIZED TO BIND PERFORMANCE OF THIS RFQ FOR THE ABOVE PROPOSER.

Maria J. Molina, PE  President _____ May 30, 2019 _____
Authorized Name and Signature Title Date

Request for Qualifications (RFQ) No. 2019-015

COMPANY NAME: (Please Print): Nova Consulting, Inc.
 Phone: 305-436-9200 Email: marketing@nova-consulting.com

Please provide the PAGE NUMBER in the blanks provided as to where compliance information is located in your Submittal for each of the required submittal items listed below:

SUBMITTAL - SECTION I: TITLE PAGE, TABLE OF CONTENTS, REQUIRED FORMS, AND MINIMUM QUALIFICATION REQUIREMENTS.

- 1) Title Page: Show the RFQ number and title, the name of your firm, address, telephone number, name of contact person, e-mail address, and date. PAGE # 4
- 2) Provide a Table of Contents in accordance with and in the same order as the respective "Sections" listed below. Clearly identify the material by section and page number. PAGE # 5
- 3) Fill out, sign, and submit the Proposer's Acknowledgement Form. PAGE # 6
- 4) Fill out and submit the Solicitation Submission Check List. PAGE # 7
- 5) Fill out, sign, notarize (as applicable), and submit the Proposer's Affidavit and Schedules A through M. 10
- 6) Fill out, sign, and submit Standard Form 330, Architect-Engineer Qualifications. No response will be considered without this required form. Note: a separate Standard Form 330 is not required of each Sub-Consultant. The Proposer is responsible for filling out this form and including the sub-consultant information in the corresponding areas. PAGE # 27
- 7) Minimum Qualification Requirements: submit detailed verifiable information affirmatively documenting compliance with the Minimum Qualifications Requirements shown in Section 3. PAGE # 76
- 8) Indicate whether the Proposer is a State of Florida and/or County Certified Small Business or Minority Business Enterprise. If so, indicate the certifying organization or jurisdiction and include a copy of the certification with your submittal. PAGE # 77

SUBMITTAL - SECTION II: EXPERIENCE AND QUALIFICATIONS**(i) FOR PROPOSER**

- 1) Provide a complete history and description of your company, including, but not limited to: the number of years in business, size, number of employees, office location where work is to be performed, copy of applicable licenses/certifications, credentials, capabilities and capacity to effectively meet the City's needs, relevant experience and proven track record of providing the scope of services as identified in this solicitation to public sector agencies. PAGE # 79
- 2) Provide a statement detailing Proposer's familiarity with permitting agencies and permitting procedures, especially in Miami-Dade County. PAGE # 82
- 3) Describe the Proposer's expertise and experience working with other disciplines, including coordination with other design professionals and sub-consultants. PAGE # 83
- 4) Describe the Proposer's expertise and experience working with Envision and LEED Certifications. PAGE # 84

(ii) FOR KEY PERSONNEL

- 1) *Utilizing Standard Form SF330, Part I – Section E.*, provide a summary of qualifications, copy of applicable licenses/certifications, and experience, relevant to the scope of work, for all proposed key personnel (including sub-consultants). Include resumes (listing experience, education, licenses/certifications) for

your proposed key personnel and specify the role and responsibilities of each team member in providing the services outlined in the RFQ. Provide an organizational chart of all key personnel that will be used.
PAGE # 85

SUBMITTAL – SECTION III: PROJECT UNDERSTANDING, PROPOSED APPROACH, AND METHODOLOGY

- 1) Describe in detail, your approach and methodology to perform the services solicited herein. Include detailed information, as applicable, which addresses, but need not be limited to: Proposer's understanding of the RFQ scope and requirements, strategies for assuring assigned work is completed on time, innovative interaction and communication with the community, City staff, and multiple stakeholders.
PAGE # 88
- 2) Describe Proposer's approach to preserving the historic and natural environment of Coral Gables while providing the services solicited in this RFQ. PAGE # 113
- 3) Provide the recent, current, and projected workload of the Proposer and key personnel that will be assigned to the City. Explain how this potential contract will fit into the Proposer's workload.

The detailed list should include at a minimum the following:

- a. The company/agency
- b. Dates of services
- c. Name/Contract # of the project
- d. Scope

PAGE # 112

- 4) Describe the Proposer's ability to positively and innovatively move a project from the conceptual stage to a clearly defined project that may be designed and constructed, while minimizing the impact on the community. PAGE # 113
- 5) Describe the Proposer's ability to provide schedule control, cost control, and quality control for the services requested herein. Provide specific examples of similar initiatives that the Proposer has successfully undertaken with other public entities that were completed on-time and within budget. PAGE # 114
- 6) Describe Proposer's ability to successfully deliver similar projects that have significant community and business involvement. PAGE # 118
- 7) Explain how Proposer has complied with the public policies of the Federal Government. These include amongst other things, past and current compliance with:

a. Equal opportunity and nondiscrimination laws as required in 41 C.F.R. Part 60-1.4(b)

b. Affirmative steps described in 2 CFR § 200.321(b) for all subcontracting under contracts supported by FEMA financial assistance. Document Proposer's efforts to utilize M/WBE firms, including what firms were solicited as suppliers and/or subcontractors.

PAGE # 119

SUBMITTAL – SECTION IV: PAST PERFORMANCE AND REFERENCES

- 1) *Utilizing Standard Form SF330, Part I – Section F*, provide detailed information on five (5) of the Proposer's most recent and relevant projects similar in scope and nature to the services described in the solicitation. Under sub-section 23 – "Project Owner's Information" of Standard Form SF330, include an e-mail address for the "Point of Contact". **Note: Do not include work/services performed for the City of Coral Gables or City employees as references.** PAGE # 122
- 2) List all contracts which the Proposer has performed (past and present) for the City of Coral Gables. The City will review all contracts the Proposer has performed for the City in accordance with Section 4.10 Evaluation of Responses (c) (4) which states the City may consider "Proposer's unsatisfactory performance record, judged from the standpoint of conduct of work, workmanship, progress or standards of performance agreed upon in the Contract as substantiated by past or current work with the City".

As such the Proposer must list and describe all work performed for Coral Gables and include for each project:

- a. Name of the City Department for which the services are being performed,
- b. Scope/description of work,
- c. Awarded value of the contract/current value
- d. Effective dates and term of the contract
- e. City project manager's name and phone number,
- f. Statement of whether the Proposer was the prime contractor or subcontractor, and
- g. Results of the project.

PAGE # 127

- 3) Provide a list with contact information of public sector clients, if any, that have discontinued use of Proposer's services within the past two (2) years and indicate the reasons for the same. The City reserves the right to contact any reference as part of the evaluation process. PAGE # 128
- 4) Please identify each incident within the last five (5) years where (a) a civil, criminal, administrative, other similar proceeding was filed or is pending, if such proceeding arises from or is a dispute concerning the Proposer's rights, remedies or duties under a contract for the same or similar type services to be provided under this RFQ (See Affidavit D). PAGE # 129

-- NOTICE --

BEFORE SUBMITTING YOUR RFQ RESPONSE MAKE SURE YOU:

1. Carefully read and have a clear understanding of the RFQ, including the Scope of Services and enclosed Professional Services Agreement (*draft*).
2. Carefully follow the Submission Requirements outlined in Section 6 of the RFQ.
3. Prepare and submit ONE ORIGINAL RESPONSE and SEVEN (7) PHOTOCOPIES with ONE (1) digital copy on a CD or flash drive.
4. Clearly mark the following on the outside of your submittal package: RFQ Number, RFQ Title, Proposer's Name and Return Address, Submittal Deadline.
5. Make sure your Response is submitted prior to the submittal deadline. **Late responses will not be accepted.**

FAILURE TO SUBMIT THIS CHECKLIST AND THE REQUESTED DOCUMENTATION MAY RENDER YOUR RESPONSE SUBMITTAL NON-RESPONSIVE AND CONSTITUTE GROUNDS FOR REJECTION. THIS PAGE IS TO BE RETURNED WITH YOUR RESPONSE PACKAGE.

RESPONDENT'S AFFIDAVIT

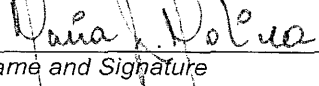
SOLICITATION: **RFQ 2019-015 Civil and Environmental Engineering Services**

SUBMITTED TO: City of Coral Gables
 Procurement Division
 2800 SW 72 Avenue
 Miami, Florida 33155

The undersigned acknowledges and understands the information contained in response to this solicitation and the referenced Schedules A through M shall be relied upon by Owner awarding the contract and such information is warranted by Respondent to be true and correct. The discovery of any omission or misstatements that materially affects the Respondent's ability to perform under the contract shall be cause for the City to reject the solicitation submittal, and if necessary, terminate the award and/or contract. I further certify that the undersigned name(s) and official signatures of those persons are authorized as (*Owner, Partner, Officer, Representative or Agent of the respondent that has submitted the attached solicitation response*). Schedules A through M are subject to Local, State and Federal laws (as applicable); both criminal and civil.

- SCHEDULE A – STATEMENT OF CERTIFICATION
- SCHEDULE B – NON-COLLUSION AND CONTINGENT FEE AFFIDAVIT
- SCHEDULE C – DRUG-FREE STATEMENT
- SCHEDULE D – RESPONDENT’S QUALIFICATION STATEMENT
- SCHEDULE E – CODE OF ETHICS, CONFLICT OF INTEREST, AND CODE OF SILENCE
- SCHEDULE F – AMERICANS WITH DISABILITIES ACT (ADA)
- SCHEDULE G – PUBLIC ENTITY CRIMES
- SCHEDULE H – ACKNOWLEDGEMENT OF ADDENDA
- SCHEDULE I – APPENDIX A, 44 C.F.R. PART 18-CERTIFICATION REGARDING LOBBYING
- SCHEDULE J –CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION
- SCHEDULE K – FEDERAL GRANT FUNDING SPECIAL PROPOSAL CONDITIONS
- SCHEDULE L – WORK HOURS & SAFETY CERTIFICATION
- SCHEDULE M – SAFETY ACCIDENT PREVENTION

This affidavit is to be furnished to the City of Coral Gables with the solicitation response. It is to be filled in, executed by the respondent and notarized. If the response is made by a Corporation, then it should be executed by its Chief Officer. This document **MUST** be submitted with the solicitation response.

Maria J. Molina, PE 	President	May 30, 2019
<i>Authorized Name and Signature</i>	<i>Title</i>	<i>Date</i>

STATE OF Florida

COUNTY OF Miami- Dade

On this 29 day of May, 2019, before me the undersigned Notary Public of the State of Florida, personally appeared Maria J. Molina
(Name(s) of individual(s) who appeared before Notary

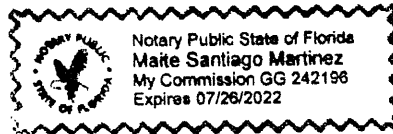
And whose name(s) is/are subscribes to within the instrument(s), and acknowledges it's execution.



NOTARY PUBLIC, STATE OF Florida

Maite Santiago Martinez

(Name of notary Public; Print, Stamp or Type as Commissioned.)



NOTARY PUBLIC
SEAL OF OFFICE:

Personally know to me, or Produced Identification:

(Type of Identification Produced)

SCHEDULE "A" - CITY OF CORAL GABLES – STATEMENT OF CERTIFICATION

Neither I, nor the company, hereby represent has:

- a. employed or retained for a commission, percentage brokerage, contingent fee, or other consideration, any company or person (other than a bona fide employee working solely for me or the respondent) to solicit or secure this contract.
- b. agreed, as an express or implied condition for obtaining this contract, to employ or retain the services of any company or person in connection with carrying out the contract, or
- c. paid, or agreed to pay, to any company, organization or person (other than a bona fide employee working solely for me or the respondent) any fee, contribution, donation or consideration of any kind for, or in connection with, procuring or carrying out the contract except as here expressly stated (if any):

SCHEDULE "B" - CITY OF CORAL GABLES - NON-COLLUSION AND CONTINGENT FEE AFFIDAVIT

1. He/she is the Owner
(Owner, Partner, Officer, Representative or Agent)

of the Respondent that has submitted the attached response.

2. He/she is fully informed with respect to the preparation and contents of the attached response and of all pertinent circumstances respecting such response;
3. Said response is made without any connection or common interest in the profits with any other persons making any response to this solicitation. Said response is on our part in all respects fair and without collusion or fraud. No head of any department, any employee or any officer of the City of Coral Gables is directly or indirectly interested therein. If any relatives of Respondent's officers or employees are employed by the City, indicate name and relationship below.

Name: N/A Relationship: N/A

Name: N/A Relationship: N/A

4. No lobbyist or other Respondent is to be paid on a contingent or percentage fee basis in connection with the award of this Contract.

SCHEDULE "C" CITY OF CORAL GABLES - VENDOR DRUG-FREE STATEMENT

Preference may be given to vendors submitting a certification with their bid/proposal certifying they have a drug-free workplace in accordance with Section 287.087, Florida Statutes. This requirement affects all public entities of the State and becomes effective January 1, 1991. The special condition is as follows:

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

The company submitting this solicitation has established a Drug Free work place program in accordance with State Statute 287.087

SCHEDULE "D" CITY OF CORAL GABLES – RESPONDENT'S QUALIFICATION STATEMENT

The undersigned declares the truth and correctness of all statements and all answers to questions made hereinafter:

GENERAL COMPANY INFORMATION:

Company Name: Nova Consulting, Inc

Address: 10486 NW 31st Terrace, Doral, FL 33172
Street City State Zip Code

Telephone No: (305) 436-9200 Fax No: (305) 436-9265 Email: marketing@nova-consulting.com

How many years has your company been in business under its present name? 24 Years

If Respondent is operating under Fictitious Name, submit evidence of compliance with Florida Fictitious Name Statue:

N/A

Under what former names has your company operated? : Nova Environmental, Inc.

At what address was that company located? 10486 NW 31st Terrace, Doral, FL 33172

Is your company certified? Yes X No _____ If Yes, **ATTACH COPY** of Certification.
Is your company licensed? Yes X No _____ If Yes, **ATTACH COPY** of License

Has your company or its senior officers ever declared bankruptcy?

Yes _____ No X If yes, explain: _____

LEGAL INFORMATION:

Please identify each incident **within the last five (5) years** where (a) a civil, criminal, administrative, other similar proceeding was filed or is pending, if such proceeding arises from or is a dispute concerning the Respondent's rights, remedies or duties under a contract for the same or similar type services to be provided under this solicitation (**A response is required. If applicable please indicate "none" or list specific information related to this question. Please be mindful that responses provided for this question will be independently verified**):

N/A

Has your company ever been debarred or suspended from doing business with any government entity?

Yes _____ No X If Yes, explain _____

SCHEDULE "E" CITY OF CORAL GABLES – CODE OF ETHICS, CONFLICT OF INTEREST, AND CODE OF SILENCE

THESE SECTIONS OF THE CITY CODE CAN BE FOUND ON THE CITY'S WEBSITE, UNDER GOVERNMENT, CITY DEPARTMENT, PROCUREMENT, PROCUREMENT CODE (CITY CODE CHAPTER 2 ARTICLE VIII); SEC 2-1023; SEC 2-606; AND SEC 2-1027, RESPECTIVELY.

IT IS HEREBY ACKNOWLEDGED THAT THE ABOVE NOTED SECTIONS OF THE CITY OF CORAL GABLES CITY CODE ARE TO BE ADHERED TO PURSUANT TO THIS SOLICITATION.

SCHEDULE "F" CITY OF CORAL GABLES - AMERICANS WITH DISABILITIES ACT (ADA) DISABILITY NONDISCRIMINATION STATEMENT

I understand that the above named firm, corporation or organization is in compliance with and agreed to continue to comply with, and assure that any sub-contractor, or third party contractor under this project complies with all applicable requirements of the laws listed below including, but not limited to, those provisions pertaining to employment, provision of programs and service, transportation, communications, access to facilities, renovations, and new construction.

The American with Disabilities Act of 1990 (ADA), Pub. L. 101-336, 104 Stat 327, 42 U.S.C. 12101,12213 and 47 U.S.C. Sections 225 and 661 including Title I, Employment; Title 11, Public Services; Title III, Public Accommodations and Services Operated by Private Entities; Title IV, Telecommunications; and Title V, Miscellaneous Provisions.

The Florida Americans with Disabilities Accessibility Implementation Act of 1993, Sections 5553.501-553.513, Florida Statutes

The Rehabilitation Act of 1973, 229 U.S.C. Section 794

The Federal Transit Act, as amended, 49 U.S.C. Section 1612

The Fair Housing Act as amended, 42 U.S.C. Section 3601-3631

SCHEDULE "G" CITY OF CORAL GABLES - STATEMENT PURSUANT TO SECTION 287.133 (3) (a), FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES

1. I understand that a "public entity crime" as define in Paragraph 287.133(1)(g), **Florida Statutes**, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or of the United States, including, but not limited to, any Proposal or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.
2. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), **Florida Statutes**, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, non-jury trial, or entry of a plea of guilty or nolo contendere.

3. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), **Florida Statutes**, means:
1. A predecessor or successor of a person convicted of a public entity crime; or 2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.
4. I understand that a "person" as defined in Paragraph 287.133(1)(e), **Florida Statutes**, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which Proposals or applies to Proposal on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.
5. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. **[Please indicate which statement below applies.]**

Neither the entity submitting this sworn statement, nor any of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, nor any affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been subsequent proceeding before a Hearing Officer of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Hearing Officer determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list.

[Attach a copy of the final order]

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IS FOR THAT PUBLIC ENTITY ONLY AND, THAT THIS FORM IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT IN EXCESS OF THE THRESHOLD AMOUNT PROVIDED IN SECTION 287.017, FLORIDA STATUTES FOR CATEGORY TWO OF ANY CHANGE IN THE INFORMATION CONTAINED IN THIS FORM.

SCHEDULE "H" CITY OF CORAL GABLES - ACKNOWLEDGEMENT OF ADDENDA

1. The undersigned agrees, if this RFP is accepted, to enter in a Contract with the CITY to perform and furnish all work as specified or indicated in the RFP and Contract Documents within the Contract time indicated in the RFP and in accordance with the other terms and conditions of the solicitation and contract documents.
2. Acknowledgement is hereby made of the following Addenda, if any (identified by number) received since issuance of the Request for Proposal.

Failure to adhere to changes communicated via any addendum may render your response non-responsive.

Addendum No. 1 Date 5/8/2019

Addendum No. _____ Date _____

Addendum No. 2 Date 5/14/2019

Addendum No. _____ Date _____

Addendum No. _____ Date _____

Addendum No. _____ Date _____

SCHEDULE "I" - APPENDIX A, 44 C.F.R. PART 18-CERTIFICATION REGARDING LOBBYING

LOBBYING - 31 U.S.C. 1352, as amended

APPENDIX A, 44 CFR PART 18--CERTIFICATION REGARDING LOBBYING

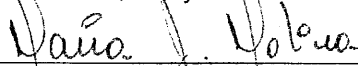
Certification for Contracts, Grants, Loans, and Cooperative Agreements
(To be submitted with each bid or offer exceeding \$100,000)

The undersigned [Company] certifies, to the best of his or her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form--LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions
3. The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Respondent, Nova Consulting, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. A 3801, *et seq.*, apply to this certification and disclosure, if any.



Signature of Company's Authorized Official

Maria J. Molina, PE, President

Name and Title of Company's Authorized Official

May 30, 2019

Date

SCHEDULE "J" – CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

Government Debarment & Suspension Instructions

1. By signing and submitting this form, the prospective lower tier participant is providing the certification set out in accordance with these instructions.
2. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension or debarment.
3. The prospective lower tier participant shall provide immediate written notice to the person(s) to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
4. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549, at 2 C.F.R. Parts 180 and 417. You may contact the department or agency to which this proposal is being submitted for assistance in obtaining a copy of those regulations.
5. The prospective lower tier participant agrees by submitting this form that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.
6. The prospective lower tier participant further agrees by submitting this form that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
7. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the System for Award Management (SAM) database.
8. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
9. Except for transactions authorized under paragraph (5) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

**Certification Regarding Debarment, Suspension,
Ineligibility and Voluntary Exclusion
Lower Tier Covered Transactions**

The following statement is made in accordance with the Privacy Act of 1974 (5 U.S.C. § 552(a), as amended). This certification is required by the regulations implementing Executive Order 12549, Debarment and Suspension, and 2 C.F.R. §§ 180.300, 180.355, Participants' responsibilities. The regulations were amended and published on August 31, 2005, in 70 Fed. Reg. 51865-51880.

[READ INSTRUCTIONS ON PREVIOUS PAGE BEFORE COMPLETING CERTIFICATION]

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency;
2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this solicitation

Maria J. Molina, PE, President

Printed Name and Title of Authorized Representative

Maria J. Molina
Signature

May 30, 2019

Date

SCHEDULE "K" FEDERAL GRANT FUNDING SPECIAL PROPOSAL CONDITIONS

This procurement is fully or partially Federally Grant funded. Respondent certifies that it shall comply with the applicable clauses as enumerated below.

1. **Drug Free Workplace Requirements:** Drug-free workplace requirements in accordance with Drug Free Workplace Act of 1988 (Pub I 100-690, Title V, Subtitle D) All proposers entering into Federal funded contracts over \$100,000 must comply with Federal Drug Free workplace requirements as Drug Free Workplace Act of 1988.
2. **Respondent's Compliance:** The respondent shall comply with all uniform administrative requirements, cost principles, and audit requirements for federal awards.
3. **Conflict of Interest:** The respondent must disclose in writing any potential conflict of interest to the city or pass-through entity in accordance with applicable Federal policy.
4. **Mandatory Disclosures:** The respondent must disclose in writing all violations of Federal criminal law involving fraud, bribery, or gratuity violations potentially affecting the Federal award.
5. **Utilization of Minority and Women Firms (M/WBE):** The respondent must take all necessary affirmative steps to assure that minority businesses, women's business enterprises, and labor surplus area firms are used when possible, in accordance with 2CFR 200.321. If subcontracts are to be let, prime proposer will require compliance by all sub-contractor. Prior to contract award, the respondent shall document efforts to utilize M/WBE firms including what firms were solicited as suppliers and/or subcontractor as applicable and submit this information with their bid submittal. Information regarding certified M/WBE firms can be obtained from:

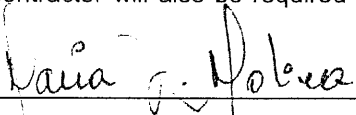
Florida Department of Management Services (Office of Supplier Diversity)
Florida Department of Transportation
Minority Business Development Center in most large cities and
Local Government M/DBE programs in many large counties and cities
6. **Equal Employment Opportunity/Nondiscrimination:** (As per Executive Order 11246) The respondent may not discriminate against any employee or applicant for employment because of age, race, color, creed, sex, disability or national origin. The respondent agrees to take affirmative action to ensure that applicants are employed and that employees are treated during employment without regard to their age, race, color, creed, sex, disability or national origin. Such action shall include but not be limited to the following: employment, upgrading, demotion or transfer, recruitment advertising, layoff or termination, rates of pay or other forms of compensation and selection for training including apprenticeship.
7. **Davis-Bacon Act:** If applicable to this contract, the respondent agrees to comply with all provisions of the Davis Bacon Act as amended (40 U.S.C. 3141-3148). Respondents are required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, respondents must be required to pay wages not less than once a week. If the grant award contains Davis Bacon provisions, the City will place a copy of the current prevailing wage determination issued by the Department of Labor in the solicitation document. The decision to award a contract shall be conditioned upon the acceptance of the wage determination.
8. **Copeland Anti Kick Back Act:** If applicable to this contract, respondents shall comply with all the requirements of 18 U.S.C. § 874, 40 U.S.C. § 3145, 29 CFR Part 3 which are incorporated by reference to this contract. Respondents are prohibited from inducing by any means any person employed in the construction, completion or repair of public work to give up any part of the compensation to which he or she is otherwise entitled.

9. **Contract Work Hours and Safety Standards Act** (40 U.S.C. 3701–3708): Where applicable, all contracts awarded in excess of \$100,000 that involve the employment of mechanics or laborers must be in compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each respondent is required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.
10. **Clean Air Act (42 U.S.C. 7401–7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251–1387)**: as amended—The Respondent agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401–7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251–1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).
11. **Debarment and Suspension** (Executive Orders 12549 and 12689): A contract award (see 2 CFR 180.220 and 2 CFR pt. 300) must not be made to parties listed on the government wide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p. 235), “Debarment and Suspension. SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549. The respondent shall certify compliance. The respondent further agrees to include a provision requiring such compliance in its lower tier covered transactions and subcontracts.
12. **Byrd Anti-Lobbying Amendment** (31 U.S.C. 1352): Respondents that apply or bid for an award exceeding \$100,000 must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award. The respondent shall certify compliance.
13. **Rights to Inventions Made Under a Contract or Agreement**: If the Federal award meets the definition of “funding agreement” under 37 CFR § 401.2 (a) and the recipient or sub-recipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that “funding agreement,” the recipient or sub-recipient must comply with the requirements of 37 CFR Part 401, “Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements,” and any implementing regulations issued by the awarding agency.
14. **Procurement of Recovered Materials**: Respondents must comply with section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

15. **Access to Records and Reports:** Respondent will make available to the City's granting agency, the granting agency's Office of Inspector General, the Government Accountability Office, the Comptroller General of the United States, City of Coral Gables, or any of their duly authorized representatives any books, documents, papers or other records, including electronic records, of the proposer that are pertinent to the City's grant award, in order to make audits, investigations, examinations, excerpts, transcripts, and copies of such documents. The right also includes timely and reasonable access to the respondent's personnel during normal business hours for the purpose of interview and discussion related to such documents. This right of access shall continue as long as records are retained.
16. **Record Retention:** Respondent will retain of all required records pertinent to this contract for a period of three years, beginning on a date as described in 2 C.F.R. §200.333 and retained in compliance with 2 C.F.R. §200.333.
17. **Federal Changes:** Respondent shall comply with all applicable Federal agency regulations, policies, procedures and directives, including without limitation those listed directly or by reference, as they may be amended or promulgated from time to time during the term of the contract.
18. **Termination for Default (Breach or Cause):** If a contract is entered into, the Respondent acknowledges that if it fails to perform in the manner called for in the contract, or if the Respondent fails to comply with any other provisions of the contract, the City may terminate the contract for default. Termination shall be effected by serving a notice of termination to the respondent setting forth the manner in which the respondent is in default. The respondent will only be paid the contract price for supplies delivered and accepted, or services performed in accordance with the manner of performance set forth in the contract.
19. **Safeguarding Personal Identifiable Information:** Respondent will take reasonable measures to safeguard protected personally identifiable information and other information designated as sensitive by the awarding agency or is considered sensitive consistent with applicable Federal, state and/or local laws regarding privacy and obligations of confidentiality.
20. **Prohibition on utilization of cost plus a percentage of cost contracts:** The City will not award contracts containing Federal funding on a cost plus percentage of cost basis.
21. **Energy Policy and Conservation Act (43 U.S.C. §6201):** All contracts except micro-purchases (\$3000 or less, except for construction contracts over \$2000). Contracts shall comply with mandatory standards and policies relating to energy efficiency, stating in the state energy conservation plan issued in compliance with the Energy Policy and Conservation act. (Pub. L. 94-163, 89 Stat. 871) [53 FR 8078, 8087, Mar. 11, 1988, as amended at 60 FR 19639, 19645, Apr. 19, 1995].

As the person authorized to sign this statement, I certify that this company complies/will comply fully with the above applicable requirements. I further certify that any subcontractor will also be required to comply with the requirements above.

DATE May 30, 2019

SIGNATURE 

COMPANY: Nova Consulting, Inc.

NAME: Maria J. Molina, PE

ADDRESS 10486 NW 31st Terrace
Miami, FL 33172

TITLE: President

E-MAIL: marketing@nova-consulting.com

PHONE NO (305) 436-9200

SCHEDULE "L" - CONTRACTOR CERTIFICATION WORK HOURS AND SAFETY STANDARDS
ADDENDUM

This certification is incorporated as part of the contract for Civil and Environmental Engineering Services.

The Contractor acknowledges and certifies that in accordance with the mandatory requirement that this provision be set forth in all FEMA related contracts, that it shall comply with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5).

Under 40 U.S.C. s. 3702, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week.

The requirements of 40 U.S.C. s. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchase of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

More particularly, as set forth in 29 CFR s.5.5(b) which provides the required contract clauses:

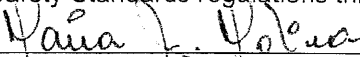
(1) *Overtime requirements.* No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

(2) *Violation; liability for unpaid wages; liquidated damages.* In the event of any violation of the clause set forth in paragraph (b)(1) of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (b)(1) of this section, in the sum of \$25 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (b)(1) of this section.

(3) *Withholding for unpaid wages and liquidated damages.* The (write in the name of the Federal agency or the loan or grant recipient) shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (b)(2) of this section.

(4) *Subcontracts.* The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraphs (1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1) through (4) of this section.

Nova Consulting, Inc. _____, hereby certifies that it shall adhere to the Work Hours and Safety Standards regulations throughout the duration of this Contract as set forth above.



Contractor Signature

Date: May 30, 2019

SCHEDULE "M" – SAFETY ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.
2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Construction Work Hours and Safety Standards Act (40 U.S.C. 3704).
3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carryout the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standard Act (40 U.S.C. 3704).

Nova Consulting, Inc. _____, hereby certifies that it shall adhere to the Safety Accident Prevention regulations throughout the duration of this Contract as set forth above.

Diana J. Voliva
Contractor Signature
Date: May 30, 2019

ARCHITECT - ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION <i>(City and State)</i> Civil and Environmental Engineering Services Coral Gables, FL	
2. PUBLIC NOTICE DATE May 3, 2019	3. SOLICITATION OR PROJECT NUMBER RFQ 2019-015

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE Maria J. Molina, PE / President		
5. NAME OF FIRM Nova Consulting, Inc.		
6. TELEPHONE NUMBER 305-436-9200	7. FAX NUMBER 305-436-9265	8. E-MAIL ADDRESS marketing@nova-consulting.com

C. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors.)

	(Check)			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	JV PARTNER	SUBCONTRACTOR			
a.	X			Nova Consulting, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	10486 NW 31 Terrace Doral, FL 33172	Civil & Environmental Engineering, LEED & Envision SP Compliance
b.		X		Gurri Matute, PA <input type="checkbox"/> CHECK IF BRANCH OFFICE	5001 SW 74th Court Suite 208 Miami Florida 33155	Architecture; Sustainable Design, Interiors; Historic Preservation, LEED Compliance
c.		X		Longitude Surveyors, LLC <input type="checkbox"/> CHECK IF BRANCH OFFICE	7769 NW 48th Street Suite 375 Doral, FL 33166	Land Surveying Services
d.		X		CesGo Consulting Engineers <input type="checkbox"/> CHECK IF BRANCH OFFICE	17901 SW 115th Ave Miami, FL 33157	Electrical Engineering
e.		X		HBC Engineering Co. <input type="checkbox"/> CHECK IF BRANCH OFFICE	13155 S.W. 134th Street, Ste. 207, Miami, FL 33186	Roadway/Paving Services
f.		X		GEOSOL, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	5795-A NW 151st Street, Miami Lakes, FL 33014	Geotechnical Engineering

D. ORGANIZATIONAL CHART OF PROPOSED TEAM

(Attached)

Personnel vs Scope

Personnel	Personnel vs. Scope																
	Water & Sanitary Sewer Systems	Planning And General Civil Engineering Design	Paving And Drainage Assessments And Design	Environmental Engineering & Hazard Mitigation Construction/Resident Engineering Services	Permitting Services	GIS/BIM/CADD	Grant Application Services	Pump Stations	Sustainability & LEED®	Comprehensive Studies	Preparation of Plans/Specifications/Reports	Hydraulic Analysis/ Modeling	Architectural Services	Historical Preservation	Electrical Engineering	Land Surveying Services	Geotechnical Services
Maria J. Molina, PE, Envision SP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
Juan C. Prieto, PE, PMP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
Steven S. Eagle, PE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
Jonathan Pappas, PE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
Harold Aiken, PE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
Marco Finazzi, PE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
Orlando Alfonso, PE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
Theresa Jablonski, PE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
Rachel Ferradaz, PE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
Giuseppe Santoro, PE				✓	✓				✓	✓							
Nelson Walters, PE				✓	✓				✓	✓							
Colin Taylor, LEED GA, Envision SP				✓				✓		✓							
Saksham Gupta, EIT, LEED®, CAPM	✓			✓		✓		✓	✓								
Catalina Lopez, EIT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
Cynthia Estivil, EIT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
Stewart Fiskken, EIT		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
Alex Yu, EIT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
Bryan Moreno, EIT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
Jesus Misas, EIT	✓			✓	✓												
Eduardo Guillen		✓	✓			✓				✓							
Jacqueline Pape	✓					✓				✓							
Nikitha Shamirpet	✓	✓				✓		✓		✓	✓	✓					
Dulyma Kern	✓	✓	✓		✓	✓		✓		✓	✓	✓					
Maya Compton-Grant				✓	✓	✓				✓							
Julianne E. Cossavella				✓	✓	✓				✓							
Leonardo Costa				✓	✓	✓				✓		✓					
Colin Adams				✓	✓												
Rafael Lazo	✓			✓	✓					✓							
Frank Bendana	✓			✓	✓					✓							
Luis Dantes	✓			✓	✓					✓							
Jason Reynolds				✓		✓				✓							
Daymara Otero	✓	✓	✓			✓				✓							
Pedro Elias Gonzalez, PS, ENV SP										✓		✓				✓	
Eddie Suarez, PLS						✓				✓						✓	
John H. Adler III, PSM						✓				✓						✓	
Daphne I. Gurri, AIA, LEED® AP				✓	✓	✓			✓	✓	✓	✓	✓	✓			
Jose Matute, AIA, LEED® AP				✓	✓	✓			✓	✓	✓	✓	✓	✓			
Ebehi Ijeware, LEED® GA				✓	✓	✓			✓	✓	✓	✓	✓	✓			
Marta McNab, LEED® AP				✓	✓	✓			✓	✓	✓	✓	✓	✓			
Joel Gonzalez, PE				✓	✓	✓				✓					✓		
Maria M. Gonzalez						✓				✓					✓		
Adebayo Coker, PE		✓	✓		✓	✓											✓
Oracio Riccobono, PE					✓						✓						✓
Ismail Adnan, P.E					✓						✓						✓

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Maria J. Molina, PE, Envision SP	13. ROLE IN THIS CONTRACT Principal in Charge	14. YEARS EXPERIENCE	
		a. TOTAL 31	b. WITH CURRENT FIRM 24
15. FIRM NAME AND LOCATION <i>(City and State)</i> Nova Consulting, Inc., Miami, FL			
16. EDUCATION <i>(Degree and Specialization)</i> ME / Civil Engineering MS / Hydrogeology BS / Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Licensed Professional Engineer: FL (49627), NY (070695-1)	

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
 Maria has over 30 years of experience in the fields of civil engineering, environmental engineering, water resources, and construction/program management. Her civil engineering experience includes engineering design, cost estimating and scheduling, construction management, value engineering, and enforcement of contract documents.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> Pump Station Improvement Program (PSIP), Miami-Dade Water & Sewer Department, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Miami-Dade will rehabilitate its wastewater treatment plants and its sewer collection and transmission system. Under this program, the PSIP's objective is to rehabilitate approximately 109 sewage pump stations to comply with meeting a nominal average pumping operating time (NAPOT) of less than 10 hours per day. Nova was selected to manage the implementation of the PSIP to ensure timely repair of these upgrades. Ms. Molina was Principal in Charge.		
(1) TITLE AND LOCATION <i>(City and State)</i> Disaster Recovery Hurricane Irma, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(If applicable)</i> N/A
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Principal in Charge. As part of the emergency response and recovery activities associated with Hurricane Irma, Miami Dade County is conducting major Debris Collection and Disposal activities. These are being conducted under close supervision and are required to follow FEMA procedures and protocols.		
(1) TITLE AND LOCATION <i>(City and State)</i> Contamination Assessment & Remediation Contract (CAR) Services Contract, Florida Department of Transportation, District VI, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Principal in Charge. Nova has provided environmental services to the on-going Contamination Assessment and Remediation (CAR) Contract with the Florida Department of Transportation D-6. Nova was responsible for overseeing the day-to-day contract and project related tasks and for the development, review and implementation of Work Plan and Cost Estimates (WPCEs).		
(1) TITLE AND LOCATION <i>(City and State)</i> NW 75th Street Drainage Improvements, Town of Medley, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2009	CONSTRUCTION <i>(If applicable)</i> N/A
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Principal in Charge. Due to localized flooding occurring in the adjacent property owner's parking lot, Nova performed on-site investigations to assess the current drainage system. The adjacent roadway improvements being constructed on NW 72nd Avenue, where the profile of the roadway was raised significantly, caused the localized flooding to increase. The analysis from the site investigation was then used to prepare construction plans and documents for the upgrade of the existing system.		
(1) TITLE AND LOCATION <i>(City and State)</i> Environmental Engineering Services Contract for the City of Coral Gables, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Principal in Charge. Responsibilities included but were not limited to engineering design, construction supervision, development and implementation of proposed plans, sampling and evaluation of analytical data as well as preparation of closure plans for environmental projects. Engineering services also included evaluation, design and services during construction of pump station and; force main rehabilitation and improvements for compliance with regulatory agencies. Services also included environmental permitting and issuance of final certifications after.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Juan C. Prieto, PE, PMP	13. ROLE IN THIS CONTRACT Project Manager	14. YEARS EXPERIENCE	
		a. TOTAL 24	b. WITH CURRENT FIRM 17

15. FIRM NAME AND LOCATION *(City and State)*
Nova Consulting, Inc., Miami, FL

16. EDUCATION <i>(Degree and Specialization)</i> MS / Construction Management MS / Civil Engineering BS / Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Licensed Professional Engineer: MD (41656), VA (0402051535), NY (089154), FL (59465)
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Mr. Prieto has over 21 years of experience in civil engineering, specializing in water resources and construction management. He has been responsible for planning, engineering design, and bid documentation preparation.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a. Contamination Assessment & Remediation Contract (CAR) Services Contract, Florida Department of Transportation, District VI. Miami, FL	Ongoing	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Contract Manager. Nova has provided environmental services to the on-going Contamination Assessment and Remediation (CAR) Contract with the Florida Department of Transportation D-6.		
b. Drainage Improvements for NW 75th Street, Town of Medley, FL	2009	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Manager. This project consisted of drainage investigations and design for approximately 300 ft. of roadway.		
c. Disaster Recovery Hurricane Irma, Miami, FL	Ongoing	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Manager. In response to the category 4 hurricane Irma, Nova contracted with Tetra Tech providing oversight for cleanup efforts.		
d. Pump Station Improvement Program (PSIP) Miami Dade Water & Sewer Department, Miami, FL	Ongoing	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Sr. Principal Engineer. The Pump Station Improvement Program consists of managing these upgrades to Miami-Dade Water and Sewer Department's Wastewater Collection and Transmission System that includes sanitary sewer collection systems, pump stations, and force mains. As per USEPA standards, all the pump stations will be certified as capable of meeting a nominal average pump operating time of less than 10 hours per day.		
e. Environmental Cleanup and Compliance Services, Miami-Dade County Regulatory and Economic Resources, Miami, FL	Ongoing	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Manager. As Prime Consultant, Nova is providing Miami Dade County Department of Regulatory and Economic Resources (RER) environmental related services in connection with various project initiatives throughout the County.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Steven S. Eagle, PE	13. ROLE IN THIS CONTRACT Technical Director- Water/Wastewater	14. YEARS EXPERIENCE	
		a. TOTAL 38	b. WITH CURRENT FIRM 22
15. FIRM NAME AND LOCATION <i>(City and State)</i> Nova Consulting, Inc., Miami, FL			
16. EDUCATION <i>(Degree and Specialization)</i> MS / Sanitary Engineering BS / Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Licensed Professional Engineer: FL (43684)	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Mr. Eagle has more than 30 years of experience in the fields of civil and water resources engineering. His work includes planning and hydraulic modeling, detailed design, quality assurance/quality control, value engineering, and value analysis including life-cycle cost analysis and overall project management associated with water, stormwater and wastewater.			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
a.	Pump Station Improvement Program, Miami-Dade Water & Sewer Department, Miami, FL	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Technical Director. Under the terms of a consent decree, Miami-Dade will rehabilitate its wastewater treatment plants and sewer collection and transmission system. Under this program, the objective is to refurbish approximately 109 sewage pump stations to comply in meeting a nominal average pumping operating time of less than 10 hours per day. Nova was selected as the Program Managers to administer and manage the implementation of the PSIP initiatives.		
b.	Drainage Improvements for NW 75th Street, Town of Medley, FL	PROFESSIONAL SERVICES 2009	CONSTRUCTION <i>(If applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Technical Director. This Town of Medley project consisted of drainage investigations and drainage design for approximately 300 linear feet of roadway.		
c.	Perimeter Road Canal Relocation at Miami International Airport, Miami-Dade Aviation Department, Miami, FL	PROFESSIONAL SERVICES 2005	CONSTRUCTION <i>(If applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm This project involved the relocation of an existing canal, including the construction of 700 linear feet of new canal with sheet pile retaining walls, the construction of 1,200 linear feet of new metal pipe arch culverts of various sizes, 2,800 linear feet of a 24-in. water main, 1,600 linear feet of 16-in. force main, 2,800 linear feet of electrical conduit and other associated work. Mr. Eagle was the Project Manager responsible for Construction Inspection Services (CIS) in connection with the relocation of the Tamiami Canal (north fork), CSX railroad, and associated water and communication utility improvements.		
d.	Volume Sewer Customer Ordinance (VSCO), Town of Medley, FL	PROFESSIONAL SERVICES 2011	CONSTRUCTION <i>(If applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm This project was part of a Consent Decree; Miami-Dade County passed and implemented an ordinance known as the "Volume Sewer Customer Ordinance". The ordinance required all publicly and privately owned and operated sanitary sewer collection and transmission systems to be evaluated and to identify and reduce infiltrations and inflow into the systems, and bring all pump stations into compliance. Mr. Eagle served as Technical Director.		
e.	Sewer System Hydraulic Computer Model, Town of Medley, FL	PROFESSIONAL SERVICES 2005	CONSTRUCTION <i>(If applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm The objective of this project was to create a hydraulic computer model to be used in the development and implementation of operation and maintenance procedures to optimize transmission capacity within the collection system. In addition, the model was used to evaluate the impact of infiltration and inflow, rehabilitation programs, proposed system modifications, upgrades and expansions to the transmission capacity and performance of the collection system. Nova was responsible for performing the sewer hydraulic computer model and for the preparation of a technical memorandum summarizing the results of a comparative analysis performed using SewerGEMS software. Mr. Eagle served as Design Director and Project Manager overseeing all tasks and project deliverables.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Jonathan Pappas, PE	13. ROLE IN THIS CONTRACT Water/Wastewater Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 9	b. WITH CURRENT FIRM 6

15. FIRM NAME AND LOCATION *(City and State)*
Nova Consulting, Inc., Miami, FL

16. EDUCATION <i>(Degree and Specialization)</i> BS / Chemical Engineering	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Licensed Professional Engineer: FL (81785), NY (09529)
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Mr. Pappas has over 9 years experience in the fields of chemical, civil and environmental engineering. He has been responsible for engineering studies to detailed design, geotechnical site inspections and testing, utility coordination, construction management & inspection, project management, QA/QC, and liaison between client and agencies.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a. North District Wastewater Treatment Plant Primary and Secondary Clarifiers Rehabilitation, Miami-Dade Water & Sewer Department, Miami, FL	Ongoing	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm The rehabilitation consists of replacing the existing primary and secondary clarifier's odor control system, which includes the demolition of the existing and the design of a new satellite Chemical Feed Facility. As Principal Engineer, Mr. Pappas provides design management, preparation/review of design calculations, review of construction drawings, and preparation/review of technical specifications.		
b. Central District Wastewater Treatment Plant Chlorination System Design, Miami-Dade Water & Sewer Department, Miami, FL	Ongoing	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm This project involves the replacement of the plant's existing elemental gas chlorination system with a liquid sodium hypochlorite storage and feed system. As Sr. Principal Engineer, Mr. Pappas provided design management, preparation/review of design calculations, review of construction drawings, preparation/review of technical specifications, and review of construction shop drawings.		
c. McMillan Water Treatment Plant North Clearwell Maintenance and Improvements, USACE Washington Aqueduct, Washington D.C.	2016	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm As Principal Engineer, Mr. Pappas provides field management of structural and mechanical inspections; design management; preparation/review of Project Definition Report; review of as-builts; preparation/review of design calculations; review of construction drawings; and preparation/review of technical specifications.		
d. South District Water Reclamation Plant Pilot Study, Miami-Dade Water and Sewer Department, Miami, FL	2010	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm As part of MDWASD's Alternative Wastewater Reuse Program, the project consisted of the construction of the South District Water Reclamation Plant, to treat 21 MGD of reclaimed water that would comply with regulations for primary and secondary drinking water and for groundwater recharge and indirect water reuse. As Project Engineer, Mr. Pappas worked on the design of the reverse osmosis and nano filtration elements of the pilot study and coordinated with membrane manufacturers and equipment vendors during procurement, acquisition, and installation.		
e. Pump Station Improvements, Town of Medley, FL	2016	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Manager. Project involves emergency improvements to the Town of Medley's pump station, PS100. Services provided include design, cost estimation, preparation of contract documents, and regulatory permitting assistance; bidding and award services for the construction contract.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Harold V. Aiken, PE	13. ROLE IN THIS CONTRACT Senior Civil Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 43	b. WITH CURRENT FIRM 3
15. FIRM NAME AND LOCATION <i>(City and State)</i> Nova Consulting, Inc., Miami, FL			
16. EDUCATION <i>(Degree and Specialization)</i> MS / Civil Engineering BS / Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Licensed Professional Engineer: FL (18956)	

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Harold has over 40 years of experience in water, wastewater, and storm water infrastructure programs. He has worked all sectors on large municipal water and wastewater capital programs, and environmental restoration programs.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	Washington Aqueduct McMillan North Clearwell Improvements, USACE, DC	2017	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		
	Project Manager. This project is part of an IDC with USACE Baltimore District: Responsible for project management, engineering design, and construction support for the rehabilitations of the underground reservoir and improvements to water treatment. Scope of services include field investigations, project definition report, design repairs for deficient structural elements (i.e., roof, floor, columns); design for the leaking sluice gate; support during the construction phase; and the preparation of an Operation & Maintenance Manual.		
b.	Third High Reservoir Maintenance and Improvements US Army Corps of Engineers, Baltimore District (IDIQ W912DR-14-D-004)	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		
	Design Lead. Nova was selected as a prime contractor to perform multi-discipline A/E services under an IDIQ contract for USACE, Baltimore Washington Aqueduct Division. This task order project involves repairs and remediation to the Third High Reservoir, also known as Fort Reno. Constructed in 1950, the reservoir is a sub-surface concrete structure measuring 380 feet x 300 feet and 26 feet deep.		
c.	Five-Gate Concourse Airport Planning Consultant Services Broward County Aviation Department	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		
	Sr. Principal Engineer. The purpose of this Project is to develop a Project Definition Document (PDD) that will describe a capital program to construct a remote five-gate concourse (RGC) at Fort Lauderdale/Hollywood International Airport (FLL). The RGC is intended to provide five aircraft gates, apron, and associated boarding/deplaning facilities. The RGC will be a permanent construction that may be converted into other uses/functional purposes in the longer-term future.		
d.	Master Plan Development, City of Sunrise, FL	2008	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		
	As Project Manager, Mr. Aiken lead a team in developing the City's 2008 Master Plan. This plan, published in 2008, formed the basis for the City's Utilities Capital Program that followed.		
e.	Value Analysis and Life Cycle Cost Analysis, MIA Taxiways R, S, and T Pavement Rehabilitation, Miami Dade Aviation Department (MDAD), Florida	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		
	The project consisted of value analysis and life cycle costing for airfield improvements to Miami International Airport Taxiways R, S and T including pavement rehabilitation, runway extension and realignment, taxiway reconfiguration, construction of improved fuel tender parking area, jet fueling facility and other features. The project also includes construction of new service roads, installation of new centerline and edge light fixtures, and replacement of existing circuit conductors and transformers. Mr. Aiken served as a Value Engineering team-member.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Marco Finazzi, PE, PMP	13. ROLE IN THIS CONTRACT Senior Civil Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 7	b. WITH CURRENT FIRM 6

15. FIRM NAME AND LOCATION *(City and State)*
Nova Consulting, Inc., Miami, FL

16. EDUCATION <i>(Degree and Specialization)</i> MS / Civil Engineering, Columbia MS / Environmental Engineering BS / Environmental Engineering	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Professional Engineer (CA, MD, NJ) Project Management Professional
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Marco is a civil/environmental engineer specializing in assessment, modeling, and management of water resources projects. He regularly leads and supports the development of medium to large scale projects for municipal, state, and federal clients, ranging from water and wastewater infrastructure; watershed studies; community flood mitigation plans; stormwater management and green infrastructure solutions; and combined sewer overflow abatement.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> Central District Wastewater Treatment Plant Chlorination System Design, Miami-Dade Water & Sewer Department, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

a. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
This project involves the replacement of the plant's existing elemental gas chlorination system with a liquid sodium hypochlorite storage and feed system. As Sr. Project Engineer, Marco contributed to the process mechanical design through performing hydraulic calculations for truck fill stations, FRP tanks, transfer pumps, metering pumps, injection sites, and all associated piping.

(1) TITLE AND LOCATION <i>(City and State)</i> 6th Street Drainage Improvement Project, City of Miami Beach, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION <i>(If applicable)</i> N/A

b. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
This project involved the design, construction, and installation of a water distribution system, together with associated drainage structures along 6th Street in Miami Beach. Nova supported the efforts in obtaining a Class V Dewatering Permit approval from the Miami Dade County Department of Regulatory and Economic Resource. As Sr. Project Engineer, Marco performed groundwater simulations using the MODFLOW model to evaluate the pumping rate and associated radius of influence for the proposed dewatering operations.

(1) TITLE AND LOCATION <i>(City and State)</i> Living with the Bay Watershed Management Plan, NYS Governor's Office of Storm Recovery, NY	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

c. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
Nova is providing GIS mapping and data services: identifying and describing the geographic setting and features of the watershed, including topography, hydrography, floodplains, soils, and areas prone to erosion; identifying and describing map infrastructure (i.e., roads, bridges, outfalls, etc.); describing groundwater recharge areas, stream base flow and wetland hydrology; identifying historic and current land uses and zoning regulations. As Project Manager, Marco oversees technical staff, client coordination and budgeting, and QA/QC of project deliverables.

(1) TITLE AND LOCATION <i>(City and State)</i> Atlantic Yards Development, New York Empire State Development, NY	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION <i>(If applicable)</i> N/A

d. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
The Atlantic Yards Project was a \$4.9 billion project that included an arena, 16 buildings for residential, office, retail, community facilities, parking, and a new MTA rail yard and subway entrance. As Sr. Project Engineer, Marco was responsible for environmental oversight during construction activities. Responsibilities included monitoring and documenting contractor's compliance with environmental commitments, which aimed at minimizing impacts on the surrounding community during construction.

(1) TITLE AND LOCATION <i>(City and State)</i> Piscataway Raw Wastewater Pumping Station, Washington Suburban Sanitary Commission, MD	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

e. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
This project involves the production of final design documents for a new 60 MGD pump station and associated infrastructure. Nova's tasks are civil engineering design, erosion and sediment control, stormwater management, and grading plans. As Project Manager, Marco is responsible for project coordination of the design team, stormwater calculations, project administration, and QA/QC of project deliverables.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Orlando Alfonso, PE	13. ROLE IN THIS CONTRACT Senior Drainage Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 19	b. WITH CURRENT FIRM 18
15. FIRM NAME AND LOCATION <i>(City and State)</i> Nova Consulting, Inc., Miami, FL			
16. EDUCATION <i>(Degree and Specialization)</i> BS / Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Licensed Professional Engineer, FL (74686)	

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Mr. Alfonso has over 19 years of experience in design, construction engineering and inspection, resident engineering, and project management. His projects have included airport rehabilitations, roadways and highways, solid waste management, water treatment plants, and other infrastructure. He has been responsible for constructability reviews, estimating, preparing as-built drawings, and technical specification evaluations.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
<p>a. High Wastewater Flow Analysis, Town of Medley, FL</p> <p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm This project consisted of engineering services to evaluate and determine peak sewer flow rates entering the MD-WASD system from the Town of Medley sewer collection and transmission system in order to determine present and future average daily flows and rain derived peak flows. As Design Manager, Mr. Alfonso was responsible for quality control of the design and production of the design drawings.</p>	PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If applicable)</i> N/A
<p>b. Volume Sewer Customer Ordinance (VSCO) Compliance Program, Town of Medley, FL</p> <p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm This project consisted of the evaluation of a sanitary sewer system to determine the peak sewer flows under the conditions of the 2-year design rain event for the present conditions as well as a 20 year planning period. This evaluation was conducted for compliance with the Miami-Dade Volume Sewer Customer Ordinance (VSCO). Mr. Alfonso served as Project Engineer, his responsibilities included creating and generating GIS map representations of the Town's sanitary sewer system and hydraulic modeling and analysis.</p>	PROFESSIONAL SERVICES 2011	CONSTRUCTION <i>(If applicable)</i> N/A
<p>c. MIA Mover at Miami-International, Miami-Dade Aviation Department, Miami, FL</p> <p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm The project consisted of an automated people-mover system between Miami International Airport and the Miami Intermodal Center (MIC). Nova provided engineering design services required for the wet utilities and drainage. As Project Engineer, Mr. Alfonso was responsible for field inspection and coordination of underground utilities, facilities investigation, and data collection as well as design support.</p>	PROFESSIONAL SERVICES 2011	CONSTRUCTION <i>(If applicable)</i> N/A
<p>d. New Northside Runway 8-26 at Miami International Airport Miami-Dade Aviation Department, Miami, FL</p> <p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm This project consisted of the construction of MIA's fourth runway - new Taxiway K, relocation of existing Taxiway L, new and modified connector taxiways, new aircraft ramp areas, and airfield lighting and signage. As Field Representative, Mr. Alfonso provided construction inspection services, Maintenance of Traffic, on-site coordination, and QA/QC.</p>	PROFESSIONAL SERVICES 2005	CONSTRUCTION <i>(If applicable)</i> N/A
<p>e. North County Neighborhood Improvement – Preliminary Investigation, Broward County Water and Wastewater Services</p> <p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Nova was tasked with professional consulting services during this project's design phase, which included the investigation, verification, and digitalization on AutoCAD of existing utilities. Services also include utility as-built data compilation, utility field location support, location of drainage features, and location of above-ground utilities. Mr. Alfonso served as Project Engineer.</p>	PROFESSIONAL SERVICES 2011	CONSTRUCTION <i>(If applicable)</i> N/A

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Theresa Jablonski, PE	13. ROLE IN THIS CONTRACT Resident Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 21	b. WITH CURRENT FIRM 4

15. FIRM NAME AND LOCATION *(City and State)*

Nova Consulting, Inc., Miami, FL

16. EDUCATION *(Degree and Specialization)*

BS / Civil Engineering

17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*

Licensed Professional Engineer, FL (73701), MI (6201057511)

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Ms. Jablonski has over 21 years of engineering experience which includes construction contract management (P3, Design-Build), construction inspection and administration, structural/threshold inspection, landscaping inspections, electrical inspection and structural design. Her projects have involved airport expansion projects and rehabilitations, interstate highway structures, roadways, and bridges.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> Fort Lauderdale International Airport Expansion Project, Broward County Aviation Department, Fort Lauderdale, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	
Ms. Jablonski serves as Project Engineer Airfield providing program management services for the Terminal 4 Apron construction project, runway expansion project, and the landscape restoration and irrigation project.		
(1) TITLE AND LOCATION <i>(City and State)</i> Miami International Airport Projects, Miami Dade Aviation Department, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	
Ms. Jablonski served as Project Administrator/Architectural Field Representative for the Miami Intermodal Center Rental Car Center, Automated People Mover Station, and Central Station East Concourse projects. She provided cost management, project engineering, Owner oversight and inspection for construction of stormwater pump stations, manatee gates, 16" diameter water main installation, 20+ acre landscape installation with irrigation pump station and tree uplighting.		
(1) TITLE AND LOCATION <i>(City and State)</i> Miami International Airport, North Terminal Development Program, Miami Dade Aviation Department, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	
Ms. Jablonski served as Project/Cost Engineer for the North Terminal Development Consolidation Program. She facilitated construction work orders, providing financial reporting, coordinated negotiations between change management and contractor.		
(1) TITLE AND LOCATION <i>(City and State)</i> Florida Department of Transportation (P3 Design/Build), I-595 Corridor Roadway Improvements, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	
Ms. Jablonski served as Maintenance of Traffic Project Administrator. This project was part of a P3 which consisted of reconstruction of the I-595 mainlined and all associated improvements to 63 bridges, reversible express lanes, mainline roadway, frontage roads, ramps and toll gantry.		
(1) TITLE AND LOCATION <i>(City and State)</i> Florida Department of Transportation, Landscaping, Irrigation and Lighting Improvements, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	
Ms. Jablonski served as Project Administrator. \$5 million 20+ acre landscaping, irrigation, and lighting improvements along Le Jeune Road at the MIC. This project involved an extensive lighting system, irrigation system with pump station, and extensive landscape and hardscape improvements.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Rachel F. Ferradaz, PE	13. ROLE IN THIS CONTRACT Resident Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 19	b. WITH CURRENT FIRM 14
15. FIRM NAME AND LOCATION <i>(City and State)</i> Nova Consulting, Inc., Miami, FL			
16. EDUCATION <i>(Degree and Specialization)</i> BS / Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Licensed Professional Engineer: FL (#74686)	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> FDOT CTQP, Final Estimates, Level I & II, Lorman Certifications for Construction Delay Claims, FIU Certification for Construction Claims Sanitary Sewer System , Collection, Transmissions & Treatment Capacity – MDWASD Certification, Condition Assessment/Remaining Service Life of Water Distribution Mains – AWWA FL Continuing Education			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This project consisted of drainage investigations and design for approximately 300 ft. of roadway. The drainage design included stormwater treatment and attenuation as required to comply with requirements from Miami-Dade Permitting, Environmental, and Regulatory Affairs (PERA) Department and the South Florida Water Management District. Ms. Ferradaz was Sr. Project Engineer.	PROFESSIONAL SERVICES 2009	CONSTRUCTION <i>(If applicable)</i> N/A
<input type="checkbox"/> Check if project performed with current firm		
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Under the terms of a consent decree, Miami-Dade is rehabilitating its wastewater treatment plants and sewer collection and transmission system. Nova was selected to administer and manage the implementation of the PSIP to ensure timely repair of upgrades. Ms. Ferradaz served as the initial Program Controls Lead involved in the sequencing and scheduling an effective implementation of the design and construction components of the program.	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
<input type="checkbox"/> Check if project performed with current firm		
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This project included master planning, design, permitting, and construction for utilities and 800 feet of canal relocation; 2700 feet of new 24" water line, 8" sanitary force main relocations, and 1700 feet of new 16" force mains. As Scheduler/Claim Analyst, Ms. Ferradaz provided schedule analysis and claims support. As Scheduler/Claim Analyst, Rachel provided schedule analysis and claims support.	PROFESSIONAL SERVICES 2011	CONSTRUCTION <i>(If applicable)</i> N/A
<input type="checkbox"/> Check if project performed with current firm		
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE As part of CERP, this project involves the construction and operation of C-44 reservoir and stormwater treatment areas, a 12,000 acre site with the objective of regulating the timing and nutrient reduction being delivered to the Indian River Lagoon estuary. As Project Controls Engineering, she provided baseline schedule reviews and monthly update reviews analyzing and identifying inter-project relationships for long-term planning and master schedule updates; coordinating updates to master schedule; and provided cost estimating review of D/B schedule of values.	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
<input type="checkbox"/> Check if project performed with current firm		
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This project entailed the design of 4,800 linear feet of 48-inch influent pipeline; 1,000 linear feet of 36-inch concentrate pipeline; 500 linear feet of 42-inch effluent pipeline; 5,000 linear feet of 12-inch reuse water pipeline; and several 1000 linear feet of 6-inch miscellaneous chemical pipelines; and sewer force mains, and utility duct banks. Also included were the design of 5-72" casing micro-tunnels for roadway and sub-aqueous canal crossings. As Assistant Project Manager, Ms. Ferradaz was responsible for detailed design, utility coordination, and cost estimating.	PROFESSIONAL SERVICES 2011	CONSTRUCTION <i>(If applicable)</i> N/A
<input type="checkbox"/> Check if project performed with current firm		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Giuseppe Santoro, PE	13. ROLE IN THIS CONTRACT Resident Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 23	b. WITH CURRENT FIRM 10

15. FIRM NAME AND LOCATION *(City and State)*

Nova Consulting, Inc., Miami, FL

16. EDUCATION *(Degree and Specialization)*

BS / Naval Engineering
BS / Mechanical Engineering

17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*

Licensed Professional Engineer: FL (76935)
Certified General Contractor, FL (1514959)

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Mr. Santoro has over 25 years of program, project and construction management experience in a multi-phased, mega-project environment. His projects have ranged from construction to rehabilitation of commercial and residential buildings, airport facilities, rail stations, bridges, water treatment plants, fuel lines, apron, parking, roads and railways. He offers specific experience in contract administration, project control, quality control, design and engineering.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> Ft. Lauderdale Airport Expansion Program, Broward County Aviation Department, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Mr. Santoro has been part of the Program Management Office (PMO) team for the past nine years and has been assigned different responsibilities through the years, depending on the stage of the program and its 15 different projects. As client representative, the PMO is responsible for the program management, planning, design management, procurement, oversight of construction and cost and schedule control for the Broward County Aviation Department's Airport Expansion Program (\$1.2 billion).		
(1) TITLE AND LOCATION <i>(City and State)</i> New River Bridge D/B	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2008	CONSTRUCTION <i>(If applicable)</i> N/A
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	
Design-Build project of a 55 ft. high and 3,700 ft. long fixed-span rail bridge over the South Fork of the New River to enhanced on-time train performance without interference from boating traffic. Mr. Santoro was Construction Manager.		
(1) TITLE AND LOCATION <i>(City and State)</i> Senior Project Manager, Private Firm, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2007	CONSTRUCTION <i>(If applicable)</i> N/A
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	
Mr. Santoro managed liaison with clients and their consultants. Responsible for working with federal and state officials, architects, engineers and legal counselors. Interfaced with suppliers regarding subcontracts, technical specifications, warranty and project-related issues. Mobilized company resources by effectively liaising with support departments, field offices and subsidiaries, to c		
(1) TITLE AND LOCATION <i>(City and State)</i> SFRTA/Tri-Rail Project Management Consultant, Private Firm Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2007	CONSTRUCTION <i>(If applicable)</i> N/A
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	
Mr. Santoro supported preparation of construction schedule, cost and budget review, time and material reports, shop and as-built drawings, negotiations and settlement of change orders and claims. Supervised contractors and sub-contractors' work on site, ensuring that contractual terms and conditions were followed in an efficient and cost-effective manner. Reviewed contract documents, payment applications, purchase orders, NTPs, RFIs, work scopes for Change Notice and Change Order proposals.		
(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Nelson Walters, PE	13. ROLE IN THIS CONTRACT Senior Structural Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 25	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION <i>(City and State)</i> Nova Consulting, Inc., Miami, FL			
16. EDUCATION <i>(Degree and Specialization)</i> BS / Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Professional Engineer Florida (58207)	

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Mr. Walters has over 25 years of civil engineering, structural design and inspection experience. His responsibilities have included performing structural analysis, design and inspections for miscellaneous projects, such as residential, commercial, mixed-use structures and special components systems like curtain walls, glass and glazing, special structural envelopes, prefabricated components and post tensioned systems.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
McMillian - North Clear Well, Washington Aqueduct	2017	2018-2019
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm a. The project included placement of a reinforced concrete slab connected to 264 columns and sidewalls. Complicating the design was the feature that none of the existing structure contained reinforcing steel. The weight of the roof structure became critical forcing use of a lightweight "green roof" design. Mr. Walters provided design analysis on the slab as well as several structural steel hatches; specification support for the concrete and structural steel portions and shop drawing review of structural elements of the design.		
Third High Reservoir Maintenance and Improvements United States Army Corps of Engineers, Washington D.C.	2018	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm b. This project consisted of the detailed design of maintenance and improvement work to an underground 20 MG Reservoir built in the 1950s. Mr. Walters provided design and specifications for a pressurized concrete discharge structure on a 24inch drain line for the 3rd High Reservoir. Provided design and specifications for a concrete two chamber structure that will provide an air-gap in the 24inch drain line. Designed and specified the thrust block for the 24inch drain line.		
Hialeah Preston GWUDI Upgrades WTP and NW Wellfields, MDWASD, FL	2012	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm c. Mr. Walters was responsible for structural analysis and design of accessory structures including but not limited to: Thrust Blocks, manholes, valve wells, hold downs for 96" diameter raw water pipe, access ramps, retaining walls and connection of new 96" diameter raw water pipe to existing reservoir along with foundation system for every structure previously mentioned.		
Springtree Water Treatment Plant Improvements, City of Sunrise, FL	2012	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm d. As Structural Engineer, Mr. Walters was responsible for structural analysis and design of the "Tank Scavenger & Pumps Foundation Pad".		
12-story Office Building, Coral Gables, Florida	2012	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm e. Mr. Walters performed inspections as the Threshold Inspector's Representative for concrete and steel structures with envelopes of conventional masonry walls and special curtain walls, as well as construction phase structural Special Inspections required by the Building Departments. Our duties also included solution of construction phase issues such as review of Contractor Requests for Information (RFI) and review and approval of Shop Drawings.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Collin A. Taylor, LEED GA, Env Sp	13. ROLE IN THIS CONTRACT Environmental Scientist	14. YEARS EXPERIENCE	
		a. TOTAL 4	b. WITH CURRENT FIRM 1

15. FIRM NAME AND LOCATION *(City and State)*

Nova Consulting, Inc., Miami, FL

16. EDUCATION *(Degree and Specialization)*

BA / Physics, Minor: Chemistry

17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*

Envision Sustainability Professional (ENV SP.)

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Mr. Taylor, a Envision Sustainability Professional, has three years of experience working in the environmental engineering field which included environmental site assessments, environmental compliance review, subsurface investigation oversight, soil/groundwater/surface water sampling, and technical report writing.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> Newtown Creek Superfund Site, Gowanus Canal Superfund Site, Department of Environmental Protection, New York City, NY	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

a. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
As Staff Environmental Scientist, Mr. Taylor provided environmental consulting expertise on hazardous remediation sites for the NYCDEP. Sites include Newtown Creek Superfund Site, Gowanus Canal Superfund Site, and NYC waterbody reference areas. His primary objective on these Superfund sites has been to determine the fate and transport of NAPL - Oil, Gasoline, and Petroleum products, and to delineate its industrial sources. A forensic approach is applied to the analysis of analytical chemistry data. Results and calculations are visualized through various plots and maps in which they compare the contaminants to the industrial history surrounding the waterbodies.

(1) TITLE AND LOCATION <i>(City and State)</i> Newtown Creek, Dutch Kills Wetland Demonstration Project. NYCDEP, New York City, NY	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

b. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
Mr. Taylor provided program oversight along with field inspections for the creation of the tidal wetlands in the Dutch Kills tributary of Newtown Creek. Field information gathered from this resiliency project will be used to design and create future tidal wetlands in other areas of the creek/city.

(1) TITLE AND LOCATION <i>(City and State)</i> Newtown Creek NAPL Delineation Program. NYCDEP, New York City, NY	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

c. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
Mr. Taylor provided program oversight, investigated sediment cores using Laser Induced Fluorescence (LIF) to determine areas with high NAPL content and subsequently collect analytical samples, lead sample management operations, analyzed analytical chemistry data, creating various graphs and contour maps to visualize the extent of NAPL surrounding the creek, and created presentations and reports of findings for NYCDEP & USEPA review.

(1) TITLE AND LOCATION <i>(City and State)</i> Newtown Creek Ebullition Surveying Program. NYCDEP, New York City, NY	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

d. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
Mr. Taylor visually surveyed the Creek in search of ebullition and ebullition facilitated NAPL migration documenting locations, and created maps, presentations, and reports to provide to NYCDEP for further proposed investigation.

(1) TITLE AND LOCATION <i>(City and State)</i> Gowanus Canal Pre-Design Investigation Program. NYCDEP, New York City, NY	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

e. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
Mr. Taylor provided program oversight, investigated soil boring cores and collected soil samples, monitored groundwater wells and collected samples, lead sample management operations, and analyzed analytical chemistry data.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Saksham Gupta, EIT, CAPM, LEED GA	13. ROLE IN THIS CONTRACT Environmental Engineer	14. YEARS EXPERIENCE	
		a. TOTAL <1	b. WITH CURRENT FIRM <1

15. FIRM NAME AND LOCATION *(City and State)*
Nova Consulting, Inc., Miami, FL

16. EDUCATION <i>(Degree and Specialization)</i> ME / Construction Engineering and Management Bachelor of Technology / Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Engineer-in-Training, TX PMI - Certified Associate in Project Management CMAA - Construction-Manager-in-Training LEED Green Associate OSHA 40-Hr. HAZWOPER OSHA 30-Hr. Construction
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Mr. Gupta is a recent graduate student from Texas A&M University with specialization in Construction Engineering and Management. His areas of expertise include performing opportunity shaping, cost estimating, scheduling, system modeling and risk analysis. In addition, Mr. Gupta has worked on operations research and is competent in dealing with big data from mining to cleaning to normalization to drawing useful insights using strategic data analytics.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> Ocean Outfall Legislation Project, Miami-Dade Water & Sewer Department, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

a. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
Mr. Gupta is working on the Pump Station Optimization Program (PSOP) with the intent of evaluating the effectiveness of real time controls to manage the available in-line storage capacity within a pump station basin and minimize the rain-developed Infiltration and Inflows (RDII). Mr. Gupta was deeply involved in extracting Rainfall Data, Groundwater Well Level Data, pressure and span to compute the pump flows and pumping rates for 8 pumps that are a part of Pilot Test Plan of PSOP. He generates hydrographs and identifies the characteristic signature patterns that are an indication of station being impacted by RDII.

(1) TITLE AND LOCATION <i>(City and State)</i> Comprehensive Everglades Restoration Plan, C-44 Reservoir/STA, South Florida Water Management District, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

b. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
As part of CERP, this project involves the construction and operation of C-44 reservoir and stormwater treatment areas, a 12,000-acre site with the objective of regulating the timing and nutrient reduction being delivered to the Indian River Lagoon estuary. Mr. Gupta assisted with the scheduling by performing multiple iterations in Primavera P6 in order to determine the ideal number of crews of each type that should be leveraged to optimize both schedule and cost.

(1) TITLE AND LOCATION <i>(City and State)</i> Design Services for Gravity Sewer along NW 27th Ave.- Basin D2-A-1, Miami Dade Water & Sewer, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

c. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
Nova provided engineering services in connection with the design, permitting, regulatory/utility coordination, bid phase services and engineering services during construction for the proposed new gravity mains associated with sub-basin D2-A-1. The scope of this project included a plan to extend sewer services to commercial and industrial parcels within the County's Commission Districts. Mr. Gupta was Staff Engineer for the 90% design submittal.

(1) TITLE AND LOCATION <i>(City and State)</i> City of Houston, TX – Department of Public Works, Houston, TX	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(If applicable)</i> N/A

d. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
Mr. Gupta was a part of staff augmentation that was brought to the City of Houston during his internship and co-op with FCM Engineers in Houston, TX. He was a part of Project Management and Inspection with the City of Houston's Storm Water Maintenance Branch. In this role, he was responsible for handling 3 contracts worth \$9 million for maintenance projects ranging from roadside ditch to off-road ditch to outfall repair. He performed bid analysis, scheduling and documentation control before providing field inspection services.

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>

e. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Catalina Lopez Velandia, EI, MSc	13. ROLE IN THIS CONTRACT Water/Wastewater Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 6	b. WITH CURRENT FIRM <1
15. FIRM NAME AND LOCATION <i>(City and State)</i> Nova Consulting, Inc., Miami, FL			
16. EDUCATION <i>(Degree and Specialization)</i> MS / Environmental Engineering BS / Environmental Engineering BS / Chemical Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Ms. Lopez Velandia has over 6 years of experience in hydraulic and hydrological modeling projects. She has performed work associated with water distribution system modeling, master planning, asset management, wastewater collection systems and water resources engineering. Her experience includes moderate to complex water/wastewater systems evaluation, system planning, design, hydraulic modeling, and data analysis.			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> Sanitary Sewer Overflow Consent Order, City of Fort Lauderdale Public Works Department – Fort Lauderdale, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE a. As part of the City of Fort Lauderdale Sanitary Sewer Overflow Consent Order (CO), Ms. Lopez Velandia was responsible for the model development, maintenance, update and calibration of Wastewater Transmission System (force main) model (using the InfoWater modeling software), and development of gravity sewer models (using the InfoSWMM modeling software). The force main and gravity models were developed to perform Capacity Evaluation of the system and to identify any assets with insufficient capacity for current and known projected demands over the next 10 years		
<input type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION <i>(City and State)</i> Ocean Outfall Legislation Project, Condition Assessment of Major Pump Stations (PS001 and PS002), Miami-Dade Water & Sewer Department, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE b. The Ocean Outfall Legislation (OOL) Program is a \$3.3 billion Miami-Dade Water & Sewer project, Ms. Lopez Velandia performed condition assessment to the major pump stations in the Central-East MDWASD service area to provide alternatives on how to: address capacity related deficiencies identified during the evaluation, improve the conveyance system reliability and provide operational flexibility to the major system components. The Central-East service area is a key part of Miami due to their population density and ongoing and proposed development.		
<input type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION <i>(City and State)</i> Ocean Outfall Legislation Project, North District Wastewater Treatment Plant Conceptual Design Report, Miami-Dade Water & Sewer Department, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE c. Ms. Lopez Velandia managed project delivery and task completion of the North District Wastewater Treatment Plant (NDWWTP) High Level Disinfection (HLD) Conceptual Design Report (CDR). Ms. Lopez Velandia managed client communications, performed task coordination and workshop presentations. Ms. Lopez Velandia coordinated the design of Injection Well Pump Station (IWPS), yard piping, site civil and stormwater for the new HLD facility. Ms. Lopez Velandia performed assessment of process/mechanical for the <u>sludge transfer pumping system and evaluation of long-term solutions to sludge transfer issues</u>		
<input type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION <i>(City and State)</i> Regional Fats Oils and Grease (FOG) Facility at the South District Wastewater Treatment Plant (SDWWTP), Miami-Dade Water & Sewer Department, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE d. As part of the design of the Fats Oils and Grease (FOG) Facility at the South District Wastewater Treatment Plant (SDWWTP), Ms. Lopez Velandia identified and documented the regulatory requirements associated with construction and operation of the new FOG Facility a. As part of this task, Ms. Lopez Velandia supported the design team and performed data processing for FOG characterization.		
<input type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION <i>(City and State)</i> Miami-Dade Water and Sewer Comprehensive Master Plan Evaluation, Water Distribution Analysis, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE e. Ms. Lopez Velandia performed hydraulic analyses of water distribution system alternatives. These analyses, which were carried out using the countywide InfoWater hydraulic model, also supported asset management and other capital improvement projects and operational evaluations related to drinking water system. Duties included updating the computerized hydraulic model; water needs analysis and deficiency analyses.		
<input type="checkbox"/> Check if project performed with current firm		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Cynthia Estivil, EIT	13. ROLE IN THIS CONTRACT Civil Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 3	b. WITH CURRENT FIRM 2
15. FIRM NAME AND LOCATION <i>(City and State)</i> Nova Consulting, Inc., Miami, FL			
16. EDUCATION <i>(Degree and Specialization)</i> BS, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Engineer in Training, FL # 1100020826	

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Ms. Estivil has over 2 years of experience assisting with project reports, documentation and review.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Ocean Outfall Legislation Project, Miami-Dade Water & Sewer Department, Miami, FL	Ongoing	N/A
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The Ocean Outfall Legislation (OOL) Program is a \$3.3 billion Miami-Dade Water & Sewer project, as part of its Capital Improvement Plan. The 11 year-OOL Program aims to stop all wastewater discharge to the ocean by 2025, by improvements to the current system and through rerouting flows to a new membrane bioreactor treatment plant. Nova is assisting with the design, procurement, construction, and commissioning of an estimated 28 capital projects throughout the county. Ms. Estivil assisted with the preparation of the conceptual design report for TA 4 which involved 3 new sewer transmission mains associated with the OOL projects SI-2, SI-3A, and SI-3B.		
Comprehensive Everglades Restoration Plan, C-44 Reservoir/STA, South Florida Water Management District, Miami, FL	Ongoing	N/A
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE As part of CERP, this project involves the construction and operation of C-44 reservoir and stormwater treatment areas, a 12,000-acre site with the objective of regulating the timing and nutrient reduction being delivered to the Indian River Lagoon estuary. Ms. Estivil assisted with the preparation of the Health and Safety Plan (HASP).		
Design Services for Gravity Sewer, Miami-Dade Water & Sewer Department, Miami, FL	2017	N/A
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Nova assisted MDWASD with the professional engineering services in connection with the design, permitting, regulatory/utility coordination, bid phase services and engineering services during construction for the proposed new gravity mains associated with sub-basin D2-A-1. The scope of this project included a plan to extend sewer services to commercial and industrial parcels within the County's Commission Districts.		
Marine Infrastructure Program at Port Everglades, Broward County Port Everglades Department, FL	Ongoing	N/A
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Broward County's Port Everglades Department is implementing a Marine Infrastructure Program (MIP). Services include evaluation, management, assistance, and oversight of multiple design and construction contracts which include assistance with procurement functions, agenda preparation, cost estimates, scheduling, pre-construction services, construction administration, document control, site visits, and review and approval of record drawings, as-built drawings in AutoCAD, review and approve pay applications for earned value and contract compliance. Ms. Estivil assisted with scheduling on this program.		
McMillan Plant North Clearwell Maintenance and Improvements United States Army Corps of Engineers, Washington D.C.	2017	N/A
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This project consists of the detailed design of maintenance and improvement work to an underground 20 MG Clearwell built in 1904. As prime consultant, Nova was responsible for the overall design including repairs to the unreinforced concrete clearwell structure, replacement and upgrades to mechanical devices. Ms. Estivil assisted with reviewing the PDR, compiling and reviewing Specifications, Design Plans Review and preparing the project Price Schedule.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Stewart Fiskén, EIT	13. ROLE IN THIS CONTRACT Civil Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 4	b. WITH CURRENT FIRM 4

15. FIRM NAME AND LOCATION *(City and State)*
Nova Consulting, Inc., Miami, FL

16. EDUCATION <i>(Degree and Specialization)</i> MS / Sustainable Environmental Systems BS / Environmental Engineering	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> OSHA 40-Hr. HAZWOPER OSHA 10-Hr. Construction Program Confined Space Entry Workzone Flagger Training PADI Certified
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Mr. Fiskén's experience encompasses projects in civil and environmental engineering that involves design and construction cost estimation, environmental site assessments, soil/groundwater/surface water sampling, subsurface investigations, environmental compliance review, construction management inspections, office engineering, and green infrastructure design projects.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> Maybrook Trailway, New York Empire State, NY	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2020	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm a. Metro-North Railroad will design and construct approximately eighteen (18) miles of trail along Metro-North Railroad's Beacon Line. In this project, Nova has been tasked to perform field wetlands survey necessary to locate all Federal and State delineated wetland boundaries within the project limits, perform the habitat study to identify sensitive areas on the survey, provide environmental permit management and perform environmental construction oversight. Mr. Fiskén was Sr. Staff Engineer.		
(1) TITLE AND LOCATION <i>(City and State)</i> Catskill Aqueduct Roundout-West Branch Tunnel (RWBT) Shutdown, NYCDEP, NY	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm b. As part of the Water for the Future Program, during the RWBT shutdown, the Catskill Aqueduct becomes the only supply option for delivering Delaware system water across the Hudson River. Serving as Civil Inspector, Mr. Fiskén was tasked with condition assessment of the leaks along the full distance of the Catskill Aqueduct between the Ashokan and Kensico Reservoirs and to identify the structural deficiencies prior to the RWBT shutdown.		
(1) TITLE AND LOCATION <i>(City and State)</i> Gowanus Canal / Newtown Creek Superfund Site Investigation, NYCDEP, NY.	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm c. The Newtown Creek Superfund site is a 3.8-mile long tidal water body, located in New York City and is a tributary of the East River. Current field investigations include the oversight of an ebullition study in Newtown Creek, which measures the role of this process in moving contamination within the creek. As Environmental Engineer, Mr. Fiskén provided ebullition study support in Newtown Creek, as well as performed combined sewer overflow sampling services which included the mobilization/demobilization of sampling equipment, water sampling during wet weather events, data recording, and sample management.		
(1) TITLE AND LOCATION <i>(City and State)</i> Combined Sewer Overflow Long Term Control Plan II, NYCDEP, NY	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm d. This project is part of the city's extensive, multi-phase approach to control combined sewer overflow discharge - ten (10) water-body specific plans and one citywide long-term control plan are being developed. As Field Engineer, Mr. Fiskén performed water quality sampling during dry/wet weather events at CSO regulators citywide and open-water sampling all the water-bodies in which CSO discharges to after a storm event.		
(1) TITLE AND LOCATION <i>(City and State)</i> Total Residual Chlorine Ambient Sampling, NYCDEP, NY	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm e. This NYCDEP water quality project involves conducting total residual chlorine ambient sampling near effluent outfall locations at the city's wastewater treatment plants. Stewart was tasked with the field sampling and analysis plan through water sample collection and management.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Alexander Yu, EIT	13. ROLE IN THIS CONTRACT Civil/Drainage Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 11	b. WITH CURRENT FIRM 11

15. FIRM NAME AND LOCATION *(City and State)*
Nova Consulting, Inc., Miami, FL

16. EDUCATION *(Degree and Specialization)*
BS / Civil Engineering

17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*
Fundamentals of Engineering (EIT)
OSHA 40-Hr. HAZWOPER
OSHA 10-Hr. Construction Industrial Outreach
OSHA 8-Hr. Confined Space Entry
FL Stormwater Erosion & Sedimentation Inspector

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Alex has over 10 years of experience on civil, environmental, and construction management projects. He has been involved with numerous public works projects specializing in drainage design and urban stormwater management, transportation, environmental remediation and compliance, resiliency assessment, and green infrastructure studies and implementation.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Ludlam Trail Project, Miami Dade County Regulatory and Economic Resources Department (RER), Miami, FL	Ongoing	N/A
<p>a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm</p> <p>RER retained Nova's engineering services to analyze conceptual solutions in connection with stormwater management and drainage of the Ludlam Trail between NW 12th Street and Dadeland Mall North, where soil was found to be contaminated. The Ludlam Trail is a key part of Miami-Dade County's plan to create a 225-mile trail network. As Cost Engineer, Mr. Yu prepared an ACEi Class 4 opinion of probable construction cost (OPCC) that served as basis for estimating the expected costs associated with the remediation of the contamination identified in the trail corridor.</p>		
N.W. 116th Way Bridge Rehabilitation, Town of Medley, FL	12/2010	N/A
<p>b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm</p> <p>Nova was tasked with preparing a competitive Technical and Guaranteed Maximum Price (GMP) Proposal for maintenance repairs to the N.W. 116th Way Bridge. Mr. Yu's responsibilities included preparation of a Maintenance of Traffic (MOT) plan, preparation of the GMP Proposal Package, and preparation of a cost estimating for the MOT plan and cost for retrofitting the bridge's deck, abutments, approach slabs, and railings.</p>		
MIA Concourse F Modernization, Miami Dade Aviation Department, Miami, FL	Ongoing	N/A
<p>c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm</p> <p>In advance of the Central Terminal Redevelopment Program, Nova has been tasked to support in the preparation of the project book to provide general guidance and assist the A/E Design Consultant in understanding the disposition of existing airfield infrastructure and suggested layout of new systems. As Project Engineer, Mr. Yu reviewed and identified applicable codes and requirements, performed utility gap analysis, supervised the preparation of the project book, and performed QA/QC on the Rough Order of Magnitude Estimate.</p>		
LEED Certified - Automated People Mover (APM) System, Miami-Dade Aviation Department, Miami, FL	2011	N/A
<p>d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm</p> <p>Nova's drainage related tasks include evaluating the impacts to the existing drainage system as a result of constructing the MIA Mover, determining the appropriate means of connecting to the existing system, and designing the new guide way deck drainage system. Mr. Yu's responsibilities included permitting and the storm drainage design calculations using the Interconnected Pond Routing (ICPR) and specification of BMPs to mitigate the effects of the net increased flow on the existing drainage system caused by the construction of the MIA Mover's guide way.</p>		
Central District Wastewater Treatment Plant – Stormwater Pumping System Evaluation, Miami-Dade Water & Sewer Department, Miami, FL	2010	N/A
<p>e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm</p> <p>Nova was tasked with modeling of the existing stormwater system. Project tasks included field and desktop survey to determine the existing stormwater pump station system capacity based on available information, such as, storm drainage areas or basins, pump types, wet well dimensions, inlet elevations and pump station configurations. As Project Engineer, Mr. Yu's responsibilities included pre-paring and running the hydraulic ICPR model and corresponding results report.</p>		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Bryan Moreno, EIT	13. ROLE IN THIS CONTRACT Construction Manager	14. YEARS EXPERIENCE	
		a. TOTAL 5	b. WITH CURRENT FIRM 3
15. FIRM NAME AND LOCATION <i>(City and State)</i> Nova Consulting, Inc., Miami, FL			
16. EDUCATION <i>(Degree and Specialization)</i> BS / Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Florida / Engineer in Training	

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Mr. Moreno's experience involves civil engineering and construction management for public works projects. On these projects, Mr. Moreno has been involved with field inspection, utility data collection, design assistance, cost estimating, scheduling and overall engineering and construction management support.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> Pump Station Improvement Program, Miami-Dade Water & Sewer Department, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Under the terms of a consent decree, Miami-Dade will rehabilitate its wastewater treatment plants and its sewer collection and transmission system. Nova was selected to administer and manage the implementation of the PSIP to ensure timely repair of these upgrades. Mr. Moreno has worked on implementation of a construction information system through eBuilder implementation.		
(1) TITLE AND LOCATION <i>(City and State)</i> Environmental Cleanup and Compliance Services, Miami-Dade County Regulatory and Economic Resources, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Engineer. As Prime Consultant, Nova is providing Miami Dade County Department of Regulatory and Economic Resources (RER) environmental related services in connection with various project initiatives throughout the County.		
(1) TITLE AND LOCATION <i>(City and State)</i> 60-Inch Force Main Installation under Government Cut Channel, Miami-Dade Water & Sewer Department, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm This project involves the replacement of an existing 54-inch force with a 60-inch force main from the Central District Wastewater Treatment Plant under Biscayne Bay Norris Cut to Fisher Island. Design-Build services include planning, engineering, design, permitting, procurement, construction / installation, testing and startup of a new 60-inch replacement force main. As Field Inspection Representative, Mr. Moreno is responsible for inspection of construction activities, documentation, and daily inspection reports.		
(1) TITLE AND LOCATION <i>(City and State)</i> 60-Inch Force Main Installation under Norris Cut Channel, Miami-Dade Water & Sewer Department, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm This project involved the replacement of a 54-inch force main with a 60-inch force main, in preparation of the Federal Navigational Dredging Project; which proposes to widen and deepen the channel to increase the PortMiami's capacity. The force main replacement was successfully installed via a 72-inch diameter micro-tunnel. Mr. Moreno served as Construction Field Inspector; monitored construction activity, provided documentation, and prepared daily inspection report.		
(1) TITLE AND LOCATION <i>(City and State)</i> Pump Station Rehabilitations, Broward County Water & Wastewater Services, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm This project involves the rehabilitation of lift stations 24E1, 22, 30E, and 50K2. Nova is assisting in preliminary and final design services which include site investigations, design documents consisting of technical specifications, construction drawings, construction cost estimates, and permitting. Assistant Engineer responsible design calculations; wet well sizing, pump sizing, by-pass pumps sizing, CAD drawings, permitting, and cost estimating (OPCC).		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Jesus Misas, EIT	13. ROLE IN THIS CONTRACT Construction Manager	14. YEARS EXPERIENCE	
		a. TOTAL 16	b. WITH CURRENT FIRM 11

15. FIRM NAME AND LOCATION *(City and State)*
Nova Consulting, Inc., Miami, FL

16. EDUCATION <i>(Degree and Specialization)</i> BS / Mechanical Engineering	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Mr. Misas has over 16 years of experience in construction engineering and inspection for municipal environmental and infrastructure projects. He has been responsible for construction inspection, on-site coordination, geotechnical oversight, site investigations, scheduling, review of site plans and specifications, and overall construction and environmental safety. e has extensive experience with regulatory compliance and permitting; site investigation and remediation; and field sampling and monitoring including, soil, groundwater, and air.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> S46 Tailwater Weir and Gate Replacement, South Florida Water Management District, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(If applicable)</i> N/A

a. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
This project consisted of the construction of rip-rap rehab with marine mattress, construction of a steel sheet pile weir downstream of the S46 structure, replacement of 846 vertical lift control gates with new stainless-steel gates and blast cleaning and hot dip galvanizing of the removable, steel framed gate hoist platforms and coating of upstream sheet pile. As Construction Inspector, Mr. Misas provided on-site representation to observe and document construction activities; inspection work progress to ensure contract documents and applicable permits were being met and logging daily construction documentation into Primavera Expedition.

(1) TITLE AND LOCATION <i>(City and State)</i> Westside Water Main Improvements at Ft.-Lauderdale Hollywood International Airport, Broward County Aviation Department, Fort Lauderdale, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION <i>(If applicable)</i> N/A

b. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
This project consisted of the construction and installation of a portable water transmission. As Resident Engineer, Mr. Misas was responsible for coordination and management of construction activities, compliance with contract documents, inspections during construction, shop drawing review, and schedule analysis.

(1) TITLE AND LOCATION <i>(City and State)</i> Eastside Water Main Improvements at Ft.-Lauderdale Hollywood International Airport, Broward County Aviation Department, Fort Lauderdale, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If applicable)</i> N/A

c. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
This project consisted of the construction and installation of a portable water transmission along the eastside portion of the Ft. Lauderdale Hollywood International Airport. As Resident Engineer, Mr. Misas was responsible for coordination and management of construction activities, compliance with contract documents, inspections during construction, shop drawing review, and schedule analysis.

(1) TITLE AND LOCATION <i>(City and State)</i> B-66 Tower and Shelter Replacement, South Florida Water Management District, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If applicable)</i> N/A

d. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
This project included the replacement of existing B-66 Telemetry and Communication Tower, Communication Equipment Building, and B-332 Generator Building at District Headquarters in Palm Beach County. As construction inspector, Mr. Misas prepared daily reports, performed quality assurance construction reviews, monitoring adherence to construction permitting conditions, addressing construction activities with stakeholders, preparing construction meeting reports, reviewing contractor applications and change orders, attending weekly construction progress meetings and oversaw all mechanical and electrical project activities.

(1) TITLE AND LOCATION <i>(City and State)</i> Taxiway Papa at North Perry Airport, Broward County Aviation Department, Fort Lauderdale, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If applicable)</i> N/A

e. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
This project involves the rehabilitation of Taxiway Papa; construction comprises of milling, resurfacing, paving, marking, and taxiway lighting. Mr. Misas served as Resident Project Representative, reviewing the contractor's performance/quality of work, mitigating variance or delays that may arise, and overall quality control during construction activities.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Eduardo A. Guillen	13. ROLE IN THIS CONTRACT Structural Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 4	b. WITH CURRENT FIRM <1

15. FIRM NAME AND LOCATION *(City and State)*
Nova Consulting, Inc., Miami, FL

16. EDUCATION <i>(Degree and Specialization)</i> MCE / Civil Engineering - Structural Engineering BS / Civil Engineering BS / Physics	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Mr. Guillen has experience in the fields of civil engineering, structural engineering, water resources, and construction management. His office engineering experience includes reading plans and specifications and drafting construction field reports, generating field assessment reports, document control, revising site drawings and researching permits and regulations and environmental report writing.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> Fort Lauderdale International Airport Expansion Project, Broward County Aviation Department, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm As part of the Program Management team, Nova is currently working on the Runway 10R-28L design/construction and the Terminal 4 Gate Replacement Project. Specific services include project management, construction management, program controls and reporting, and document control. Mr. Guillen serves as Staff Engineer providing program management support for the Terminal 4 Apron construction project.		
(1) TITLE AND LOCATION <i>(City and State)</i> Broward County Aviation Department (BCAD) – FLL Remote Five-Gate Concourse, Fort Lauderdale/Hollywood International Airport, Broward County	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm The Remote Five-Gate Concourse (RGC) is intended to provide five narrow-body aircraft gates, apron, and associated boarding/deplaning facilities. The RGC will be a permanent construction that may be converted into other uses/functional purposes in the longer-term future. Nova was tasked with professional civil engineering services to refine the preferred concept by providing estimate of program costs. Mr. Guillen is Staff Engineer.		
(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i> N/A
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i> N/A
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i> N/A
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME M. Jacqueline Pape, EI	13. ROLE IN THIS CONTRACT Water/Wastewater Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 1	b. WITH CURRENT FIRM <1
15. FIRM NAME AND LOCATION <i>(City and State)</i> Nova Consulting, Inc., Miami, FL			
16. EDUCATION <i>(Degree and Specialization)</i> BS / Mechanical Engineering and Applied Physics		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Licensed Engineer Intern, FL (1100022210)	

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Ms. Pape has 1 year of experience in the fields of civil engineering and mechanical engineering.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a. Design of New Duplex Pump Station, Miami-Dade Water & Sewer Department, Miami, FL	Ongoing	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Nova assisted MDWASD with the professional engineering services in connection with the design, permitting, regulatory/utility coordination, bid phase services and engineering services during construction for the proposed new pump station associated with sub basin D2-C-2. Ms. Pape's role was to assist in the design of a new duplex 45 HP pump station, including sizing the pump, and preparing the Engineering Report, the specifications, and the permit applications.		
b. Design of Gravity Sewer NW 27th Avenue, Miami-Dade Water & Sewer Department, Miami, FL	Ongoing	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Nova assisted MDWASD with the professional engineering services in connection with the design, permitting, regulatory/utility coordination, bid phase services and engineering services during construction for the proposed new sanitary sewer along NW 27th Avenue. The scope of this project included the design of approximately 8,660 linear feet of a new gravity system with PVC pipes ranging from 8 to 18 inches in diameter. Ms. Pape's role was to write the specifications and prepare the permit applications.		
c. City of Fort Lauderdale Sewer System Hydraulic Modeling and Capacity Evaluation, Hollywood, FL	Ongoing	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Nova is assisting Hazen and Sawyer with the professional engineering services to develop the sewer system hydraulic model and perform a capacity evaluation of the system. Ms. Pape's role is to run the hydraulic model of the sewer system in InfoWater under different conditions, and develop custom applications in Excel VBA to analyze the data produced from the model under each scenario to evaluate the capacity of the existing system.		
d. Septic Tank Elimination Program Davis Isles, Broward County Water and Wastewater Services, Pompano Beach, FL	Ongoing	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm The scope of this project included the design of approximately 3,000 linear feet of a new 8-inch gravity sewer main, a new lift station, a 6-inch force main to connect to an existing county force main on Griffin Road, and approximately 3,000 feet of replacement 8-inch potable water main. Ms. Pape's role was to write the specifications and prepare the permit applications for this project.		
e. TA 22 Site Civil Design and Sludge Transfer Pump Station Capacity Evaluation, Miami-Dade Water & Sewer Department, Miami, FL	Ongoing	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm This consisted of professional engineering services in connection with the conceptual design of yard piping and site civil for the new high-level disinfection facilities at the North District Wastewater Treatment plant, and with a capacity analysis of the sludge transfer pump station. Ms. Pape's role was to assist in the sizing of the proposed 2,200 LF of 60-inch process pipe, the water and sewer utilities, the development of the conceptual layout for the 27-acre site including access roads and grading, capacity evaluation of the sludge transfer pump station using historical SCADA data, and preparing the draft and final Conceptual Design Reports.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Nikitha Shamirpet	13. ROLE IN THIS CONTRACT Civil/Environmental Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 1	b. WITH CURRENT FIRM <1

15. FIRM NAME AND LOCATION *(City and State)*
Nova Consulting, Inc., Miami, FL

16. EDUCATION <i>(Degree and Specialization)</i> MS / Environmental Engineering BS / Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Ms. Shamirpet has over one year of experience in the design engineering and consulting within the water & wastewater industry.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> Ocean Outfall Legislation Program, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

a. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
Analyzed flows and assisted in computing design calculations and drafting conceptual design report for injection well and sludge transfer pump stations for the new High-Level Disinfection Facility at North District Waste Water Treatment Plant. Developed drawings for the proposed facilities which helps the Miami Dade County Water & Sewer District understand the scope of constructability.

(1) TITLE AND LOCATION <i>(City and State)</i> Pump Station Improvement Program (PSIP) Miami Dade Water & Sewer Department, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

b. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
Environmental Engineer. The Pump Station Improvement Program consists of managing these upgrades to Miami-Dade Water and Sewer Department's Wastewater Collection and Transmission System that includes sanitary sewer collection systems, pump stations, and force mains. As per USEPA standards, all the pump stations will be certified as capable of meeting a nominal average pump operating time of less than 10 hours per day.

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i> N/A

c. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i> N/A

d. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i> N/A

e. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Dulyma Stella Kern	13. ROLE IN THIS CONTRACT Civil Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 10	b. WITH CURRENT FIRM 1

15. FIRM NAME AND LOCATION *(City and State)*
Nova Consulting, Inc., Miami, FL

16. EDUCATION <i>(Degree and Specialization)</i> BS / Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> FDOT - MOT - Temporary Traffic Control Intermediate
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Ms. Kern's experience involves civil engineering and construction engineering and field operations supervisor for public works projects. On these projects, Ms. Kern has been involved with field inspection, utility data collection, design assistance, cost estimating, scheduling and overall engineering and construction management support.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> Design Services for Gravity Sewer along NW 27th Ave.- Basin D2-A-1, Miami Dade Water & Sewer, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

a. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
Nova assisted MDWASD with the professional engineering services in connection with the design, permitting, regulatory/utility coordination, bid phase services and engineering services during construction for the proposed new gravity mains associated with sub-basin D2-A-1. The scope of this project included a plan to extend sewer services to commercial and industrial parcels within the County's Commission Districts. Ms. Kern provided design engineering and MOT for the 8,600 ft-sewer project.

(1) TITLE AND LOCATION <i>(City and State)</i> Master Pump Stations 224 and 226 Improvements, Broward County Water & Wastewater Services, Fort Lauderdale, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

b. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
Repairs involve well rehabilitation, replacement of piping, pumps, panels, electrical valves, and hatches. Nova is handling all phases of the design for these projects, including preliminary site/utility investigations, process mechanical design, pre-bid permitting with the Florida Department of Environmental Protection and Broward County Environmental Projection Department, and bidding and award services. Ms. Kern is Project Engineer in charge of shop drawing review and permitting.

(1) TITLE AND LOCATION <i>(City and State)</i> Cruise Terminal A 12" Waterline Loop, PortMiami, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

c. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
Nova conducted site visits to confirm that field conditions are accurately represented by the survey and as-builts. Any discrepancies found between observed conditions and said documents shall be brought to the attention of PortMiami for further surveying and utility investigation. Created digital base map of existing condition within the project area in AutoCAD format depicting existing topographic and subsurface utility features. Ms. Kern is Project Engineer in charge of design change order requests, shop drawing review and permitting.

(1) TITLE AND LOCATION <i>(City and State)</i> Third High Reservoir Maintenance and Improvements, US Army Corps of Engineers, Washington Aqueduct	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

d. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
Nova is tasked with the design of rehabilitation improvements to the Third High Reservoir. This work includes replacement of all valves, new control rooms, and an air gap, that will bring the facility into EPA compliance. Ms. Kern as Project Engineer assisted the Nova design team with specification development and design review.

(1) TITLE AND LOCATION <i>(City and State)</i> BCWWS Septic Tank Conversion Project, Fort Lauderdale, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

e. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
Broward County in an effort to accommodate a commercial development, requested Nova fast track the design for the Area 2G Project. A key feature for this project was Maintenance of Traffic. The project involved design and installation of new water lines and gravity sewer lines, including new sewer laterals that will provide for the septic tank elimination. At the conclusion of the project, the road will be milled and overlaid. Ms. Kern provided Design engineering, MOT, Permitting and Construction Management.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Maya Compton-Grant	13. ROLE IN THIS CONTRACT Sr. Environmental Scientist	14. YEARS EXPERIENCE	
		a. TOTAL 16	b. WITH CURRENT FIRM 10

15. FIRM NAME AND LOCATION *(City and State)*
Nova Consulting, Inc., Miami, FL

16. EDUCATION <i>(Degree and Specialization)</i> MA / Marine Affairs BS / Marine Biology	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Ms. Compton-Grant brings more than 13 years of experience in the environmental field on projects ranging from transportation and aviation to water and waste management. She specializes in field supervision and investigations, groundwater and soil sampling, environmental assessment plans and reports, remedial action work plans, and permitting. Having worked on numerous infrastructure projects throughout Miami Dade County, Ms. Compton-Grant is familiar with the procedural and regulatory requirements.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> Contamination Assessment and Remediation Services (CAR)Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION <i>(If applicable)</i> N/A

a. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
This CAR services contracts requires contamination assessment and remediation services on an as-needed basis for various FDOT projects. As Environmental Scientist, Ms. Compton-Grant has been involved in the preparation of environmental site assessment reports, soil and groundwater sampling, and environmental oversight during construction.

(1) TITLE AND LOCATION <i>(City and State)</i> Environmental Impact Statement - FLL, Fort Lauderdale, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2008	CONSTRUCTION <i>(If applicable)</i> N/A

b. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
As Environmental Scientist, Ms. Compton-Grant was responsible for estimating the changes in the solid waste and hazardous waste production (and potential impacts) at the airport based on the proposed airport expansion alternatives.

(1) TITLE AND LOCATION <i>(City and State)</i> Environmental Cleanup and Compliance, Miami Dade RER, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2008	CONSTRUCTION <i>(If applicable)</i> N/A

c. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
As Prime Consultant, Nova is providing environmental related services. As Sr. Environmental Scientist, Ms. Compton-Grant is providing environmental site assessments and groundwater/soil monitoring and sampling.

(1) TITLE AND LOCATION <i>(City and State)</i> Hurricane Irma, Disaster Recovery, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

d. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
Sr. Environmental Scientist. In response to the category 4 hurricane Irma, Nova contracted with Tetra Tech providing oversight for cleanup efforts.

(1) TITLE AND LOCATION <i>(City and State)</i> Contamination Assessment Plans – City of Coral Gables	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2008	CONSTRUCTION <i>(If applicable)</i> N/A

e. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
As Environmental Scientist, Ms. Compton-Grant was responsible for the evaluation, design and implementation of Contamination Assessment Reports, and Tank Closure Assessment Report Addenda.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Julianne E. Cossavella		13. ROLE IN THIS CONTRACT Scientist		14. YEARS EXPERIENCE	
				a. TOTAL 5	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION <i>(City and State)</i> Nova Consulting, Inc., Miami, FL					
16. EDUCATION <i>(Degree and Specialization)</i> MS / Marine Biology and Fisheries			17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> OSHA 40-HR. HAZWOPER SCUBA Certified (SSI)		
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Ms. Cossavella has over 4 years' experience in laboratory research and field investigation and sampling. Her experience in the environmental field includes ecological studies and public projects relating to air quality and water management. These projects have involved field data collection and analysis, report preparation, Phase I and II site assessments and soil/groundwater sampling, permitting, and monitoring well and UST/AST inspections.					

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	Contamination Assessment and Remediation Services (CAR) Miami, FL	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Environmental Scientist. Ms. Cossavella is assisting the Florida Department of Transportation District 6 on a CAR Contract, which consists of contamination assessment and remediation services, on various FDOT project initiatives.		
b.	Evaluation of Resiliency and Adaptation Strategies to Address Sea Level Rise within Miami-Dade County, Arcadis/MDC DERM	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Environmental Scientist. This contract involves the evaluation of future effects of sea level rise on specific aspects of infrastructure in Miami-Dade County. Ms. Cossavella is assisting with providing a technical assessment of potential adaptations and estimated costs for the water supply, stormwater, and wastewater systems in the County.		
c.	MIA, Environmental Sampling & Inspections Program, Miami, FL	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Environmental Technician/Scientist. This contract involves inspections and sampling at various MDAD facilities for regulatory compliance requirements. Ms. Cossavella is providing inspection of UST/AST at MIA facilities, including on-site tanks, and monitoring wells.		
d.	MDC DERM RER, Environmental Cleanup, Miami, FL	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Environmental Scientist. This contract involves providing environmental assessment, cleanup, compliance, and related serviced on a work order basis to DERM. Ms. Cossavella is assisting in completing environmental site assessments, field sampling, and generating reports for various sites around the County.		
e.	City of Miami, Curtis Park Air Monitoring, Miami, FL	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Environmental Technician. Ms. Cossavella provided air quality monitoring during construction to document soil contaminants that may have been released at Curtis Park located at 1901 NW 24th Avenue in Miami.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Leonardo H. Costa		13. ROLE IN THIS CONTRACT Environmental Engineer		14. YEARS EXPERIENCE	
				a. TOTAL <1	b. WITH CURRENT FIRM <1
15. FIRM NAME AND LOCATION <i>(City and State)</i> Nova Consulting, Inc., Miami, FL					
16. EDUCATION <i>(Degree and Specialization)</i> BS in Environmental Engineering			17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> DBHYDRO Certification OSHA 40 Hour HAZWOPER Maintenance of Traffic (MOT) Level: Intermediate Class A/B Operator Underground Storage Tank Training Course		

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Mr. Costa's experience encompasses projects in civil and environmental engineering that involves design and code compliance reviews, environmental assessment, and administrative and technical support in the planning and management of projects.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
EAC/BCAD - Update of Hydraulic Model for FLL, Ft. Lauderdale, FL		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Nova is contracted under an ongoing project to create a Hydraulic Model of the Ft. Lauderdale International Airport sanitary sewer system. Mr. Costa's role is to collect recent data on the sewer system, review as-builts, update old hydraulic model, and add the additional sewer components to ultimately provide an updated model of the system.		<input type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> Miami Dade Aviation Department (MDAD) - Inspection Services and Environmental Oversight, Miami, FL		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Nova is currently providing MDAD with inspection and environmental services for the airports in Miami-Dade County. Mr. Costa's role is to carry out inspections for above and below ground storage tanks and emergency generators.		<input type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> Hazen and Sawyer - Inspection Services for City of Ft. Lauderdale, Ft. Lauderdale, FL		PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If applicable)</i> N/A
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Nova was subcontracted by Hazen and Sawyer to provide qualified individuals to conduct sanitary sewer inspections for the city of Ft. Lauderdale. Mr. Costa's role was to conduct manhole inspections, smoke testing, and surveying in conjunction with the crew from Hazen and Sawyer.		<input type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> Department of Environmental Resource Management (DERM) - Cleanup for Miami Dade County, Miami, FL		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Nova is providing environmental related services in connection with various project initiatives throughout the County. As Assistant Engineer, Mr. Costa is providing support in performing environmental site assessments and/or rehabilitation and related tasks at Miami Dade County owned and operated sites.		<input type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> FDOT- Impact to Construction Assessment for Multiple FDOT Projects/Sites, Miami, FL		PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If applicable)</i> N/A
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE As a Field Engineer, Mr. Costa is assisting the Florida Department of Transportation District 6 on a CAR Contract which consists of contamination assessment and remediation services, as needed on various FDOT project initiatives. Services also include emergency response to incidents involving potentially hazardous materials.		<input type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Colin Adams	13. ROLE IN THIS CONTRACT Field Inspection Representative	14. YEARS EXPERIENCE	
		a. TOTAL 21	b. WITH CURRENT FIRM 4

15. FIRM NAME AND LOCATION *(City and State)*

Nova Consulting, Inc., Miami, FL

16. EDUCATION *(Degree and Specialization)*

N/A

17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*

FDEP, Stormwater Management Inspector
OSHA 40-HR. HAZWOPER
FDOT, Intermediate Maintenance of Traffic Work Zone
Nuclear Gauge Training
FDOT, Earthwork Construction Inspection, Levels I & II
ACI Concrete Field Testing Technician, Level I

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Mr. Adams has over 21 years of experience in construction supervision and construction inspection. His experience has mainly involved earthwork, storm drainage and utility installations, reservoirs, canals, and embankments. He has been responsible for on-site construction inspection, schedule monitoring, oversight, and supervision of all aspects of work from start to completion.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> C-44 Reservoir/STA, Comprehensive Everglades Restoration Plan, South Florida Water Management District, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

a. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

Check if project performed with current firm

The C-44 Reservoir/STA project is a component of the Indian River Lagoon-South (IRL-South) Project under the Comprehensive Everglades Restoration Plan. The C-44 project consists of a reservoir and stormwater treatment areas (STAs) located on an approximately 12,000 acre site. Mr. Adams serves as Construction Field Representative responsible for on-site observations, preparation of daily reports, review of pay applications and QA/QC.

(1) TITLE AND LOCATION <i>(City and State)</i> EAA Reservoir, South Florida Water Management District, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i> N/A

b. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

Check if project performed with current firm

This project is an aboveground reservoir for a 197,000 acre-feet of water storage with a perimeter embankment and seepage canal; a northeast pump station, two (2) gated inlet and discharge structures, one gated outlet structure with spillway and out-flow pump station, to name a few. As Field Inspector, Mr. Adams was responsible for the quality assurance and construction inspection support on behalf of SFWMD; responsible for construction monitoring, preparation of project documentation, project meetings, permitting review, civil and geotechnical inspection, and materials testing.

(1) TITLE AND LOCATION <i>(City and State)</i> C-24 Canal Bank Repair, South Florida Water Management District, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i> N/A

c. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

Check if project performed with current firm

Mr. Adams was the field Inspector responsible for the inspection of canal bank repairs for C-24 Canal between I-95 and Port St. Lucie Blvd. The canal repairs consisted of the removal of existing vegetation, trees and existing berm drains, installation of flexible zinc and PVC coated wire mesh gabions, rubble rip rap and berm drains, sodding, site restoration, and performing another appurtenant and collateral work. His responsibilities included construction oversight through final inspection and acceptance by regulatory agencies.

(1) TITLE AND LOCATION <i>(City and State)</i> Compartment C Build Out, South Florida Water Management District, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

d. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

Check if project performed with current firm

As Earthwork and Dewatering Superintendent, Mr. Adams was responsible for the supervision of earthwork activities including canal excavation, the construction of levee systems, and excavation and dewatering in preparation for construction of water control structures.

(1) TITLE AND LOCATION <i>(City and State)</i> STA5-3 & 6-2 Project, South Florida Water Management District Palm Beach County, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i> N/A

e. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

Check if project performed with current firm

Mr. Adams was the field Inspector responsible for inspection services of canal bank repairs for C-24 Canal between I-95 and Port St. Lucie Blvd. The canal repairs consisted of the removal of existing vegetation, trees and existing berm drains, installation of flexible zinc and PVC coated wire mesh gabions, rubble rip rap and berm drains, sodding, site restoration, and performing another appurtenant and collateral work. His responsibilities included construction oversight through final inspection and acceptance by regulatory agencies.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Rafael Lazo	13. ROLE IN THIS CONTRACT Field Inspection Representative	14. YEARS EXPERIENCE	
		a. TOTAL 27	b. WITH CURRENT FIRM 3

15. FIRM NAME AND LOCATION *(City and State)*
Nova Consulting, Inc., Miami, FL

16. EDUCATION <i>(Degree and Specialization)</i> MS / Civil Engineering BS / Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> MOT Work Zone Traffic Control, Intermediate CTQP Asphalt Paving Technician Level 1 CTQP Earthwork Construction Level 1 FDOT Concrete Field Inspector
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Mr. Lazo has over 27 years of experience providing construction management and inspection on civil infrastructure projects throughout the United States, South America, Africa, and the Caribbean. These projects have involved bridges, roadways, highways, drainage systems, pump stations and a shopping mall. He has provided project supervision, coordination, planning during construction, and civil engineering planning, and field inspections/oversight.

19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION <i>(City and State)</i> Pump Station Improvement Program (PSIP), Miami-Dade Water & Sewer Department, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Under the terms of a consent decree, Miami-Dade will rehabilitate its wastewater treatment plants and its sewer collection and transmission system. Nova was selected to administer and manage the implementation of the PSIP to ensure timely implementation of the upgrades. Mr. Lazo serves as Construction Field representative to inspect the pump stations upgrades, and force mains and gravity lines upgrade/replacement to comply with the plans and specifications and applicable standards.		
b. (1) TITLE AND LOCATION <i>(City and State)</i> Ocean Outfall Legislation Project, Miami-Dade Water & Sewer Department, FL.	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm The Ocean Outfall Legislation Program is a \$3.3 billion program as part of Miami-Dade Water & Sewer's Capital Improvement Plan. The 11 year-OOL Program aims to stop all wastewater discharge into the ocean by 2025. Nova is assisting in the delivery of the program, which includes procurement, design, construction, and commissioning on various projects throughout the county. Mr. Lazo served as Construction Field Representative.		
c. (1) TITLE AND LOCATION <i>(City and State)</i> Sewer Design and Implementation Program, City of Fort Lauderdale, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm As part of a consent order, Nova provided services for the Phase I Infiltration and Inflow Projects for the City of Fort Lauderdale. The Engineering services included, smoke testing, Closed Circuit Television (CCTV) documentation and recommendation, manhole inspections, provided Resident Project representation, as well as QC review. As field inspector, Mr. Lazo collected field measurements and documented the conditions of 1,000 manholes in the City of Fort Lauderdale.		
d. (1) TITLE AND LOCATION <i>(City and State)</i> Relocation Cargo Road, Drainage, Utilities for Canopies & Parking Lot, PortMiami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Mr. Lazo served as Construction Field representative, responsible for on-site observations, preparation of daily reports, and review of contractor's pay applications.		
e. (1) TITLE AND LOCATION <i>(City and State)</i> MIA Taxiway R, S, and T Pavement Rehabilitation, Miami International Airport, Miami Dade Aviation Department, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm The project consisted of value analysis and life cycle costing for airfield improvements to Miami International Airport Taxiways R, S, and T including pavement rehabilitation, runway extension and realignment, taxiway reconfiguration, construction of improved fuel tender parking area, jet fueling facility and other features. Mr. Lazo serves as Construction Field Representative responsible for observing and documenting compliance with plans, specifications and applicable standards.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Frank Bendana	13. ROLE IN THIS CONTRACT Field Inspection Representative	14. YEARS EXPERIENCE	
		a. TOTAL 15	b. WITH CURRENT FIRM 4
15. FIRM NAME AND LOCATION <i>(City and State)</i> Nova Consulting, Inc., Miami, FL			
16. EDUCATION <i>(Degree and Specialization)</i> BS / Architecture Technician in Construction		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> FDOT- TTC Intermediate	

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Mr. Bendana has over 15 years of field experience including overseeing the installation of irrigation systems, pump station upgrades, and data network cabling.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> Pump Station Improvement Program, Miami-Dade Water & Sewer Department, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm a. Under the terms of a consent decree, Miami-Dade will rehabilitate its wastewater treatment plants and its sewer collection and transmission system. Nova was selected to administer and manage the implementation of the PSIP to ensure timely repair of these upgrades. Mr. Bendana serves as Field Construction Representative.		
(1) TITLE AND LOCATION <i>(City and State)</i> Disaster Recovery Hurricane Irma, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm b. As part of the emergency response and recovery activities associated with Hurricane Irma, Miami Dade County is conducting major Debris Collection and Disposal activities. These are being conducted under close supervision and are required to follow FEMA procedures and protocols. Mr. Bendana has worked on truck certification and supervision of debris collection processes and procedures as a field representative in Miami-Dade County.		
(1) TITLE AND LOCATION <i>(City and State)</i> Sanitary Sewer Evaluation Survey (Infiltration/Inflow), Miami-Dade Water & Sewer Department, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm c. Mr. Bendana participated in the evaluation of gravity sewer system to identify sources of groundwater entering the sewer system. He utilized various techniques including video surveillance, pump stations, operational data, and smoke testing. As a result of his work, several locations were identified, and corrective action was taken. Additionally, Mr. Bendana was responsible for scheduling of field crews.		
(1) TITLE AND LOCATION <i>(City and State)</i> Irrigation System Construction Technician, FL.	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm d. Mr. Bendana was responsible for interpreting job specifications and blueprints and making recommendations for the renovations and installation of a new irrigation system. He was responsible for managing the installation, as well as providing service and maintenance to irrigation contracts and programs.		
(1) TITLE AND LOCATION <i>(City and State)</i> Electrical Consulting Project, FL.	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm e. Mr. Bendana was responsible for providing structure network cabling design, voice and data network cabling, and audio-visual installation/fire alarm.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Luis Dantes	13. ROLE IN THIS CONTRACT Field Inspection Representative	14. YEARS EXPERIENCE	
		a. TOTAL 26	b. WITH CURRENT FIRM <1
15. FIRM NAME AND LOCATION <i>(City and State)</i> Nova Consulting, Inc., Miami, FL			
16. EDUCATION <i>(Degree and Specialization)</i> BS / Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> FDOT CTQP, Asphalt Paving, Level I FDOT CTQP, Asphalt Paving, Level II FDOT CTQP, Earthwork, Level I / II ACI Concrete Inspection Certificate OSHA 40-Hr. HAZWOPER	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Mr. Dantes has over 25 years of experience in the fields of construction engineering and inspection for municipal environmental and infrastructure projects. These projects have included civil works, water lines, earthwork, drainage, buildings, and stake works. He has been responsible for construction inspection, on-site coordination, site investigations, scheduling, review of site plans and specifications, and overall construction.			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION <i>(City and State)</i> PortMiami Cruise Terminal A Environmental Mitigation Project. Miami-Dade County Seaport Department, FL	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The project consisted of the fabrication of 120 gabions filled with rocks and installed at the deployment area offshore north of the port entrance channel in front of South Beach. The coral was then transplanted from the boulders protecting the shore line to the top of the gabions to develop and artificial reef. A second phase consisted of moving the corals to the final offshore location. As Field Inspection Representative, Mr. Dantes conducted field inspections of the second phase.	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
<input type="checkbox"/> Check if project performed with current firm			
b.	(1) TITLE AND LOCATION <i>(City and State)</i> 42-Inch Water Transmission Main, Downtown Miami Dade, County, FL 10" Force Main	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This project involves the design of a 42-inch water transmission main between the intersection of Biscayne Blvd. and NW 5th Street and PortMiami. Nova is currently working on the Construction Engineering and Inspection of this project, responsible for oversight of construction activities on MDWASD's behalf and daily reporting of construction activities. Mr. Dantes was Field Inspector.	PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If applicable)</i> N/A
<input type="checkbox"/> Check if project performed with current firm			
c.	(1) TITLE AND LOCATION <i>(City and State)</i> Public Works Department in Santo Domingo, Dominican Republic	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Dantes was Supervisor for the Department and Structural Inspector.	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If applicable)</i> N/A
<input type="checkbox"/> Check if project performed with current firm			
d.	(1) TITLE AND LOCATION <i>(City and State)</i> Invi la Virgen and Paraiso Canaan (Villa Mella) Santo Domingo, Dominican Republic	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager for the construction of water distribution projects.	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If applicable)</i> N/A
<input type="checkbox"/> Check if project performed with current firm			
e.	(1) TITLE AND LOCATION <i>(City and State)</i> Private Industry, General Contractor, Dominican Republic	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Field Project Engineer responsible for Civil and Structural Construction Supervision of building and housing projects.	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If applicable)</i> N/A
<input type="checkbox"/> Check if project performed with current firm			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Jason Reynolds	13. ROLE IN THIS CONTRACT GIS Scientist	14. YEARS EXPERIENCE	
		a. TOTAL 7	b. WITH CURRENT FIRM 3

15. FIRM NAME AND LOCATION *(City and State)*
Nova Consulting, Inc., Miami, FL

16. EDUCATION <i>(Degree and Specialization)</i> BS / Environmental and Natural Resources Foreign Study, Tropical Ecology	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> OSHA 40-Hr. HAZWOPER OSHA 10-Hr. Construction Safety
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Jason has over four years of working in the environmental field, specifically in GIS applications and spatial analysis, ecological studies, environmental compliance and oversight, and water and air quality sampling. His experience also covers data management, report preparation, and project administration.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> Southeast Queens Flooding Analysis Mitigation, NYCDEP, NY	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

a. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
As part of the flooding analysis program, Nova has been tasked with desktop analysis as well as field walkthroughs to study 48 hotspot street segments for potential Green Infrastructure (GI) implementation. Prior to the field walkthroughs, As GIS Specialist, Mr. Reynolds collected Open-Source data from NYC agencies and DEP sewer and water lines to prepare baseline maps in ArcGIS. Data collected from walkthroughs was digitized in ArcGIS and incorporated into the baseline maps to create a Site Assessment Map.

(1) TITLE AND LOCATION <i>(City and State)</i> Transfer of Development Rights – Flood Hazard Management, New York State Department of State, NY	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

b. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
This project consisted of a transfer of development rights (TDR) GIS analysis for the flood hazard management effort of Nassau and Suffolk counties. The purpose of the analysis was to transfer development rights from tax parcels located within the extreme hazard zone designated by the New York State Department of State (NYS DOS), to suitable parcels within development zones of Nassau and Suffolk counties. As GIS Analyst, Mr. Reynolds was tasked to identify areas of potential sending and receiving development rights using ArcGIS.

(1) TITLE AND LOCATION <i>(City and State)</i> Living with the Bay Watershed Management Plan – Coastal Risk Assessment, NYS Governor’s Office of Storm Recovery, NY	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

c. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
This project involves watershed management planning and conceptual design services. As GIS Specialist, Mr. Reynolds is providing GIS mapping and data services: identifying and describing the geographic setting and features of the watershed, including topography, hydrography, floodplains, soils, and areas prone to erosion; identifying and describing map infrastructure; describing groundwater recharge areas, stream base flow and wetland hydrology; identifying historic and current land uses and zoning regulations.

(1) TITLE AND LOCATION <i>(City and State)</i> Combined Sewer Overflow Long Term Control Plan II, New York City Department of Environmental Protection, NY	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

d. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
This project involves the city’s extensive, multi-phase approach to control combined sewer overflow discharge; ten (10) water-body specific plans and one city-wide long-term control plan are being developed. As GIS Analyst, Jason is responsible for preparing ArcGIS maps and diagrams to be used in technical reports and in presentations at meetings and public outreach events.

(1) TITLE AND LOCATION <i>(City and State)</i> New York Empire State – Maybrook Trailway / Beacon Line Rail Trail, Metro-North Railroad Company, NY	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

e. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
Nova has been tasked to perform field wetlands survey to locate all Federal and State delineated wetland boundaries within the project limits, perform the habitat study to identify sensitive areas on the survey, provide environmental permit management, review design-builder submittals, and perform environmental construction oversight. As GIS Analyst, Mr. Reynolds is providing the environmental screening thru GIS applications and field surveys; and preparing ArcGIS maps and diagrams to be used in technical reports.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Daymara Otero	13. ROLE IN THIS CONTRACT GIS/BIM/CAD Specialist	14. YEARS EXPERIENCE	
		a. TOTAL 8	b. WITH CURRENT FIRM 1

15. FIRM NAME AND LOCATION *(City and State)*

Nova Consulting, Inc., Miami, FL

16. EDUCATION *(Degree and Specialization)*

BS / Engineering
Postgraduate Studies in Construction Materials

17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Ms. Otero has worked as a CAD operator for surveys, as well as design and modeling involving structural elements. She has experience with on-site construction observation and management. She has provided cost estimates for materials, equipment, and/or labor. She is a Structural Specialist in Project and Engineering.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Ludlam Trail Remediation, Miami-Dade Department of Environmental Resources Management, Miami, FL	2018	N/A
<p>a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm</p> <p>Nova assisted DERM in providing conceptual construction costs for the acquisition of the the land for the proposed Ludlam Trail Park. Ms. Otero has provided multiple earthwork analyses and calculations for varying scenarios, using AutoCAD Civil 3D to model the Ludlam Trail proposed cross section(s) and determine cut and fill requirements based on existing conditions.</p>		
Design Services for Gravity Sewer along NW 27th Ave.- Basin D2-A-1, Miami-Dade Water and Sewer Department, Miami, FL	Ongoing	N/A
<p>b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm</p> <p>Nova assisted MDWASD with the professional engineering services in connection with the design, permitting, regulatory/utility coordination, bid phase services and engineering services during construction for the proposed new gravity mains associated with sub-basin D2-A-1. The scope of this project included a plan to extend sewer services to commercial and industrial parcels within the County's Commission Districts. Ms. Otero has drafted the design plans in Civil 3D.</p>		
South Miami Heights Water Treatment Plant Facility, Miami-Dade Water and Sewer Department, Miami, FL	Ongoing	N/A
<p>c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm</p> <p>Ms. Otero designed the parking lot grading plan and associated drainage and created the drawing plans for the project in AutoCAD Civil 3D.</p>		
U.S. Army Corps of Engineers, Baltimore District, Washington Aqueduct Indefinite Delivery Type Contract, Baltimore, MD	Ongoing	N/A
<p>d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm</p> <p>Nova provides engineering services for the DaleCarlia and McMillan treatment plants and other Washington Aqueduct facilities under and Indefinite Delivery Contract, including all steps of the project design, from site investigations to engineering services during construction. Ms. Otero has drafted the design plans for the Third High and Second High Reservoir Maintenance and Improvements projects in AutoCAD Civil 3D and AutoCAD Revit.</p>		
Davis Isles New Sewer and Water Main Replacement, Ft. Lauderdale, FL	Ongoing	N/A
<p>e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm</p> <p>The Davis Isles New Sewer and Water Main Replacement project is part of a system utility upgrade involving septic tank elimination for approximately 80 homes in Dania Beach. The project includes the design of a new sanitary sewer pump station, a new gravity sewer system, and a new water line loop for the community. Ms. Otero has drafted the design plans in AutoCAD Civil 3D.</p>		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Eduardo M. Suarez, PSM	13. ROLE IN THIS CONTRACT Principal Surveyor & Mapper	14. YEARS EXPERIENCE	
		a. TOTAL 31	b. WITH CURRENT FIRM 15

15. FIRM NAME AND LOCATION *(City and State)*

Longitude Surveyors, 7769 NW 48 Street, Suite 375, Doral, FL 33166

16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i>	17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i>
<ul style="list-style-type: none"> Associates Degree in Engineering Studies, Miami-Dade College 1993 	<ul style="list-style-type: none"> Professional Surveyor & Mapper #LS6313 State of Florida Florida Surveying & Mapping Society

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Micro SBE, DBE, CBE, 15.01- Surveying & Mapping, 15.03- Underground Utility Location, 8.1- Control Surveying, 8.2-Design, Right-of-Way & Construction Surveying, and 8.4- Right-of-Way Mapping, FES Chapter Director (Miami), ASCE 2016 Employer of Year

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Red Road Traffic Diverters, Coral Gables, FL	2016	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm a. Principal in Charge: LS performed a Topographic Survey that included the following information: Paved areas, edge of pavements, sidewalks, flow lines, back of curbs, walls, trees, palms, hedges, walkways, entrances, signs, pavement markings, signal mast arms, catch basins, manholes, inlets, valves, valve boxes, guardrails, light poles, meters, electric boxes, power poles, overhead lines, fire hydrants, utility pedestals, etc. LS provided a graphical baseline only. The limits were from right of way to right of way along Red Road at the intersections of Algardí Avenue, Cantoria Avenue, and Garcia Avenue located in Coral Gables, FL. Cost: \$4,700.00		
Speed Tables, Coral Gables FL	2016	2016
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm b. Principal in Charge: LS performed Topographic Surveys to include the following information: The survey will include the following: sidewalks, edges of pavement, utilities, manholes, poles, fences, driveways, catch basins, trees and all aboveground improvements. LS will provide the following for all drainage structures; rim elevation, inverts, pipe direction and material, when possible. R/W and property lines for the project area and adjacent properties included based on Public information available to the public. Cross sections taken at 10-foot intervals. Control points set outside the limits of the survey. Set in locations to be used by the contractor during future construction. Cost: \$3,900.00		
2020 Salzedo Street, Coral Gables, FL	2015	2015
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm c. Principal in Charge: LS prepared and performed the following surveying services: Construction stakeout, foundation survey, pile layout, established benchmarks, and control lines. Cost: \$10,720.00		
6001 Mall Street, Coral Gables, FL	2014	2016
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm d. Principal in Charge: LS prepared and performed a construction layout to locate pool steel structure and re-layout perimeter wall, and layout wall fence. Additional surveying services included: reflecting crown of road, four property corner elevations along with utility boxes on site for water/FPL. Cost: \$5,800.00		
Parking Lot # 30 - Along the N.E. corner of Almeria Avenue and Galiano Street, Coral Gables, FL	2016	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm e. Principal in Charge: LS performed a Boundary/Topographic Survey to include the following information: Collected all the following aboveground improvements; building facades, sidewalks, curbs, catch basins, signs, islands, entrance, gates, parking meters, alley, etc. Longitude performed cross-sections around the perimeter of the parking garage approximately every 50-feet. The cross sections entailed the following: crown of road, edge of pavement, top of curb, back of sidewalk and all high and low points. LS collected elevation shots within the parking lot consistent with a 50-foot grid. LS collected all existing drainage information such as: rim elevation, pipe size, pipe material, pipe direction and inverts. Cost: \$3,900.00		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME John H. Adler, III, PSM	13. ROLE IN THIS CONTRACT Senior Surveyor & Mapper	14. YEARS EXPERIENCE	
		a. TOTAL 37	b. WITH CURRENT FIRM 5

15. FIRM NAME AND LOCATION *(City and State)*

Longitude Surveyors, 7769 NW 48 Street, Suite 375, Doral, FL 33166

16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> <ul style="list-style-type: none"> Associates Degree in Engineering Studies, Palm Beach State College 1984 	17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> <ul style="list-style-type: none"> Professional Surveyor & Mapper #LS4693 State of Florida Florida Surveying & Mapping Society
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Micro SBE,DBE,CBE, 15.01- Surveying & Mapping, 15.03- Underground Utility Location, 8.1- Control Surveying, 8.2-Design, Right-of-Way & Construction Surveying, and 8.4- Right-of-Way Mapping

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Red Road Traffic Diverters, Coral Gables, FL	2016	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm a. Senior Surveyor & Mapper: LS performed a Topographic Survey that included the following information: Paved areas, edge of pavements, sidewalks, flow lines, back of curbs, walls, trees, palms, hedges, walkways, entrances, signs, pavement markings, signal mast arms, catch basins, manholes, inlets, valves, valve boxes, guardrails, light poles, meters, electric boxes, power poles, overhead lines, fire hydrants, utility pedestals, etc. LS provided a graphical baseline only. The limits were from right of way to right of way along Red Road at the intersections of Algardi Avenue, Cantoria Avenue, and Garcia Avenue located in Coral Gables, FL. Cost: \$4,700.00		
Speed Tables, Coral Gables FL	2016	2016
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm b. Senior Surveyor and Mapper: LS performed Topographic Surveys to include the following information: The survey will include the following: sidewalks, edges of pavement, utilities, manholes, poles, fences, driveways, catch basins, trees and all aboveground improvements. LS will provide the following for all drainage structures; rim elevation, inverts, pipe direction and material, when possible. R/W and property lines for the project area and adjacent properties included based on Public information available to the public. Cross sections taken at 10-foot intervals. Control points set outside the limits of the survey. Set in locations to be used by the contractor during future construction. Cost: \$3,900.00		
2020 Salzedo Street, Coral Gables, FL	2015	2015
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm c. Senior Surveyor & Mapper: LS prepared and performed the following surveying services: Construction stakeout, foundation survey, pile layout, established benchmarks, and control lines. Cost: \$10,720.00		
6001 Mall Street, Coral Gables, FL	2014	2016
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm d. Senior Surveyor & Mapper: LS prepared and performed a construction layout to locate pool steel structure and re-layout perimeter wall, and layout wall fence. Additional surveying services included: reflecting crown of road, four property corner elevations along with utility boxes on site for water/FPL. Cost: \$5,800.00		
Parking Lot # 30 - Along the N.E. corner of Almeria Avenue and Galiano Street, Coral Gables, FL	2016	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm e. Senior Surveyor & Mapper: LS performed a Boundary/Topographic Survey to include the following information: Collected all the following aboveground improvements; building facades, sidewalks, curbs, catch basins, signs, islands, entrance, gates, parking meters, alley, etc. Longitude performed cross-sections around the perimeter of the parking garage approximately every 50-feet. The cross sections entailed the following: crown of road, edge of pavement, top of curb, back of sidewalk and all high and low points. LS collected elevation shots within the parking lot consistent with a 50-foot grid. LS collected all existing drainage information such as: rim elevation, pipe size, pipe material, pipe direction and inverts. Cost: \$3,900.00		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Pedro Elias Gonzalez, PSM, MSc, ME, ENV SP	13. ROLE IN THIS CONTRACT Project Director-QA/QC	14. YEARS EXPERIENCE	
		a. TOTAL 20	b. WITH CURRENT FIRM 10

15. FIRM NAME AND LOCATION *(City and State)*
Longitude Surveyors LLC

16. EDUCATION <i>(Degree and Specialization)</i> ME, University of California, Davis, 1986 (Water Resources Engineering- Operations Research) MSc Land & Water Science, University of California, Davis 1984 (Irrigation & Subsurface Drainage) BS, Agr. Engineering, Universidad Central de Venezuela, 1979	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Professional Surveyor and Mapper, State of Florida LS7189
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Mr. Gonzalez has a well-founded expertise on Water Resources Engineering, Utility Corridor Assessment and land-Soil management that combined with his high proficiency with mapping sciences (imagery, data acquisition, digital elevation models, and LIDAR surveys).

19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION <i>(City and State)</i> Photogrammetric projects using Drones in Miami Dade and Broward County	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Task Leader for the WASD Consent Decree PMCM, for the Water Collection and Transmission system overseeing the design of over 92 Projects.		
b. (1) TITLE AND LOCATION <i>(City and State)</i> Mathematical modeling for optimal distribution of water and energy deliveries for the California State Water project.	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION <i>(If applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Latest GPS technology (Stationary and Real time-kinematics) was used to enhance accuracy and shorten the surveying times.		
c. (1) TITLE AND LOCATION <i>(City and State)</i> More than 50 large scale topographic surveying projects, for over 3000 miles of corridor and 20.000 acres, from using Aerial imagery, GPS and LIDAR.	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Mr. Gonzalez has a well-founded expertise on Water Resources Engineering, Utility Corridor Assessment and land-Soil management.		
d. (1) TITLE AND LOCATION <i>(City and State)</i> Over 20 years of construction management for oil & gas pipelines, road and utility corridors	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2007	CONSTRUCTION <i>(If applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm He managed the construction work for several roads, highway and railroad projects dealing with earth movement and hydraulic structures. Also worked as a construction inspector for the facilities at a 20.000 acre irrigation system in west Venezuela.		
e. (1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person)

12. NAME Daphne Gurri, AIA, LEED AP	13. ROLE IN THIS CONTRACT Sr. Architect	14. YEARS EXPERIENCE	
		a. TOTAL 25	b. WITH CURRENT FIRM 20

15. FIRM NAME AND LOCATION <i>(City and State)</i> Gurri Matute, Miami, FL	
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16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> MS / Architectural Design Bachelor Architecture	17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Florida / Registered Architect (#AR 0015179) / Interior Designer (ID 0003825)
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
As founding partner and President of the firm, Ms. Gurri is responsible for the general operations of the Firm and business development. Ms. Gurri has over 25years total experience as an Architect and her governmental experience includes 16 years of continuous work in Gov't projects. Her experience covers governmental experience with the Federal, State and Local Gov't for a variety of projects including aviation/airports, educational, community centers, national guard armory design, restaurants & multipurpose spaces, historic preservation, park design, ADA retrofits, site design, master planning, preparation of feasibility studies, & cost estimates.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	Historic Hampton House Restoration & Adaptive Reuse, Brownsville, FL	2015	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Designer/Contract Administrator for the production, coordination and completion of design and construction documents for a 30,000 square feet historic building renovation project. The project included envelope hardening, restoration of historic spaces and total re-utilization of the existing facility in compliance with ADA accessibility standards to convert it from a 50-room motel into a Cultural Center.		
b.	Greynolds Park, Historic Park Design Miami, FL	Ongoing	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Designer/Contract Administrator for the production, coordination and completion of a master plan/site plan with a beautification of Miami Gardens Drive, the introduction of new toll guard booths, ADA compliance, development of a new courtyard for public gatherings and public events, repairs to existing walking trails, hiking/biking trails, structural assessment of all 12 pedestrian and vehicular bridges, preparation of design and construction documents for the repairs to existing bridges, existing historic structures renovation of the maintenance area building (originally carriage house), renovation of the caretaker's house, renovation of existing culverts, and other park appurtenances.		
c.	Wynwood Community Service Center, Miami, FL	Ongoing	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Designer/Contract Administrator for the production, coordination and completion of design and construction documents for a New Facility with approximately 30,000 SF and site improvements including new parking, new paving and drainage, new site lighting, new landscaping etc. Building to house a multi-purpose meeting room with full kitchen and raised platform, storage space, mini-library with 3,000 SF, conference rooms, administrative offices, computer training lab, and an outdoor covered area. Project is registered with USGBC for LEED certification (Silver). Project cost: \$8,000,000.		
d.	Prometeo Theater, Miami Dade College-Wolfson Campus, Miami, FL	2009	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Designer/Contract Administrator for the production, coordination and completion of design and construction documents for a building renovation in compliance with Life Safety Code Requirements, reconfiguration of adjacent computer/data room and mechanical Equipment room.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person)

12. NAME Jose Matute, AIA, LEED AP, CGC	13. ROLE IN THIS CONTRACT Sr. Architect	14. YEARS EXPERIENCE	
		a. TOTAL 29	b. WITH CURRENT FIRM 19

15. FIRM NAME AND LOCATION *(City and State)*

Gurri Matute, Miami, FL



16. EDUCATION *(DEGREE AND SPECIALIZATION)*
Bachelor of Architecture

17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

Florida / Registered Architect (#AR 0014415) / Interior Designer (ID 0003826)

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Mr. Matute has over 29 years' experience as Principal and Architect of Record in the design of large-scale institutional and commercial projects including armories, aviation, educational, and institutional type projects including community centers. In addition, he has worked with a variety of different construction systems including tilt-up construction and pre-engineered metal buildings. Mr. Matute has also been a licensed General Contractor since 1999 and is both qualifier and part owner of Gurri Matute Construction Company.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	Historic Hampton House Restoration & Adaptive Reuse, Brownsville, FL	2015	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Architect of Record for the production, coordination and completion of design and construction documents for a 30,000 square foot historic building renovation project. The project included envelope hardening, restoration of historic spaces and total re-utilization of the existing facility in compliance with ADA accessibility standards to convert it from a 50-room motel into a Cultural Center.		
b.	Greynolds Park, Historic Park Design Miami, FL	Ongoing	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Architect of Record for the production, coordination and completion of a master plan/site plan with a beautification of Miami Gardens Drive, the introduction of new toll guard booths, ADA compliance, development of a new courtyard for public gatherings and public events, repairs to existing walking trails, hiking/biking trails, structural assessment of all 12 pedestrian and vehicular bridges, preparation of design and construction documents for the repairs to existing bridges, existing historic structures renovation of the maintenance area building (originally carriage house), renovation of the caretaker's house, renovation of existing culverts, and other park appurtenances.		
c.	Wynwood Community Service Center, Miami, FL	Ongoing	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Architect of Record for the production, coordination and completion of design and construction documents for a New Facility with approximately 30,000 SF and site improvements including new parking, new paving and drainage, new site lighting, new landscaping etc. Building to house a multi-purpose meeting room with full kitchen and raised platform, storage space, mini-library with 3,000 SF, conference rooms, administrative offices, computer training lab, and an outdoor covered area. Project is registered with USGBC for LEED certification (Silver). Project cost: \$8,000,000.		
d.	Prometeo Theater, Miami Dade College-Wolfson Campus, Miami, FL	2009	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Architect of Record for the production, coordination and completion of design and construction documents for a building renovation in compliance with Life Safety Code Requirements, reconfiguration of adjacent computer/data room and mechanical Equipment room.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Ebehi Ijewere, ASSOC AIA, LEED GA	13. ROLE IN THIS CONTRACT Architectural Designer	14. YEARS EXPERIENCE	
		a. TOTAL 3	b. WITH CURRENT FIRM 1

15. FIRM NAME AND LOCATION *(City and State)*
Gurri Matute, PA

16. EDUCATION <i>(Degree and Specialization)</i> Masters of Architecture Florida International University School Architecture 2016	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
**Alpha Rho Chi Nicon Chapter
Tau Sigma Delta Honors Society**

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> Larcenia J. Bullard Plaza Richmond Heights, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(If applicable)</i> 2020

a. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
This project is a new 14,000 SF two-story building with retail space, a take-out restaurant and a gallery space on 1st floor to showcase the history and art of the local Richmond Heights area. The 2nd floor has a community multi-purpose room and office space. The project scope includes the design of the entire site with 48 parking spaces. Project design to be LEED Silver. Cost: \$5.9M. Role: Job Captain.

(1) TITLE AND LOCATION <i>(City and State)</i> Coral Way Community Park Expansion & Enhancements Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If applicable)</i> 2020

b. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
The project consists of adding new playground equipment and/or relocating existing playground equipment to the new area, and providing a connection between the new and the existing. The new park area will have landscaped areas, plus a new perimeter wall, and new concrete seating (bench). The existing bench will also need to be modified. Site furniture, such as picnic tables, will also be incorporated into the final design. Role: Job Captain.

(1) TITLE AND LOCATION <i>(City and State)</i> South & Central CBIS/CBRA/BHS Project Miami International Airport, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(If applicable)</i> 2020

c. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
This new three-story building (60,000 SF) built as an addition to the existing Terminal and connecting back to Concourse G and H. The building houses the new baggage system to support the entire southern half of the airport. This project was carefully designed to maintain adjacent gates open and operational at all times, including protecting the existing passenger loading bridges. The total construction costs for this project is \$177M. Role: Job Captain.

(1) TITLE AND LOCATION <i>(City and State)</i> Martin Medical Center North Lab & Storage Building Stuart, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If applicable)</i> ongoing

d. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
The design for the addition of a new Lab/Storage Building and the backfill of several supporting spaces. The project involves demolishing the existing building and constructing a new 4,800sf building on the existing site. Cost: \$7.5M. Role: Job Captain.

(1) TITLE AND LOCATION <i>(City and State)</i> NCH TMMC Pharmacy Renovations Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If applicable)</i> 2020

e. (3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm
The project involves providing connections for a temporary Pharmacy trailer to be used during the renovation of the existing Pharmacy Department. Renovations to Pharmacy include the addition of a new Chemo Room and system upgrades to the IV prep Room, Ante Room and main Pharmacy area. The overall project is approximately 1,145 sf. Role: Job Captain.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Marta J. McNab-Perdomo, NCIDQ, LEED AP	13. ROLE IN THIS CONTRACT Interior Designer	14. YEARS EXPERIENCE a. TOTAL 14 b. WITH CURRENT FIRM <1	
15. FIRM NAME AND LOCATION <i>(City and State)</i> Gurri Matute PA, Miami, FL			
16. EDUCATION <i>(Degree and Specialization)</i> Bachelors of Interior Design Florida International University 2004		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> State of Florida Interior Designer ID5606	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> LEED AP, co-authored article for Healthcare Design Magazine, 2 time recipient of IIDA BRAGG Award for Best of Healthcare category (2013 & 2016)			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Miami Dade College Presidential Reading Room Miami, FL	2018	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm a. Preparation of building/space evaluation report and conceptual design for a new Presidential Library for Miami Dade College. Fees: \$7,500. Role in Project: Interior Designer and Project Manager.		
Catholic Health Services Nurse's Station Miami, FL	2018	Ongoing
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm b. Complete interior design services including the selection of furniture and artwork. Small interior renovation of about 600sf of an existing nurse's station and waiting area to replace finishes and casework including new furniture and artwork. Construction Cost: \$60,000. Role in Project: Interior Designer of Record		
Bascom Palmer Eye Institute Naples Naples, FL	2014	2016
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm c. A new 22,000sf LEED Gold certified facility with a grand lobby, reception, waiting and registration areas. The project includes eye lanes, retail space, physician offices, operating rooms and recovery areas. The project won the IIDA BRAGG Award for Best of Healthcare for the interior design. Cost: \$25M. Role in Project: Interior Designer of Record		
Broward Sports Medicine and Orthopedic Center Fort Lauderdale, FL	2011	2013
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm d. A new 36,000sf facility with a main lobby, reception and waiting room. The project includes exam rooms, X-ray, physician offices, a rehabilitation gym, and MRI suite and retail space. The project won the IIDA BRAGG Award for Best of Healthcare for the interior design. Cost: \$15M. Role in Project: Interior Designer of Record		
Link Construction Headquarter Office Doral, FL	2014	2014
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm e. A renovated 14,000sf warehouse space into a new headquarter office with high end finishes. A greeter's lobby, large conference room, work areas, staff lounge and community space along with executive suites were all a part of the project. Construction Cost: \$ 2.8 M. Role in Project: Interior Designer of Record and Project Manager		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Joel Gonzalez, PE	13. ROLE IN THIS CONTRACT Sr. Electrical Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 25	b. WITH CURRENT FIRM 8
15. FIRM NAME AND LOCATION <i>(City and State)</i> CESGO, Miami, FL			
16. EDUCATION <i>(Degree and Specialization)</i> BS / Electrical Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Professional Electrical Engineer, FL (PE1595)	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> National Fire Protection Association (NFPA)			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	Emergency Generator Replacement for Five (5) Fire Stations	2009	2009
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Design of Electrical System and Specification of New Gensets, size: 5 Stations, cost: 1M Role: Electrical Engineer		
b.	Addition to Epiphany School (Miami, FL)	2016	2016
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Design of Electrical and Fire Alarm Systems, size: 34k SF, cost: 8M Role: Chief Electrical Engineer and MEP-FA-FP Project Coordinator		
c.	Baptist Hospital Headquarter Lift Station (Miami, FL)	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Design of Electrical and Fire Alarm Systems, size: 110 Apartments, cost: 20M Role: Electrical Design		
d.	Multifamily Apartment Building Pinnacle Verbena (Miami, FL)	2018	2018
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Design of Electrical and Fire Alarm Systems, size: 110 Apartments, cost: 20M Role: Chief Electrical Engineer and MEP-FA-FP Project Coordinator		
e.	Miami International Airport (LATAM Maintenance Hangar), Miami, FL	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This project involved Mechanical, Electrical, Plumbing, Fire Alarm and Fire Protection Services for a new hangar dedicate to performing maintenance tasks in wide range of planes including the Boeing 777. Mr. Gonzalez provided Electrical Engineering.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Maria M Gonzalez	13. ROLE IN THIS CONTRACT Electrical Designer	14. YEARS EXPERIENCE	
		a. TOTAL 12	b. WITH CURRENT FIRM 8
15. FIRM NAME AND LOCATION <i>(City and State)</i> CESGO, Miami, FL			
16. EDUCATION <i>(Degree and Specialization)</i> Electrical Technician		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Maintenance Hangar for LATAM at MIA (Miami, FL)	2016	2016
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Design of Electrical and Fire Alarm Systems, size: 100k SF, cost: 20M Role: Electrical Design	<input type="checkbox"/> Check if project performed with current firm	
Addition to Epiphany School (Miami, FL)	2016	2016
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Design of Electrical and Fire Alarm Systems, size: 34k SF, cost: 8M Role: Electrical Design	<input checked="" type="checkbox"/> Check if project performed with current firm	
Baptist Hospital Headquarter Lift Station (Miami, FL)	Ongoing	Ongoing
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Design of Electrical and Fire Alarm Systems, size: 110 Apartments, cost: 20M Role: Electrical Design	<input type="checkbox"/> Check if project performed with current firm	
Multifamily Apartment Building Pinnacle Heights (Miami, FL)	Ongoing	Ongoing
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Design of Electrical and Fire Alarm Systems, size: 110 Apartments, cost: 20M Role: Electrical Design	<input type="checkbox"/> Check if project performed with current firm	
Remodeling of Multifamily Apartment Building Civic Tower	Ongoing	Ongoing
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Design of Electrical System, size: 110 Apartments, cost: 25M Role: Electrical Design	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME ADEBAYO COKER, PE	13. ROLE IN THIS CONTRACT Civil Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 27	b. WITH CURRENT FIRM 13
15. FIRM NAME AND LOCATION <i>(City and State)</i> HBC Engineering Company, Miami, FL			
16. EDUCATION <i>(Degree and Specialization)</i> B.S., Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Professional Engineer, Florida-No. 55322	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> FDOT DISTRICT 4, I-595 CORRIDOR ROADWAY IMPROVEMENTS PROJECT, BROWARD COUNTY, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2009-2014	CONSTRUCTION <i>(If applicable)</i>
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Performed interdisciplinary coordination of structural, geotechnical, utilities, drainage, MOT, SUE, and surveying for this Private-Public Partnership project (P3) which extends from I-75 to I-95. The project length was approximately 14 miles. Reviewed engineering design plans for roadway, utilities, drainage, ITS, signalization, structures, TCP and lighting. Coordinated and scheduled survey, geotechnical, CCTV, and SUE field activities.		
(1) TITLE AND LOCATION <i>(City and State)</i> MDC DEPT. OF TRANS. & PUB. WK, TOTAL RECONSTRUCTION PROJECT ON NE 2 AVE. FROM NE 84 ST. TO NE 91 ST., MIAMI, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016-2017	CONSTRUCTION <i>(If applicable)</i>
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Served as Lead Designer responsible for development and final production of plans. Project included design for drainage, lighting, signalization, roadway reconstruction as well as public involvement.		
(1) TITLE AND LOCATION <i>(City and State)</i> FDOT D6, I-95 S. BOUND RIGID PAVEMENT REHAB. FROM NW 103 ST. TO NW 125TH ST, MIAMI-DADE COUNTY, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012-2015	CONSTRUCTION <i>(If applicable)</i>
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Manager for the rehabilitation of the existing concrete pavement of southbound mainline I-95 and three (3) ramps. Responsibilities include, but are not limited to, coordination with FDOT Maintenance and Traffic Management Center, coordination of personnel for the design activities and supervision of design of roadway and Maintenance of Traffic.		
(1) TITLE AND LOCATION <i>(City and State)</i> MIAMI-DADE TRANSIT, DADELAND SOUTH PARKING LOT EXPANSION, MIAMI-DADE COUNTY, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2008-2009	CONSTRUCTION <i>(If applicable)</i>
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Engineer of Record for site planning for the design of the parking lot expansion with over 98 parking spaces and the existing parking lot with over 180 parking spaces. Designed paving, grading, lighting, and drainage systems. Laid out the concept plans and ADA accessibility route for the entire parking including the existing lot. Prepared drainage report, pavement design, direction driveway access design, and coordinated the dry run permitting and landscape design.		
(1) TITLE AND LOCATION <i>(City and State)</i> FDOT DISTRICT 6, PROJECT DEVELOPMENT AND ENVIRONMENTAL (PD&E), MIAMI-DADE COUNTY, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 1996-2008	CONSTRUCTION <i>(If applicable)</i>
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm District Project Development Engineer who oversaw tasks including PD&E Studies, Resurfacing, Restoration and Rehabilitation (RRR) Scoping Report, and traffic report of Flagler Street 2nd Ave. to 27th Ave (CE2), NW 74th St. from 114th Ave. to SR 826 (Noise Study), Card Sound Road (EA), I-75 from County Line to SR 826 (EIS/ EA), Tamiami Canal Swing Bridge (EA), Alton Road from 5th to Michigan (CE2), I-395/SR 836 PD&E (EIS)		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Oracio Riccobono, P.E.	13. ROLE IN THIS CONTRACT Lead Geotechnical Engineer	14. YEARS EXPERIENCE	
		A. TOTAL 33	B. WITH CURRENT FIRM 19
15. FIRM NAME AND LOCATION <i>(City and State)</i> GEOSOL, Inc.; 5795-A NW 151 st Street, Miami Lakes, FL 33014			
16. EDUCATION <i>(Degree and Specialization)</i> Civil Engineer (BSCE), Master Degree (MSCE in Geotechnical Engineering) and Master in Business Administration (MBA)		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Registration No. 49324 (Florida, Civil Engineering)	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> American Society of Civil Engineers Florida Engineering Society			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	Districtwide Geotechnical Consultant, FDOT District 6, from Monroe to Miami-Dade Counties	2013 – 2018	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Project Geotechnical Engineer responsible for negotiating each task work orders (TWO), planning the geotechnical exploration and laboratory testing programs, preparation of geotechnical engineering reports with foundation design and construction recommendations for new and existing roadway projects during Preliminary and Final Design phases. Project has budget cap of \$1.5 millions. To date, we have successfully executed 65 TWO and have spent \$1.4 millions.		
b.	SR 826 PD&E Study and Final Design, from I-75 to I-95 and on I-95, Miami-Dade County, FL, FDOT District 6.	2012 - 2019	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Project Geotechnical Engineer responsible for planning geotechnical exploration and laboratory testing programs, preparation of geotechnical engineering report with foundation design and construction recommendations for widening and interchange modifications. along SR 826 and on I-95. Geotechnical fees \$1,300,000		
c.	I-395/SR-836/I-95 Interchange Improvements, Miami-Dade County, FL, FDOT District 6.	2013 - 2019	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Project Geotechnical Engineer responsible for planning the preliminary geotechnical exploration and laboratory testing programs, preparation of the preliminary geotechnical engineering reports during preparation of Design-Build Documents for the new viaduct and signature bridges. Also, involved during construction reviewing and approving contractor's submittals and performing verification type testing. Geotechnical fees \$1,500,000		
d.	Venetian Causeway from N. Bayshore Drive to Purdy Avenue, Miami Beach, FL	2014 - 2015	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Geotechnical Engineer planning & executing field exploration and laboratory testing, performing analyses to examine the potential replacement/rehabilitation of 12 bridges including 10 fixed span bridges and 2 bascule leaf span bridges over the Intracoastal Waterway. Performed Parallel Seismic testing to evaluate integrity of existing piles and		
e.	NW 25th Street W. Viaduct over SR 826, from NW 82nd Ave. to E. of SR 826, Miami, FL	2013 - 2015	2017
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Geotechnical Engineer for foundation re-design & construction phases, responsible for foundation analyses, design & geotechnical reports, planning and executing the test pile program of driven concrete piles with 100% PDA testing, providing foundation certification packages and sinkhole study during drilled shafts.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Adnan Ismail, PE		13. ROLE IN THIS CONTRACT Sr. Geotechnical Engineer		14. YEARS EXPERIENCE	
				a. TOTAL 13	b. WITH CURRENT FIRM 13
15. FIRM NAME AND LOCATION <i>(City and State)</i> Geosol, Inc. Miami Lakes, FL					
16. EDUCATION <i>(Degree and Specialization)</i> 2003 to 2006: Bachelor of Science in Civil Engineering, Florida International University, Miami, FL 2012 to 2013: Master of Science in Civil Engineering, Florida International University, Miami, FL			17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> PE76014		
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Mr. Ismail has 13 years of professional experience and has worked on numerous medium to large size geotechnical engineering projects for the public and private sectors. Mr. Ismail's experience includes planning of subsurface explorations and laboratory testing, data interpretation analysis and design of foundation elements of numerous projects, such as roadways, airport and railroad facilities. Mr. Ismail					

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a. (1) TITLE AND LOCATION <i>(City and State)</i> FM No. 250730-2-32-01, Districtwide Geotechnical & Materials Testing Contract, FDOT District 4 & 6, Monroe to Miami-Dade Counties, FL	2016	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Geotechnical Engineer assisting on over 200 work orders for projects located in FDOT Districts 4 and 6 during PD&E, final design and construction phases along 300 miles. Includes field exploration, laboratory testing, geotechnical analyses for roadways as well as preparation of geotechnical reports. <input type="checkbox"/> Check if project performed with current firm		
b. (1) TITLE AND LOCATION <i>(City and State)</i> SR 826 Section 2 Design-Build, from Sunset Drive to Bird Road, Miami, FL FDOT District 6, Length = 2.5 miles	2012	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Geotechnical Engineer assisting in planning and executing the field exploration and laboratory testing programs, interpreting the test results, performing foundation analyses and design of 8 bridges, approach embankments, MSE walls, noise walls and sign structures, 100% PDA testing, providing driving criteria, foundation certification packages, performed vibration monitoring and CSL testing. <input type="checkbox"/> Check if project performed with current firm		
c. (1) TITLE AND LOCATION <i>(City and State)</i> SR 5/US 1 Reconstruction Design-Build, From North of SR 713/Kings Highway to South of Oslo Road/CR 606, St. Lucie & Indian River Counties, FDOT District 4	2019	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer providing assistance with f geotechnical engineering reports, foundation certification packages for two (2) bridges, inspecting auger cast piles for noise barrier walls and drilled shafts for sign and mast arm structures. Performing pile driving inspections for 2 bridges and PDA testing. Performed vibration monitoring, and CSL testing on drilled shafts. <input type="checkbox"/> Check if project performed with current firm		
d. (1) TITLE AND LOCATION <i>(City and State)</i> NW 25th Street West Viaduct over SR 826, from NW 82nd Avenue to East of SR 826, Miami-Dade County, FDOT District 6	2015	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Geotechnical Engineer providing assistance with foundation certification packages for two (2) bridges, performed pile driving inspections, foundation certification packages for 2 bridges and sinkhole study during drilled shaft installation ground subsidence. <input type="checkbox"/> Check if project performed with current firm		
e. (1) TITLE AND LOCATION <i>(City and State)</i> SR 90/Tamiami Trail, Design-Build, 2.6-Mile Bridging, Miami, FL	2019	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Senior Geotechnical Engineer for design & construction responsible for field exploration & laboratory testing programs, foundation analyses & design, and geotechnical reports, which included 100% PDA testing of 650 piles, Statnamic load testing, foundation certification packages and vibration monitoring, MSE walls and roadway construction. <input type="checkbox"/> Check if project performed with current firm		

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)									
		1	2	3	4	5	6	7	8	9	10
Maria J. Molina, PE, ENV SP	Principal in Charge	X	X	X	X	X					
Juan C. Prieto, PE, PMP	Project Manager	X	X	X	X	X					
Steven S. Eagle, PE	Technical Director- Water/Wastewater	X	X	X	X						
Jonathan Pappas, PE	Water/Wastewater Engineer										
Harold Aiken, PE	Senior Civil Engineer										
Marco Finazzi, PE	Senior Civil Engineer			X							
Orlando Alfonso, PE	Senior Drainage Engineer	X	X								
Theresa Jablonski, PE	Resident Engineer										
Rachel Ferradaz, PE	Resident Engineer										
Giuseppe Santoro, PE	Resident Engineer	X									
Nelson Walters, PE	Senior Structural Engineer										
Colin Taylor, LEED® GA, ENV SP	Environmental Scientist										
Saksham Gupta, EIT, LEED®, CAPM	Environmental Scientist										
Catalina Lopez, EIT	Water/Wastewater Engineer										
Cynthia Estivil, EIT	Civil Engineer		X	X	X						
Stewart Fiskén, EIT	Civil Engineer										
Alex Yu, EIT	Civil/Drainage Engineer				X						
Bryan Moreno, EIT	Construction Manager				X						
Jesus Misas, EIT	Construction Manager										
Eduardo Guillen	Structural Engineer										
Jacqueline Pape	Water/Wastewater Engineer										
Nikitha Shamirpet	Civil/Environmental Engineer				X						
Dulyma Kern	Civil Engineer		X								
Maya Compton-Grant	Sr. Environmental Scientist			X	X	X					
Julianne E. Cossavella	Scientist			X	X						
Leonardo Costa	Environmental Engineer			X	X						
Colin Adams	Field Inspection Representative										

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)									
		1	2	3	4	5	6	7	8	9	10
Rafael Lazo	Field Inspection Representative				X	X					
Frank Bendana	Field Inspection Representative				X	X					
Luis Dantes	Field Inspection Representative										
Jason Reynolds	GIS Scientist										
Daymara Otero	GIS/BIM/CAD Specialist		X								
Eddie Suarez, PLS	Principal Surveyor & Mapper										
John H. Adler III, PSM	Senior Surveyor & Mapper										
Pedro Elias Gonzalez, PS, ENV SP	Project Director/QA/QC										
Daphne I. Gurri, AIA, LEED® AP	Sr. Architect										
Jose Matute, AIA, LEED® AP	Sr. Architect										
Ebehi Ijeware, LEED® GA	Architectural Designer										
Marta McNab, LEED® AP	Interior Designer										
Joel Gonzalez, PE	Sr. Electrical Engineer										
Maria M. Gonzalez	Electrical Designer										
Adebayo Coker, PE	Civil Engineer										
Oracio Riccobono, PE	Lead Geotechnical Engineer										
Ismail Adnan, P.E	Sr. Geotechnical Engineer										

29. EXAMPLE PROJECTS KEY

NUMBER	TITLE OF EXAMPLE PROJECT (From Section F)	NUMBER	TITLE OF EXAMPLE PROJECT (From Section F)
1	Town of Medley NW 75th Street Drainage	6	
2	MD WASD Small Pipeline Design	7	
3	FDOT Contamination Assessment and Remediation Contract	8	
4	MDWASD-Pump Station Improvements Program (PSIP)	9	
5	MD County Hurricane Irma Disaster Recovery FEMA	10	

H. ADDITIONAL INFORMATION

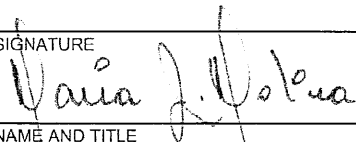
30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

Please see our experience and qualifications in section 2.

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE



32. DATE

5/30/2019

33. NAME AND TITLE

Maria J. Molina, PE | President

STANDARD FORM 330 (REV. 8/2016)

(A) PROPOSER SHALL:

- ✓ (1) Be regularly engaged in the business of providing the services described in this RFQ for a minimum of five (5) years, as evidenced in Standard Form 330 Architect-Engineer Qualifications.

2a. FIRM (or Branch Office) NAME Nova Consulting, Inc.		3. YEAR ESTABLISHED 1995	4. UNIQUE ENTITY IDENTIFIER 838362903
2b. STREET 10486 NW 31st Terrace		5. OWNERSHIP	
2c. CITY Doral		2d. STATE FL	2e. ZIP CODE 33172
6a. POINT OF CONTACT NAME AND TITLE		a. TYPE Corporation	
		b. SMALL BUSINESS STATUS Active	

- ✓ (2) Provide proof of active status or documentation evidencing Proposer is currently seeking active status with the Florida Department of State, Division of Corporation.

I further certify that said corporation has paid all fees due this office through December 31, 2019, that its most recent annual report/uniform business report was filed on February 4, 2019, and that its status is active.

- ✓ (3) Be licensed, registered and practicing in the State of Florida as an engineering firm, with a valid "Certificate of Authorization" pursuant to Section 471.023, Florida Statute.

NOVA CONSULTING, INC.
 10486 NW 31 TERRACE
 DORAL FL 33172

LICENSE NUMBER: CA7256

EXPIRATION DATE: FEBRUARY 28, 2021

(B) KEY PERSONNEL

- ✓ (1) The Proposer's Project Manager must be a licensed Professional Engineer in the State of Florida, with a minimum of five (5) years of documented experience as a Professional Engineer. Experience must include services similar in scope provided to government agencies at the municipal/local government level or higher. NOTE: The years of experience for the Project Manager must include at least two (2) years of engineering experience in Miami-Dade County, providing the services identified under the work categories in Section 2 of this RFQ. SEE JUAN PRIETO'S RESUME

PRIETO, JUAN C
 5835 MARIUS STREET
 CORAL GABLES FL 33146

LICENSE NUMBER: PE59465

EXPIRATION DATE: FEBRUARY 28, 2021

- ✓ (2) The Proposer's Engineers must have a minimum of three (3) years of documented experience. Experience must include services similar in scope provided to government agencies at the municipal/local government level or higher. SEE RESUMES



Internal Services Department
 Small Business Development
 111 NW 1 Street, 19th Floor
 Miami, Florida 33128
 T 305-375-3111 F 305-375-3160

July 28, 2017

CERT NO: 1745

Approval Date: 6/30/2017 - SBE/AE TIER 3

Ms. Maria J. Molina
 NOVA CONSULTING, INC.
 10486 NW 31st Ter
 Miami, FL 33172-0000

Expiration Date: 6/30/2020

Dear Ms. Molina:

Miami-Dade County Small Business Development (SBD), a division of the Internal Services Department (ISD) has completed the review of your application and attachments submitted for certification. Your firm is officially certified as a Miami-Dade County Small Business Enterprise Architectural & Engineering (SBE/AE) in accordance with section 2-10.4.01 of the code of Miami-Dade County.

This (SBE/AE) certification is valid for three years provided that you submit a "Continuing Eligibility Affidavit" on or before your anniversary date of (June 30) for the first and second year of the three year period. The affidavit must indicate any changes or no changes in your firm pertinent to your certification eligibility. The submittal of a "Continuing Eligibility Affidavit" annually with specific supporting documents on or before your Anniversary Date is required to maintain the three year certification. You will be notified of this responsibility in advance of the Anniversary Date. Failure to comply with the said responsibilities may result in immediate action to decertify the firm.

If at any time there is a material change in the firm including, but not limited to, ownership, officers, director, scope of work being performed, daily operations, affiliation(s) with other businesses or the physical location of the firm, you must notify this office in writing within (30) days. Notification should include supporting documentation. You will receive timely instructions from this office as to how you should proceed, if necessary. **This letter will be the only approval notification issued for the duration of your firm's three years certification. If the firm attains graduation or becomes ineligible during the three year certification period, you will be properly notified following an administrative process that your firm's certification has been removed pursuant to the code.**

Your company is certified in the categories as listed below affording you the opportunity to bid and participate on contracts with Small Business Enterprise measures.

Please note that the categories listed are very general and are used only to assist our customers in searching the directory for certified firms to meet contract goals. You can find the firm's up-to-date certification profile as well as all other certified firms on the Miami-Dade County Internal Services Department, Small Business Development Certified Firms' Directory at the website <http://www.miamidade.gov/smallbusiness/certification-programs.asp>.

It is strongly recommended that you register your firm as a vendor with Miami-Dade County. To register, you may visit: <http://www.miamidade.gov/procurement/vendor-registration.asp>. Thank you for your interest in doing business with Miami-Dade County.

Sincerely,

Claudious Thompson, SBD Section Chief
 Small Business Development Division

Ms. Maria J. Molina
 NOVA CONSULTING, INC.
 Cert No: 1745
 July 28, 2017
 Page 2

CATEGORIES: (Your firm may bid or participate on contracts only under these categories)

0301 - HIGHWAY SYSTEMS-SITE DEVELOP/PARKING LOT DESIGN (SBE/AE)	1003 - ENVIRONMENTAL ENGINEERING-BIOLOGY SERVICES (SBE/AE)
0302B - HIGHWAY SYSTEMS/MINOR HIGHWAY DESIGN (SBE/AE)	1005 - ENVIRONMENTAL ENG-CONTAMINATION ASSESS & MONITOR (SBE/AE)
0401 - AVIATION SYSTEMS-ENGINEERING DESIGN (SBE/AE)	1006 - ENVIRONMENTAL ENG-REMEDIAL ACTION PLAN DESIGN (SBE/AE)
0501 - PORT & WATERWAY SYSTEMS-ENGINEERING DESIGN (SBE/AE)	1007 - ENVIRON ENG-REMEDIAL ACTION PLAN IMPL/OPER/MAINT (SBE/AE)
0509 - PORT & WATERWAY SYSTEMS-ENVIRONMENTAL DESIGN (SBE/AE)	1008 - ENVIRON ENG-PATHOGEN AND CONTAMINANT RISK ANALYSIS (SBE/AE)
0601 - W & S SEWER SYS-WATER DIST & SANITARY SEWAGE COLL (SBE/AE)	1009 - ENVIRON ENG-WELLFIELD,GRNDWTR,SURFWATER PROTEC&MGT (SBE/AE)
0602 - WATER & SANITARY SEWAGE PUMPING FACILITIES (SBE/AE)	1100 - GENERAL STRUCTURAL ENGINEERING (SBE/AE)
0603 - W & S SEWER SYS-W & S SEWAGE TREATMENT PLANT (SBE/AE)	1200 - GENERAL MECHANICAL ENGINEERING (SBE/AE)
0700 - SOLID WASTE COLLECTION & DISPOSAL SYSTEMS (SBE/AE)	1500 - GENERAL CIVIL ENGINEERING (SBE/AE)
1001 - ENVIRONMENTAL ENG-STORMWATER DRAINAGE DESIGN SERV (SBE/AE)	1700 - ENGINEERING CONSTRUCTION MANAGEMENT (SBE/AE)
	1903 - VALUE ANALYSIS/LIFE-CYCLE COSTING-HIGHWAY SYSTEMS (SBE/AE)
	1904 - VALUE ANALYSIS/LIFE-CYCLE COSTING-AVIATION SYSTEMS (SBE/AE)
	1905 - VALUE ANALYSIS/LIFE-CYCLE COSTING-PORT & WATERWAY (SBE/AE)
	1906 - VALUE ANALYSIS/LIFE-CYCLE COSTING-WATER & SANITARY (SBE/AE)
	1909 - VALUE ANALYSIS/LIFE-CYCLE COSTING-SOILS FOUN/MATER (SBE/AE)
	1910 - VALUE ANALYSIS/LIFE-CYCLE COSTING-ENVIRONMENTAL EN (SBE/AE)
	1916 - VALUE ANALYSIS/LIFE-CYCLE COSTING-GEN CIVIL ENG (SBE/AE)
	541330 - ENGINEERING SERVICES (SBE/AE)

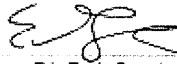
State of Florida

Woman & Minority Business Certification

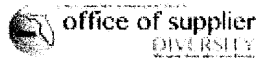
Nova Consulting, Inc.

Is certified under the provisions of
287 and 295.187, Florida Statutes, for a period from:

02/05/2018 to 02/05/2020



Erin Rock, Secretary
Florida Department of Management Services



Office of Supplier Diversity • 4050 Esplanade Way, Suite 380 • Tallahassee, FL 32399 • 850-487-0915 • www.dms.myflorida.com/osd



Florida Department of
TRANSPORTATION

Florida Unified Certification Program (UCP) Disadvantaged Business Enterprise (DBE) Directory

Florida UCP DBE Directory

Number of Records Returned: 1
Selection Criteria:
Vendor: NOVA CONSULTING INC

Vendor Name: **NOVA CONSULTING INC**

DBE Certification: CERTIFIED

MBE Certification: Certified

DBA:

Former Name:

Business Description: ENGINEERING SERVICES

Mailing Address: 10486 NW 31 TERRACE
MIAMI, FL 33172-

Contact Name: MARIA J MOLINA
Email: MARKETING@NOVA-CONSULTING.COM

Phone: (305) 436-9200

Fax: (305) 436-9265

Statewide Availability: N

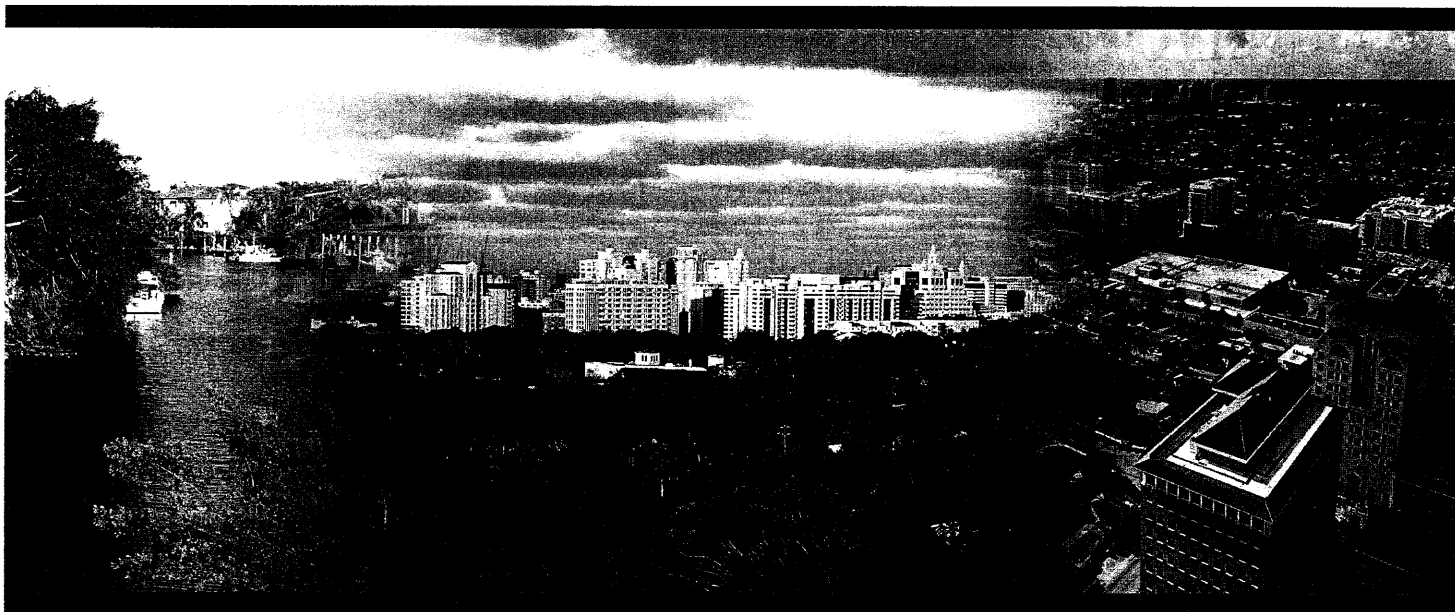
ACDBE Status: N

Certified NAICS

541330	Engineering Services
541990	All Other Professional, Scientific, and Technical Services
562112	Hazardous Waste Collection
562910	Remediation Services

CORAL GABLES

THE CITY BEAUTIFUL



SECTION II

implementation, and to meet the City's expectations in terms of cost, time, and quality. The section below introduces our sub-consultants, their experience, and the areas in which they will assist.

Gurri Matute PA – Architectural and Historic Preservation

Gurri Matute PA (GMPA) is a full-service architectural firm established for over 19 years and is headquartered in Miami, Florida. The core competencies of the firm include work primarily with large institutions and government sector type projects in the areas of Aviation Design, Commercial, Healthcare, Higher Education, Institutional, Historic Preservation, and Hospitality Design. GMPA's in-house design services include master planning in connection with urban sites, facilities planning, design and oversight, design and construction documents for permitting, construction inspections, and construction administration. Additionally, GMPA provides peer review of other A/E's projects, commission, retro-commission, feasibility studies, space planning, 40-year re-certifications, terminal-wide life safety consulting, and interior design.

Longitude Surveyors – Surveying and Mapping

Established in 2004, Longitude Surveyors (LS) is a firm offering a broad range of provided land surveying services to the private sector for commercial, office, industrial, institutional, recreational and residential developments, and to the public sector for roads, public works, schools, and parks in the South Florida area. As one of South Florida's premier Surveying & Mapping and Underground Utility Location companies, Longitude professionals apply their experience and rigor to provide exceptional results.

Geosol, Inc. – Geotechnical Services

Geosol, Inc. (GEOSOL), a local firm located in Miami Lakes, certified as an FDOT Disadvantaged Business Enterprise (DBE) and as a Miami-Dade County Small Business Enterprise (SBE). GEOSOL is pre-qualified in FDOT Work Groups (9.1, 9.2, 9.4.1 & 9.4.2 & 9.5) and deeply experienced with all required geotechnical services. The firm provides geotechnical engineering and testing services, including subsurface exploration studies, laboratory testing, engineering, consulting, and design of foundation systems. The firm offers the largest pool of local resources, including equipment and qualified staff, with the necessary capabilities, to effectively deliver on this uniquely challenging geotechnical project. GEOSOL is very experienced with the specific subsurface site conditions and has consistently delivered high quality services to Miami-Dade County, South Florida municipalities and FDOT with high performance grades while earning a high reputation for quality and geotechnical engineering excellence on past contracts and has obtained outstanding grades of 4.7 or higher on a scale of 5.0.

Mr. Oracio Riccobono, PE is the proposed geotechnical engineer of record. He has 33 years of geotechnical experience, in all FDOT Districts, including D4 & D6 as well as The Town of Miami Lakes. Oracio clearly understands project issues concerning this contract, thus, no learning curve will be required. Oracio has also been selected by FIU to be Adjunct Lecturer in the field of Geotechnical Engineering. Additionally, Oracio was the GEOR for the \$70 million 2.6-mile bridges on Tamiami Trail in Miami, which included the design & 100% PDA testing of over 650 piles, the \$22-million DB for US-1/SR 5 reconstruction and bridge replacement over CSX Railroad in Indian River County, the \$45-million DB Miami International Airport (MIA) Central Blvd., the \$175-million DB for SR 826, Section 2, the \$45-million NW 25th Street Viaduct over SR 826, and the \$500-million MIC-MIA Mover Station for connection between MIA and the Car Center and MIA's SFRTA/MDT Train Station.

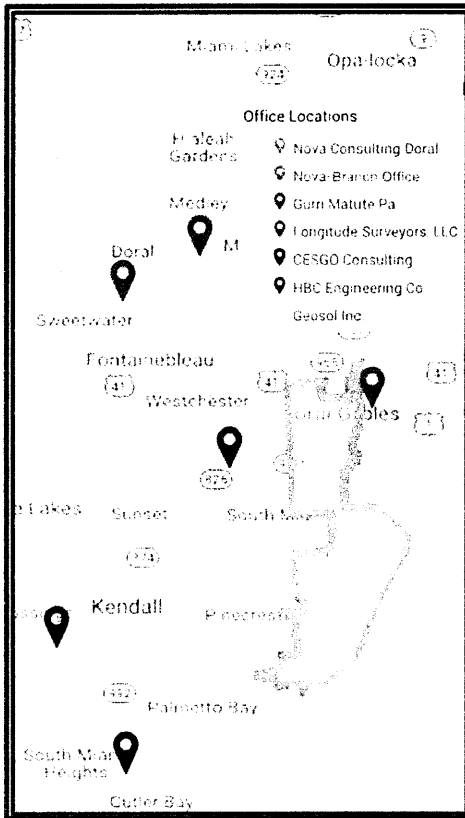
CesGo Consulting Engineers, Corp. – Electrical, Mechanical

Established in the City of Coral Gables in 2011, CesGo Consulting Engineers is a family-owned Mechanical and Electrical Engineering Consulting firm. The firm's staff consists of design engineers and draftsman with a range of experience in the design of commercial, and residential infrastructures. They have worked mainly in projects for the private sector. These projects have involved Heating, Ventilation and Air Conditioning Systems, Plumbing, Fire Protection, Fire Alarm Systems, Motors Centers and Backup Generator Systems, and Interior/Exterior Lighting.

HBC Engineering Company – Paving, Roadways, Traffic

HBC Engineering Company (HBC) has the expertise and resources to support a wide range of design/engineering services from concept through construction. HBC structured to provide a quick, efficient response to the project needs of municipalities, governmental agencies, individuals, private developers, school districts and industries. Their services typically begin with the initial conceptual plan and finish with the project closeout. HBC Design / Engineering services include Highway Design, Lighting, Civil Engineering, Construction, Plans Preparation.

SECTION II



Under this contract, timely response to the City's requests and local knowledge is critical. Having local consultants with offices nearby determines the firm's ability to provide the best level of service and consistently meet the project goals. Regarding this criterion, it's worth mentioning that Nova is headquartered in Miami Dade County and has established offices throughout Southeast Florida, including a branch office located one (1) block away from the City (3850 Bird Road), all within a very close proximity to the City of Coral Gables offices. In addition, Nova Team-members are all local small businesses with one or more offices in Miami Dade County, which means that our team would offer the City with specialized expertise less than 1 hour away, depending on traffic (please refer to map for office locations). Given the geographical location of our offices, The Nova Team considers itself to be in an unparalleled position to provide the City with the best level of service for its projects.

The following table shows some representative projects that illustrate the experience and support the scope coverage by each of the Nova team-members:

Projects	Firm	Project Experience vs. Scope																	
		Water & Sanitary Sewer Systems	Planning & General Civil Engineering Design	Paving & Drainage Assessments & Design	Environmental Engineering & Hazard Mitigation	Construction/Resident Engineering Services	Permitting Services	GIS/BIM/CADD	Grant Application Services	Pump Stations	Sustainability & LEED®	Comprehensive Studies	Preparation of Plans/Specifications/Reports	Hydraulic Analysis/Modeling	Architectural Services	Historical Preservation	Electrical Engineering	Land Surveying Services	Geotechnical Services
Town of Medley- NW 75th Street Drainage	Nova Consulting	✓	✓				✓	✓				✓	✓						✓
Town of Medley- SCADA Replacement	Nova Consulting	✓						✓		✓				✓					
Town of Medley- GIS and Sewer Atlas	Nova Consulting	✓						✓				✓							
Town of Medley- Panamerican Bridge- Tiger II Grant	Nova Consulting	✓							✓										
Town of Medley- NW 116th Way Bridge Repairs-LAP Project	Nova Consulting	✓	✓			✓	✓	✓	✓			✓							✓
Town of Medley- SewerGEMS Sewer Computer Model	Nova Consulting	✓						✓	✓				✓						
RER- Environmental Cleanup, Compliance and Related Services	Nova Consulting				✓		✓	✓				✓	✓						
RER- Ludlam Trail	Nova Consulting	✓		✓			✓	✓				✓	✓	✓					
FDOT Contamination Assessment and Remediation Contract	Nova Consulting				✓		✓	✓				✓	✓						
WASD Pump Station Improvements Program (120+ Pump Stations)	Nova Consulting	✓	✓	✓		✓	✓	✓		✓			✓	✓					
WASD Small Pipeline Design	Nova Consulting	✓	✓	✓			✓	✓				✓	✓					✓	✓
WASD Small Pump Station Design	Nova Consulting	✓	✓	✓			✓	✓		✓			✓	✓					
WASD- Civil Engineering Design for South Miami Heights WTP	Nova Consulting	✓	✓	✓			✓	✓				✓	✓						
Miami Dade County- Irma Disaster Recovery- FEMA	Nova Consulting				✓	✓													
MDAD Planning- Civil Engineering for Fumigation Facility	Nova Consulting	✓	✓	✓	✓			✓				✓	✓	✓					
MDAD Planning- Civil Engineering for Test Cell Facility	Nova Consulting	✓	✓	✓	✓			✓				✓	✓	✓					
MDAD- MIA Canal Relocation and Utilities Modifications	Nova Consulting	✓				✓													
MDAD- MIA Northside Utility Corridor Link	Nova Consulting	✓				✓													
BCAD Planning- Civil Engineering for New 5-Gates Terminal	Nova Consulting	✓	✓	✓	✓			✓				✓	✓	✓					
BCAD- Eastside and Westside Utilities	Nova Consulting	✓				✓													
GSA- Miami Dade Children's Courthouse	Nova Consulting				✓		✓					✓							
NYCDEP- 26 Ward Wastewater Treatment Plant	Nova Consulting	✓			✓	✓						✓							
WASD Small Pipeline Design	Nova Consulting	✓	✓	✓			✓	✓				✓	✓					✓	✓
Historic Hampton House Restoration & Adaptive Reuse (GM)	Gurri Matute															✓	✓		
Greynolds Park Renovations and Improvements (GM)	Gurri Matute															✓	✓		
Gratigny Lift Station (Miami, FL)(CG)	CesGo																	✓	
Baptist Hospital Headquarter Lift Station (Miami, FL)(CG)	CesGo																	✓	

SECTION II

2) PERMITTING EXPERIENCE

To achieve smooth and continuous progress during design and construction of the City's infrastructure projects, coordination with various governmental agencies that have jurisdiction over the City of Coral Gables is required.

Over the years, Nova has established working relationships with federal, state, and local agencies, developing considerable expertise providing regulatory permitting and compliance services throughout Miami-Dade County. The firm has been involved with the acquisition of permits for a myriad of projects through planning, design, and construction phases. Our understanding and local knowledge of city and state agencies enhances our ability to perform this role with confidence, which aims at completing and processing required permits without any impact or delay to the City's program and/or project schedules.

Through its years of experience, Nova has developed a concise permitting strategy:

1. Schedule and attend pre-application meetings with the permitting agencies early in the design stage to obtain key assurances that the project needs to provide.
2. Work hand in hand with the Owner and the permitting agencies to ensure design decisions will not impact the ability to obtain permits.
3. Submit applications and follow-up with the permitting agencies to ensure timely response to potential Requests for Information (RFIs).
4. Make arrangements for post-permit compliance monitoring to ensure regulatory compliance with the permit conditions during construction.

In addition to the firm's strategy, and based on our previous experience with the City, Nova guarantees effective lines of communication are always open and maintained with the City's local authorities, and that local rules, regulations, and guidelines are being adhered to.

The aforementioned strategy has proven effective in Nova's past experience in interacting and coordinating with federal, state, and local permitting agencies, such as: the United States Army Corps of Engineers (USACE), the United States Coast Guard (USCG), the Florida Department of Environmental Protection (FDEP), the South Florida Water Management District (SFWMD), the State Historic Preservation Office (SHPO), the Florida Department of Transportation (FDOT), and the Florida Department of Health (FDOH), as well as Miami-Dade County agencies including but not limited to the Water and Sewer Department (WASD), the Department of Regulatory and Economic Resources (RER), Public Works and Waste Management (MDPWWM) and the Building Department (MDBD).

Nova has applied this strategy in a number of Miami Dade County projects. Examples that showcase our experience are:

Delaware Parkway Swing Bridge (Tamiami Canal Historic Bridge)

Built in 1930, this two-lane, bob-tailed historic swing bridge crosses the Tamiami Canal (C-4) on NW South River Drive in Miami Springs. This project entailed replacing the existing 124-foot long swing bridge with a single leaf bascule bridge. Nova coordinated the environmental permitting efforts for this project on behalf of the design team and Miami-Dade County. Nova prepared environmental reports for permitting purposes which included sediment and water sampling and analysis; Turbidity, Water Quality Monitoring, and Manatee Protection Plans; and provided permitting coordination (including pre-application meetings, permit applications, response to RAI) with various federal, state, and local regulatory agencies, such as: the United States Army Corps of Engineers (USACE), the United States Coast Guard (USCG), the Florida Department of Transportation (FDOT), the State Historic Preservation Office (SHPO), the South Florida Water Management District (SFWMD), and Miami-Dade Department of Environmental Resource Management (DERM) to expedite completion and approval of the required environmental permit applications.

Bay Harbor Bridges Maintenance Repairs

This project entailed rehabilitation to the deteriorated substructure; fender replacement; renovation of the control house; cleaning and painting of structural steel; repair of existing traffic railing; and replacement of: subaqueous cable, span roadway grating, span locks, traffic gates, signals and electrical operating system. Nova was in charge of environmental permitting coordination and representation, including pre-application meetings, permit applications, response to RAI with federal, state and local agencies, such as: the USACE, USCG, FDEP and RER, among others.

SECTION II

3) EXPERIENCE WORKING WITH OTHERS

Our team's collective technical expertise and experiences providing services on a task order projects enables us to have a clear understanding of the need for quick accessibility to staff, as well as the ability and depth of resources to interact with multiple stakeholders and provide services on multiple tasks orders at the same time. Nova and the selected sub consultants have worked with one another on past projects; thus ensuring there will be no time lag for personal training or a "learning curve" period. The team is equipped with the technical staff and knowledge to begin working immediately on any of the City's projects.

Regarding the work with regulatory agencies, Nova is experienced in providing coordination and holds strong relationships with Federal, State and Local regulatory agencies, such as DERM, FDEP and USEPA; and utilities, such as FPL, ATT and Comcast, to name a few, for the successful and timely completion of Miami Dade County projects and programs.

In addition to its ability to work with regulatory agencies, Nova takes pride in its ability to successfully deliver multiple contracts simultaneously as a prime consultant, working with multiple disciplines and subconsultants. An example that showcases Nova's capability to deliver multiple large task order contracts is the current IDC (W912DR-14-D-0004) with the USACE Baltimore District, Washington Aqueduct Division. Under this contract, Nova is simultaneously working on two (2) significant task orders for repairs and renovations to Washington Aqueduct facilities (1- Second High Reservoir Maintenance and Improvements, and 2- Old Conduit Repairs). These assignments are progressing on schedule and within budget, in spite of the complexity and undefined nature of certain areas of the scope.

Nova is also currently the Program Manager for the Miami-Dade Water and Sewer Department (WASD) Pump Station Improvement Program (PSIP) with an investment of \$ 168 million to upgrade the Wastewater Collection and Transmission System (WCTS) serving a population of 2.3 million. The PSIP was created to evaluate and improve the operation and transmission capacity of 147 projects, including the upgrade and/or repairs of pump stations, force mains and sanitary gravity lines. The five-year PSIP started in January 2014 and the County has extended the Contract by an additional two-years and added additional projects

Within this endeavor, Nova has successfully managed the program as the prime consultant with five (5) other sub-consultants that provide support services for the PSIP in planning & engineering, design management, construction management, commissioning and public outreach services. Additionally, the PSIP manages five (5) design consulting teams that provide design and limited constructions services for the upgrade / rehabilitation of pump station, force main or sanitary sewer gravity line projects. Within the design and construction services, Nova coordinates with multiple disciplines: civil, environmental, mechanical, structural, electrical, geo-technical, hydraulics, drainage, surveying, traffic and roadway, among others.

It's worth mentioning that one of Nova's main long-term programs is associated with the U.S. Army Corps of Engineers' Comprehensive Everglades Restoration Program. Nova's involvement in this initiative has been significant in the last 10 years and has covered all areas of project development ranging from planning to design and construction. During this period, Nova has concurrently and successfully participated in large task order contracts and interacted with multiple companies, disciplines and stakeholders, such as: 1) Picayune Strand Restoration Project (PSRP); 2) EAA A1 Flow Equalization Impoundment (EAA A1 FEB); and 3) L-8 Reservoir.

SECTION II

4) ENVISION AND LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (LEED)

Sustainability for Nova and for the Nova team is a critical area for successful development of infrastructure projects. Consistent with this philosophy, Nova is member of the Institute for Sustainable Infrastructure and our President and Coral Gables resident **Maria J. Molina, P.E., ENV SP** is an Envision SP professional that guides all technical areas towards a sustainable practice. In addition, Nova as well as its team-members have several personnel holding Leadership in Energy and Environmental Design (LEED) and Envision Certifications and have had significant experience in applying Envision and LEED concepts to a multitude of projects, as discussed in this section.



Maria J. Molina, P.E., ENV SP

Envision

The Envision concept consisting of the triple bottom line theory, expands the traditional company framework to include three performance areas: social, monetary, and environmental profits, as opposed to merely being concerned with monetary profits. To attain the triple bottom line, the Nova team makes every effort in the City's projects to give back to the community, reduce the ecological footprint of our projects, and ensure financial profitability by providing cost effective design alternatives.

The main example that showcases Nova's Envision expertise, consists of the services that Nova has provided to various NYCDEP Sustainability Management Plan (SMP) projects. The Plan emphasizes in the applicability of Envision to achieve the triple bottom line by establishing a minimum set of sustainability standard quality requirements for implementation (under SOP 049) during facility planning and design phases. Types of projects include water infrastructure projects, including potable water distribution, stormwater management, green infrastructure, and capture/storage projects.

Worth noting is that Nova participated in the W26-20 contract for NYCDEP as part of the Construction Management team. This project involves the 26-ward wastewater treatment plant (WWTP) and it was the first WWTP in the United States to ever receive an Envision rating. It received a silver rating in 2015.

Nova's projects that showcase Envision experience with NYCDEP Sustainability Management Plan (SMP) projects.

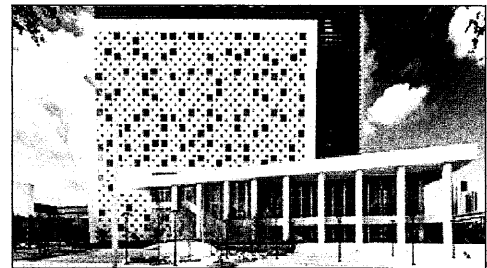
- Construction Services for 26 Ward Wastewater Treatment Plant- Silver Envision rating project
- Triple bottom line evaluation for Staten Island BlueBelt Program
- Testing and monitoring and triple bottom line evaluation- NYC Green Infrastructure:
- Water for the Future – Roundout-West Branch Tunnel (RWBT) Sustainability Management Plan: Nova provided project administration
- Wetland delineation and SWPPP- Esopus Creek Bridge Replacement
- Scheduling and cost estimating for Resiliency Program for Wastewater Treatment Plants
- H&H modeling, permitting, cost estimating, and triple bottom line evaluation- Citywide Stormwater Engineering Analysis and Planning (CSEAP):

LEED

Nova is experienced with the LEED process, as demonstrated by its active participation in the Miami-Dade Children's Courthouse, a 14-story building located at 112 NW 3rd Street in Miami-Dade County, and the LEED application which obtained a Gold certificate. Designed for LEED certification, sustainable features include a green roof at level four, permeable paving, low flow plumbing fixtures, drip irrigation and native plants. For this project, Nova provided all environmental services and filled all forms and documentation required for the LEED application.

In addition, the Nova team has extensive experience in LEED, including projects such as West Palm Beach Babcock Armory Renovation, Wynwood neighborhood Service Center, Homestead Armory Renovation and Larcenia J. Bullard Plaza. Nova's team experience encompasses the entire LEED application process including:

- Registering projects with the United States Green Building Council (USGBC), utilizing V2.2 and the current V3.0 rating systems
- Completing online templates
- Coordinating reviews with the USGBC
- Providing enhanced commissioning services
- Evaluating LEED criteria and obtaining actual certifications
- Providing construction phase services and serving as the government's representative to verify the contractor's conformance with their LEED plan and supporting contractors in obtaining LEED credits. These services also include acting as LEED administrator, providing onsite inspection, participation in review meeting and preparing documentation.



Miami Dade Children's Courthouse- LEED Gold



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6) Organizational Chart



PROJECT TEAM LEADERS



PRINCIPAL IN CHARGE
Maria J. Molina, PE, ENV SP



PROJECT MANAGER
Juan C. Prieto, PE, PMP



TECHNICAL DIRECTOR - QA/QC
Steven S. Eagle, PE

SUBCONSULTANTS	
Gurri Matute (GM)	Architectural
Longitude (LO)	Surveying
CesGo (CE)	Electrical
Geosol (GE)	Geotechnical
HBC Engineering (HBC)	Paving & Roadway

TEAM RESOURCES

WATER & SANITARY SEWER SYSTEMS

Steven S. Eagle, PE
Jonathan Pappas, PE
Catalina Lopez, EIT
Jacqueline Pape

PLANNING & GENERAL CIVIL ENGINEERING DESIGN

Harold Aiken, PE
Marco Finazzi, PE
Cynthia Estivil, EIT
Nikitha Shamirpet

PAVING & DRAINAGE

ASSESSMENTS AND DESIGN

Orlando Alfonso, PE
Alex Yu, EIT
Dulyma Kern
Adebayo Coker, PE (HBC)

ASSESSMENTS & DESIGN

ENVIRONMENTAL ENGINEERING & HAZARD MITIGATION STRATEGIES/PERMITTING

Maya Compton-Grant
Colin Taylor, LEED® GA, ENV SP
Alex Yu, EIT
Stewart Fiskien, EIT
Julianne E. Cossavella
Leonardo Costa

CONSTRUCTION SERVICES

Theresa Jablonski, PE
Rachel Ferradaz, PE
Giuseppe Santoro, PE
Bryan Moreno, EIT
Jesus Misas, EIT
Colin Adams
Rafael Lazo
Frank Bendana
Luis Dante

SUSTAINABILITY & LEED

Maria J. Molina, PE, ENV SP
Colin Taylor, LEED® GA, ENV SP
Saksham Gupta, EIT, LEED®, CAPM
Marta McNab, LEED® AP (GM)
Pedro Elias Gonzalez, PS, ENV SP (LO)

ARCHITECTURE

Daphne I. Gurri, AIA, LEED® AP (GM)
Jose Matute, AIA, LEED® AP (GM)

HISTORICAL PRESERVATION

Daphne I. Gurri, AIA, LEED® AP
Ebehi Ijeware, LEED® GA (GM)

STRUCTURAL

Nelson Walters, PE
Eduardo Guillen

ELECTRICAL

Joel Gonzalez, PE (CE)
Maria M Gonzalez (CE)

SURVEYING

Eddie Suarez, PLS (LO)
John H. Adler III, PSM

GEOTECH

Oracio Riccobono, PE (GE)
Ismail Adnan, P.E (GE)

GIS/BIM/CAD

Jason Reynolds
Daymara Otero

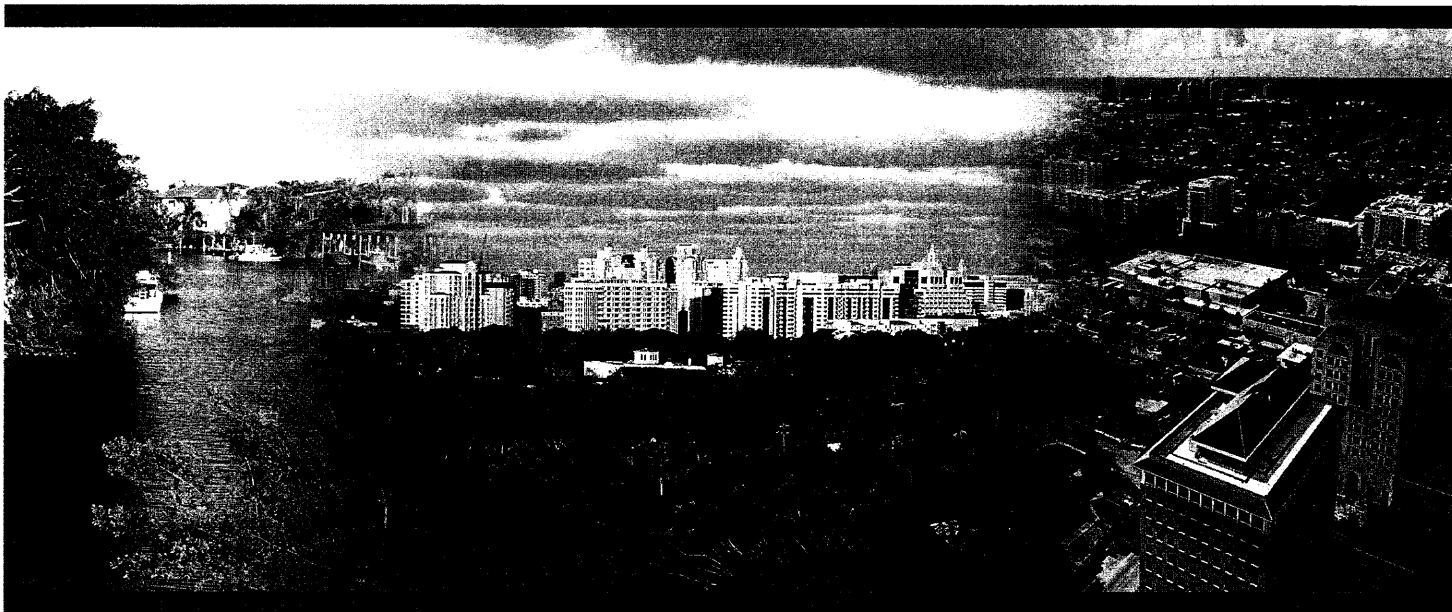
GRANTS

Juan C. Prieto, PE, PMP

SECTION III

PROJECT UNDERSTANDING, PROPOSED APPROACH, AND METHODOLOGY

**CORAL
GABLES**
THE CITY BEAUTIFUL



SECTION III

1) PROJECT APPROACH AND METHODOLOGY

- 1.1 Project Understanding
 - 1.1.1 City's Existing Infrastructure
 - 1.1.1.1 Traffic and Roadways
 - 1.1.1.2 Water and Sanitary Sewer System
 - 1.1.1.3 Stormwater System
 - 1.1.2 Key Issues and Concerns
- 1.2 Project Methodology
 - 1.2.1 Planning and General Civil Engineering Design Services
 - 1.2.1.1 Waterways Evaluation Assessment and Canal Bank Stabilization.
 - 1.2.1.2 Master Planning
 - 1.2.1.3 Hydraulic Modeling
 - 1.2.2 Water and Sanitary Sewer Systems
 - 1.2.2.1 Distribution and Collection Lines
 - 1.2.2.1.1 New and Existing Pipelines - New Installations, Repairs and Modifications to Existing Lines
 - 1.2.2.1.2 New and Existing Pump/Lift Stations - New installations, Repairs and Modifications
 - 1.2.2.1.3 Leak Studies
 - 1.2.2.1.4 Gravity Systems
 - 1.2.2.1.5 Pressurized Systems – Water Mains / Force Mains
 - 1.2.3 Paving and Drainage Assessments and Design
 - 1.2.3.1 Paving, Grading, and Drainage
 - 1.2.3.2 Sea Level Rise (SLR)
 - 1.2.4 Environmental Engineering and Hazard Mitigation Strategies
 - 1.2.5 Regulatory Agency Coordination
 - 1.2.6 Additional Services
 - 1.2.6.1 Public Outreach and Information
 - 1.2.6.2 Assistance with Grant Application
 - 1.2.6.3 Addressing Construction Constraints and Constructability Issues
 - 1.2.6.4 Resident Engineering/Construction Management Services
 - 1.2.7 Survey and Easement Services
 - 1.2.8 CADD / BIM / GIS

SECTION III

1) PROJECT APPROACH AND METHODOLOGY

1.1 PROJECT UNDERSTANDING

The Nova Team has been working diligently at obtaining the depth and breadth of information required to successfully respond to the services required for this project. As a result, we have identified and confirmed the goals of the City, as well as the key issues and challenges that may become present during the course of the contract.

Our technical expertise and past experience providing services on a task order basis enables us to have a clear understanding of the need for quick accessibility to our staff, as well as the ability and depth of resources to provide services on multiple task orders at the same time.

The Nova Team's strong local presence, in conjunction with the fact that key team members will be readily accessible for projects under this contract, are designed to provide timely response to the City's task order requests and schedule constraints.

1.1.1 City's Existing Infrastructure

The City is located in east-central Miami-Dade County and encompasses an area of approximately thirty-seven square miles. According to the latest US Census Bureau information, the estimated population within the City in 2017 was approximately 51,000 inhabitants.

The City owns and operates a wastewater collection and transmission system, as well as a stormwater utility. The City's wastewater collection system is estimated to serve 50-percent of the City's residents (approximately 26,000 people) and the remainder of the City utilizes septic tanks (approximately 25,000 people).

1.1.1.1 Traffic and Roadways

Over the past several years the City of Coral Gables has been the focus of several detailed traffic circulation studies, each attempting to address the problem of increasing traffic volumes on an area with significant historical significance. An estimated inventory of the major thoroughfares in City of Coral Gables is summarized below.

State Principal Arterials

- US 1/South Dixie Highway (City limit to City limit)
- LeJeune Rd (SW 8th St. to US 1)
- SW 8th Street/Tamiami Trail (Red Rd to Douglas Rd)
- Bird Road (Red Rd. to Douglas Rd.)

State Minor Arterials

- Red Rd (SW 8th St. to US 1)
- North Kendall Dr (Red Rd. to Old Cutler Rd.)
- Miller Road (San Amaro Dr. to Red Rd.)
- Miracle Mile (LeJeune Rd. to Douglas Rd.)

County Minor Arterials

- Old Cutler Rd (Sunset Rd. to City limit)
- Red Rd (US 1 to N. Kendall Dr.)
- Douglas Rd (Flagler to US 1)
- Ponce de Leon Blvd. (Alhambra Plaza to US 1)
- Coral Way (LeJeune Rd. to Red Rd.)
- Biltmore Way (Segovia St. to Miracle Mile)
- LeJeune Rd (US 1 to Sunset Rd.)
- Sunset Rd (LeJeune Rd. to Red Rd.) • Sevilla Ave/Anastasia Ave (Segovia St. to Red Rd.)

SECTION III

- Ingraham Highway (City limit to LeJeune Rd.) • Blue Rd (Ponce de Leon Blvd. to Red Rd.)
- Red Rd (N. Kendall Dr. to Old Cutler Rd.) • Grand Avenue (City limit to US 1)

City and County Collectors

- Ponce de Leon Blvd. (Flager to Alhambra Plaza)
- Ponce de Leon Blvd. (US 1 to Red Rd.)
- Alhambra Circle (Douglas Rd. to Coral Way)
- Alhambra Circle/San Amaro Dr (Bird Rd to Ponce)
- Granada Blvd. (SW 8th St. to Sunset Rd)
- University Dr (Ponce de Leon Blvd to Granada Blvd)
- Segovia Street (Coral Way to Anastasia Ave.)

Roadway and intersection improvements, including upgrades to meet the Complete Streets concept (i.e., to include bike and pedestrian lanes) are anticipated as part of this contract.

1.1.1.2 Water and Sanitary Sewer System

The City of Coral Gables receives water service from Miami-Dade Water and Sewer Department (WASD), entity responsible for operational responsibilities in connection with the potable water system. The City is serviced by the Alexander Orr Water Treatment Plant with an allocated capacity of 17.1MGD. The system is fed by a 30" supply line, which is connected to largely 8" and 12" mains, although a few 16" and 20" mains were identified. WASD has been replacing existing undersized pipes in Coral Gables as part the City's street improvement program. Most of the replacement pipes are a minimum of 8" in diameter.

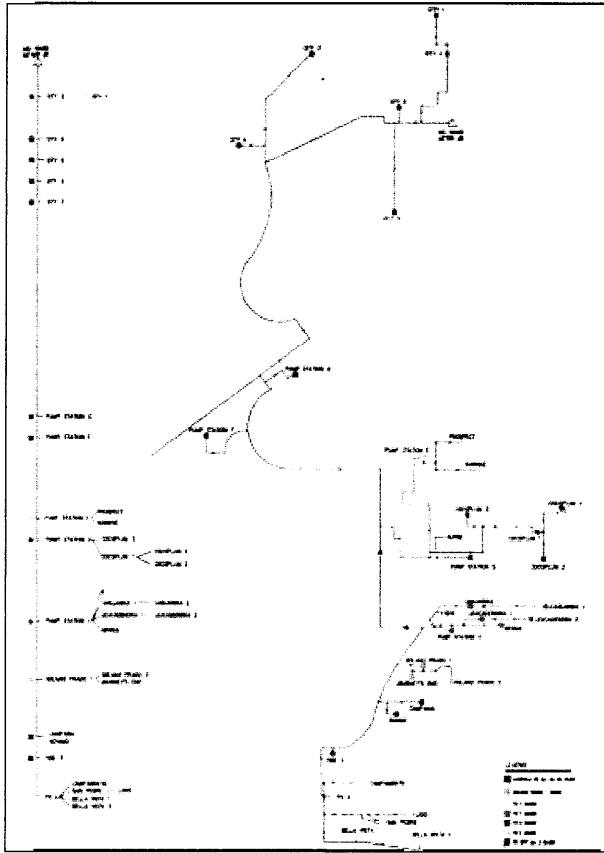
The City's wastewater collection system is comprised of 35 lift station service areas (basins), approximately 64 miles of gravity sewer mains, and over 1,400 manholes. Error! Reference source not found. presents a summary of the wastewater collection system inventory broken down by pipe diameter. Wastewater collected using the above-described City infrastructure is pumped to the MDWASD Central District Wastewater Treatment Plant for treatment and disposal. All flow exits the City through MDWASD Pay Meter No. 3 located at Cadima Avenue and Southwest 37th Avenue.

Wastewater Collection System Inventory

Pipe Size (Inches)	Feet	Miles
8	303,568	57.49
10	18,036	3.42
12	7,027	1.33
15	2,477	0.47
18	1,636	0.31
21	3,708	0.70
TOTAL	336,452	63.72

SECTION III

The System-Wide Monthly Sewer Flow averages at about seventy (70) million gallons in 2018, with a low of thirty-nine (39) million gallons in the dry season (Feb 2018) and a high of one hundred and two and five-tenths (102.5) million gallons in the wet season (May 2018).



Coral Gables Sanitary Sewer System Connectivity Schematic

Over the years, the City has been aggressively improving/repairing its wastewater pumping and transmission system, as funding permits. The City spent approximately \$464,800 in 2018 on various pump station improvements, sewer repairs and the City-wide infiltration and inflow reduction projects. According to the City of Coral Gables 2019-2023 Five Year Capital Improvement Plan (CIP), the City has budgeted approximately \$6.92 million dollars in 2019 for sanitary sewer projects.

Budgeted items consist of regular operation and maintenance duties as well as Capital Improvements projects mainly consisting of pump station rehabilitation projects.

The main and most time pressing rehabilitation item consists of electrical/control panel damage repairs from water intrusion and storm surge during Hurricane Irma in September of 2017. During 2017, the City replaced damaged components of these electrical/control panels in order to make them operational, and in 2018, the City performed full electrical/control panel in-kind replacements at some stations.

The City plans to continue the program of aggressively improving/repairing its wastewater pumping and transmission system.

The City also has a GIS based Sanitary Sewer Atlas in compliance with Miami-Dade County Code, providing longitude and latitude coordinates for all sanitary sewer manholes and valves, along with all available system information such as pipe materials, sizes, inverts, etc., as well as number of pumps, make, model, horsepower, operating voltage, etc. Efforts to maintain and

update the database are anticipated throughout the duration of the contract.

The City of Coral Gables continues to strive to provide a high level of service to its residents while continuing to improve the condition and reliability of its sanitary sewer system. To this end, prior to November 2016, as per County regulations, the City has performed rehabilitation activities to bring inflow and infiltration (I/I) levels in all basins within the 5,000 gpdim threshold. However, the City continues to perform rehabilitation work throughout the system, which is a service anticipated to be part of this contract. Type of work expected consists of: Cross Connection Elimination, Manhole Inflow Dish Installations, Fat, Oil and Grease (FOG) removal and Collection System Rehabilitation (including main lining, lateral lining, section lining, point repairs, and manhole repairs). Regarding the latter and in preparation for the November 2022 SSES Phase 1 submittal for Cycle 3, in 2019 the City intends to evaluate over 25,000 linear feet of the City's sanitary sewer collection system. This work is expected to include CCTV and smoke testing, as well as the identification of point repairs, manhole rehabilitation activities and lateral repairs to be performed.

Station Name	Planned Activity	Status	Completion Year (est)
Pump Station F	Pump Station Rehabilitation (no changes to existing concrete structures or pumps)	Design	2019
Journeys End	Pump Station Rehabilitation (no changes to existing concrete structures or pumps) and Force Main Extension	Design	2019
Cocoplum 1	Pump Station Rehabilitation and Force Main Extension	Permitting	2020
Pump Station D	Pump Station Rehabilitation	Design	2020

Current and On-Going Wastewater CIP Projects

SECTION III

1.1.1.3 Stormwater System

As part of the Public Works Department, the City of Coral Gables has a Stormwater Utility dedicated to the planning, construction, operation and maintenance of stormwater management systems, i.e., construct, reconstruct, improve, and extend stormwater utility systems – such as canal and drainage improvement projects and secondary drainage. It is also in charge of taking actions towards reducing pollution caused by silt, oil, gasoline, fertilizers, pesticides and other litter carried by the stormwater to the drainage systems and canals that have been developed to prevent flooding during heavy rainfall. Stormwater drains not only have to remove water from the streets as quickly as possible, but they also have to deal with all of the contaminants that get picked up along the way. Stormwater management and maintenance is funded through the City's General Fund and impact fees. Also, private developers are required in some instances to make drainage improvements in the public right-of-way to meet the City's stormwater level-of-service standards.

The City contains two major public outfall systems of positive drainage that service the Central Business District, the industrial area south of Bird Road and east of LeJeune Road and adjacent residential areas. These two major outfall systems discharge at Bird Road/Granada Blvd and Riviera/Jeronimo Drives. The area of the city that lies south of Sunset Drive and east of Old Cutler Road is entirely served by a series of outfalls and discharges. A few drainage wells, mainly in the Central Business District, serve high rise buildings. Drainage and food control systems in remainder of the City are comprised of a series of natural and man-made drainage features, including a network of swales, gullies, ditches and canals with natural areas and wetlands. The Coral Gables Waterway and Snapper Creek Canal are the two major natural drainage features in the City.

The City also contains drainage systems owned by other entities. The University of Miami and the Department of Transportation both have drainage systems within the City. Two private subdivisions (Cocoplum and Journey's End) also maintain their own drainage systems.

An estimated inventory of the City's stormwater and drainage infrastructure consists of: 2,700 Manholes, 12,000 Catch Basins, 11 Drainage Wells, 9 miles of Storm Drains/Culverts, 89 acres of Lakes, 1 Pumping Station, 3 Major Outfalls, 120 Outfalls, 6,100' of Exfiltration Pipe, 84,000' of Exfiltration Trench, 40 miles of Canals and Waterways. In the coastal areas, the inventory includes 13 storm water outfalls discharging into the residential canals in the Cocoplum development, ranging in size from 12 to 23". An outfall less than 24" in diameter discharges into the residential canal between Sunrise Place and Court. Four outfalls discharge in Matheson Hammock Park Marina basin and 3 outfalls discharge into the Bay at the park, all of which range in size from 12 to 23". Between Snapper Creek and Chapman Field, there are 23 outfalls ranging in size from 12 to 23" which discharge into residential canals.

1.1.2 Key Issues and Concerns

Upon review of the existing conditions of the City's infrastructure, Capital Improvements Program and the Budget for Year 2019, the following key issues are identified as the main ones to be addressed through this contract:

1. Traffic and Roadways
 - a. UM area lighting and roadway Improvements
 - b. Complete Streets, to include bike and pedestrian lanes.
 - c. Improvements in intersections such as Coral Way/Columbus, Coral Way/Granada and Granada and N. Greenway
2. Wastewater System
 - a. Continue design and implementation of repairs and rehabilitations required for several City's pump stations due to water intrusion and storm damage during Irma, mainly consisting of the repairs of the electrical/control panels.
 - b. Continue implementing SSES, sewer pipe rehabilitations and continue with the steady decrease in infiltration and inflow into the sewer system to ensure compliance with Miami Dade County Code Section 24-42.2.
 - c. Replacement of the Supervisory Control and Data Acquisition – SCADA/Telemetry System.
 - d. Compliance monitoring and reporting to the environmental agencies.
 - e. Continue with the Fat, Oil and Grease (FOG) removal and monitoring as required by environmental regulatory agencies.
3. Stormwater System:
 - a. Miscellaneous civil and drainage improvements as part of City's projects such as passive parks and garages

SECTION III

- b. Outfall evaluation and rehabilitation in Cocoplum and other problem areas.
 - c. Waterways Evaluation Assessment and Canal bank stabilization. The main one in connection with the C-3 Waterway Canal downstream of the Flood Control Structure G-93 to mitigate erosion of the bank. It will include reinforcement of the canal banks to decrease the sedimentation that ultimately reduces the effectiveness of the flood control structure and may cause severe scouring of bridge pilings.
 - d. Implementation of Sea Level Rise adaptation strategies to mitigate the City's risks and vulnerabilities and mitigate any impact to water quality, level of service and/or level of flood protection. The first of these actions consists of the storm baffle boxes to be installed in Sunrise and Edgewater storm areas.
4. Environmental Services
- a. Environmental Site Assessments Phase 1 and 2
 - b. Impact to Construction Assessments for any transportation Improvements.
 - c. Definition and implementation of hazard mitigation strategies and activities.
5. Miscellaneous Services to support the City's Mission
- a. Database management and data analytics to support the City's maintenance of its Cityworks City's Information Management System.
 - b. Resident Engineering and Construction Services for projects under implementation.

1.2 PROJECT METHODOLOGY

Our Team has the experience required to successfully complete the types of assignments listed in the scope of work documents. Our engineering services will be provided on a timely basis under task authorizations issued by the City. The team members assigned to this project offer credentials and experience in water, sanitary sewer, stormwater management, traffic and roadway, and environmental engineering projects of all kinds for the City and similar municipalities. The team is familiar with the City and permitting agencies' design guidelines and brings our unique expertise to project assignments. The project team is ready to work immediately, since no time lag for personnel training and/or equipment mobilization or "learning curve" period to become fully productive is required.

Our approach for providing project management throughout our assignments, as well as our continuous involvement, flexibility and targeted experience, will reduce the administrative burden on the City's Project Manager. Our proposed Project Manager and Coral Gables resident, **Mr. Juan C. Prieto, P.E., PMP** will be responsible for all coordination efforts, will serve as the primary point of contact with the City, and will ensure that all tasks are completed on a timely basis and within the approved budget. Our Team's demonstrated expertise, organizational skills, versatility, flexibility and careful attention to internal quality control prior to product submittals will save countless precious hours of the City's staff time and mitigate potential conflicts with project stakeholders.

The following sections will discuss specific details present in each of the projects expected under this contract.



Juan C. Prieto, P.E., PMP
Project Manager

1.2.1 Planning and General Civil Engineering Design Services

Services provided by Nova in the civil engineering field include all aspects associated with project development from site studies, conceptual design, detailed design, and permitting to construction management and inspection.

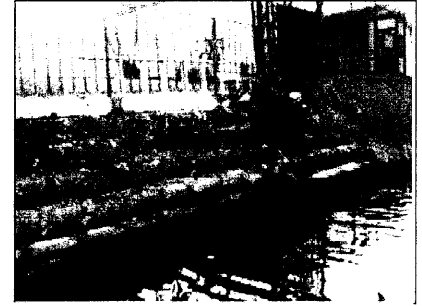
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1.2.1.1 Waterways Evaluation Assessment and Canal Bank Stabilization.

One of the key issues identified in the City's CIP is related to the C-3 Waterway Canal downstream of the Flood Control Structure G-93 where reinforcement is required to mitigate erosion of the bank and prevent scouring of the bridge pilings.

Nova just completed a similar type of work for City of Sunrise, where condition assessment inspections were performed to the City's embankments and structures. Profile sections were created to identify areas with higher collapsing risk and prone to erosion and Grout bags, interlocking blocks, Sox system and sheet pile alternatives were recommended for erosion control and mitigation plan including cost estimates and specifications.

Similar work was completed by Nova for the Town of Medley in the NW 116th Way Bridge, where Nova incorporated the installation of a concrete mat for bank slope stability and scour protection for the bridge as part of the bridge maintenance repairs. These repairs were approved and co-funded by FDOT through their Local Area Program (LAP).



City of Sunrise Embankment Protection

1.2.1.2 Master Planning

Master planning is a complex and comprehensive outlook on a City's existing and future infrastructure needs. Coordinating master planning efforts involves communication between many different facets of the City's administration, not just engineering. Typically, the main users of the City's master plans are engineers, but it is very important to involve all parties in the development of the plan.

Our team's approach to master planning includes utilizing engineers, planners and financial analysts, and developing a useful planning tool to assist the City in meeting future needs. Master plans are working documents that need to be updated on a fairly frequent basis – as changes in growth and regulations frequently occur and dictate the needs of a utility. Master plans encompass a review and discussion of service area demographics, existing infrastructure, future demands, service area growth, completed and expected capital improvements and relevant local, state and federal regulations. Typically, master plans involve the following tasks:

- *Assessment of existing equipment and facilities.* A thorough evaluation of the City's existing equipment and infrastructure. The assessment will consider things such as age, condition of equipment, useful life, etc.
- *Regulatory Review.* Evaluate new and potential future regulations and how they will impact the City's facilities.
- *Project Future Needs.* Identify and prioritize future needs of the City's systems. These needs may be a result of regulatory compliance and/or to accommodate future population changes and growth within the service area. This portion of the master planning process will also utilize modeling of technical parameters.
- *Develop Capital Improvement Plans.* CIPs will include repair or rehabilitation of existing facilities and infrastructure as well as plan for future needs. This effort will also determine funding sources and evaluate any potential financial programs available (such as grants, low interest loans, etc.) which may benefit the City.

In connection with Civil and Drainage engineering, Nova has been involved in restoration and master planning projects which entail the determination of current and future water quality and flow conditions. In order to establish the existing impacts to the system and/or to determine whether a proposed system will improve or impact the adjacent systems, Nova conducts extensive monitoring and analysis of the system data and in turn, an assessment of the benefits of proposed changes or modifications. Negative future impacts are adjusted with comprehensive alternative solutions and, additional studies are completed as necessary.

Specific Civil/Drainage services that are anticipated as part of the planning function include the following:

- Implementation of Stormwater Design and Flow Studies
- Regulatory Analysis & Review of Drainage Calculations
- Studies on Land Use and Area-wide Water Management Influences

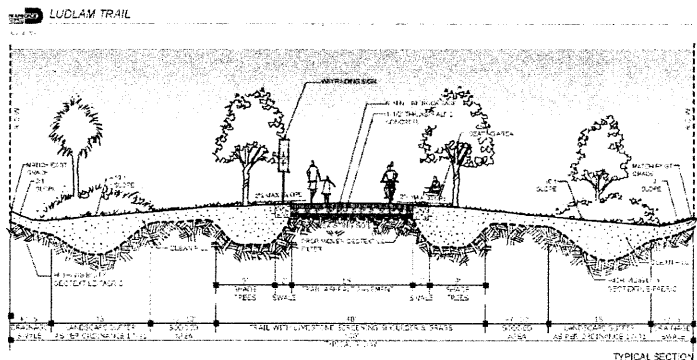
Nova has provided this type of planning services to the Miami-Dade County Department of Environmental Resources Management (DERM) and the Miami Dade Aviation Department (MDAD).

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Close coordination with DERM enabled the purchase of the land proposed for the construction of the Ludlam Trail. Miami-Dade County's vision of Ludlam Trail is a 6.2-mile long non-motorized, shared-used trail that serves local residents as well as visitors, commuters, and a wide variety of users throughout the County. It is anticipated that the trail will be used to walk, bike, run, and skate for fun and exercise; to access transit; to go shopping; and to commute to and from home, school, and work. Nova was tasked by Miami Dade County with evaluating contamination and

Nova was instrumental in DERM's/Miami Dade County Parks and Recreation Department's acquisition of the land for Ludlam Trail park. This effort involved preliminary contamination evaluation of soil and groundwater in combination with drainage solutions, proposed earthwork and contamination mitigation. The project included cost estimating to serve as basis for negotiating the land purchase transaction.

computing preliminary remediation cost estimates for the existing Florida East Coast Industries (FECI) railway corridor, to assist negotiations for purchase of the corridor from FECI.



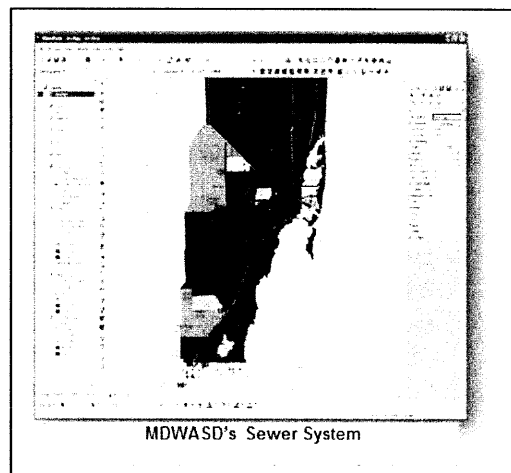
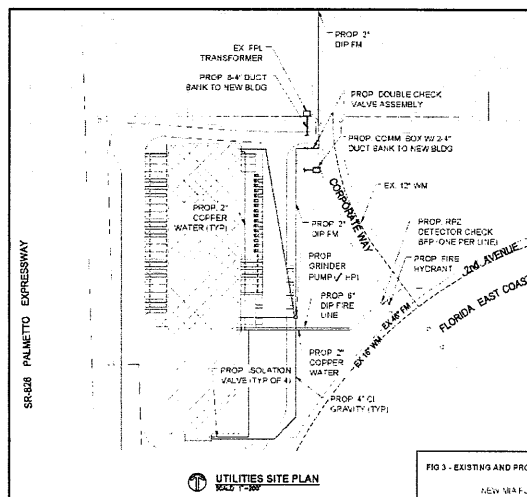
In addition to working closely with DERM, Nova is providing general site civil, utility and roadway access planning services for MDAD. As part of Miami International Airport's (MIA) Capital Improvements Program (CIP) driven to deliver elegant, efficient new facilities for passengers worldwide and the local South Florida community to enjoy, planning services have been a key effort in proposing the feasibility of these new facilities. Some of these new facilities include a new Fumigation Facility, a new Jet Engine Test Cell Facility, and the renovation of MIA's Concourse F, among others.

1.2.1.3 Hydraulic Modeling

Hydraulic modeling is used at planning stages to simulate the dynamics of water, wastewater and stormwater systems, to identify potential weak areas, and/or develop long range planning studies as well as facility sizing. For water and sanitary sewer systems, modeling is used to size water/force mains, evaluate pump station performance and sizing, determine pumping needs and identify bottlenecks that may need intervention. The project team has extensive experience utilizing many different hydraulic modeling software programs and analyzes each project on a case by case basis to determine the most effective modeling platform/software to be used. We are aware that the City currently utilizes hydraulic modeling to evaluate the wastewater and stormwater systems.

As part of the modeling tasks to be completed under this contract, the following approach will generally be followed:

Information Gathering: During this initial phase of the assignment, the team will become familiar with the previous modeling that has been conducted and will evaluate and advise the City whether or not to continue using the existing platform. Based on this evaluation, the team will collect more refined and current data for input to the model, specifically: operations, physical components and demands. Demands and demand allocations are determined based on population projections (updated on a yearly basis) and traffic analysis zones (TAZ). Other physical and operational components, such as changing the high service pumps from fixed grade nodes to utilizing actual pump curve data, will also be completed. The team will then obtain the latest population projections, TAZs, monthly operating reports, pump (high service and



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remote booster) data, storage tank data, record drawings and any other available information to bring the physical and operational data up to date.

Demand Allocation and Pipe Network Update: The project team will re-evaluate how base demands were distributed throughout the existing model and update and modify them, as necessary. Monthly operating reports will be utilized to generate current diurnal curves to compare and adjust (if necessary) peak hour demand factors utilized for extended period simulation runs. Additional model calibration will then be completed once the source data and physical information has been updated.

Model Analysis: Once the model has been successfully calibrated, it can then be run under the scenarios created for the existing model as well as the creation of new ones, depending upon the City's future plans. Both steady state and extended period simulations will be used to evaluate system conditions. The new model (once complete and calibrated) will be utilized to evaluate lift station pump performance as well as observing flow split between the regions/basins.

Updates to the model will include adding users (demands) and running several extended period simulation scenarios to adequately simulate and evaluate the system impact of proposed user schedules.

Nova prepared the sewer hydraulic computer model for the Town of Medley using SewerGEMS software. The activities in connection with the development of the hydraulic model included: model selection; collection of SCADA data; statistical and graphical data analysis for continuity and identification of anomalies and trends; data analysis in order to identify normal and peak flow operating conditions; preparation of inflow hydrographs for typical dry and wet periods; data resources and collection (gravity sewer and force mains); data collection at pump stations; hydraulic model construction/assembly and model verification.

The most critical lesson learned in any modeling application is that the information gathering, careful model update and calibration can greatly affect how useful a tool the model can be.

1.2.2 Water and Sanitary Sewer Systems

Water and sanitary sewer services provided by Nova range from engineering evaluations to detailed design, and construction management services for gravity collection systems, force mains, pipelines, pumping stations, treatment plants, water distribution systems, water storage facilities, and sanitary sewer facilities.

1.2.2.1 Distribution and Collection Lines

Distribution and collection lines are associated with water distribution and sanitary sewer collection systems.

Once a need for a pipeline or pump station project has been identified by planning studies and moves onto the design phase, the City and the consultant team will have to address numerous challenges inherent to the nature of this work. Among these are the following:

1.2.2.1.1 New and Existing Pipelines - New Installations, Repairs and Modifications to Existing Lines

Urban rights-of-way corridors are generally narrow and congested with existing underground utilities or are adjacent to overhead utilities and/or drainage canals. The pipeline route selection needs to accommodate the proposed pipeline, while minimizing interruption of and/or interference with existing infrastructure or relocation of other services, as well as minimizing traffic impacts and disruptions to local businesses, schools and residents. Major survey, utility location efforts and utility coordination will be required to accomplish this goal, and flexibility should be provided in the construction contract to provide for unforeseen field conditions.

From our experience, the following are identified as critical aspects to consider when working in pipeline projects:

1. Continuity of service must be addressed in order to mitigate or minimize the down time and the potential impact to the service community. In these cases, temporary bypasses, night work and operations adjustments should be specified as required. Significant efforts in logistics, coordination of construction phasing and community outreach are anticipated when repairing an existing and operational line.

This aspect was evident in our Utility Analysis Zone (UAZ) projects for Broward County, in which initially the client's concept was to undertake the water main removal and replacement block by block in the same trench line. Nova identified several complexities associated with this approach such as: difficulties in providing continuity of service, coordination between subcontractors, and ability to isolate the service area without having to add isolation valves and bypass lines to the existing system. Based on Nova's analysis and recommendations, the client decided to change the project phasing as follows: 1) complete replacement of distribution system in a separate trench line, offset from the existing, and 2) undertake the connection of the new system upon full completion.

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Another example is the United States Army Corps of Engineers (USACE) Baltimore District, Washington Aqueduct Indefinite Delivery Type Contract that Nova is currently involved in. The Washington Aqueduct, a Division of the USACE Baltimore District, operates two raw water facilities – the Great Lakes Intake and the Little Falls Pumping Station, which draw water in from the Potomac River and convey to the Dalecarlia Reservoir. Nova had to derive a construction sequencing and schedule that would not deter continuity of service, as the reservoirs for which Nova provided design services cannot be entirely out of service for the duration of the construction.

Nova is Prime Consultant for the US Army Corps of Engineers performing engineering services for the Washington Aqueduct (premier water utility in the Nation). Nova's work is focused on repair/maintenance of water storage and distribution systems in place at Dalecarlia and McMillan water treatment plants and other facilities.

2. Maintenance of Traffic: Typically, existing pipes are located within active road rights-of-way, and repairs must be performed with minimal impact to traffic. This requirement is of particular importance in urban areas with high commercial activity. However, a Maintenance of Traffic (MOT) Plan is always required to mitigate any potential impact and ensure a safe working environment for the contractor and residents. We have staff engineers certified in Advanced Traffic Control to prepare MOT plans for FDOT and County roadways.
3. Trench stabilization when performing repairs is critical since the space is typically limited and the methods to be used, such as sheet pile or trench shields, add costs to the project.
4. Use of trenchless technologies such as *in-situ form* or equivalent technologies need to be considered in cases where there is an interest to extend the useful life of the existing pipes or limited access that would restrict the use of open trench construction methods. In some cases, adapting oil and gas pipeline technology and methodologies to water/wastewater pipelines have been successful; such methods will be investigated when approaching this type of work.



Trench Stabilization with Sheetpile

Nova has worked on design and construction of several projects using trenchless technologies with MDWASD, including the Government Cut, Norris Cut and others. inability of using open trench methods at this

5. Risk analysis may be required to determine if the repairs will be supported by the existing infrastructure, or if there are additional features that need strengthening or replacement (due to corrosion, obsolescence, etc).

The following summarizes some lessons Nova has learned through experience with Miami Dade Water and Sewer Department (MDWASD), and describes the approach to certain representative problems encountered, mainly associated with Nova's successful participation in the MDWASD's current I/I and Pump Station Improvement Program (PSIP) program (Nova is currently implementing the new MDWASD PSIP program):

1. Peak Flow Management: Peak Flow Management refers to the ability of the utility to handle operations during peak storm events with reasonable indicators of system's performance. After some of the MDWASD's I/I repairs were successfully implemented, the velocities in the pipes increased changing peak patterns in the system and generating modeling and operational performance problems at several pump stations.
2. Increase in peak flows: The MDWASD I/I detection program was successful in detecting and repairing sources of I/I; however, it generated higher peaks relative to the average day I/I and base flow. The fact that, after the repairs were implemented, less I/I was captured by the pipe, decreased the average flow significantly, while the "dry leaks" (i.e., leaks above the nascent groundwater levels) still captured significant RDII during rain events. These coupled circumstances led to a low base flow together with high RDII that increased the peak factor to be used for design. As a result, some pump station and pipe upgrades started to show overcapacity, generating operational problems in addition to large disparity between the wastewater model simulations and field measurements (SCADA Data).
3. Solids deposition and clogging of sewers: The sewer runs in South Florida tend to have minimal grades to prevent costly construction in high water tables and, consequently, frequently do not provide sufficient velocities to prevent solids from settling. With the lack of large amounts of I&I re-suspension, velocities are not achieved and the occasional self-cleaning of

Nova has continuously worked on the MDWASD calibration of the dynamic computer wastewater simulation model which entailed analysis and recommendations of operational actions to mitigate or resolve problem areas.

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sewers is not performed thus resulting in sewage stoppages and additional maintenance requirements. Conversely, it was found that the system experiences a “first flush” phenomenon, similar to that observed in stormwater systems due to disposition of solids throughout the local collection basins when flow increases due to rain events. In essence, there is a spike in the concentration of the wastewater pollutants, BOD, and suspended solids at the wastewater treatment plants.

Solids deposition was observed and reported by Nova as part of the MDWASD Central District Wastewater Treatment Plant Peak Flow Waste Characterization Study.

4. Ability to identify sources of RDII: The MDWASD I/E/I program was effective at detecting I/I, but not at detecting RDII. The main reason was associated with the difficulties associated with lack of data collection mechanisms during significant storm events. This situation has also been observed in Nova’s involvement with the Town of Medley, where our recommendation has been to perform flow isolation analysis during less than peak events (where groundwater levels are predicted to increase) and post-peak event flow isolation analysis while residual groundwater conditions remain high.
5. Prioritization of Pipe Repairs: Typically, I/I repairs are prioritized by following a Cost Benefit decision-making process on an individual basis. The analysis focuses on the cost of removing a given volume of I/I water (i.e., \$ per I/I gallon removed), which differs from case to case given the specific characteristics of the pipe to be repaired, such as location, type of repair, type of pipe, installation, condition of the pipe, etc. One of the lessons learned when performing these prioritization exercises during the MDWASD I/I program, was the fact that, in addition to individual repair cost benefit analysis, an aggregated analysis of certain lengths of pipes or areas of the system would also be required. These aggregated analyses in many cases will show that, even though a single leak may not be cost efficient on an individual basis, it may prove cost efficient when analyzed as part of a group of leaks located at an area or length of pipe.
6. In addition to the above, Nova’s team is also aware of other problems in pipeline planning and design that would potentially impact the City if left unaddressed, and that are summarized in the following:
 - a. Problems associated with septic tank conversions: When it comes to new service areas and septic tank conversions, one of the frequent problems is the fact that the existing internal connections within the property may be at elevations that are not compatible with the elevations of the main sanitary sewer to which it needs to be connected to. To resolve this issue, which is often present in agricultural areas where new service is planned, investigation of the properties will have to be performed prior to finalizing the new service pipeline profile.

An example of a Nova septic tank elimination project is the New Gravity Sewer Installation along NW 27th Avenue for the MDWASD as part of the D2-A-1 Basin Improvements. The scope of this project includes a plan to extend sewer services to commercial and industrial parcels within the County’s Commission Districts.
 - b. Another problem that is frequently present when designing pipelines consists of instances in which the clean-out at the property line connects to the sanitary sewer at varying depths. Sometimes the clean-out from the house where set-backs are greater, say 2% slope, will position the lateral much deeper than the standard clean-out depth established by water utility design guidelines. A way to overcome this situation would be to suggest that the City evaluates establishing the clean-outs at different depths, based on varying property setbacks, in order to avoid the varying grade elevations at the clean-out location.
 - c. Another frequently encountered issue consists of the conflict resolution associated with gravity lateral connections which is frequently overlooked but, in many occasions, dictates the final alignment and profile of a main pipeline. To avoid this problem, a conflict analysis performed over the laterals is required prior to finalizing any new service pipeline profile.

Nova is actively working in Septic Tank Elimination for Miami Dade County. Nova is currently providing design services as well as permitting, regulatory/utility coordination, bid phase services and engineering services during construction for the NW 27th Avenue septic tank elimination project, including installation of a new gravity sewer system.

1.2.2.1.2 New and Existing Pump/Lift Stations - New installations, Repairs and Modifications

In addition to damages from recent storms and extreme weather events, and as a result of the pipelines repairs and corresponding improvements in flows and/or conveyance capacity, upgrades to Pump/Lift stations are likely to be required.

The first step in the planning process for a new or upgraded pump station is to confirm that the existing system effectively needs the project by identifying failures or potential failures, and/or lack of pumping capacity in certain areas. This identification is generally performed by one or all of the following:

- Pump Station Routine or Special Purpose Maintenance Inspection

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- Verifying if the Pump equipment is old and/or discontinued
- Field measurements of flows and pressures show the system is insufficient
- Hydraulic Modeling with extreme operational scenarios that would suggest the system is reaching or exceeding its capacity in the near future

From our experience, the following are identified as critical aspects to consider when working in pump station projects:

1. Physical Inspection, Condition assessment (structural, mechanical, electrical and hydraulic components), Inventory and As-builts of existing system: This aspect is identified as a critical item of success when it comes to evaluation of existing conditions and determination of a pump upgrades or increase in pumping capacity. Nova's experience with MDWASD, as well as with the Town of Medley, Miami International Airport, Fort Lauderdale International Airport, and elsewhere, includes field inventory, accurate as-built information and condition assessment which are necessary to obtain the accuracy needed for hydraulic modeling and decision-making.

Lack of data is generally encountered in these types of projects. This was evident in our experience with Miami Springs, a utility acquired by MDWASD. Nova was retained to undertake a comprehensive pump station inventory and baseline evaluation of existing equipment conditions for maintenance purposes, for the service area to be incorporated into the MDWASD GIS system and its County-wide computer model.

Another valuable experience came from the previous MDWASD I/E/I and PSIP Program. At the beginning of the program, it was found that many stations did not behave as expected. Nova suggested to the Client to pursue an extensive inspection program, which found that the problem was caused by impellers and suction eyes being used beyond their useful life. Lift stations were brought back to needed capacity through general maintenance and replacement activities avoiding costly upgrades to the system. Nova actively participated in the inspection and assessment which led to the routine preventative maintenance inspection program that is currently in place.

Nova provided manual data collection to the Town of Medley (before SCADA installation) and to Miami Springs.

Finally, in some instances during the MDWASD PSIP and working with the Town of Medley, Nova inspected the pumps and motors and they were reported in good condition. However, the inspections detected significant deficiencies in the pump appurtenances such as: internal pump station pipe work, valves, fittings, structural and mechanical components, etc. that would lead to costly repairs if not scheduled in anticipation of failure. Upgrades and repairs in pump stations are critical to ensure that the facility is in good standing whenever peak events require periods of extended operations with minimal attention.

The activities associated with this aspect of pump station maintenance include: processing existing as-built and record data, field verification of existing conditions including wet well fill and pump down testing, wet well measurements, testing of the SCADA, reporting control set points, and impeller diameter conditions.

2. Flow and Pressure data: Flow and pressure data is essential for a proper evaluation of a pumping and conveyance system, as they serve as performance indicators of facility's operations, and a way to report to regulatory agencies on system's operations. Nova has had a wide range of experiences when it comes to flow and pressure data capturing, ranging from manual data collection to the completely automatic data capturing that MDWASD has implemented in about 99% of its system.
3. Supervisory Control and Data Acquisition (SCADA)

Throughout Nova's experience with utilities and water management agencies, we and our team-members have continuously worked on systems for remote monitoring and control of equipment operating through signals over communication channels. In addition to understanding water and wastewater processes and their monitoring requirements, our team includes experienced instrumentation and control staff trained in the use of human-machine interface (HMI) and other widely used software (such as Microsoft Office, SQL Server, etc.), and have in-depth practical experience in the application of this software in the utility environment.

Nova has provided guidance and recommendations for SCADA system installation/replacement. Nova provided this service for Town of Medley and is currently providing it for City of Miami Beach.

As the first order of business when analyzing SCADA systems, our team ensures the equipment appropriately matches the specific application hardware and software. We have identified this as critical item for success, and we keep it in the forefront

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as we strive to design simple and highly reliable systems tailored to meet the project requirements. Through our experience, we have determined that system reliability is attained through the following:

- Selection of proven equipment components
- Use of standard “open architecture” hardware and software products
- Surge and lightning protection
- Fiber optics
- Design of proper plant grounding systems
- Elimination of harmonics and noise
- Redundancy
- Intensive “hands-on” training

Our extensive experience with SCADA systems provides two distinct advantages: the ability to effectively communicate with system integrators, and the skill to develop HMI displays, databases and easy-to-use information reporting systems tailored to meet the Aqueduct’s specific needs and budgetary requirements, without relying on proprietary products or third parties for future support. In all our instrumentation and control projects, we adopt a team approach, in which users, designers, and system vendors work together to produce a well-functioning system.

With Nova’s technical guidance, The Town of Medley has converted its entire sewer system into SCADA technology conversion. The activities associated with this conversion were as follows: Selection of technology and equipment, supervision of installation, calibration and regular inspection and verification of proper operations. This participation has allowed Nova to fully understand the critical aspects of SCADA implementation, and potential issues that could be encountered. In particular, there are issues associated with the technology used that need to be considered: 1) ultrasonic transducer was selected for wet well level measurement instead of the alternative “bubbler” system. This selection was made based on input from the Utilities Department-O&M personnel, and their preference of not having to enter the wet well to perform maintenance activities. 2) Cellphone-based over radio-based transmission equipment was selected. This selection was made based on the O&M preference of delegating the maintenance of transmission and database management to a third party. Throughout the equipment selection process and interaction with the O&M personnel, Nova evaluated the decision-making criteria and analyzed each of the available systems in the market and advised the Town on the system that best fulfilled their expectations and needs.

In addition to active participation in SCADA system implementation and operations, Nova has actively been involved in permanent monitoring of SCADA data to ensure that calibration indicators are appropriate, and that the data being reported is accurate. In fact, these activities are currently being performed for MDWASD. Nova is responsible for evaluation of SCADA data reporting, as part of a continuous effort to evaluate the system’s performance. This effort consists of: 1) verifying that flows and pressures being reported by SCADA correspond to real conditions by field verification and a comparative analysis with the theoretical pump curves; and 2) verification that the sewage invoices are reasonably close to the expected values reported by SCADA. As a result of Nova’s involvement, there have been instances in which N significant desktop and field efforts have been necessary to detect disconnects between what is being reported and actual conditions.

In some cases, flow monitoring devices were actually installed in certain sewer lines and pump stations during an extended period of time, to obtain the data required to perform hydraulic modeling and analysis during regular and peak storm events.

4. Sufficient capacity verification: As part of the analysis of a pump upgrade and/or new pump installation, a risk analysis needs to be performed to determine if the repairs will be supported by the existing infrastructure, or there are additional features that need upgrading, strengthening or replacement. The results of these analyses basically serve as a basis for the Capital Improvement Plan for these utilities, scheduling the upgrades needed as well as the ancillary works that are required to support these upgrades.

Nova has actively been involved in sufficient capacity verification analysis for MDWASD PSIP, the Town of Medley and MIA in connection with the Remedial Action Plans (RAP) prepared in compliance with the Miami-Dade County Volume Sewer Customer Ordinance (VSCO).

Another example of capacity verification is Nova’s work for the Wastewater Master Plan at the Ft. Lauderdale-Hollywood International Airport, where Nova was a part of the airport’s plans for the construction of a new passenger terminal and runway.

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5. Odor Control Issues: As a result of pump upgrades and new pump station installations, the frequency in which the pumps will cycle will determine the sewage residence times in the wet wells, and consequently the problems associated with odors coming from organic decomposition. In some instances, the odor evaluation and management, if not properly incorporated into the design of the pump station or upgrade, may lead to problems with the community and adjacent properties.

Odor management strategies can be incorporated into the design by considering phased upgrades that match present flow as well as future flow conditions. To provide for this, the station would be designed with an initial capacity, either through reduced impeller diameter or by a design that lends itself for expandability in terms of number and size of pumps.

Nova formulated recommendations for adoption of specific odor control equipment to be used. Once the equipment was determined, Nova prepared a specific design to be applied to selected pump stations and developed a generic design based on previous experience which included sizing instructions based on sulfide concentration and influent flow rate. This generic design was then implemented in-house by MDWASD for design and permitting of similar systems.

6. Sizing: As part of the analysis for a new pump station and/or an upgrade to an existing, a size evaluation of the pump station features should be performed. For this, hydraulic modeling techniques are extensively used and complemented with judgment calls from the design engineer.

Nova has had recent experience in wet well and pump sizing for several facilities owned by Miami-Dade Water and Sewer Department (MDWASD), e.g., North District Water Reclamation Facility, Central District Wastewater Treatment Plant, as well as for municipalities such as the Town of Medley.

In Nova's pump station design experience, several issues were identified that could generate complications if not handled properly, and are described in the following:

1. Pump Station Design with high RDII (and high peak factor): Industry standards are well established for the design of a pump station when considering average and typical diurnal peaks. The difficulty in pump station design arises in systems that experience high levels of RDII compared to the average and typical diurnal peaks (i.e., high peaking factor), as was encountered in several MD-WASD stations during the previous PSIP. High peak factors in manifolded systems generate high force main pressures. Readily available pump curve combinations do not cover the full range of flow and pressures associated with systems experiencing high RDII peak flows. Typically, to provide for these situations, the design can focus either: on a wider flow range using multi-vane impellers; or wider pressure range using single-vane impellers. The outcome of selecting one or the other results in either a pressure limited installation under peak flow-high force main pressure, or a cavitation prone installation under average flow-low force main pressure conditions. These situations can be avoided with the use of variable speed controllers or multiple duty pump installations.
2. Design parameters for wet well and pump sizing: To determine an efficient size of a wet well/pump combination, the designer needs to consider scenarios under a wide range of conditions between peak flow and base flow. Depending on the assumptions of the designer, the size and operational conditions of the wet well and the pump will differ significantly. Consistency in the design assumptions used for the wet well and the pumps is required for a proper design, however, a great deal of judgment from the design engineer is needed to determine optimum characteristics of these elements and the scheduled upgrades during its useful life. Inadequate sizing of pump station elements is reported as a frequent deficiency by many of Nova's clients and is also included in the 2008 PBCWUD Master Plan as one of the reasons behind some of the lift station rehabilitations and replacements.

1.2.2.1.3 Leak Studies

Leak Detection Studies are anticipated to be required in the following cases:

MDWASD has suffered odor problems in several of its pump stations. As a matter of fact, Nova has assisted MDWASD in performing a General Odor Evaluation for Wastewater Facilities and found that these problems were associated stations that were designed for future conditions that did not materialize due to the housing downturn. Nova provided in-situ monitoring of the odiferous components, research of various odor control equipment and interacted with maintenance operations personnel in preparation of a decision-making matrix for equipment selection.



MDWASD Pump Station

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1. Where the City has acquired aging utilities from small municipalities or developers for which little or no construction and/or maintenance records exist. In these cases, a condition assessment, together with a risk and vulnerability analysis of these lines is required, to understand its current condition and properly plan future interventions.
2. Where the Unaccounted For Water (UFW) exceeds reasonable levels.
3. Where Infiltration and Inflow (I&I) or Rain Dependent Infiltration and Inflow (RDII) exceed reasonable levels generating management problems during peak storm events.

In general, leak detection projects are performed for two types of systems: wastewater gravity sewers and pressurized water distribution systems. The following summarizes the general steps that would be followed for each case:

1.2.2.1.4 Gravity Systems

Whether the problem comes from inflow and infiltration, illegal sump pump connections or inaccurate records and maps, the City may need to implement a sewer I/I detection program. The steps to be followed to perform an I/I detection analysis in a gravity system generally are:

1. Prioritization of basins to be studied: This activity consists of evaluating the flows at the master and local pump stations in the system and determining by a high-level mass/flow balance analysis which are collection basins that show flows not consistent with the collection area.
2. Prioritization of sub-basins to be studied: The critical basins identified in step 1 are analyzed further by applying a flow isolation methodology consisting of determining boundary points (flow monitors, lift stations, etc) within the basin that could serve as control points, and analyzing the flows and quantifying the extraneous flows that enter the system between those points. In sub-basins that lack existing control points or boundary points, installation of flow monitoring devices may be required to serve the purpose. From this process, the most critical sub-basins will be identified for further micro-level I/I studies, detailed in the next step.
3. Physical Micro-studies / In-Line Condition Assessment Studies of most critical sub-basins: Once the most critical sub-basins are identified as a result of step 2, a wide range of non-destructive Condition Assessment and I/I detection techniques will be applied to the system elements in that area.

Nova has decades of successful experience in Infiltration and Inflow (I/I) with Miami Dade Water and Sewer Department's gravity systems through its I/E/I and PSIP project.

Prior to the application of those techniques, historical information such as inspection reports and records of pipe failure can be reviewed to identify the types of pipe defects typically found in a system, as well as each pipe's comparative ranking for future inspections and repair / rehabilitation work. The most common defects in sewer pipes are cracks and broken pipe; root intrusion; FOG (i.e. fats, oils and grease) build-up, grit, and debris; offset joints; corrosion; leakage (e.g., at joints, laterals, or in general); and pipe sags. This information can be used to guide technology selection for condition assessment.

Inspection and testing records may include in-line camera, sonar or laser inspections, infiltration and inflow (I/I) studies, smoke testing, flow isolation studies, and dye tracer studies. CCTV camera inspections are the most common type of inspection record and provide a visual indication of pipe condition, including evidence and location of a number of structural and operation and maintenance (O&M) defects. The defects include cracks, debris, roots, pipe sag and deflection, offset joints, and exposed rebar and aggregate. Sonar inspection can provide information on internal pipe conditions below the water line, such as pipe radius, sediment depth, and the presence of air pockets. The sonar unit indirectly indicates sediment depth by calculating the difference between nominal pipe diameter and the measured free space. Estimates of sediment depth can be used to estimate sewer cleaning costs and the sewer's hydraulic capacity. The pipe radius/diameter measurements from laser and sonar inspections can also be used to assess the pipe's structural integrity (e.g., pipe wall loss, pipe deformation, and ovality) and to plan for rehabilitation work such as slip lining.



Infiltration/Inflow in Miami Springs

Due to differences in sizes and capabilities of inspection equipment, sizes of sewer pipes must be considered when selecting the appropriate technology. For example, large diameter pipes can pose a challenge for CCTV cameras due to lighting and camera resolution issues. In contrast, zoom cameras are known to perform better in larger diameter pipes.

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Some technologies, such as the camera-based methods (CCTV, digital scanning, and zoom camera) can only view pipe surfaces above the waterline. Sonar, on the other hand, requires a minimum water level for equipment deployment, and electro-scanning requires a full pipe. Historical flow monitoring data can be reviewed to determine typical and seasonal flow conditions and help utilities deploy the appropriate technology at the optimal time.

Nova is familiar with and has applied technologies available for this program, such as: Sewer Flow Monitoring, Smoke Testing, Manhole Inspections, Large Diameter Sewer Inspection based on non-destructive testing (i.e., Robotic Sonde technologies such as CCTV, Scanning, Laser, Electrodes and Sonar).

This field inspection program associated with the I/I detection is of high complexity, since many undetected I/I and RDII sources will be the small diameter sewer lateral connections, in many cases located within inaccessible private property. This program will result in an identification and characterization of the system I/I that need some kind of intervention by the City.

4. Rehabilitation and Repairs Program: based on the results of Step 3 above, pipeline repair prioritization will be proposed for approval by the City. This process will generally include:

- 1) Prioritizing repairs, based on a cost benefit analysis that should consider the costs and implications of the repair and the amount of infiltration or inflow that the repair will decrease;

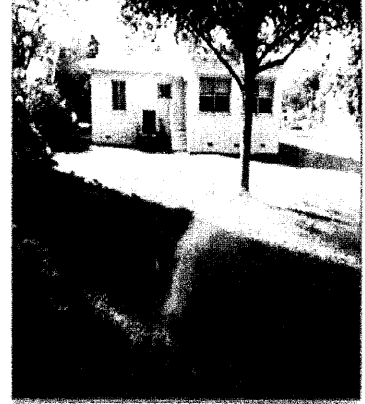
- 2) Decision-making process regarding the type of repair technology to be utilized, depending on the type of damage and location of the sewer. Repairs will generally fall within the following: i) Pipe replacement; ii) Trenchless Methodologies such as pipe lining, slip-lining, pipe bursting, or joint grouting.

1.2.2.1.5 Pressurized Systems – Water Mains / Force Mains

The location of leaks in a pressurized system is often difficult and time consuming. The major difference to leak detection in non-pressurized systems is that the water is being lost rather than gained. In order to implement a Water Loss Control Survey to identify and quantify the Non-Revenue Water (NRW) and lost revenue within a water system, and identify problem locations, the following steps are generally followed:

1. Prioritization of basins to be studied: In pressurized systems, this activity consists of performing a Comprehensive Water Audit to determine financial and volumetric parameters that will guide the prioritization task. Generally, the following will be required:
 - a. Water bill data analysis and determination of metered/non-metered usage; This could be accomplished through a comparison of plant output to total metered usage and recorded non-metered activities (such as backwash water, fire hydrant flushing, etc).
 - b. Determination of "Real" total loss (the loss through all types of leaks, bursts, service reservoirs and service connections up to the point of customer metering) and "Apparent" loss (the loss through unauthorized consumption and metering inaccuracies);
 - c. Large meter evaluation and accuracy testing (which includes evaluation, testing, repairing, and post-testing on the meters when necessary); In certain cases in which no meter is available in a certain area, installation of a temporary meter, such as strap-on ultra-sonic meters may be required at selected locations.
2. Prioritization of sub-basins to be studied: This step will follow similar procedures as the ones describe in Step 1 but applied to a select group of basins that appear to show the largest Unaccounted For Water (UFW) volumes. This iterative process is performed through a spatial GIS analysis of all the properties in the sub-basins that should be serviced and determines if any of the properties appear to be improperly connected. Once all of the unmetered connections are identified, the model is reviewed to determine the critical locations for different flow scenarios.
3. Physical Micro-studies and Condition Assessment Studies of high priority sub-basins: Once the most critical sub-basins are identified as a result of Step 2, a wide range of non destructive leak detection techniques will be applied to the system elements in that area.

Condition Assessments of Water Distribution and Transmission systems involve non-disruptive techniques and methodologies that do not require excavation, water shut-offs, or entry into the pipeline (also referred to as non-destructive



Smoke Testing During MDWASD's Miami Springs SSES

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evaluation technologies or NDEs). NDE techniques include the direct visual observation of defects such as cracks, corrosion pits or holes, as well as techniques that provide signals or signatures that are interpreted into distress indicators.

NDE Techniques available for this program are:

- a) Electromagnetic inspection technology, which is mainly applicable to condition assessment of pre-stressed concrete cylinder pipelines;
 - b) Acoustic monitoring, which consists of the placement of sounds emitters that enable sound wave progress to be tracked and retrieved. These technologies are frequently applied in PCCP pipes, as it offers a convenient non-intrusive way to evaluate these pipes without the need for de-watering;
 - c) Robotics technologies, which allow pipe inspection using modular robotic pipe inspection systems. The Robotic inspection technologies may include HD-CCTV, Sonar, Laser and electromagnetic inspection.
4. Rehabilitation and Repairs Program: based on the results of Step 3 above, a pipeline repair project will be proposed for approval. This process will generally include:
- 1) Prioritization of repairs, based on a cost benefit analysis that should consider the costs and implications of the repair and the amount of water, or pressure, recovered with the repair.
 - 2) Decision-making process regarding the type of technology to be utilized, depending on the type of damage and location of the water main. Repairs will generally fall within the following: 1) Pipe replacement (open cut and/or trenchless methodologies); 2) Trenchless repair methodologies such as pipe lining, pipe bursting and joint grouting.

1.2.3 Paving and Drainage Assessments and Design

Paving and drainage services provided by Nova include assessments and improvements of existing stormwater management systems as well as new stormwater management system design including but not limited to drainage calculations, grading plans, and stormwater pollution prevention plans.

1.2.3.1 Paving, Grading, and Drainage

The effects of climate change have led to intense and frequent wet weather events that increase the volume of stormwater runoff and flooding. Nova has worked with numerous municipalities on their stormwater programs, including best management practices (BMPs), drainage system design, storm water management plans, installation of water mains and wastewater force mains, green infrastructure solutions, National Pollutant Discharge Elimination System (NPDES), sewer overflow, and hydrologic and hydraulic planning.

Nova provides complete assessments of storage areas and stormwater management strategies, develops spill prevention plans, and implements BMPs and Stormwater Pollution Prevention Plans (SWPPP). In addition, Nova evaluates and designs stormwater controls for diversion of stormwater flows, as well as sewers and retention basins.

Nova has established close relationships with the South Florida Water Management District (SFWMD) and DERM to coordinate its stormwater and drainage solutions and designs. Nova's expertise and knowledge of the requirements on each project allow for a streamlined approach to the completion of each design. Nova's team are experienced in the areas of stormwater management and green infrastructure. Nova staff members provide hands-on experience both in coordination with the client, permitting agencies and contractors, but also in the areas of system design and in-field work/inspections.

Nova has provided design and construction services for storage and treatment facilities, outlet structures, storm drains, overflow structures and collection systems.

From our experience, the following are identified as critical aspects to consider when working in drainage projects:

1. Existing Conditions: Extensive data collection is required to identify existing drainage conditions. A desktop review through the DERM Online Environmental Records database of existing permits, if any, associated with a property provides existing



Nova designed Drainage for Roadways and Intersections- Broward County

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grading and drainage conditions and/or characteristics of the existing stormwater management system. Obtaining this information allows for an analysis of the project area to understand any issues that may arise throughout the design phase. Through experience, oftentimes there is not sufficient documentation of the existing drainage conditions or stormwater management systems, and therefore some parameters would need to be estimated based on professional judgement. Data collection also entails compiling existing utility data in order to properly place a new stormwater management system and/or rehabilitate an existing system that may not be in adequate condition.

2. Identify Drainage Requirements: For drainage assessment, based on the SFWMD Environmental Resource Permit (ERP) Applicant's Handbook: Volume II, a storm event of 3-day duration and 25-year return frequency shall be used in computing off-site discharge rates unless otherwise specified by previous Agency permits or criteria. Peak discharge computations shall consider the duration, frequency, and intensity of rainfall, the antecedent moisture conditions, upper soil zone and surface storage, time of concentration, tailwater conditions, changes in land use or land cover, and any other changes in topographic and hydrologic characteristics.

Per SFWMD guidelines, full on-site retention must be provided for the 3-day, 25-year storm event prior to any overflow discharge. Eventual stormwater overflow discharge may be required in exceptional emergency situations. Any overflow discharge water must be authorized by the Department of Environmental Resources Management (DERM) and SFWMD and pre-treated to an acceptable level of water quality. The discharge rate must never exceed the maximum allowable flow as defined by the SFWMD and DERM

Land development will generally result in a reduction of natural storage by increasing impervious area. Implementing an efficient drainage and stormwater management system is crucial to keep new developments from flooding.

3. Water Quality: The water quality criteria set by SFWMD (ERP Applicant's Handbook: Volume II) is a volumetric value that must be provided within retention, detention, or both retention and detention in the overall system, including swales, exfiltration trenches, lakes, canals, or greenways. The criteria will be provided for one of the three following criteria, or equivalent combinations thereof:
 - a. Wet detention volume shall be provided for the first inch of runoff from the developed project, or the total runoff of 2.5 inches times the percentage of imperviousness, whichever is greater.
 - b. Dry detention volume shall be provided equal to 75 percent of the amounts computed for wet detention.
 - c. Retention volume shall be provided equal to 50 percent of the amounts computed for wet detention.

4. Design Implementation and Agency Coordination: After thorough investigation of drainage conditions and requirements, any suitable combination of pipes, exfiltration trenches, retention/detention and drainage structures may be used to accommodate the appropriate design storm event, all within standards and criteria set by DERM and SFWMD. Close coordination with the environmental agencies is a key element in designing an efficient drainage and stormwater management system. Collaboration with DERM and SFWMD is crucial in determining the appropriate water quality criteria to be met and the adequate stormwater management features that can be used to meet these criteria. A common issue that arises when identifying design requirements is the presence of contamination in the soil and/or groundwater which, per experience in coordinating with DERM, restricts the ability to percolate additional water through the soil and eliminates the option for the use of exfiltration trenches to store larger volumes of water.



Nova solved localized flooding- NW 75th Street- Medley

In the case of typical roadway drainage design solutions, hydraulic criteria provided by the Florida Department of Transportation (FDOT), specifies minimum requirements for exfiltration trenches and collection conveyance systems. In addition, spread criteria is also provided by FDOT and should be referenced when verifying maximum allowable **spread** requirements for roadway collection/conveyance systems.

Nova has provided drainage assessment services for the Town of Medley NW 75th Street Drainage Improvements project. Due to localized flooding and adjacent roadway construction improvements causing an increase in flooding, drainage improvements were required. Nova's services were instrumental in preparing construction plans and documents for the upgrade and improvements to the existing system.

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Additionally, Nova is providing paving, grading and drainage service on the South Miami Heights Water Treatment Plant Facility for MDWASD. WASD has requested site development engineering services for a new trailer complex for WASD personnel which is being designed by WASD and will be located at the South Miami Heights (SMH) site owned by WASD. Engineering services include but are not limited to general civil, drainage, electrical site lighting, parking, site striping, and overall site development for the vehicle parking area.

1.2.3.2 Sea Level Rise (SLR)

City of Coral Gables falls within Miami Dade County Drainage Basins C-100, C-2, C-3, C-4 and C-5 and due to its location and its over 47 miles of coastline and waterways, suffers vulnerabilities to Sea Level Rise and Storm Surge that need to be addressed and accounted for in any future stormwater management development.

Consistent with the above, we are aware of the actions and initiatives that the City is taking to adapt and mitigate the effects of SLR, though its Sustainable Public Infrastructure Division, including but not limited to the following: Collecting data and identifying critical city's infrastructure and maintaining the GIS database of the city's infrastructure, conducting risk assessment to king tides and storm surge through hydrologic and hydraulic modeling, determining potential infrastructure impact and the need for resilient measures (i.e., hardening), preparing a Sustainability Master Plan, partnering with southeast Florida agencies and municipalities through the SFRC COMPACT, devising adaptation plans for critical assets based on key attributes such as technical feasibility and economic impact, social and environmental factors.

Nova is working for MDC Office of Resiliency on identifying financially feasible SLR adaptation strategies and actions that will work over short, medium, and long-term planning horizons. This project integrates ongoing efforts, builds upon previous studies conducted by the County, and integrates city, state, and federal plans for addressing Sea Level Rise within Miami-Dade.

Nova is an SLR active player in the Southeast Florida community, and can effectively assist the City with the actions in response to SLR, as it is currently doing for Miami Dade County. As part of the PSIP, Nova has been incorporating SLR hardening measures and implementing the SLR Ordinance to all the pump station repairs. In addition, Nova is working for the MDC Office of Resiliency on identifying implementable, financially feasible SLR adaptation strategies and actions that will work over the short, medium, and long-term.

In addition to the above, Nova is also working with the South Florida Water Management District (SFWMD) on several SLR planning projects involving Hydrologic/Hydraulic modeling and stakeholder and community involvement.

1.2.4 Environmental Engineering and Hazard Mitigation Strategies

Over the past twenty-five (25) years, Nova has built a reputation with the local city and county agencies as a premier environmental and civil engineering consulting firm.

Services provided by Nova in the environmental engineering field involve assessing the impacts of man on the environment and on human, animal, and plant-life in order to reduce or eliminate risks from natural hazards. Mitigation is implemented in the form of erosion and sediment control; ensuring minimal impact to coastal and freshwater wetland communities, wildlife habitat, and migration; air, water, and soil pollution prevention plans; analysis of groundwater and surface water movement and flow; and ensuring groundwater quality is maintained. Nova's services extend to providing environmental assessments of contaminated sites, proposed land development, hazard identification, vulnerability analysis, defining hazard mitigation strategy, and implementation of hazard mitigation activities and projects.

The services that Nova traditionally provides in the environmental consulting and engineering field include Environmental Site Assessments including field investigations, sampling and interpretation of laboratory results, site remediation plan development, permitting and representation with environmental agencies, remediation management and inspection, environmental compliance inspections, environmental studies including air/noise, and environmental permitting. When dealing with potentially contaminated sites, all activities and services Nova offers are advanced in strict compliance with federal state and local rules and regulations, and maintaining efficiency, accuracy, and open communication with state and municipal environmental agencies.

As Contamination Assessment and Remediation consultant for FDOT and Environmental Cleanup and Compliance Services Consultant for RER, Nova continuously works on Level I and Level II Environmental Assessments, and Remediation designs for numerous parcels and projects. These activities involve management of site access issues and coordination with property owners, their attorneys and environmental consultants. Nova also provides environmental remediation engineering, documentation, and supervision during the preliminary stages of construction activities.

Nova's main environmental project credentials relate to:

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- Florida Department of Transportation (FDOT)- As a prime contractor, Nova currently holds the Florida Department of Transportation District 6 - Contamination Assessment and Remediation (CAR) Contract which includes contamination assessment and remediation services, environmental and construction supervision and inspection, and emergency response to incidents on FDOT roads. Services also include emergency response to incidents involving potentially hazardous materials.
- Miami Dade County Department of Regulatory and Economic Resources (RER)- As a prime contractor, Nova currently holds the contract for Environmental Cleanup and Compliance Services, which includes performing environmental site assessments and/or rehabilitation and related tasks at Miami Dade County owned and operated sites (In accordance with Chapter 24 of the MDC Code); services related to the modification, repair, removal, replacement, installation, and/or abatement of any underground or above ground storage systems; and services as a design professional and/or construction management for environmentally related construction tasks.

Experience that showcases Nova's capabilities includes:

- Miscellaneous Maintenance Repairs project for NW 116th Way Bridge Over C-6 (Canal), working on behalf of the Town of Medley, FL. This project consisted of the preparation of a Design Criteria Package for limited repairs and canal bank stabilization for the NW 116th Way Bridge, in accordance with the deficiencies identified by the Bi-Annual Inspection Report performed on this bridge by the FDOT District 6 in August 2008, and the requirements established by FDOT and FHWA for projects funded through LAP, the economic stimulus funds granted by the Federal government and administered by the FDOT.
Through an Environmental Class of Action Determination performed for Town of Medley's NW 116th Way Bridge (FDOT LAP project), Nova prepared a Categorical Exclusion checklist as part of NEPA compliance. Nova was also responsible for permitting and agency coordination associated with work within C-6 Canal Right of Way, and all necessary project approvals from FHWA, FDOT, and Miami Dade County.
- Environmental remediation and construction oversight of both soil and groundwater contamination for the Miami Intermodal Center (MIC) and the Miami Intermodal Center/Miami International Airport (MIC/MIA) Interchange, for the FDOT's District 6 in Miami, FL. Regarding the MIC/MIA Interchange project, Nova provided senior environmental technical support to address solid waste and ammonia issues associated with the proposed construction of several storm water drainage retention ponds and bridge piers. Nova managed the excavation, transportation, and disposal of solid waste, and coordinated the source removal activities and construction of the interchange with the Construction Inspection Engineer and the prime contractor in order to avoid any potential delay claims. In addition, Nova coordinated appropriate assessment activities to comply with the project's local regulatory requirements.

In addition to our work with the FDOT, Nova was actively involved with various environmental site assessment and remediation projects for the Palmetto Expressway (SR-826) & Dolphin Expressway (SR-836) Interchange Improvements project on behalf of the MDX in Miami, FL. Steps to accomplish these tasks included: visual inspections, historical aerial photograph review, historical city directory review of each site to identify previous owners and/or occupants, review of environmental regulatory agency files, and evaluation of the data and providing a ranking for each site, based on the ESSA results. This effort consisted of hazardous materials testing, permitting and fulfillment of NEPA requirements, as well as cost estimating for property acquisition.

Nova has also been involved in disaster preparedness and response within Miami-Dade and Broward County. Nova partnered with Tetra Tech as part of the hurricane emergency response team for various cities within both Miami-Dade and Broward County. Nova was part of the immediate response post-hurricane throughout Cat. 4 Hurricane Irma recovery efforts, providing personnel on the ground for oversight and management of debris cleanup activities. As part of this rapid response, the team was able to quickly eliminate waste from the community that could pose environmental health risks and inhibit accessibility to housing and local community services. For this recovery, Nova supplied supervisory field personnel as required to oversee the application of FEMA procedures and regulations in the truck certification and debris cleanup activities that took place in several areas of Miami Dade County, City of Pembroke Pines and City of Tamarac. Nova also worked on the FDOT- District 6 Detailed Damage Inspection Reports (DDIR's) required to support the application for assistance from the Federal Highway Administration (FHWA) Florida Division - Emergency Relief Program.
During Category 4 Hurricane Irma recovery, Nova worked on the preparation of supporting documentation for the FDOT District 6 Detailed Damage Inspection Reports (DDIR's) required to support the application for assistance from the Federal Highway Administration (FHWA) Florida Division - Emergency Relief Program.

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1.2.5 Regulatory Agency Coordination

As described in previous Subsection II-2 of this proposal, Nova has often been involved with the acquisition of environmental permits for various projects through the design and construction phases. Nova has worked on environmental permits that range from a simple connection to the potable water system to a full dewatering master plan, approved treatment of contaminated groundwater resulting from dewatering activities, and/or approval of solid waste disposal. Through these activities, Nova has established working relationships with the following federal, state and local agencies: US Army Corps of Engineers (USACE), Florida Department of Environmental Protection (FDEP), South Florida Water Management District (SFWMD), Miami-Dade Department of Environmental Resource Management (DERM), Miami-Dade County Building Department, Miami-Dade Water and Sewer Department, City of Miami, City of Coral Gables, Broward County Development and Environmental Regulation Division, and other various municipalities of Miami-Dade County.

1.2.6 Additional Services

1.2.6.1 Public Outreach and Information

The issues associated with the urban and rural neighborhoods that may be impacted by the construction of a pipeline project will necessitate a well-planned, well-coordinated Public Outreach plan that addresses all stakeholders' interests and community concerns and achieves consensus among all affected parties. As part of its programs and projects, NOVA has provided community outreach and awareness coordination by provided fact sheets and informing public of potential impacts, facilitate resolution of easements and encroachment recordings, quickly respond to public concerns during construction, and provided health and safety coordination by reviewing design plans, health and safety plans, hurricane plans, and dive plans developed by contractors.

1.2.6.2 Assistance with Grant Application

Nova is permanently looking for opportunities that could benefit the City such as federal and/or state grants for certain projects included in the CIP. As part of this contract, Nova would coordinate with the City to ensure these opportunities are pursued, and the potential benefits are attained and maximized.

Examples of previous Nova's experience in this area the following projects Nova completed for the Town of Medley:

- NW 116th Way Bridge Rehabilitation: Nova administered the entire process for this Design/Build project including: Design Criteria Package, approval from FDOT of the American Recovery and Reinvestment Act (ARRA)- Local Area Program (LAP) Grant for the project, solicitation and design/construction oversight.
- Tiger II Grant Application for Panamerican Way Bridge: Nova prepared a Cost/Benefit Analysis and filled Grant Application forms on behalf of the Town of Medley to fund the construction of the proposed Panamerican Way Bridge within the Town boundaries. The application was highly graded by the Federal Government after submittal.

Nova has the experience and personnel to assist the City in this area if so desired.

1.2.6.3 Addressing Construction Constraints and Constructability Issues

Crossing major obstacles such as roadways and canals may require innovative design and construction techniques, such as directional drilling or micro-tunneling. Managing the risks associated with these construction techniques will require close coordination with a number of agencies, and prior engineering experience with these types of projects. In that MDWASD 54-inch Force Main project at the Opa-Locka Airport, the client had specified a microtunnel for the busy

Nova has had extensive experience in complex projects with significant conflicts and constructability issues such as the design and installation of the MDWASD 54-inch Force Main at the Opa-Locka Airport.

NW 57th Avenue and Red Road Canal crossing, which implied significant risks to the existing utilities in the area while constructing the receiving pit, specifically, due to the proximity to relatively old large diameter force mains. By working with the agency and the contractor, Nova was able to modify the solution to a low-risk open-cut design. As this design required the construction of a cofferdam that blocked flow in the Red Road canal, extensive coordination with the Department of Environmental Resource Management (DERM) was required to provide appropriate canal bypass provisions.

1.2.6.4 Resident Engineering/Construction Management Services

Nova's ability to analyze Construction Management projects would potentially translate into significant savings to the City by maximizing the use of specialized project control tools such as scheduling, cost estimating and document control. As part of our services, we provide a complete review and analysis of the project scope, construction logic, and compliance with the project

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Project Controls and Claims Avoidance/Management

Control of project costs and duration can be challenging given the unpredictable environment of a typical construction project. However certain measures can aid control of project cost and duration, such as requiring a cost loaded project schedule or a forecast of expected monthly invoice amounts. We strongly recommend that the Authority include these requirements in the project contract documents in order to provide an additional tool to monitor project progress against the original plan and foresee problems early on. Issues detected early most likely can be mitigated with little to no impacts to the overall project completion.

1.2.7 Survey and Easement Services

Survey and easements studies will include title searches to be performed over property records databases, search and determination of all easements and encumbrances of a subject property and review and sketching of legal descriptions. In addition to the surveyor's experience and qualifications in this type of tasks, Nova has actively participated in these type of studies as part of the WASD PSIP.

Scopes of survey work for this contract will include establishing horizontal and vertical ground control, obtaining plane table/cross sections, aerial photography, digitizing map information, generation of the topographic maps, and field verification of all surface features and underground utilities within the area to be surveyed, such as: Power and communication lines, street light poles, guy wires, transformers and substations, sanitary and industrial sewer manholes and all storm drainage structures, water, gas, oil, fuel, and other ground pressure pipes, fire hydrants, hose bibs, valve boxes, pump stations, pipeline valves, roads, road signs, drives, walks, and railroads, fences, trees, ditches, streams, canals, ponds, lakes, storage tanks, radio antennas, monitoring wells.

1.2.8 CADD / BIM / GIS

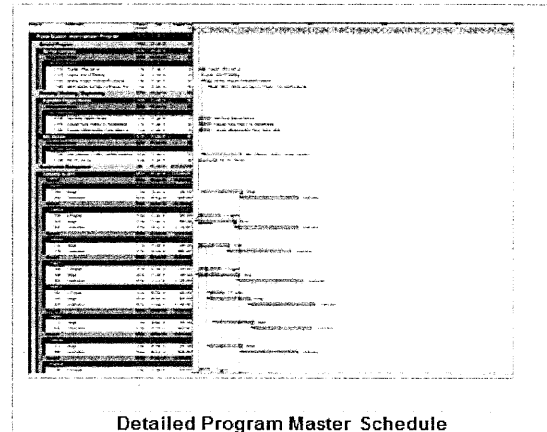
Known by various names, BIM, CIM & VDC (Virtual Design and Construction) tools are the latest advancements to simulate the design, construction and operation of a facility. Visualization of a virtual project leads to improved decision-making, more efficient and sustainable designs, greater accuracy in budgeting and estimating, and superior coordination and scheduling. These virtual tools not only provide a visual representation but serve as vehicles for capturing and delivering valuable building information for decision-making and for subsequent operational phases. BIM/CIM enabled projects not just benefit the owner and their operators, but also related business centers that need access to the building information

Our approach to these type of assignments consist of compiling the building information through attributes to be included in virtual 3D models during planning and design phases (typical attributes include specifications, submittal information, equipment data, performance data, warranty and finishes information, O&M Manuals, panel schedules and building control systems) and integrating these databases into the life-cycle management and operation of the asset/facility.

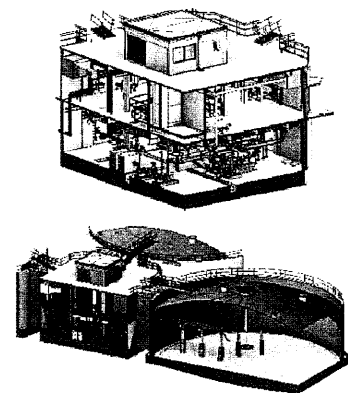
Nova is currently extensively using BIM and CIM Platforms (e.g., Revit MEP and AutoCAD Civil 3D) in several design projects for Miami-Dade County and other clients. One example that showcases Nova's abilities, is the rehabilitation of the South District Wastewater Treatment Plant's digesters for WASD, which consisted of designing the digesters' recirculation pumps, heat exchangers, transfer pumps, blowers, floating covers, and associated piping. For this project, Nova produced 3D modeling in Revit.

Nova team-members are also well versed in the utilization of these tools and are ready to maximize its use and derived benefits to the City through this contract.

Geographic Information Systems (GIS), CADD and Scanning



Detailed Program Master Schedule



Nova's 3D Models
WASD SD Wastewater Treatment Plan

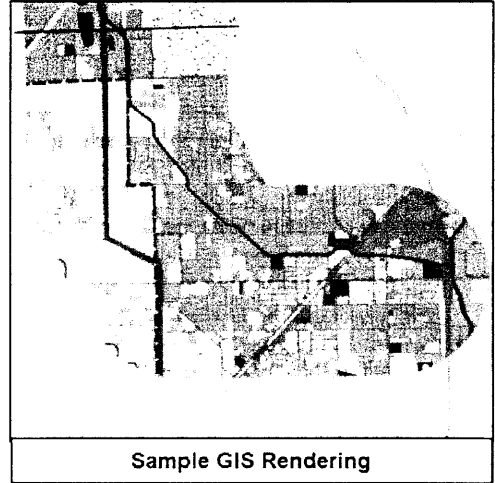
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In addition to responding to task-specific assignments, the Nova Team's combined GIS and CADD resources are readily available to provide support directly to the City. As part of an in-house CADD support team, we can produce high-quality plans and details in strict conformance to the City's requirements. Our GIS and CADD professionals are used to applying their strengths and serving within a "team building" environment with our engineers as well as with the client/owner staff.

The Nova Team produces plans and drawings with the use of the latest release of AutoCAD, Civil 3D for drafting, geometrics and quantities; Revit MEP for 3D BIM modeling; and ArcGIS/10 for a myriad of GIS assignments ranging from hydraulic modeling to asset management databases with aerial photography, all of which follow the City's standards.

The Nova Team is experienced in using high density point cloud (from drone or terrestrial scanner), coupled with aerial imagery and underground investigation, to compose a comprehensive survey product. The use of this modern technology proves efficient for the City, particularly in areas that are fully forested, where the use of terrestrial scanners for topographic surveys would be accurate and cost competitive since it would require less manual field labor, resulting in very high resolution representation (DTM) of the current overland flows. Simulation with one- or two-dimensional stormwater models over these type of high resolution DTM's would produce an extremely accurate simulation of the runoff patterns as well as allowing for identification of appropriate locations for drainage and stormwater management infrastructure.

The Nova team also offers the use of a 360 camera to fully encompass an area of interest. With the 360-camera approach, a 360-image can be embedded in a PDF document of an area map to provide an encompassing visual of current conditions, as well as providing 3D models of the existing conditions accessible through the PDF.



Sample GIS Rendering

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2) HISTORIC AND NATURAL PRESERVATION APPROACH

The Nova Team's approach to the preservation of any historic fabric, (historic architectural elements and/or including historic landscaping and historic landscape features), in the City as well as the natural environment is as follows:

1. We will identify all existing historic fabric *within the project limit line* (whether designated historic by the City or National Registrar of Historic Places, or if eligible for inclusion in the National Registrar of Historic Places).
2. Once we have identified any historic fabric, we will determine if any historic fabric has contributing or non-contributing factors (If the City has completed a report of such, we will use the City's report as the starting point for the project).
3. Understanding what the new scope of work. We will determine the impact to the existing historic fabric, including determining what can first be repaired and/or restored. If the new scope of work is in conflict with the existing historic fabric, we will evaluate whether or not if modifications can be made to the existing historic fabric to be compliance with both ADA and Life Safety, and with the proposed new use. If an adaptive reuse is needed, then we will determine how to maintain as much as possible of the original, historic fabric can be re-used or adapted to serve a new purpose. At all times, our design approach will follow the Secretary of Interior Standards for the Repair, Rehabilitation, Restoration and Adaptive Reuse of Historic Structures.

Our approach will also include presenting different design options to the City (giving the City as many design choices as feasible), discussing the project with the City's Historic Preservation Officer before the project design is complete in order to obtain the City's HP Officer's input before the project is presented to the City's Historic Preservation Board. It will also include the involvement of the Florida Department of State, Florida Division of Historic Resources, as required, if the project is funded with any State or Federal Funds. If applicable, we will follow the requirement Advisory Council on Historic Preservation Advanced Section 106.

As required, if the project requires the hiring of a specialized laboratory to evaluate the paint on a building, or the hiring of a masonry restoration craftsman, or the hiring of an artist familiar with the restoration of frescos, our team has completed all of these unique specialized tasks with the assistance of the highest qualified consultants in the State. We are prepared to do the same for the City, if so required, on this Contract.

The team approach will also include the spearheading of any public design charrettes to obtain the community's input on any proposed design projects that could possibly impact the historic nature, the historic character or architectural detailing of the City's public areas, right of ways and landmarks. Our approach is to maintain an open dialogue with the community, obtaining their goals and priorities, while balancing that of the City's physical needs, the project constraints including budget and schedule. Our goal, as the design professional, will be to integrate these opportunities and challenges into viable design options for the City, while always maintaining a strict application of the Secretary of Interior Standards to the restoration, rehabilitation, restoration and adaptive reuse of historic structures.

After the design proposal has been completed and approved by all Authorities Having Jurisdiction (City of Coral Gables Historic Preservation Board and if needed, the State of Florida Division of Historic Resources), our team will continue to be involved during the construction of the project, observing construction and ensuring that the general contractor builds the project in accordance with the Secretary of Interior Standards. We will propose to the City of Coral Gables to write into the technical specifications (front end documents) minimum qualifications for the general contractors to bid on a historic project that matches the scope of the project.

Our goal is always to protect the historic, architectural features of the City Beautiful, and we intend on providing the City with design options that comply with your scope of work, budget, and schedule, meet the expectation of the community, and is in accordance with the Secretary of Interior Standards.

Nova has interacted with Florida State Historic Preservation Office when working on Everglades Restoration projects. In particular, Nova supervised a Cultural Resources Survey and agency coordination process performed over SFWMD's project: Compartment C Stormwater Treatment Area, which revealed multiple tribal sites, four of which (8HN47, 8HN54, 8HN56, 8HN55) were determined by the USACE to be eligible or potentially eligible for inclusion in the National Register of Historic Places (NRHP). Florida's State Historic Preservation Office (SHPO) concurred with these findings. Four sites 8HN47, 8HN54, 8HN56, 8HN55 are located in the interior of Compartment C STA Project Area and adverse effects from periodic inundation could not be avoided by any feasible project re-design and were therefore subjected to mitigation measures. As Project Manager of this project, Nova coordinated together with the SFWMD and the USACE to obtain the necessary authorizations as part of the construction and operating permits for the facility.

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In the area of Natural Preservation, as part of its environmental experience, Nova has worked on multiple parks and wetlands restoration projects in Southeast Florida. The main experience that showcases Nova's abilities consists of the Chapman Field Park Wetlands Restoration Project, Miami-Dade County, FL: This was a Miami-Dade County Parks and Recreation Department (MDPRD) project part of a broad effort by the South Florida Water Management District (SFWMD) to improve water quality and restore native ecosystems in and around Biscayne Bay. As part of the improvement of the coastal recreation experience and ecosystem restoration at the park, Nova was involved in addressing various environmental concerns within the project. Services provided included:

- Liaison between the Miami-Dade County Parks and Recreation Department (MDPRD), SFWMD and USACE to expedite completion and approval of the required coastal wetland permit applications.
- Determination of the types of coastal wetland species on the property.
- Soil Management Plan (SMP) for the removal and disposal of soil and sediment from various areas in the park that were proposed to be utilized as part of the MDPRD plan for improved passive use activities. As part of the SMP, Nova detailed the soil and sediment sampling requirements and; provided detailed storage, transportation and disposal requirements for sediment dredged from a canal area and soil excavated as part of the improvements.
- Mitigation Site Plan detailing the proposed activities, site conditions, and proposed mitigation to offset impacts of the coastal recreation site. The Mitigation Site Plan included the restoration of a disturbed area of the property in which the area would be excavated down to the original grade and coastal wetland species would be planted and monitored to determine the survival success rate.



Chapman Field Park

Nova has relationships with the environmental agencies and has scientists in staff with experience and knowledge of coastal aspects that could impact the City's projects and programs.

Key Personnel Workload

Owner	Start Date	Comp. Date	Project Description	Contract Number	Scope	Key Personnel Involved
City of Ft. Lauderdale	2/3/15	2/2/20	H&S-City of Ft. Lauderdale Design and Implementation Program	43794-000	Provide services for Engineering Services. Develop, implement and maintain a Quality Control Plan	Catalina Lopez Velandia, Rafael Lazo
Miami Dade County	1/11/18	10/30/19	ARCADIS-RER Adaptation Strategies Respond Sea Level Rise	E16-RER-01	professional architectural and engineering (A/E) services to evaluate adaptation strategies that address medium and long-term rising sea level risks	Maya Compton-Grant, Julie Cossavella,
Miami Dade Water and Sewer Department	7/5/18	7/5/24	HDR-MDWASD Alexander Orr Engineering Support	E15-WASD-19	Engineering Design and related services for the improvement, renewal and replacement of the Alexander Orr WTP and the South Miami Dade water supply system.	Catalina Lopez Velandia, Jaqueline Page
Miami Dade Water and Sewer Department	12/30/13	12/30/20	NOVA-MDWASD-PSIP PM	E13-WASD-02R	provide Program and Construction Management Services for the Implementation of a Pump Station Improvement Program.	Bryan Moreni, ETM, Nikitha Shamirpet,
Miami Dade Water and Sewer Department	08/04/17	8/4/23	NOVA-WASD-Design Small Diameter Pipelines SBSA	E15-WASD-03A	provide Engineering Design and Related Services for the Design of Small Diameter Water and Wastewater Pipelines for the Water and Sewer Department's Wastewater and Water Collection, Transmission and Distribution System	Dulyma Kern, Cynthia Estivil, Orlando Alfonso, PE, Daymara Otero
Miami Dade Aviation Department	12/30/16	4/29/22	NOVA-MDAD Inspection Services and Environmental Oversight	E14-MDAD-02	Inspection Services and Environmental Oversight	Maya Compton-Grant, Leonardo Costa
Miami Dade Water and Sewer Department	10/27/14	10/27/20	CH2M-Hill-MDWASD-Ocean Outfall Legislation Contract	E13-WASD-11	Professional Engineer Services relating to the State of Florida's Ocean Outfall Legislation and Miami Dade County's Wastewater System	Jonathan Pappas, P.E., Steven Eagle, PE,
Miami Dade County	03/01/17	3/1/23	CH2M-Hill-MDWASD-SDWWTP RR	E15-WASD-12	Miami Dade South District Wastewater Treatment Plant and Its Appurtenant Facilities	Nelson Walters, PE
Miami Dade Water and Sewer Department	03/01/17	2/29/20	WSP-WASD Design of Large Diameter Water Pipelines 42"	E15-WASD-01	Engineering Design and related services of Large Diameter Water and wastewater pipelines for the water and sewer department's wastewater and water collection, transmission and distribution system	Dulyma Kern, Luis Dantes, Steven Eagle, PE
Miami Dade County	01/01/17	1/1/20	NOVA-DERM Environ. Cleanup, Compliance & Relat.Serv for MDC	E14-RER-01	Environmental Cleanup, Compliance and Related Services	Maya Compton-Grant, Julie Cossavella, Leonardo Costa
Broward County	01/01/13	9/1/18	AECOM-BCAD AEP PM Contract	60179203	Program Management Services at Nwe South Runway, Terminal 4 Replacement and Enabling Projects in connection with Fort Lauderdale-Hollywood International Airport	Theresa Jablonski, PE, Eduardo Guillen, Giuseppe Santoro, PE
Miami Dade County Seaport Department	10/28/14	10/28/18	BEA-POM Eng Services Agreement	A13-SEA-02	POM Architectural/Engineering Services Agreement	Orlando Alfonso, P.E., Eduardo Guillen
Miami Dade Aviation Department	12/01/15	12/1/20	CDM-MDAD SWMP Contract	E11-MDAD-02	Provide stormwater services for Miami International Airport (MIA), Miami Opa locks Executive Airport (OPF), Miami Executive Airport (TMB), and other minor MDAD-operated airports and support facilities.	Juan Prieto, P.E., Bryan Moreno, ETT
FDOT- District 6	01/01/15	1/1/20	NOVA-FDOT D6 CAR (BDY-81)	BDY-81	Contamination Assessment and Remediation Activities in Miami Dade and Monroe County	Kirenia Borbolla, Maya Compton, Julie Cossavella
Broward County	07/31/15	7/31/18	KH-BCAD On Call Aviation Planning Contract	R1277902P1	Consultant Services for Airport Planning	Harold Aiken, PE, Eduardo Guillen, Theresa Jablonski, PE, Giuseppe Santoro, PE
Broward County	06/23/15	6/23/18	R&A-BCAD On Call Airport Planning Contract	R1277902P1	Consultant Services for Airport Planning	Harold Aiken, PE, Eduardo Guillen, Theresa Jablonski, PE, Giuseppe Santoro, PE
Miami Dade Aviation Department	06/01/17	6/1/22	R&A-MDAD Aviation Planning & Programming Consultant Services	E16-MDAD-05	MDAD Aviation Planning & Programming Consultant Services	Cynthia Estivil, ETT, Alex Yu, ETT, Juan C. Prieto, PE
Miami Dade Water and Sewer Department	06/30/17	6/30/24	CS-WASD Improv, Upgrades & Expansion of Local WWPS	E15-WASD-02	Engineering Design and Related Services for the Improvement, Upgrades, and Expansion of Local Waste Water Pump Stations, and related Facilities necessary for Capital Improvement Projects.	Dulyma Kern, Steven Eagle, PE

The key personnel proposed for this contract has been carefully selected so that current and future commitments with other projects do not conflict with any assignments that the City would issue to Nova. When a new City of Coral Gables assignment is received, we will move the key personnel so that appropriate attention is provided to meet and exceed the City's needs and requirements.

SECTION III

4) MINIMIZING COMMUNITY IMPACT

Given the urban nature of the engineering services Nova provides which are included in this contract, every project follows an approach that maintains the level of service and mitigates to the extent possible the impact on the community. Strategies to accomplish this goal includes, but are not limited to the following:

- Prevent interruption of services by scheduling bypasses or detours so that the community still have access to the services while the work is completed.
- Schedule work in off peak hours, nights and/or weekends where any service interruption will have minimal effect.
- Phase and sequence the work so that no concurrent interruption of service is in place at the same time.
- Effective communication with the community and government officials is critical, so that contingency plans are in place while any public service is affected.

The critical item for success in this front is to establish and promote open lines of communication between the City and stakeholders throughout a project assignment. The Nova Team is prepared to attend various board, community and agency meetings on behalf of the City, and represent the City of Coral Gables on technical issues relating technical assignments received from the City. Successful public involvement support requires that team members assist the City in building consensus and gaining the support of a project by all interested individuals, groups, and governments. The Nova Team will provide the needed technical support required to make the public forum a positive interaction between the project team, other government agencies and the community.

If so desired by the City, Nova's Team will arrange for meeting rooms, prepare displays and develop educational presentations and formal graphics for display of key project elements. We will prepare all materials in advance of the actual workshop/hearing or meeting, for review by the City. We can prepare these materials in Spanish, Creole, or other language if the community so requires it.

Nova has successfully applied one or more of the above strategies in its projects. The best example that showcases Nova's experience is the MDWASD Pump Station Improvement Program (PSIP) in which Nova has directed the intervention of over 120 pump stations spread throughout Miami Dade County. Many of these pump stations are located in communities very sensitive to the continuity of service and also in heavily congested areas. In addition to all the technical measures and project phasing and sequencing that was provided by the designers, the main strategy applied consisted of effective community outreach and awareness coordination by provided fact sheets and informing public of potential impacts, facilitate resolution of easements and encroachment recordings, quickly respond to public concerns during construction, and provide health and safety coordination by reviewing design plans, health and safety plans, hurricane plans, and dive plans developed by contractors.

Nova is the Program Manager for the Miami-Dade Water and Sewer Department (WASD) Pump Station Improvement Program (PSIP) with an investment of \$ 168 million to upgrade the Wastewater Collection and Transmission System (WCTS) serving a population of 2.3 million. The PSIP was created to evaluate and improve the operation and transmission capacity of 147 projects distributed throughout Miami Dade County, including the upgrade and/or repairs of pump stations, force mains and sanitary gravity lines.

Another example of minimizing community impact consists of the repairs that Nova designed for the Third High and Second High Reservoirs owned by the United States Army Corps of Engineers (USACE) Baltimore District, Washington Aqueduct Division. In these projects, Nova had to derive a construction sequencing and schedule that would not deter continuity of service, as the reservoirs for which Nova provided design services cannot be entirely out of service for the duration of the construction.

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5) SCHEDULE, COST, AND QUALITY CONTROL

5.1 SCHEDULE AND CONTRACT METHODOLOGY

"Typical" tasks expected under typical work orders under this contract include Planning, Design, Permitting, Solicitation and Construction. Functional scheduling with referential activity constraints and a Quality Assurance approach, allow team members of different disciplines to proceed in a coordinated yet independent manner on different assignments and expedite the completion of the project.

Some projects that will be performed as part of this contract could qualify as typical minor task assignments that will just result in an Engineering Planning Report containing analysis and recommendations for specific issues that the City needs to address. Other types of projects would qualify as major task assignments, as they would entail engineering design and implementation, resulting in Engineering Design submittals and services during construction.

Permanent involvement of, interviews with, and reviews by, the City will be considered with the purpose of assessing client's expectations and ensuring the right product is being prepared. In addition, permanent coordination with the community, project stakeholders and permitting agencies is also included as a critical factor for success.

The above client's involvement strategy is a result of the extensive experience that Nova's team has in providing services in multi-task service contracts, which generally follows the procedure described below.

Generally, a work order request will be initiated by the City's Project Manager. In response to this request, the Team will develop a scope of work and price proposal based on existing available information and data collected from different agencies having jurisdiction over the project such as Miami Dade County Departments, the South Florida Water Management District (SFWMD), as well as the City. These preliminary investigations will also include field visits, as required, for verification of existing conditions to ascertain project needs. This proposal will undergo review by the City's Project Manager and price negotiations will follow.

Once the Notice to Proceed with the work is issued, data collection and investigations will be advanced in order to compile existing conditions, performance data, as-built and/or record documents, information on utilities and staff interviews. Concurrently, project specific survey and geotechnical investigations will also start as the first order of business.

The scope of the survey work will generally include but is not limited to: establishing horizontal and vertical ground control, obtaining plane table/cross sections, aerial photography, digitizing map information, establishing ROW and easements, generation of topographic maps, and field verification of all surface features and underground utilities within the area to be surveyed, such as: Power and communication lines, street light poles, guy wires, transformers and substations, sanitary and industrial sewer manholes and all storm drainage structures, water, gas, oil, fuel, and other ground pressure pipes, fire hydrants, hose bibs, valve boxes, pump stations, pipeline valves, roads, road signs, drives, walks, and railroads, fences, trees, ditches, streams, canals, ponds, lakes, storage tanks, radio antennas, and monitoring wells.

Regarding the scope of the geotechnical work, it will generally include but is not limited to soil borings and sampling, visual inspection and laboratory testing, engineering analysis and recommendations necessary to provide for the project's technical requirements. Upon completion of the initial investigations, data processing, analysis and reporting will follow, which will contain specific recommendations for a solution.

In addition to the above, survey and geotechnical data handling will be performed by using latest technology for collection, transmission, processing and analysis. Longitude Surveying has full GPS capabilities and uses the latest software and surveying equipment. Also, Geosol uses web-based collaboration technology for data transmission, processing, storage and analysis, giving the client and project team the possibility to check status of investigations at all times.

In case the City decides to implement a project, a new task assignment will be developed that would entail design and implementation and would include the typical Preliminary (30%), Intermediate (60%), and Final Phase (90%) submittals (plans and specifications) and reviews. The phasing and number of review submittals will be defined in the scope of work and will fully comply with the number of reviews required by the project and expected by the City.

Once the design is completed and moving onto the implementation phase, the project will obtain all the necessary permits and authorizations to be advertised for selection of qualified contractors. In this phase, the following activities are anticipated:

- 1) Solicitation support services;
- 2) Bid evaluation;

SECTION III

- 3) Construction support services, such as Engineering During Construction, Resident Engineering Services, construction engineering, inspection and management.

During design and implementation phases, the following critical success factors are identified to avoid delays and/or rework during design and/or construction associated with potential conflicts or lack of coordination:

- 1) Early identification of potential impacts to existing site/project features, including existing utilities;
- 2) Early utility coordination by submitting preliminary plans as early as possible to water and sewer utilities from the City, power lines from FPL, gas lines and fiber optic cables from different carriers to obtain feedback;
- 3) Early identification of and coordination with major stakeholders and community representatives, including adjacent property owners, which includes the preservation of the historic and natural environment of Coral Gables.
- 4) Early coordination with federal, state and local agencies having jurisdiction over the project. Typically, the following are expected to be involved USACE, SFWMD, Miami-Dade County Department of Environmental Resource Management (DERM), Miami-Dade County Public Works Department (MDPW), adjacent Municipalities, and others.
- 5) Quality Management and Control: upon receiving Notice to Proceed for every task, the Nova Team will submit a brief written, detailed auditable Quality Management Plan (QMP) to the City for review and approval prior to substantially commencing work on the project. The QMP will detail procedures, evaluation criteria, instructions to Nova's Team, quality review checklists, and certifications that will assure conformance with the requirements of the City. The development of the project will be continuously monitored at all levels, with the final responsibility for implementation of the QMP resting with the Project Manager.

Files will be maintained in an organized fashion in accordance with the City's guidelines and established Document Management Procedures. Constant backups of project directories are performed automatically by our servers to avoid lost data. Archive policies associated with record retention time will follow the City's guidelines.

The Team members will coordinate efficiently with each other by using electronic communications, ftp sites, PDF files, and web based emerging technologies to communicate project information and communicate project status. Team members are intimately familiar with Web Based Collaboration Systems, such as Bentley's ProjectWise V8 that allows concurrent work by several consultants remotely on a project documents, keeping close documentation of the project and design development.

The project team's in-house communication shall be maintained by holding design coordination meetings every other week, or more frequently as needed. These meetings will assure the required interaction between all team members.

The keys to a successful project are the experience of the project team, the interaction among the team members, and the close and continuous communication with the City and other outside agencies throughout the design process. In achieving these keys to success, the Nova Consulting Team brings together a proposed staff that has exceptional final design experience coupled with an excellent understanding of the City's needs for the types of assignments that are part of this project.

5.2 COST ESTIMATING

We understand the importance of cost to any size project and the role it plays in decision making. Nova has practiced estimating, cost control, and forecasting for municipal and state infrastructure projects involving highways, bridges, aviation, and water resources projects. Recently Nova has extensively worked with MDWASD, Town of Medley and several other clients on improvements on various pump stations throughout the County. As part of our services, we have provided Rough Order of Magnitude Estimates (ROME) based on planning level project definition and Opinion of Probable Construction costs based on final design drawings. Our opinions have included life cycle cost analyses to give the client a complete picture of the costs and benefits derived from the project.

For quantity take-off, Nova uses specialized software such as PLANSWIFT to ensure accuracy and serve as a memory aid for future reference. For the cost estimating functions, Nova uses specialized cost estimating software such as SAGE and MCACES. Cost databases include specialized publications such as RS Means as well as bids received from past projects.

Nova provides cost estimating services from every phase of the design, construction, and budgeting process. The success of our cost engineers to provide detailed and professional estimates is a direct result of our comprehensive database of material and labor pricing, combined with our extensive on-site experience and our understanding of the market conditions. Cost estimates are meticulously prepared and QA/QC'ed in accordance to ACEI guidelines and all applicable project-specific cost estimating guidelines and standard of procedures.

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Nova offers cost estimation in civil work projects that include, but are not limited to: new installations, rehabilitations, and/or upgrades to the stormwater, wastewater, water, and electrical distribution and transmission systems and hardening of its associated infrastructures such as substations, pumping stations, and treatment facilities. Other areas of expertise include on and off-road improvements, coastal resiliency, shoreline protection, and implementation of traditional stormwater best management practices and green infrastructure.

From project inception to completion, our cost engineers understand the importance of attending workshops, working closely with the design and/or construction team, and maintaining an open line of communication. Nova's cost estimating group consists of a number of professionals with a solid engineering background that can grasp the uniqueness, technicalities, risks and opportunities, and the dynamics of each individual project. For construction cost estimating services, the involvement of our cost engineers begins from the moment RFIs are generated and continues with the monitoring of the responses. Once it is determined that a cost modification is required, our cost engineers thoroughly review the design changes with the CM team and help assemble the change order package all the way to negotiations.

5.3 QUALITY CONTROL

Nova Consulting has developed and implemented a Quality Management System governed by procedures, work instructions, forms, drawings and other supporting documentation that is used by all staff and/or companies having direct or supportive participation in processes affecting the quality of our deliverables. Our **Quality Officers Harold Aiken, P.E. and Steven Eagle, P.E.** are responsible for the effective implementation and maintenance of the Quality Management System in the work orders under this contract.



Harold Aiken, P.E.

5.3.1 Quality Management System

Nova's Project Management and QA/QC Team monitor contract performance and are dedicated to continuous improvement by listening closely to the needs and comments of the City. To assist the management team in completing its mission of delivering high-quality services, each Nova member has full access to and training in Nova's Quality Management System. Nova emphasizes and follows a culture of Continuous Quality Improvement through permanent internal evaluation and feedback.



Steven Eagle, P.E.

Nova Project Design Quality is assured through preparation of a documented QA/QC Plan for the contract which is modified as necessary during individual work order progression. The contract's QA/QC Plan identifies the specific elements of the Quality Control/Quality Assurance Program that are applicable to any assigned project or task. Nova's project-specific QA/QC Plans are then prepared on a task order basis, to address QA/QC specifics based on the scope of services to be provided.

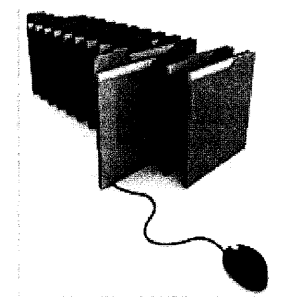
Nova's Project QA/QC Plan mainly includes the following elements:

5.3.2 Document and Data Control

Documented procedures are in-place describing the control of documentation requirements within the Quality Management System. The procedure defines the controls for:

- Approving documents for adequacy prior to issue
- Review, update and re-approval of documents
- Change control and the current revision status of documents
- Accessibility of relevant versions of applicable documents
- Prevention of the unintended use of obsolete documents

A project filing system, both physical and electronic is set up and maintained in a centralized office location. The project file will contain all original hard copies and electronic project documentation in accordance with Nova's Document Control procedures



Document Control

5.3.3 Control of Quality Records

Quality records provide evidence of conformity to the QA/QC Plan's quality requirements to demonstrate and document effective implementation of the QA/QC protocols and guidelines. Document control procedures define the controls needed for the identification, storage, protection, retrieval, retention times and disposition of quality records.

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5.3.4 Quality Planning/Project Control

Nova's project-specific quality plans developed on a project-project by project basis, are an integral part of Nova's Quality Management Strategy. Project-specific Quality Plans are used to define how Nova will meet the City's specific project requirements. Documented procedures ensure that all required quality activities have been performed satisfactorily by qualified personnel prior to the release of project deliverables. Quality control and assurance activities may include detail checking, independent technical review (ITR), drawing/specification review, work order conformance review, consistency check, calculation checking, or other reviews or checks as deemed necessary by the Project Manager or Quality Officers.

Detail Checking: Detail checking is the quality control procedure whereby all technical analysis and design information of a deliverable is verified for correctness, consistency, conformance, completeness and technical accuracy. Calculations are formally checked by reviewers not involved with the calculation development. Drawings and specifications are checked by a color-coded process:

- Review comments/corrections/edits are provided by the checker to the originator in red.
- Once the corrections are made, the originator shades comment in yellow signifying the comment/edit/correction has been incorporated.
- Un-shaded items are reviewed and discussed, and a collaborative decision made as to the disposition of the item.

The QA/QC reviews are performed by Senior Professionals who are independent from the originator of the document to be checked, but part of the project team as assigned by the Project Manager.

Independent Technical Reviews: All substantive deliverable will undergo an Independent Technical Review (ITR) by senior level Nova staff. Independent Technical Reviews are intended to assure that the technical design approach, concepts and work products are consistent with industry design approaches and practices and that proper analytical evaluation have been performed to technically support the evolved designs. Senior technical personnel not directly involved in the design process will perform the ITRs. ITRs can be performed as part of the detailed design process and/or can be performed as part of the *Value Engineering* process to be subsequently discussed.

Client Satisfaction Feedback Reviews: Our President, Maria J. Molina, P.E., will initiate periodic Client Feedback Satisfaction reviews with the City's Project Manager and other City staff as appropriate. The purpose of this review will be to solicit the City's feedback regarding contract performance or other issues requiring attention by senior Nova management.

Sub consultant Procurement: Sub-consultant and subcontracted services are evaluated and selected based on their technical expertise, prior successful experience with Nova and proven ability to meet contractual requirements. Purchasing/contractual documents shall contain data clearly describing the product or service ordered, including scope of work, technical requirements, professional liability, qualifications of personnel and sub consultant Quality Management requirements. The procured sub-consultant services must meet Nova and the City's contractual requirements.

Internal Audits: Nova conducts periodic internal QA audits at planned or spot check intervals to monitor whether the project Quality Management System and QA/QC Plan are being implemented and conform to the planned requirements. The purpose of these audits is to verify that proper procedures, detailed checking, Independent Technical Reviews, and document control activities are being followed and properly performed as planned. All audit findings become documented non-conformances or corrective actions requiring attention.

Corrective/Preventive Action/Continuous Improvement: Nova makes every effort to eliminate the cause of non-conformities, and potential non-conformities, in order to prevent their recurrence. Nova permanently seeks ways to continually improve the effectiveness of the Quality Management System through the use of quality objectives, audit results, analysis of data, corrective and preventive actions and management reviews.

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6) COMMUNITY AND BUSINESS INVOLVEMENT

As part of each project evaluation, Nova will identify the external stakeholders that may be impacted, which may include; general public and elected officials and municipalities, adjacent landowners, environmental groups, the construction community and small businesses. Given the City's approach toward, "Positioning Coral Gables for sustainable, long-term economic vitality that enhances the quality of life of residents and strengthens the business environment", Nova will create tailored databases and communication protocols for each stakeholder and will advise The City on the strategy to be followed.

The issues associated with the urban and rural neighborhoods that may be impacted by a project will necessitate a well-planned and coordinated Public Outreach plan that addresses all stakeholders' interests, community concerns, and achieves consensus among all affected parties. Some of the main current stockholders involved in the City are summarized below. As the projects are further defined, additional stakeholders will be identified.

*Mayor and City Commission
 Tax Payers
 Boards
 Business Owners
 Consumers
 Cultural Groups
 Employees
 External Service Users
 Coral Gables Garden Club
 Miracle Mile Business Improvement District*

*Inter-Government Relations
 Investors
 Private Partnerships
 University of Miami
 Utilities
 Metropolitan Planning Organization
 Miami-Dade General Obligation Bonds
 Neighborhood Renaissance Program
 Miami-Dade Department of Cultural Affairs*

The ultimate goal for the interconnection of stakeholders is to establish and promote open lines of communication between the City and its stakeholders throughout projects. The s an extension to the City, the Nova team will attend various boards, community and agency meetings and represent the City on technical issues relating to projects. Successful public involvement support requires that team members assist The City in building consensus and gaining the support of a project by all interested individuals, groups, and governments. The Nova Team will provide the needed technical support required to make the public forum a positive interaction between the project team, other government agencies and the community.

Nova has and is currently providing extensive outreach services for large municipal programs. An example that showcases this experience was our involvement in the South Florida Water Management District's Comprehensive Everglades Restoration Plan /Acceler8 program - a \$1.8 billion program to expedite construction of eight key Everglades Restoration projects.

As part of Miami Dade Water & Sewer Departments the Pump Station Improvement Program (PSIP), Nova has provided community outreach and awareness coordination by provided fact sheets and informing public of potential impacts, facilitate resolution of easements and encroachment recordings, quickly respond to public concerns during construction, provide health and safety coordination by reviewing design plans, health and safety plans, hurricane plans, and dive plans developed by contractors. Nova is proud to say the PSIP has had zero (0) safety incidents. Nova has successfully conducted training workshops for small business contractors including topics, such as, scheduling, invoicing, safety, and diving.

Projects at a Glance

- 10 projects are currently in progress by the Miami-Dade Water and Sewer Department
- 10 additional projects have been approved by the Board of Commissioners and are currently in the design phase
- 10 additional projects have been approved by the Board of Commissioners and are currently in the design phase
- 10 additional projects have been approved by the Board of Commissioners and are currently in the design phase

Project Name	Status	Location	Contractor	Completion Date	Estimated Cost
PSIP-001	Design	District 1	ABC Construction	Q3 2024	\$500,000
PSIP-002	Design	District 1	DEF Construction	Q4 2024	\$750,000
PSIP-003	Design	District 1	GHI Construction	Q1 2025	\$1,000,000
PSIP-004	Design	District 1	JKL Construction	Q2 2025	\$1,250,000
PSIP-005	Design	District 1	MNO Construction	Q3 2025	\$1,500,000
PSIP-006	Design	District 1	PQR Construction	Q4 2025	\$1,750,000
PSIP-007	Design	District 1	STU Construction	Q1 2026	\$2,000,000
PSIP-008	Design	District 1	VWX Construction	Q2 2026	\$2,250,000
PSIP-009	Design	District 1	YZA Construction	Q3 2026	\$2,500,000
PSIP-010	Design	District 1	BCD Construction	Q4 2026	\$2,750,000

Community outreach Fact-Sheet for the PSIP

If so desired by the department, The Nova Team will arrange for public notices, meeting rooms, prepare displays and develop educational presentations, website and formal graphics for display of key project elements. The Nova Team will also prepare all materials in advance of the actual workshop/hearing or meeting, for review by The City. We can prepare these materials in Spanish, Creole, or other language if the community so requires it.

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7) FEDERAL POLICY COMPLIANCE

For the last 15 years, Nova has worked in a number of federal government projects mainly associated with the US Army Corps of Engineer, as listed below:

- A/E Services for the USACE Jacksonville District- Comprehensive Everglades Restoration Program
- A/E Services for the USACE Baltimore District- Washington Aqueduct Division

The above experience has given Nova familiarity with federal rules and regulations, specifically the ones related to the Equal Opportunity Clause in Federally assisted construction contracts- 41 C.F.R. Part 60-1.4(b). In compliance with this regulation, Nova follows strict and auditable personnel selection protocols that ensure non-discrimination and equal opportunity for any and all applicants to Nova's job openings.

Regarding the compliance with the 2 CFR § 200.321(b), it's worth mentioning that the Nova Team is a 100% Small Business Team, and that Nova, as well as most of the Nova's team members are MBE and/or WBE. The team composition is such, that meets and exceed any requirements from federal government. In addition, The Nova Team pledges take all necessary affirmative steps under this contract to assure that minority businesses, women's business enterprises, and labor surplus area firms are utilized in City projects when possible.

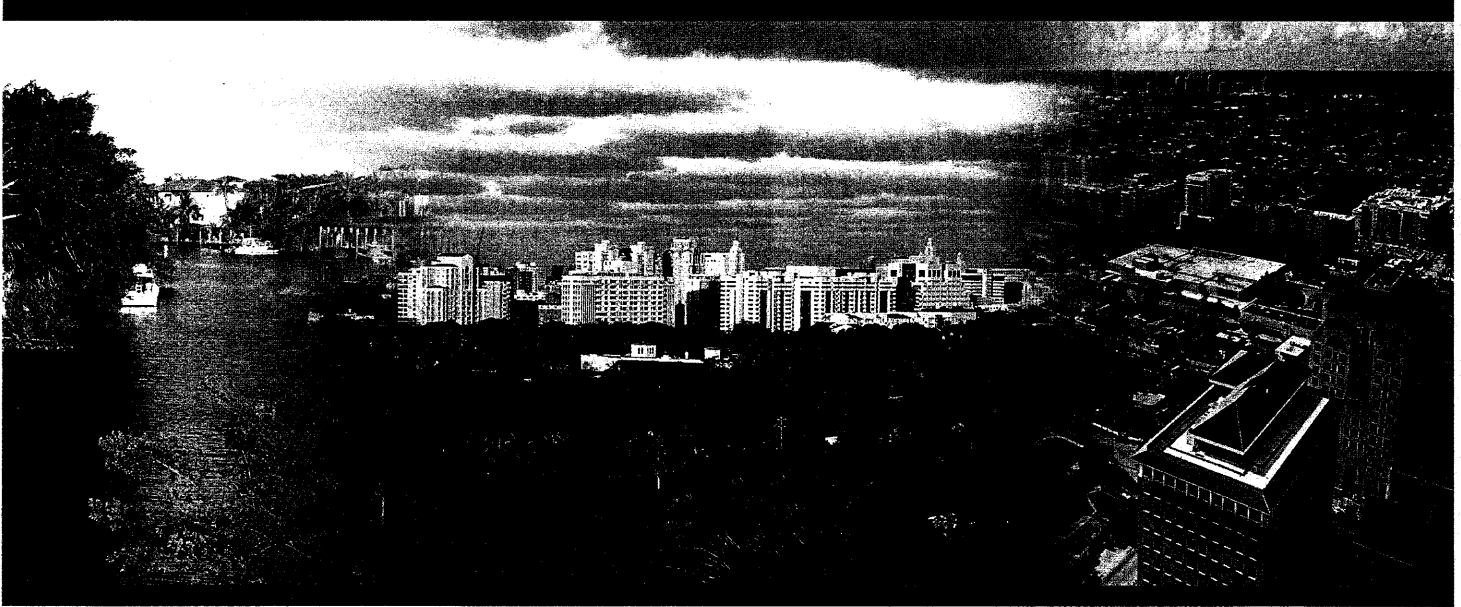
In addition to the above and to emphasize Nova's experience and familiarity with federal rules, regulations and protocols, it's worth mentioning Nova's role during the Cat. 4 Hurricane Irma recovery efforts. For this recovery, Nova supplied supervisory field personnel as required to oversee the application of FEMA procedures and regulations to the truck certification and debris cleanup activities that took place in several areas of Miami Dade County, City of Pembroke Pines and City of Tamarac. Another related activity that Nova covered consisted of the preparation of FDOT- District 6 Detailed Damage Inspection Reports (DDIR's) required to support the application for assistance from the Federal Highway Administration (FHWA) Florida Division - Emergency Relief Program.

CORAL GABLES

THE CITY BEAUTIFUL

SECTION IV

PAST PERFORMANCE AND REFERENCES



F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 3
21. TITLE AND LOCATION <i>(City and State)</i> NW 75th Street Drainage Improvements, Town of Medley, FL		22. YEAR COMPLETED PROFESSIONAL SERVICES: 2009 CONSTRUCTION <i>(If applicable)</i> : N/A

23. PROJECT OWNER'S INFORMATION

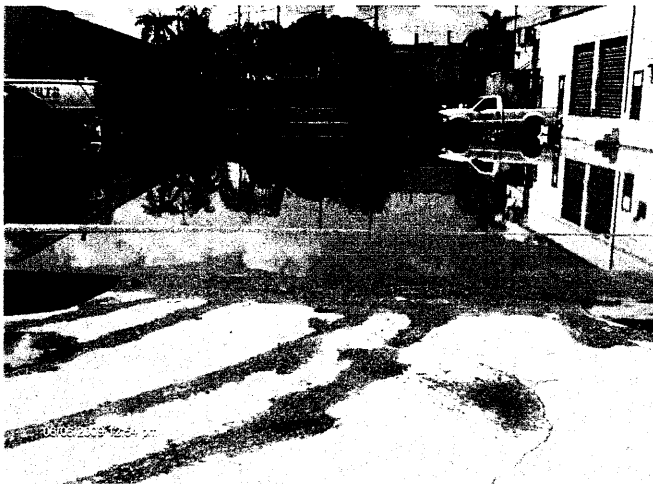
a. PROJECT OWNER Town of Medley	b. POINT OF CONTACT NAME Mary Taylor	c. POINT OF CONTACT TELEPHONE NUMBER 305.887.9541
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Due to localized flooding and adjacent roadway construction improvements causing an increase in flooding, As the Prime, Nova performed onsite investigations to assess NW 75th street's current drainage system. The analysis performed from the site investigation was used to prepare construction plans and documents for the upgrade and improvements to the existing system.

The drainage design included stormwater treatment and attenuation as required to comply with requirements from Miami-Dade Permitting, Environmental, and Regulatory Affairs Department and the South Florida Water Management District.

In addition, Nova was responsible for preparing stormwater and surface water permit applications for agencies having jurisdiction.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a. Nova Consulting, Inc.	Miami, Florida	Roadway civil, paving, drainage and permitting
b.		
c.		
d.		
e.		
f.		

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER
---	--------------------------------

21. TITLE AND LOCATION <i>(City and State)</i> WASD Small Pipeline Design	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION

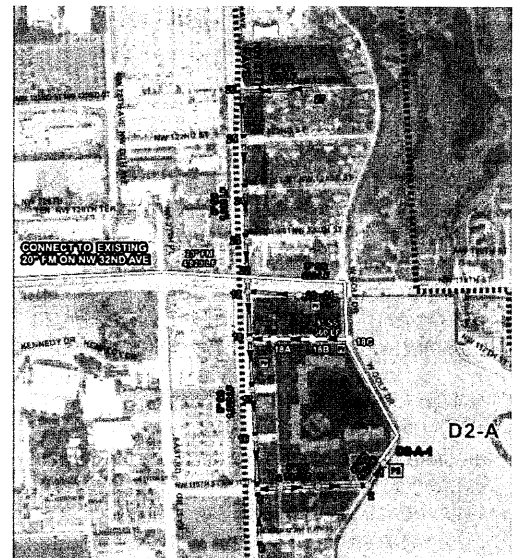
a. PROJECT OWNER Miami-Dade Water & Sewer Department	b. POINT OF CONTACT NAME David Marquez	c. POINT OF CONTACT TELEPHONE NUMBER 786-552-8826
---	---	--

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The Miami-Dade Water and Sewer Department (MDWASD) has established a Small Diameter Pipelines Project for upgrading or replacing parts of the Wastewater Collection and Transmission System. Nova is one of the companies in the pool of Consulting firms to provide the needed services as assigned.

Nova provided Civil, Structural, Surveying and Limited Construction Support Services for the replacement of approximately 650 linear feet of 10 inches deteriorated watermain, crossing Florida Turnpike at NW 207th street, west of NW 15th Ave with a 12-inch Ductile Iron Pipe (DIP) water main (including a protective casing). The scope of work shall include the Design of a new Water Main and will consider utility/ HOA coordination, roadway/area restorations, easements, and all other applicable MDWASD water main replacement design criteria and standards.

Nova also provided MDWASD with the professional engineering services in connection with the design, permitting, regulatory/utility coordination, bid phase services and engineering services during construction for the proposed new gravity mains associated with sub-basin D2-A-1. The scope of this project included a plan to extend sewer services to commercial and industrial parcels within the County's Commission Districts. This project included Maintenance of Traffic associated with NW 27th Ave (SR 9) and a challenging crossing of Gragny Parkway, for which night work and close coordination with FDOT was required.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.	Nova Consulting, Inc.	Miami, Florida	Water and Wastewater Pipeline Design
b.			
c.			
d.			
e.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER
---	--------------------------------

21. TITLE AND LOCATION <i>(City and State)</i>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Contamination Assessment and Remediation Services (CAR), Miami, FL	Ongoing	N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Florida Department of Transportation	Mauricio Gomez	305.470.5228

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

As a prime contractor, Nova currently holds the Florida Department of Transportation District 6- Contamination Assessment and Remediation (CAR) Contract which includes contamination assessment and remediation services, environmental and construction supervision and inspection, and emergency response to incidents in FDOT roads. During Category 4 Hurricane Irma recovery, Nova worked on the preparation of supporting documentation for the FDOT District 6 Detailed Damage Inspection Reports (DDIR's) required to support the application for assistance from the Federal Highway Administration (FHWA) Florida Division- Emergency Relief Program. Services also include emergency response to incidents involving potentially hazardous materials. Representative projects are described below:

State Road 907 (Alton Road) from 5th Street to Michigan Avenue
 CAR Contractor Cost: \$169,000
 Start Date: 4/2013 - Completion Date: 4/2016

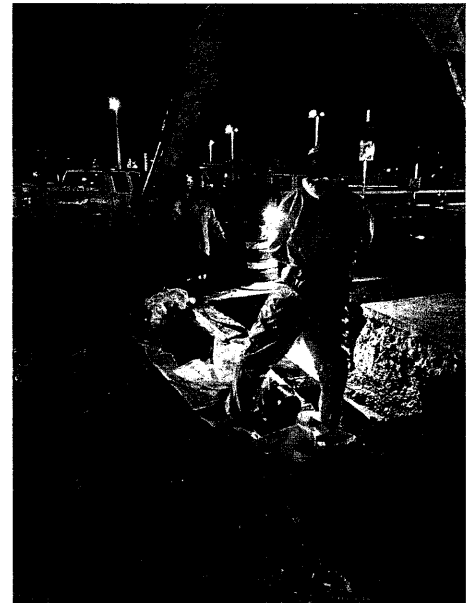
The project involves roadway and drainage utility improvements as well as water main construction along State Road 907 (Alton Road) from 5th Street to Michigan Avenue in Miami Beach, Miami-Dade County. The Florida Department of Transportation performed a Dewatering Permit Assessment within the contractor's proposed areas of dewatering to determine if soil and/or groundwater contamination was present. Nova assisted in performing assessment activities where petroleum contamination was documented in soil and groundwater at several sites. Nova is performing additional assessments and soil disposal activities; sampling and analyzing muck material for contaminants (VOCS, PAHs, TRPH, etc.), performing underground utility clearance, establish MOT required to accomplish work, and coordination for 26 soil boring operations

NW 47th Avenue from State Road 860 to Premier Parkway
 CAR Contractor Cost: \$48,000
 Start Date: 12/2014 - Completion Date: On-going

This project consists of designing roadway and drainage improvements along NW 47th Avenue from State Road 860 to Premier Parkway in Miami-Dade County. A review of the project corridor and records available from regulatory agencies was performed; as a result, two potentially contaminated sites were identified as potential impacts to construction. Nova is conducting an Impact to Construction Assessment to determine if there is contamination present in the areas of the proposed construction. During the field assessment activities solid waste was encountered outside the boundaries of a known landfill. Nova is currently in the process of assisting with delineation of the solid waste and redesign of the proposed features to avoid contamination impacts.

I-395 Expressway Project, Parcel 171
 CAR Contractor Cost: \$14,423

Start Date: May, 2015 - Completion Date: On-going
 Nova prepared a Soil Sampling Plan for the Interstate 395, Parcel 171 site in order to request closure of the Risk Based Corrective Action (RBCA) Site Closure Permit. Specific tasks included preparation of Soil Sampling Plan, performing underground utility clearance, development of the Health & Safety Plan, and coordination of site personnel and equipment for the performance of twenty-seven soil borings and collection of the associated soil samples.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a. Nova Consulting, Inc.	Miami, Florida	Environmental Professional Services

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

21. TITLE AND LOCATION <i>(City and State)</i>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Pump Station Improvement Program (PSIP), Miami, FL	ongoing	N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Miami Dade Water & Sewer Department	Rolando M. Roque, P.E.	786.552.8129

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Under the terms of a consent decree, Miami-Dade County is in the process of rehabilitating its wastewater treatment plants and its sewer collection and transmission system within 15 years. The Pump Station Improvement Program consists of managing these upgrades to Miami-Dade Water and Sewer Department's Wastewater Collection and Transmission System that includes sanitary sewer collection systems, pump stations, and force mains. As per USEPA standards, all the pump stations will be certified as capable of meeting a nominal average pump operating time of less than 10 hours per day. MDWASD currently has identified approximately 109 sewage pump stations that do not comply with the NAPOT criteria and/or are in need of upgrade. The cost of the proposed pump station basin improvements and rehabilitations is approximately \$103.5M Dollars.

As the largest contract awarded to a female-owned company by Miami-Dade County, Nova Consulting is currently providing the project management for projects (\$17.6Million) being established through the Pump Station Improvement Program. Under the program Nova has and will continue to provide the following services: Program Management; Construction Management; Program Controls Management System (PCMS); scheduling and cost estimating; establishment of infiltration and inflow (I/I) reduction management; design management services; value engineering; permitting; health and safety coordination; municipality/agency coordination; procurement assistance; and public outreach.

Nova's achievements on the PSIP:

- Ahead of schedule with 138 projects out of 215, without incurring an increase to program costs
- \$24 million in construction has been awarded to date
- 80% of PSIP members are Small Business Enterprise firms and 100% local
- All established EPA deadlines have been met on or prior to deadlines, thus avoiding fees

Projects at a Glance

- \$27.59M invested in District 1 by the Miami-Dade Water and Sewer Department
- 10 sanitary sewer pump station upgrades, 9 of which will be completed within the next 18 months
- 4 non-wastewater force mains to be installed 3 of which will be installed within the next 18 months
- Construction for all PSIP projects in District 1 will be completed by December 2018 ahead of the USEPA dates

QUALITY VALUE ECONOMY OF GROWTH

www.miamidade.com/psip

Project Type	Year	USDA Deadline	Wastewater Code	Address	Municipality	Contract Construction Start Date	Contract Construction End Date
PS	431	12/31/18	CM	2000 NW 41 ST	Juno Beach/Miami-Dade	07/31/15	12/31/15
FM	435	12/31/15	CM	2000 NW 41 ST	Juno Beach/Miami-Dade	06/01/15	12/31/15
PS	358	12/31/14	CM	5895 NW 1st Court SW	Juno Beach/Miami-Dade	10/01/14	04/01/15
PS	443	12/31/14	CM	141 S NW 25 St	City of Miami Gardens	03/01/15	02/28/16
PS	440	12/31/14	CM	701 NW 25 St	City of Miami Gardens	02/01/15	04/01/16
PS	437	12/31/14	CM	14705 SW 24th Street Dr	Juno Beach/Miami-Dade	05/14/14	06/30/15
FM	407	12/31/14	CM	14705 SW 24th Street Dr	Juno Beach/Miami-Dade	03/12/14	07/01/14
PS	356	12/31/14	CM	2001 SW 1st Street SW	Juno Beach/Miami-Dade	07/01/14	06/30/15
FM	436	12/31/14	CM	1221 SW 1st Street SW	Juno Beach/Miami-Dade	07/01/14	07/01/15
PS	376	12/31/14	CM	14917 NW 14 Ave	City of Miami Gardens	03/01/14	05/01/14
PS	390	12/31/14	CM	2716 NW 14 St	City of Miami Gardens	03/01/14	02/01/15
PS	475	N/A	N/A	801 NW 21st Ave	Juno Beach/Miami-Dade	11/02/14	05/01/17
PS	442	12/31/16	CM	2034 NW 10 St in Park	City of Miami Gardens	11/01/17	04/01/18
FM	442	12/31/16	CM	2034 NW 10 St in Park	City of Miami Gardens	11/01/17	02/01/18

FOR MORE INFORMATION: Tere Garcia, Public Services Director, 786-271-2075, tgarcia@psip.miamidade.com

Adriana Lamar, Chief Procurement Manager, 786-552-8287, alamar@psip.miamidade.com

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Nova Consulting, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Miami, FL	(3) ROLE Design/Construction Manager for Pump Station repairs
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 3
21. TITLE AND LOCATION <i>(City and State)</i> Hurricane Irma Disaster Recovery Broward County, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Broward County	b. POINT OF CONTACT NAME Betty Kamara	c. POINT OF CONTACT TELEPHONE NUMBER 407.803.2551
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

In response to the category 4 hurricane Irma, Nova provided oversight for cleanup efforts. This oversight involved performing duties as Operations Manager, such as field issue field issue resolution, and the design and implementation of processes for monitoring. In addition, the Operations Manager is responsible for communicating directives and interacting among Client and Contractor representatives. The Operations Manager is responsible for coordinating the scheduling of monitoring personnel and resolving personnel-related issues. Additionally, the Operations Manager serves as back-up for all Field Supervisor responsibilities, including truck certification, load ticket quality control and immediate on-site support. Operation Managers for disposal operations are responsible for coordinating all monitoring activity at each of the approved Temporary Debris Storage and Reduction site locations. Nova also performed duties as Disposal Field Supervisors to resolve site issues, review load tickets for accuracy, certify the cubic yard capacity on collection vehicles, and serve as immediate field contacts for all parties reporting as required to the Operations Manager.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCAT <i>(City and State)</i>	(3) ROLE
a.	Nova Consulting, Inc.	Miami, FL	Field Oversight- Civil, Environmental
b.			
c.			
d.			
e.			
f.			

Project	Name of the City Department for which the services are being performed	Scope/description of work	Awarded value of the contract/current value	Effective dates and term of the contract	City project manager's name and phone number	Statement of whether the Proposer was the prime contractor or subcontractor	Results of the project
0150001 Bitmore Golf Course	Public Works Department	Soil and Groundwater Assessment at the Bitmore Golf Course Facility	\$ 40,000	1996	Kenneth Ingersoll	Prime Contractor	NOVA CONSULTING, INC. has proposed cost-effective measures that provide overall protection of human health and the environment as well as compliance with applicable regulatory codes.
0155500 Methane Abatement-Passive Venting System	Public Works Department	Methane Monitoring Activities and the Conceptual Design of the Passive Venting System	Not available	1998	Kenneth Ingersoll	Prime Contractor	Methane monitoring report
0155900 Phase I ESA Equipment Yard Facility	Public Works Department	Phase I Environmental Site Assessment	Not available	1997	Kenneth Ingersoll	Prime Contractor	ESA Phase I Report
0156100 OWS Removal	Public Works Department	Oil/Water Separator Removal and Closure Assessment at the City of Coral Gables Maintenance and Storage Facility Incinerator	\$ 39,950	1999	Kenneth Ingersoll	Prime Contractor	OWS Closure Report
0156200 Methane Monitoring	Public Works Department	Installation of Methane Monitoring Well and conduct Methane Monitoring Activities at the City of Coral Gables Storage and Maintenance Facility	\$ 9,170	1998	Kenneth Ingersoll	Prime Contractor	Methane monitoring report
019100-03 H&H -MDC PWD - Coral Gables Canal Bridge	Public Works Department	Sedimentation mapping and analysis	\$ 25,300	2001	Lis Ferrer, PE	Subcontractor	Sedimentation Map
Ten Facilities in Coral Gables	Public Works Department	Develop a Citywide Comprehensive Indoor Air Quality Program for ten facilities	\$ 30,000	1997	Lis Ferrer, PE	Prime Contractor	IAQ Program that reflects a proactive and effective approach will be recommended for implementation by the City
Environmental Engineering Services	Public Works Department	engineering design, construction supervision, development and implementation of proposed plans, sampling and evaluation of analytical data as well as preparation of closure plans for environmental projects	\$ 300,000	1996-2001	Lis Ferrer, PE	Prime Contractor	Several Projects and reports.
Police Benevolent Association Gun Range	Public Works Department	NOVA CONSULTING, INC. conducted contamination assessment and prepared a Contamination Assessment Plan for the Police Benevolent Association Gun Range Facility	\$ 25,000	1997	Lis Ferrer, PE	Prime Contractor	Recommendations include the implementation of housekeeping procedures and establishment of a program to monitor levels of constituents of concern in the soils and groundwater over a period of one year
Coral Gables Fire Station 1, 2 and 3	Public Works Department	Indoor Air Quality (IAQ) audit	Not available	1997	Lis Ferrer, PE	Prime Contractor	Based on audit findings, NOVA CONSULTING, INC. implemented a cost effective and technically feasible approach whose primary objective is that of protecting human health and the environment.
Propane Gas Tank Removal & Replacement	Public Works Department	removal, replacement and proper disposal of an existing 500 gallon propane gas tank	Not available	1996	Lis Ferrer, PE	Prime Contractor	Services included design, permitting, construction supervision, contractor procurement and final completion certification

2) Coral Gables Contracts

3) Discontinued Use Of Proposer's Services

3) Provide a list with contact information of public sector clients, if any, that have discontinued use of Proposer's services within the past two (2) years and indicate the reasons for the same. The City reserves the right to contact any reference as part of the evaluation process. **Nova has NONE.**

4) Civil, Criminal, Administrative, Other Similar Proceedings

4) Please identify each incident within the last five (5) years where (a) a civil, criminal, administrative, other similar proceeding was filed or is pending, if such proceeding arises from or is a dispute concerning the Proposer's rights, remedies or duties under a contract for the same or similar type services to be provided under this RFQ (See Affidavit D). **Nova has NONE**

PROFESSIONAL SERVICES AGREEMENT # RFQ 2019-015F

Civil and Environmental Engineering Services

**EXHIBIT D
INSURANCE CERTIFICATES**



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

7/19/2019

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 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 Fenner & Esler Agency, Inc 467 Kinderkamack Road P. O. Box 60 Oradell NJ 07649-0060	CONTACT NAME: Timothy Esler	
	PHONE (A/C, No, Ext): (201) 262-1200 FAX (A/C, No): (201) 262-7810 E-MAIL ADDRESS: certs@fenner-esler.com	
INSURED NOVA Consulting, Inc. 10486 N.W. 31st Terrace Miami FL 33172	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A: RLI Insurance Company	13056
	INSURER B: Continental Casualty Company	20443
	INSURER C:	
	INSURER D:	
	INSURER E:	
	INSURER F:	

COVERAGES

CERTIFICATE NUMBER: Master 19-20 PL 18-19

REVISION NUMBER:

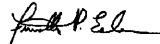
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> Includes Contractual & XCU Coverage GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:	X	Y	PSB0005892 Includes Coverage Within 50' of RR	6/1/2019	6/1/2020	EACH OCCURRENCE \$ 2,000,000
	DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000						
	MED EXP (Any one person) \$ 10,000						
	PERSONAL & ADV INJURY \$ 2,000,000						
							GENERAL AGGREGATE \$ 4,000,000
							PRODUCTS - COMP/OP AGG \$ 4,000,000
							\$
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS	X	Y	PSA0002132	6/1/2019	6/1/2020	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
	BODILY INJURY (Per person) \$						
	BODILY INJURY (Per accident) \$						
	PROPERTY DAMAGE (Per accident) \$						
	PIP-Property damage liability - Limit \$						
A	<input type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$	X	Y	PSE0002598	6/1/2019	6/1/2020	EACH OCCURRENCE \$ 4,000,000
	AGGREGATE \$ 4,000,000						
	\$						
	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				PER STATUTE OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
B	Professional/Pollution Incident Liability			EEH591905988	12/18/2018	12/18/2019	Per Claim/Aggregate Limit \$3M/\$3M Per Claim Deductible \$5K

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

(REQ) No. 2019-015 . Additional Insured - City of Coral Gables as respects general , auto and excess liability where required by written contract. General , auto and excess Liability Additional Insured is primary and non-contributory where required by written contract. Waiver of Subrogation applies as respects general, auto and excess liability where required by written contract. Should any of the above described policies be cancelled before the expiration date thereof, the issuing insurer will mail 30 days written notice to the certificate holder named, but failure to do so shall impose no obligation or liability of any kind upon the insurer, its agents or representatives.

CERTIFICATE HOLDER**CANCELLATION**

City of Coral Gables INSURANCE COMPLIANCE P. O. BOX 100085 - CE DULUTH, GA 30096	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 Timothy Esler/JEAN 

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THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

RLIPack[®] BUSINESS AUTO ENHANCEMENT

SCHEDULE OF COVERAGES ADDRESSED BY THIS ENDORSEMENT

- A. Broad Form Named Insured**
- B. Employees As Insureds**
- C. Blanket Additional Insured**
- D. Blanket Waiver Of Subrogation**
- E. Employee Hired Autos**
- F. Fellow Employee Coverage**
- G. Auto Loan Lease Gap Coverage**
- H. Glass Repair – Waiver Of Deductible**
- I. Personal Effects Coverage**
- J. Hired Auto Physical Damage Coverage**
- K. Hired Auto Physical Damage – Loss Of Use**
- L. Hired Car – Worldwide Coverage**
- M. Temporary Transportation Expenses**
- N. Amended Bodily Injury Definition – Mental Anguish**
- O. Airbag Coverage**
- P. Amended Insured Contract Definition – Railroad Easement**
- Q. Coverage Extensions – Audio, Visual And Data Electronic Equipment Not Designed Solely For The Production Of Sound**
- R. Notice Of And Knowledge Of Occurrence**
- S. Unintentional Errors Or Omissions**
- T. Towing Coverage**

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM

A. Broad Form Named Insured

The following is added to the **SECTION II – LIABILITY Coverage**, Paragraph **A.1. Who Is An Insured** Provision:

Any business entity newly acquired or formed by you during the policy period, provided you own fifty percent (50%) or more of the business entity and the business entity is not separately insured for Business Auto Coverage. Coverage is extended up to a maximum of one hundred eighty (180) days following the acquisition or formation of the business entity.

This provision does not apply to any person or organization for which coverage is excluded by endorsement.

B. Employees As Insureds

The following is added to the **SECTION II – LIABILITY COVERAGE**, Paragraph **A.1. Who Is An Insured** Provision:

Any “employee” of yours is an “insured” while using a covered “auto” you don’t own, hire or borrow in your business or your personal affairs.

C. Blanket Additional Insured

The following is added to the **SECTION II – LIABILITY COVERAGE**, Paragraph **A.1. Who Is An Insured** Provision:

Any person or organization that you are required to include as an additional insured on this coverage form in a contract or agreement that is executed by you before the “bodily injury” or “property damage” occurs is an “insured” for liability coverage, but only for damages to which this insurance applies and only to the extent that person or organization qualifies as an “insured” under the Who Is An Insured provision contained in **SECTION II – LIABILITY COVERAGE**.

The insurance provided to the additional insured will be on a primary and non-contributory basis to the additional insured’s own business auto coverage if you are required to do so in a contract or agreement that is executed by you before the “bodily injury” or “property damage” occurs.

D. Blanket Waiver Of Subrogation

The following is added to the **SECTION IV – BUSINESS AUTO CONDITIONS, A. Loss Conditions, 5. Transfer Of Rights Of Recovery Against Others To Us**:

We waive any right of recovery we may have against any person or organization to the extent required of you by a contract executed prior to any “accident” or

“loss”, provided that the “accident” or “loss” arises out of the operations contemplated by such contract. The waiver applies only to the person or organization designated in such contract.

E. Employee Hired Autos

1. The following is added to the **SECTION II – LIABILITY COVERAGE**, Paragraph **A.1. Who Is An Insured** Provision:

An “employee” of yours is an “insured” while operating an “auto” hired or rented under a contract or agreement in that “employee’s” name, with your permission, while performing duties related to the conduct of your business.

2. Changes In General Conditions:

Paragraph **5.b.** of the **Other Insurance** Condition in the **BUSINESS AUTO CONDITIONS** is deleted and replaced with the following:

b. For Hired Auto Physical Damage Coverage, the following are deemed to be covered “autos” you own:

(1) Any covered “auto” you lease, hire, rent or borrow; and

(2) Any covered “auto” hired or rented by your “employee” under a contract in that individual “employee’s” name, with your permission, while performing duties related to the conduct of your business. However, any “auto” that is leased, hired, rented or borrowed with a driver is not a covered “auto”.

F. Fellow Employee Coverage

SECTION II – LIABILITY COVERAGE, Exclusion B.5. does not apply if you have workers compensation insurance in-force covering all of your employees.

G. Auto Loan Lease Gap Coverage

SECTION III – PHYSICAL DAMAGE COVERAGE, C. Limit Of Insurance, is amended by the addition of the following:

In the event of a total “loss” to a covered “auto” shown in the Schedule of Declarations, we will pay any unpaid amount due on the lease or loan for a covered “auto”, less:

1. The amount paid under the **PHYSICAL DAMAGE COVERAGE** section of the policy; and

2. Any:

a. Overdue lease/loan payments at the time of the “loss”;

- b. Financial penalties imposed under a lease for excessive use, abnormal wear and tear or high mileage.
- c. Security deposits not returned by the lessor;
- d. Costs for extended warranties, Credit Life Insurance, Health, Accident or Disability Insurance purchased with the loan or lease; and
- e. Carry-over balances from previous loans or leases.

H. Glass Repair – Waiver Of Deductible

SECTION III – PHYSICAL DAMAGE COVERAGE,

D. Deductible is amended by adding the following:

No deductible for a covered “auto” will apply to glass damage if the glass is repaired rather than replaced.

I. Personal Effects Coverage

The following is added to **SECTION III – PHYSICAL DAMAGE COVERAGE, A. Coverage, 4. Coverage Extensions:**

c. Personal Effects Coverage

In the event of a total theft loss of your covered “auto” we will pay up to \$400 for “loss” to wearing apparel and other personal effects which are:

- (1) Owned by an “insured”; and
- (2) In or on your covered “auto”;

No deductible applies to Personal Effects Coverage.

J. Hired Auto Physical Damage Coverage

The following is added to **SECTION III – PHYSICAL DAMAGE COVERAGE, A. Coverage, 4. Coverage Extensions:**

d. Hired Auto Physical Damage Coverage

If hired “autos” are covered “autos” for Liability Coverage and this policy also provides Physical Damage Coverage for an owned “auto”, then the Physical Damage Coverage is extended to “autos” that you hire, rent or borrow subject to the following:

- (1) The most we will pay for “loss” in any one “accident” to a hired, rented or borrowed “auto” is the lesser of:
 - (a) \$60,000
 - (b) The actual cash value of the damaged or stolen property as of the time of the “loss”; or
 - (c) The cost of repairing or replacing the damaged or stolen property with other property of like kind and quality.

- (2) An adjustment for depreciation and physical condition will be made in the event of a total “loss”.
- (3) If a repair or replacement results in better than like kind or quality, we will not pay for the betterment.
- (4) A deductible equal to the highest Physical Damage deductible applicable to any owned auto will apply.
- (5) This Coverage Extension will not apply to:
 - (a) Any “auto” that is hired, rented or borrowed with a driver; or
 - (b) Any “auto” that is hired, rented or borrowed from your “employee”.

K. Hired Auto Physical Damage – Loss Of Use

The following is added to **SECTION II – LIABILITY COVERAGE, A.2. Coverage Extensions:**

- e. We will pay sums which you legally must pay to the lessor of a covered “auto” which you have leased without a driver for thirty (30) days or less for the lessor’s loss of use of the covered “auto”, provided:
 - (1) This insurance provides comprehensive, specified causes of loss or collision covered on the covered “auto”;
 - (2) The loss of use results from the covered “auto” being damaged in an “accident” while you are leasing it.

We will pay up to a maximum limit of \$1,500 for this covered extension.

L. Hired Car – Worldwide Coverage

The following is added to **SECTION II – LIABILITY COVERAGE, A.2. Coverage Extensions:**

f. Hired Car – Worldwide Coverage

- (1) We will pay all sums an “insured” legally must pay as damages because of “bodily injury” or “property damage” to which this insurance applies, caused by an “accident” which occurs outside of the United States of America, the territories and possessions of the United States of America, Puerto Rico and Canada resulting from the maintenance, or use of any covered “auto” of the private passenger type you lease, hire, rent or borrow without a driver for thirty (30) days or less.
- (2) With respect to any claim made or “suit” instituted outside the United States of America, the territories and possessions of the United States of America, Puerto Rico, and Canada:

- (a) You shall undertake the investigation, settlement and defense of such claims and “suits” and keep us advised of all proceedings and actions.
- (b) You will not make any settlement without our consent.
- (c) We will reimburse you:
 - (i) For the amount of damages because of liability imposed upon you by law on account of “bodily injury” or “property damage” to which this insurance applies, and
 - (ii) For all reasonable expenses incurred with our consent in connection with the investigation, settlement or defense of such claims or “suits”. Reimbursement for expenses will be part of the Limit of Insurance for liability coverage shown in the Business Auto Coverage Declarations, and not in addition to such limits.
- (3) The limit of Insurance for Liability Coverage shown in the Business Auto Coverage Declarations is the most we will reimburse you for the sum of all damages imposed on you, as set forth in paragraph 2.c. above, and all expenses incurred by you arising out of any single “accident” or “loss”.
- (4) You must maintain the greater of the following primary auto liability insurance limits:
 - (a) Compulsory admitted insurance with limits required to be in force to satisfy the legal requirements of the jurisdiction where the accident occurs; or
 - (b) Insurance limits required by law and issued by a government entity or by an insurer licensed or permitted by law to do business in the jurisdiction where the “accident” occurs; or
 - (c) Auto liability insurance limits of at least \$300,000 combined single limit or \$100,000 per person/\$300,000 per accident Bodily Injury, \$100,000 Property Damage.

If you fail to comply with the above, this insurance is not invalidated. However, in the event of a “loss”, we will pay only to the extent that we would have been liable had you so complied.
- (5) The insurance provided by this coverage extension is excess over any other collectible insurance available to you whether on a primary, excess contingent or any other basis.

M. Temporary Transportation Expenses

SECTION III – PHYSICAL DAMAGE COVERAGE, A.4. Coverage Extensions, subparagraph a. **Transportation Expenses** is deleted and replaced by the following:

a. Transportation Expenses

- (1) We will pay up to a maximum of \$1,500 for temporary transportation expense incurred by you because of Physical Damage to a covered “auto”.
- (2) We will pay only for those covered “autos” for which you carry Comprehensive, Collision or Specified Case of Loss Coverage.
- (3) We will pay only for those expenses incurred by you during the period of time that begins twenty-four (24) hours after the covered “loss” and ends at the time when the covered “auto” can be reasonably repaired or replaced.
- (4) This coverage does not apply while there are spare or reserve “autos” available to you for your operations.

N. Amended Bodily Injury Definition – Mental Anguish

The following is added to **SECTION V – DEFINITIONS, Definition C.:**

“Bodily injury” also includes mental anguish, but only when the mental anguish arises from other bodily injury, sickness or disease.

O. Airbag Coverage

The following is added to **SECTION III – PHYSICAL DAMAGE COVERAGE B. Exclusions 3.a.:**

However, this exclusion will not apply to accidental discharge of an airbag due to mechanical or electrical breakdown.

P. Amended Insured Contract Definition – Railroad Easement

SECTION V – DEFINITIONS paragraph H. “Insured contact” is modified as follows:

- 1. Paragraph H.3. is replaced by the following:
 - 3. Any easement or license agreement.
- 2. Paragraph H.6.a. is deleted.

Q. Coverage Extensions – Audio, Visual And Data Electronic Equipment Not Designed Solely For The Production Of Sound

SECTION III – PHYSICAL DAMAGE COVERAGE B. Exclusions, exception paragraph a. to exclusion 4.c. and 4.d. is deleted and replaced with the following:

- a. Equipment and accessories used with such equipment, except for tapes, records, discs or other electronic media device, provided such equipment is permanently installed in the covered "auto" at the time of the "loss" or is removable from the housing unit which is permanently installed in the covered "auto" at the time of the "loss", and such equipment is designed to be solely operated by use of the power from the "autos" electrical system, in or upon the covered "autos"; or

R. Notice Of And Knowledge Of Occurrence

SECTION IV – BUSINESS AUTO CONDITIONS, A.2. Duties In The Event Of Accident, Claim Suit Or Loss, subparagraph a. is deleted and replaced with the following:

- a. In the event of "accident", claim, "suit" or "loss", you must give us or our authorized representative prompt notice of the "accident" or "loss" including:
 - (1) How, when and where the "accident" or "loss" occurred;
 - (2) The "insured's" name and address; and
 - (3) To the extent possible, the names and addresses of any injured person and witnesses.

Your duty to give us or our authorized representative prompt notice of the "accident" or "loss" applies only when the "accident" or "loss" is known to:

- (1) You, if you are an individual;
- (2) A partner if you are a partnership; or

- (3) An executive officer or insurance manager, if you are a corporation.

S. Unintentional Errors Or Omissions

SECTION IV – BUSINESS AUTO CONDITIONS, B. General Conditions; 2. Concealment Misrepresentation Or Fraud is amended by adding the following:

The unintentional omission of, or unintentional error in, any information given by you shall not prejudice your rights under this insurance. However this provision does not affect our right to collect additional premium or exercise our right of cancellation or nonrenewal.

T. Towing Coverage

SECTION III – PHYSICAL DAMAGE COVERAGE, A.2. Towing, is deleted and replaced by the following:

- 2. We will pay up to \$750 for towing and labor costs incurred each time a covered "auto" is disabled due to a covered cause of loss. However:
 - a. All labor must be performed at the place of disablement; and
 - b. If the covered auto is a private passenger type no deductible applies; and
 - c. If the covered auto is not of the private passenger type our obligation to pay will be reduced by a \$250 deductible per disablement.

ALL OTHER TERMS AND CONDITIONS OF THIS POLICY REMAIN UNCHANGED.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

RLIPack[®] FOR PROFESSIONALS BLANKET ADDITIONAL INSURED ENDORSEMENT

This endorsement modifies insurance provided under the following:

BUSINESSOWNERS COVERAGE FORM - SECTION II – LIABILITY

1. **C. WHO IS AN INSURED** is amended to include as an additional insured any person or organization that you agree in a contract or agreement requiring insurance to include as an additional insured on this policy, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused in whole or in part by you or those acting on your behalf:
 - a. In the performance of your ongoing operations;
 - b. In connection with premises owned by or rented to you; or
 - c. In connection with "your work" and included within the "product-completed operations hazard".
2. The insurance provided to the additional insured by this endorsement is limited as follows:
 - a. This insurance does not apply on any basis to any person or organization for which coverage as an additional insured specifically is added by another endorsement to this policy.
 - b. This insurance does not apply to the rendering of or failure to render any "professional services".
 - c. This endorsement does not increase any of the limits of insurance stated in **D. Liability And Medical Expenses Limits of Insurance**.
3. The following is added to **SECTION III H.2. Other Insurance – COMMON POLICY CONDITIONS (BUT APPLICABLE ONLY TO SECTION II – LIABILITY)**

However, if you specifically agree in a contract or agreement that the insurance provided to an

additional insured under this policy must apply on a primary basis, or a primary and non-contributory basis, this insurance is primary to other insurance that is available to such additional insured which covers such additional insured as a named insured, and we will not share with that other insurance, provided that:

- a. The "bodily injury" or "property damage" for which coverage is sought occurs after you have entered into that contract or agreement; or
 - b. The "personal and advertising injury" for which coverage is sought arises out of an offense committed after you have entered into that contract or agreement.
4. The following is added to **SECTION III K. 2. Transfer of Rights of Recovery Against Others to Us – COMMON POLICY CONDITIONS (BUT APPLICABLE TO ONLY TO SECTION II – LIABILITY)**

We waive any rights of recovery we may have against any person or organization because of payments we make for "bodily injury", "property damage" or "personal and advertising injury" arising out of "your work" performed by you, or on your behalf, under a contract or agreement with that person or organization. We waive these rights only where you have agreed to do so as part of a contract or agreement with such person or organization entered into by you before the "bodily injury" or "property damage" occurs, or the "personal and advertising injury" offense is committed.

ALL OTHER TERMS AND CONDITIONS OF THIS POLICY REMAIN UNCHANGED.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

RLIPack[®] FOR PROFESSIONALS SCHEDULED ADDITIONAL INSURED ENDORSEMENT

This endorsement modifies insurance provided under the following:

BUSINESSOWNERS COVERAGE FORM – SECTION II – LIABILITY

Schedule

Name of Person(s) or Organization(s):

City of Coral Gables

1. **SECTION II C. Who Is An Insured** is amended to include as an additional insured the person or organization shown in the schedule above, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused in whole or in part by you or those acting on your behalf:
 - a. In the performance of your ongoing operations;
 - b. In connection with premises owned by or rented to you; or
 - c. In connection with "your work" and included within the "product-completed operations hazard".
2. The insurance provided to the additional insured by this endorsement is limited as follows:
 - a. This insurance does not apply to the rendering of or failure to render any "professional services".
 - b. This endorsement does not increase any of the limits of insurance stated in **D. Liability And Medical Expenses Limits of Insurance**.
3. The following is added to **SECTION III H.2. Other Insurance – COMMON POLICY CONDITIONS (BUT APPLICABLE ONLY TO SECTION II – LIABILITY)**

However, if you specifically agree in a contract or agreement that the insurance provided to an additional insured under this policy must apply on a
- primary basis, or a primary and non-contributory basis, this insurance is primary to other insurance that is available to such additional insured which covers such additional insured as a named insured, and we will not share with that other insurance, provided that:
 - a. The "bodily injury" or "property damage" for which coverage is sought occurs after you have entered into that contract or agreement; or
 - b. The "personal and advertising injury" for which coverage is sought arises out of an offense committed after you have entered into that contract or agreement.
4. The following is added to **SECTION III K.2 Transfer of Rights of Recovery Against Others to Us – COMMON POLICY CONDITIONS (BUT APPLICABLE TO SECTION I – PROPERTY AND SECTION II – LIABILITY)**

We waive any rights of recovery we may have against any person or organization because of payments we make for "bodily injury", "property damage" or "personal and advertising injury" arising out of "your work" performed by you, or on your behalf, under a contract or agreement with that person or organization. We waive these rights only where you have agreed to do so as part of a contract or agreement with such person or organization entered into by you before the "bodily injury" or "property damage" occurs, or the "personal and advertising injury" offense is committed.

ALL OTHER TERMS AND CONDITIONS OF THIS POLICY REMAIN UNCHANGED.



THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**WAIVER OF OUR RIGHT TO RECOVER
FROM OTHERS ENDORSEMENT**

Policy Number: 83 WEC AB6QQQ **Endorsement Number:**
Effective Date: 07/06/19 **Effective hour is the same as stated on the Information Page of the policy.**
Named Insured and Address: NOVA CONSULTING & ENGINEERING LLC
555 8TH AVE RM 1903
NEW YORK NY 10018

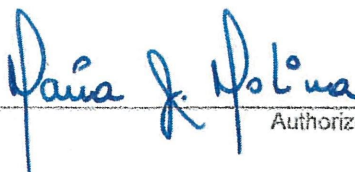
We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule.

This agreement shall not operate directly or indirectly to benefit anyone not named in the Schedule.

SCHEDULE

Any person or organization from whom you are required by contract or agreement to obtain this waiver from us. Endorsement is not applicable in KY, NH, NJ or for any MO construction risk

Countersigned by



Authorized Representative

PROFESSIONAL SERVICES AGREEMENT # RFQ 2019-015F

Civil and Environmental Engineering Services

**EXHIBIT E
APPENDICES A AND E**

APPENDICES A and E

During the performance of this contract, the contractor, for itself, its assignees and successors in interest (hereinafter referred to as the "Contractor") agrees as follows:

- (1) **Compliance with Regulations:** The Contractor shall comply with the Regulations relative to nondiscrimination in Federally-assisted programs of the U.S. Department of Transportation (hereinafter, "USDOT") Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this Agreement.
- (2) **Nondiscrimination:** The Contractor, with regard to the work performed during the contract, shall not discriminate on the basis of race, color, national origin, sex, age, disability, religion or family status in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The Contractor shall not participate either directly or indirectly in the discrimination prohibited by section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.
- (3) **Solicitations for Subcontractors, including Procurements of Materials and Equipment:** In all solicitations made by the Contractor, either by competitive bidding or negotiation for work to be performed under a subcontract, including procurements of materials or leases of equipment; each potential subcontractor or supplier shall be notified by the Contractor of the Contractor's obligations under this contract and the Regulations relative to nondiscrimination on the basis of race, color, national origin, sex, age, disability, religion or family status.
- (4) **Information and Reports:** The Contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the *Florida Department of Transportation, the Federal Highway Administration, Federal Transit Administration, Federal Aviation Administration, and/or the Federal Motor Carrier Safety Administration* to be pertinent to ascertain compliance with such Regulations, orders and instructions. Where any information required of a Contractor is in the exclusive possession of another who fails or refuses to furnish this information the Contractor shall so certify to the *Florida Department of Transportation, the Federal Highway Administration, Federal Transit Administration, Federal Aviation Administration, and/or the Federal Motor Carrier Safety Administration* as appropriate, and shall set forth what efforts it has made to obtain the information.
- (5) **Sanctions for Noncompliance:** In the event of the Contractor's noncompliance with the nondiscrimination provisions of this contract, the *Florida Department of Transportation* shall impose such contract sanctions as it or the *Federal Highway Administration, Federal Transit Administration, Federal Aviation Administration, and/or the Federal Motor Carrier Safety Administration* may determine to be appropriate, including, but not limited to:

- a withholding of payments to the Contractor under the contract until the Contractor complies, and/or
- b cancellation, termination or suspension of the contract, in whole or in part.

(6) **Incorporation of Provisions:** The Contractor shall include the provisions of paragraphs (1) through (7) in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The Contractor shall take such action with respect to any subcontract or procurement as the *Florida Department of Transportation, the Federal Highway Administration, Federal Transit Administration, Federal Aviation Administration, and/or the Federal Motor Carrier Safety Administration* may direct as a means of enforcing such provisions including sanctions for noncompliance. In the event a Contractor becomes involved in, or is threatened with, litigation with a sub-contractor or supplier as a result of such direction, the Contractor may request the *Florida Department of Transportation* to enter into such litigation to protect the interests of the *Florida Department of Transportation*, and, in addition, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

(7) **Compliance with Nondiscrimination Statutes and Authorities:** Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d et seq., 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21; The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects); Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 et seq.), (prohibits discrimination on the basis of sex); Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 et seq.), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27; The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 et seq.), (prohibits discrimination on the basis of age); Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex); The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms “programs or activities” to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not); Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 -- 12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38; The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex); Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income

populations; Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100); Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq).