AGREEMENT

Between

City of Fort Lauderdale

and

Lakdas/Yohalem Engineering, Inc.

for

Structural Engineering Consulting Services

AGREEMENT

THIS IS AN AGREEMENT made and entered into this 19th day of August 2014, by and between:

CITY OF FORT LAUDERDALE, a Florida municipality, (hereinafter referred to as "CITY")

and

Lakdas/Yohalem Engineering, Inc., a Florida Corporation (hereinafter referred to as "CONSULTANT").

WHEREAS, the City Commission of the City of Fort Lauderdale, Florida at its meeting of August 19, 2014 authorized by motion the execution of this Agreement between CONSULTANT and CITY authorizing the performance of Structural Engineering Services, RFQ No.946-11366 (the "Agreement") ;and

WHEREAS, the CONSULTANT is willing and able to render professional services for such project for the compensation and on the terms hereinafter set forth;

NOW, THEREFORE, in consideration of the mutual covenants, agreements, terms, and conditions contained herein, the parties hereto, do agree as follows:

ARTICLE 1
DEFINITIONS AND IDENTIFICATIONS

For the purposes of this Agreement and the various covenants, conditions, terms and provisions which follow, the DEFINITIONS and IDENTIFICATIONS set forth below are assumed to be true and correct and are therefore agreed upon by the parties.

1.1 AGREEMENT: Means this document between the CITY and CONSULTANT dated August 19, 2014 and any duly authorized and executed Amendments to Agreement.

1.2 CERTIFICATE FOR PAYMENT: A statement by CONSULTANT based on observations at the site and on review of documentation submitted by the Contractor that by its issuance recommends that CITY pay identified amounts to the Contractor for services performed by the Contractor at the Project.

1.3 CHANGE ORDER: A written order to the CONSULTANT approved by the CITY authorizing a revision of this agreement between the CITY and the CONSULTANT that is directly related to the original scope of work or an adjustment in the original contract price or the contract time directly related to the original scope of work, issued on or after the effective date of this Agreement.

The CONSULTANT may review and make recommendations to the CITY on any proposed Change Orders, for approval or other appropriate action by the CITY.

1.4 CITY: The City of Fort Lauderdale, a Florida municipality.

1.5 CITY MANAGER: The City Manager of the City of Fort Lauderdale, Florida.

1.6 COMMISSION: The City Commission of the City of Fort Lauderdale, Florida, which is the governing body of the CITY government.

1.7 CONSTRUCTION COST: The total construction cost to CITY of all elements of the Project designed or specified by the CONSULTANT.

1.8 CONSTRUCTION COST LIMIT: A maximum construction cost limit established by the CITY defining the maximum budget amount to which the final construction documents should be designed so as not to exceed.

1.9 CONSTRUCTION DOCUMENTS: Those working drawings and specifications and other writings setting forth in detail and prescribing the work to be done, the materials, workmanship and other requirements for construction of the entire Project, including any bidding information.

1.10 CONSULTANT: Lakdas/Yohalem Engineering, Inc., the CONSULTANT selected to perform professional services pursuant to this Agreement.

1.11 CONTRACT ADMINISTRATOR: The Public Works Director of the City of Fort Lauderdale, or his designee. In the administration of this Agreement, as contrasted with matters of policy, all parties may rely upon instructions or determinations made by the Contract Administrator.

1.12 CONTRACTOR: One or more individuals, firms, corporations or other entities identified as such by a written agreement with CITY ("Contract for Construction") to perform the construction services required to complete the Project.

1.13 ERROR: A mistake in design, plans and/or specifications that incorporates into those documents an element that is incorrect and is deficient from the standard of care that a professional engineer in similar circumstances, working on a similar project and location would have exercised. Also includes mistakes in design, plans, specifications and/or shop drawings review that lead to materials and/or equipment being ordered and/or delivered where additional costs are incurred.

1.14 FINAL STATEMENT OF PROBABLE CONSTRUCTION COSTS: A final cost estimate prepared by CONSULTANT during the Final Design Phase of the Project, based upon the final detailed Construction Documents of the Project.

1.15 NOTICE TO PROCEED: A written Notice to Proceed with the Project issued by

the Contract Administrator.

1.16 OMISSION: A scope of work missed by the CONSULTANT that is necessary for the Project, including a quantity miscalculation, which was later discovered and added by Change Order and which is deficient from the standard of care that a professional engineer in similar circumstances, working on a similar project and location would have exercised. Also includes design that was wrong, but was corrected after award to the Contractor, but before the construction process was materially affected.

1.17 ORIGINAL CONTRACT PRICE: The original bid and/or contract price as awarded to a Contractor based upon the CONSULTANT'S final detailed Construction Documents of the Project.

1.18 PLANS AND SPECIFICATIONS: The documents setting forth the final design plans and specifications of the Project, including architectural, civil, structural, mechanical, electrical, communications and security systems, materials, lighting equipment, site and landscape design, and other essentials as may be appropriate, all as approved by CITY as provided in this Agreement.

1.19 PRELIMINARY PLANS: The documents prepared by the CONSULTANT consisting of preliminary design drawings, renderings and other documents to fix and describe the size and character of the entire Project, and the relationship of Project components to one another and existing features.

1.20 PROJECT: An agreed scope of work for accomplishing a specific plan or development. This may include, but is not limited to, planning, architectural, engineering, and construction support services. The services to be provided by the CONSULTANT shall be as defined in this Agreement and further detailed in Task Orders for individual projects or combinations of projects. The Project planning, design and construction may occur in separate phases and Task Orders at the CITY's discretion.

1.21 RESIDENT PROJECT REPRESENTATIVE: Individuals or entities selected, employed, compensated by and directed to perform services on behalf of CITY, in monitoring the Construction Phase of the Project to completion.

1.22 TASK ORDER: A document setting forth a negotiated detailed scope of services to be performed by the CONSULTANT at fixed contract prices in accordance with this Agreement between the CITY and the CONSULTANT.

1.23 TIME OF COMPLETION: Time in which the entire work shall be completed for each Task Order.

ARTICLE 2
PREAMBLE

In order to establish the background, context and frame of reference for this Agreement and to generally express the objectives and intentions of the respective parties hereto, the following statements, representations and explanations shall be accepted as predicates for the undertakings and commitments included within the provisions of this Agreement which follow and may be relied upon by the parties as essential elements of the mutual considerations upon which this Agreement is based.

2.1 Pursuant to Section 287.055, Florida Statutes, CITY has formed a Committee to evaluate the CONSULTANT's statement of qualifications and performance data to ensure that the CONSULTANT has met the requirements of the Consultants' Competitive Negotiation Act, as set forth in Section 287.055, Florida Statutes, and has selected CONSULTANT to perform services hereunder.

ARTICLE 3
SCOPE OF SERVICES

3.1 The CONSULTANT shall perform the following professional services: Structural Engineering Consulting Services as more specifically described in Exhibit "A," Scope of Services, attached hereto and incorporated herein, and shall include, but not be limited to, services as applicable and authorized by individual Task Orders for the individual projects in accordance with Article 5 herein. CONSULTANT shall provide all services set forth in Exhibit "A" including all necessary, incidental and related activities and services required by the Scope of Services and contemplated in CONSULTANT's level of effort.

3.2 CITY and CONSULTANT acknowledge that the Scope of Services does not delineate every detail and minor work tasks required to be performed by CONSULTANT to complete the Project. If, during the course of the performance of the services included in this Agreement, CONSULTANT determines that work should be performed to complete the Project which is in the CONSULTANT's opinion, outside the level of effort originally anticipated, whether or not the Scope of Services identifies the work items, CONSULTANT shall notify Contract Administrator and obtain written approval by the CITY in a timely manner before proceeding with the work. If CONSULTANT proceeds with said work without notifying the Contract Administrator, said work shall be deemed to be within the original level of effort, whether or not specifically addressed in the Scope of Services. Notice to Contract Administrator does not constitute authorization or approval by CITY to perform the work. Performance of work by CONSULTANT outside the originally anticipated level of effort without prior written CITY approval is at CONSULTANT's sole risk.

ARTICLE 4
GENERAL PROVISIONS

4.1 Negotiations pertaining to the professional design, engineering, architectural and project management services to be performed by the CONSULTANT have been undertaken between CONSULTANT and a committee of CITY representatives pursuant to Section 287.055, Florida Statutes, and this Agreement incorporates the results of such negotiation.

4.2 CONSULTANT shall include CITY's specific Task Order number as part of the heading on all correspondence, invoices and drawings. All correspondence shall be directed specifically to the Contract Administrator.

ARTICLE 5
TASK ORDERS

5.1 The Project will be divided into "Tasks."

5.2 Task Orders shall be jointly prepared by the CITY and CONSULTANT defining the detailed scope of services to be provided for the particular Project. Each Task Order shall be separately numbered and approved in accordance with this Agreement and all applicable CITY code requirements.

5.3 Under all Task Orders and Projects, CITY may require the CONSULTANT, by specific written authorization, and for mutually agreed upon additional compensation, to provide or assist in obtaining one or more of the following special services. These services may include, at the discretion of the CITY, the following items:

5.3.1 Providing additional copies of reports, contract drawings and documents; and

5.3.2 Assisting CITY with litigation support services arising from the planning, development, or construction.

5.4 Prior to initiating the performance of any services under this Agreement, CONSULTANT must receive a written Notice to Proceed / Purchase Order from the CITY. The CONSULTANT must receive the approval of the Contract Administrator or his designee in writing prior to beginning the performance of services in any subsequent Task Order under this Agreement.

5.5 If, in the opinion of the CITY, the CONSULTANT is improperly performing the services under a specific Task Order, or if at any time the CITY shall be of the opinion that said Task Order is being unnecessarily delayed and will not be completed within the agreed upon time, the CITY shall notify the CONSULTANT in writing. The CONSULTANT has within ten (10) working days thereafter to take

such measures as will, in the judgment of the CITY, ensure satisfactory performance and completion of the work. If the CONSULTANT fails to cure within the ten (10) working days, the CITY may notify the CONSULTANT to discontinue all work under the specified Task Order. The CONSULTANT shall immediately respect said notice and stop said work and cease to have any rights in the possession of the work and shall forfeit the Task Order and any remaining monies. The CITY may then decide, after City Commission approval, to issue a new Task Order for the uncompleted work to another consultant using the remaining funds. Any excess costs arising therefrom over and above the original Task Order price shall be charged against CONSULTANT, as the original CONSULTANT.

ARTICLE 6
TERM OF AGREEMENT; TIME FOR PERFORMANCE

6.1 The initial term of this Agreement shall be for TWO (2) years from the date of this Agreement. The CITY shall have the option to renew this Agreement for TWO (2) successive one (1) year terms under the same terms, conditions, and compensation as set forth herein.

6.2 CONSULTANT shall perform the services described in Task Orders within the time periods specified in the Task Order. Said time periods shall commence from the date of the Notice to Proceed for such services.

6.3 Prior to beginning the performance of any services under this Agreement, CONSULTANT must receive a Notice to Proceed. CONSULTANT must receive written approval from the Contract Administrator prior to beginning the performance of services in any subsequent phases of the Agreement. Prior to granting approval for CONSULTANT to proceed to a subsequent phase, the Contract Administrator may, at his or her sole option, require CONSULTANT to submit itemized deliverables/documents for the Contract Administrator's review.

6.4 In the event CONSULTANT is unable to complete any services because of delays resulting from untimely review by CITY or other governmental authorities having jurisdiction over the Project, and such delays are not the fault of CONSULTANT, or because of delays which were caused by factors outside the control of CONSULTANT, CITY shall grant a reasonable extension of time for completion of the services. It shall be the responsibility of the CONSULTANT to notify CITY promptly in writing whenever a delay in approval by a governmental agency is anticipated or experienced, and to inform CITY of all facts and details related to the delay.

6.5 The time for the performance of services described in assigned Task Orders shall be negotiated by the CITY and the CONSULTANT as the services are requested and authorized by the CITY.

ARTICLE 7
COMPENSATION AND METHOD OF PAYMENT

7.1 AMOUNT AND METHOD OF COMPENSATION

The method of compensation for each Task Order shall be not to exceed as agreed upon per Task Order and described in Section 7.1.1 below.

7.1.1 Not To Exceed Amount Compensation

CITY agrees to pay CONSULTANT as compensation for performance of all services as related to each Task Order under the terms of this Agreement a Not to Exceed Amount as agreed upon per Task Order. This compensation does not include Reimbursables as described in Section 7.2. It is agreed that the method of compensation is that of "Not to Exceed Amount" which means that CONSULTANT shall perform all services set forth in each Task Order for total compensation in the amount of or less than that stated total. The hourly rate-billing schedule to be used in negotiating each Task Order is attached as Exhibit "B" to this Agreement. As described in Section 8.1, no modification, amendment, or alteration to Exhibit "B" shall be effective unless contained in a written document prepared with the same formality as this Agreement and executed by the CITY and CONSULTANT.

A not to exceed proposal shall be accompanied by the CONSULTANT's estimate. The estimate shall detail the direct labor costs by categories of employees, work hours, and hourly rate; overhead; direct non-salary expenses including reimbursables; and profit, or as required by individual Task Order.

7.2 REIMBURSABLES

7.2.1 Direct non-salary expenses, entitled Reimbursables, directly attributable to the Project will be charged at actual cost. Reimbursable expenses are in addition to the compensation for basic services and include actual expenditures made by the CONSULTANT and the CONSULTANT'S employees directly attributable to the Project and will be charged at actual cost, without reference to the professional service fees above. CITY shall not withhold retainage from payments for Reimbursable Expenses. CONSULTANT shall be compensated for Reimbursables associated with a particular Task Order only up to the amount allocated for such Task Order. Any reimbursable or portion thereof which, when added to the Reimbursables related to a particular Task Order previously billed, exceeds the amount allocated for such Task Order shall be the responsibility of the CONSULTANT unless otherwise agreed to in writing by the Contract Administrator. Travel and subsistence expenses for the CONSULTANT, his staff and subconsultants and communication

expenses, long distance telephone, courier and express mail between CONSULTANT's and subconsultants' various offices are not reimbursable under this Agreement. Reimbursables shall include only the following listed expenses unless authorized in writing by the Contract Administrator:

A. Cost of reproduction, postage and handling of drawings and specifications which are required to deliver services set forth in this Agreement, excluding reproductions for the office use of the CONSULTANT. Reimbursable printing and photocopying expenses shall include only those prints or photocopies of original documents which are (i) exchanged among CONSULTANT, CITY and other third parties retained or employed by any of them or (ii) submitted to CITY for review, approval or further distribution. Documents, which are reproduced for CONSULTANT's internal drafts, reviews, or other purposes, are not eligible for reimbursement.

B. Identifiable testing costs approved by Contract Administrator.

C. All permit fees paid to regulatory agencies for approvals directly attributable to the Project. These permit fees do not include those permits required for the construction Contractor.

D. Overnight Delivery/Courier Charges (when CITY requires/requests this service).

7.2.2 Reimbursable subconsultant expenses are limited to the items described above when the subconsultant agreement provides for reimbursable expenses. A detailed statement of expenses must accompany any request for reimbursement. Local travel to and from the Project site or within the Tri-County Area will not be reimbursed.

7.2.3 It is acknowledged and agreed to by CONSULTANT that the dollar limitation set forth in each Task Order is a limitation upon, and describes the maximum extent of CITY's obligation to reimburse CONSULTANT for direct, nonsalary expenses, but does not constitute a limitation, of any sort, upon CONSULTANT's obligation to incur such expenses in the performance of services hereunder. If CITY or Contract Administrator requests CONSULTANT to incur expenses not contemplated in the amount for Reimbursables, CONSULTANT shall notify Contract Administrator in writing before incurring such expenses. Any such expenses shall be reviewed and approved by CITY prior to incurring such expenses.

7.3 METHOD OF BILLING

7.3.1 Not To Exceed Amount Compensation

CONSULTANT shall submit billings, which are identified by the specific

project number on a monthly basis in a timely manner for all salary costs and Reimbursables attributable to the Project. These billings shall identify the nature of the work performed for each phase, subtask, deliverable and item identified in the Exhibit "A" Scope of Services or Task Order, the total hours of work performed and the employee category of the individuals performing same. The statement shall show a summary of salary costs with accrual of the total and credits for portions paid previously. Subconsultant fees must be documented by copies of invoices or receipts, which describe the nature of the expenses and contain a project number or other identifier, which clearly indicates the expense, as identifiable to the Project. Except for meals and travel expenses, it shall be deemed unacceptable for the CONSULTANT to modify the invoice or receipt by adding a project number or other identifier. Internal expenses must be documented by appropriate CONSULTANT's cost accounting forms with a summary of charges by category. When requested, CONSULTANT shall provide backup for past and current invoices that records hours and salary costs by employee category and subconsultant fees on a task basis, so that total hours and costs by task may be determined.

7.4 METHOD OF PAYMENT

7.4.1 CITY shall pay CONSULTANT in accordance with the Florida Prompt Payment Act. To be deemed proper, all invoices must comply with the requirements set forth in this Agreement and must be submitted on the form and pursuant to instructions prescribed by Contract Administrator.

7.4.2 CITY will review CONSULTANT's invoices and, if inaccuracies or errors are discovered in said invoice, CITY will inform CONSULTANT within ten (10) working days by fax and/or by email of such inaccuracies or errors and request that revised copies of all such documents be re-submitted by CONSULTANT to CITY.

7.4.3 Payment are scheduled to be made by CITY to CONSULTANT using a CITY Procurement Card (P-Card).

ARTICLE 8
AMENDMENTS AND CHANGES IN SCOPE OF SERVICES

8.1 No modification, amendment or alteration in the terms or conditions contained herein shall be effective unless contained in a written Amendment prepared with the same formality as this Agreement and executed by the CITY and CONSULTANT.

8.2 CITY or CONSULTANT may request changes that would increase, decrease, or otherwise modify the Scope of Services to be provided under a Task Order. Such changes must be contained in a written amendment, executed by the parties hereto, with the same formality and of equal dignity herewith, prior to any

deviation from the terms of the Task Order including the initiation of any additional services. CITY shall compensate CONSULTANT for such additional services as provided in Article 7.

8.3 In the event a dispute between the Contract Administrator and CONSULTANT arises over whether requested services constitute additional services and such dispute cannot be resolved by the Contract Administrator and CONSULTANT, such dispute shall be promptly presented to the City Manager for resolution. The City Manager's decision shall be final and binding on the parties for amounts in the aggregate under $100,000 per project. In the event of a dispute in an amount over $100,000, the parties agree to use their best efforts to settle such dispute. To this effect, they shall consult and negotiate with each other, in good faith and, recognizing their mutual interests, attempt to reach a just and equitable solution satisfactory to both parties. If they do not reach such solution within a period of sixty (60) days, then upon notice to the other, either party may commence litigation to resolve the dispute in Broward County, Florida. Any resolution in favor of CONSULTANT shall be set forth in a written document in accordance with Section 8.2 above. During the pendency of any dispute, CONSULTANT shall promptly perform the disputed services.

ARTICLE 9
CONSULTANT'S RESPONSIBILITIES

9.1 The CONSULTANT, following the CITY's approval of the Construction Documents and of the Final Statement of Probable Construction Costs, shall, when so directed and authorized by the CITY, assist the CITY in obtaining bids or negotiated proposals and assist in awarding and preparing contracts for construction. If requested, the CONSULTANT shall review and analyze the proposals received by the CITY, and shall make a recommendation for any award based on CITY's Purchasing Ordinance.

9.2 Should the lowest responsible, responsive proposal exceed the Final Statement of Probable Construction Costs by less than 10%, CONSULTANT, at no additional cost to the CITY, shall meet with the CITY's representatives and work to reduce costs to bring the Original Contract Price within the Final Statement of Probable Construction Costs. Should the lowest responsible, responsive proposal exceed the Final Statement of Probable Construction Costs by 10% or more, CONSULTANT shall, at the CITY's direction, redesign each Project and/or work with the CITY to reduce the costs to within the Final Statement of Probable Construction Costs at no additional expense to the CITY. If negotiations between the CITY and the CONSULTANT have not commenced within three months after completion of the final design phase, or if industry-wide prices are changed because of unusual or unanticipated events affecting the general level of prices or times of delivery in the construction industry, the established Construction Cost Limit may be adjusted in accordance with the applicable change in the Construction Cost Index for Twenty Cities from the date of completion of the final design phase and the date on which proposals are sought,

as published monthly in "Engineering News Record". If each Project scope and design is expanded by the CITY after the CONSULTANT renders the estimated Construction Cost of the Plans and Specifications, the CONSULTANT shall not be responsible for any redesign without compensation.

9.3 The CONSULTANT shall provide the CITY with a list of recommended, prospective proposers.

9.4 The CONSULTANT shall attend all pre-proposal conferences.

9.5 The CONSULTANT shall recommend any addenda, through the Contract Administrator, as appropriate to clarify, correct, or change proposal documents.

9.6 If pre-qualification of proposers is required as set forth in the request for proposal, CONSULTANT shall assist the CITY, if requested, in developing qualification criteria, review qualifications and recommend acceptance or rejection of the proposers. If requested, CONSULTANT shall evaluate proposals and proposers, and make recommendations regarding any award by the CITY.

9.7 The CITY shall make decisions on all claims regarding interpretation of the Construction Documents, and on all other matters relating to the execution and progress of the work after receiving a recommendation from the CONSULTANT. The CONSULTANT shall check and approve samples, schedules, shop drawings and other submissions for conformance with the concept of each Project, and for compliance with the information given by the Construction Documents. The CONSULTANT may also prepare Change Orders, assemble written guarantees required of the Contractor, and approve progress payments to the Contractor based on each Project Schedule of Values and the percentage of work completed.

9.8 The CITY shall maintain a record of all Change Orders which shall be categorized according to the various types, causes, etc. that it may be determined are useful or necessary for its purpose. Among those shall be Change Orders identified as architectural/engineering Errors or Omissions.

9.8.1 Unless otherwise agreed by both parties in writing, it is specifically agreed that any change to the work identified as an Error on the part of the CONSULTANT shall be considered for purposes of this Agreement to be an additional cost to the CITY which would not be incurred without the Error.

9.8.2 Unless otherwise agreed by both parties in writing, it is further specifically agreed for purposes of this Agreement that fifteen percent (15%) of the cost of Change Orders for any item categorized as an Omission shall be considered an additional cost to the CITY which would not be incurred without the Omission. So long as the total of those two numbers (Change Order costs of Errors plus fifteen percent (15%) of Omissions) remains less than two percent (2%) of the total Construction Cost of the Project,

the CITY shall not look to the CONSULTANT for reimbursement for Errors and Omissions.

9.8.3 Should the sum of the two as defined above (cost of Errors plus fifteen percent (15%) of the cost of Omissions) exceed two percent (2%) of the Construction Cost, the CITY shall recover the full and total additional cost to the CITY as a result of CONSULTANT's Errors and Omissions from the CONSULTANT, that being defined as the cost of Errors plus fifteen percent (15%) of the cost of Omissions above two percent (2%) of the Construction Cost.

9.8.4 To obtain such recovery, the CITY shall deduct from the CONSULTANT's fee a sufficient amount to recover all such additional cost to the CITY.

9.8.5 In executing this Agreement, the CONSULTANT acknowledges acceptance of these calculations and to the CITY's right to recover same as stated above. The recovery of additional costs to the CITY under this paragraph shall not limit or preclude recovery for other separate and/or additional damages which the CITY may otherwise incur.

9.8.6 The Contract Administrator's decision as to whether a Change Order is caused by an Error or caused by an Omission, taking into consideration industry standards, shall be final and binding on both parties for amounts in the aggregate under $100,000 per project. In the event of a dispute in an amount over $100,000, the parties agree to use their best efforts to settle such dispute. To this effect, they shall consult and negotiate with each other, in good faith and, recognizing their mutual interests, attempt to reach a just and equitable solution satisfactory to both parties. If they do not reach such solution within a period of sixty (60) days, then upon notice to the other, either party may commence litigation to resolve the dispute in Broward County, Florida.

ARTICLE 10
CITY'S RESPONSIBILITIES

10.1 CITY shall assist CONSULTANT by placing at CONSULTANT's disposal all information CITY has available pertinent to the Project including previous reports and any other data relative to design or construction of the Project.

10.2 CITY shall arrange for access to, and make all provisions for, CONSULTANT to enter upon public and private property as required for CONSULTANT to perform its services.

10.3 CITY shall review the itemized deliverables/documents identified per Task Order.

10.4 CITY shall give prompt written notice to CONSULTANT whenever CITY observes or otherwise becomes aware of any development that affects the scope or timing of CONSULTANT's services or any defect in the work of the Contractor.

ARTICLE 11
MISCELLANEOUS

11.1 OWNERSHIP OF DOCUMENTS

All documents including, but not limited to, drawings, renderings, models, and specifications prepared or furnished by CONSULTANT, its dependent professional associates and consultants, pursuant to this Agreement shall be owned by the CITY.

Drawings, specifications, designs, models, photographs, reports, surveys and other data prepared in connection with this Agreement are and shall remain the property of the CITY whether the Project for which they are made is executed or not, and are subject to reuse by the CITY in accordance with Section 287.055(10) of the Florida Statutes. They are not intended or represented to be suitable for reuse by the CITY or others on extensions of this Project or on any other project without appropriate verification or adaptation. This does not, however, relieve the CONSULTANT of liability or legal exposure for errors, omissions, or negligent acts made on the part of the CONSULTANT in connection with the proper use of documents prepared under this Agreement. Any such verification or adaptation may entitle the CONSULTANT to further compensation at rates to be agreed upon by the CITY and the CONSULTANT. This shall not limit the CITY's reuse of preliminary or developmental plans or ideas incorporated therein, should the Project be suspended or terminated prior to completion.

11.2 TERMINATION

11.2.1 Termination for Cause. It is expressly understood and agreed that the CITY may terminate this Agreement at any time for cause in the event that the CONSULTANT (1) violates any provisions of this Agreement or performs same in bad faith or (2) unreasonably delays the performance of the Services or does not perform the services in a timely and satisfactory manner, upon written notice to CONSULTANT. Notice of termination shall be provided in accordance with Section 11.27. In the case of termination by the CITY for cause, the CONSULTANT shall be first granted a ten (10) working day cure period after receipt of written notice from the CITY. In the event that the Agreement is terminated, the CONSULTANT shall be entitled to be compensated for the services rendered from the date of execution of the Agreement up to the time of termination. Such compensation shall be based on the fee as set forth above, wherever possible. For those portions of services rendered to which the applicable fee cannot be applied, payment shall be based upon the appropriate rates for the actual time spent on the project. In the event that the CONSULTANT abandons this Agreement or through violation of any of the terms and conditions of this Agreement, causes it to be terminated, CONSULTANT shall indemnify the CITY against any loss pertaining to this termination.

All finished or unfinished documents, data, studies, surveys, drawings, maps, models, photographs and reports prepared by CONSULTANT shall become the property of CITY and shall be delivered by CONSULTANT to the CITY within five (5) days of CITY's request. Upon payment of such sum by CITY to CONSULTANT, CITY shall have no further duties or obligations pursuant to or arising from this Agreement.

11.2.2 This Agreement may also be terminated by CITY upon such notice as CITY deems appropriate in the event CITY or Contract Administrator determines that termination is necessary to protect the public health, safety, or welfare.

11.2.3 Notice of termination shall be provided in accordance with Section 11.27, NOTICES, except that Contract Administrator may provide a prior verbal stop work order if the Contract Administrator deems a stop work order of this Agreement in whole or in part is necessary to protect the public's health, safety, or welfare. A verbal stop work order shall be promptly confirmed in writing as set forth in Section 11.27, NOTICES.

11.2.4 Termination for Convenience. In the event this Agreement is terminated for convenience, CONSULTANT shall be paid for any services performed to the date the Agreement is terminated. Compensation shall be withheld until all documents specified in Section 11.3 of this Agreement are provided to the CITY. Upon being notified of CITY's election to terminate, CONSULTANT shall refrain from performing further services or incurring additional expenses under the terms of this Agreement. Under no circumstances shall CITY make payment for services which have not been performed.

11.2.5 Termination by Consultant. CONSULTANT shall have the right to terminate this Agreement upon substantial breach by the CITY of its obligation under this Agreement such as unreasonable delay in payment or non-payment of undisputed amounts. CONSULTANT shall have no right to terminate this Agreement for convenience of the CONSULTANT.

11.3 AUDIT RIGHT AND RETENTION OF RECORDS

CITY shall have the right to audit the books, records, and accounts of CONSULTANT that are related to this Project. CONSULTANT shall keep such books, records, and accounts as may be necessary in order to record complete and correct entries related to the Project.

CONSULTANT shall preserve and make available, at reasonable times for examination and audit by CITY all financial records, supporting documents, statistical records, and any other documents pertinent to this Agreement for the required retention period of the Florida Public Records Act (Chapter 119, Florida Statutes), if applicable, or, if the Florida Public Records Act is not applicable, for

a minimum of three (3) years after termination of this Agreement. If any audit has been initiated and audit findings have not been resolved at the end of the retention period or three (3) years, whichever is longer, the books, records, and accounts shall be retained until resolution of the audit findings. If the Florida Public Records Act is determined by CITY to be applicable to CONSULTANT's records, CONSULTANT shall comply with all requirements thereof; however, no confidentiality or non-disclosure requirement of either federal or state law shall be violated by CONSULTANT. Any incomplete or incorrect entry in such books, records, and accounts shall be a basis for CITY's disallowance and recovery of any payment upon such entry.

CONSULTANT shall:

(a) Keep and maintain public records that ordinarily and necessarily would be required by the CITY in order to perform the service.

(b) Provide the public with access to public records on the same terms and conditions that the CITY would provide the records and at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes (2013), as may be amended or revised, or as otherwise provided by law.

(c) Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law.

(d) Meet all requirements for retaining public records and transfer, at no cost, to the CITY, all public records in possession of the CONSULTANT upon termination of this contract and destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. All records stored electronically must be provided to the CITY in a format that is compatible with the information technology systems of the CITY.

11.4 NON DISCRIMINATION, EQUAL EMPLOYMENT OPPORTUNITY, AND AMERICANS WITH DISABILITIES ACT

CONSULTANT shall not unlawfully discriminate against any person in its operations and activities in its use or expenditure of the funds or any portion of the funds provided by this Agreement and shall affirmatively comply with all applicable provisions of the Americans with Disabilities Act (ADA) in the course of providing any services funded in whole or in part by CITY, including Titles I and II of the ADA (regarding nondiscrimination or the basis of disability), and all applicable regulations, guidelines, and standards.

CONSULTANT's decisions regarding the delivery of services under this Agreement shall be made without regard to or consideration of race, age, religion, color, gender, sexual orientation, national origin, marital status, physical or mental disability, political affiliation, or any other factor which cannot be lawfully or appropriately used as a basis for service delivery.

CONSULTANT shall comply with Title I of the Americans with Disabilities Act regarding nondiscrimination on the basis of disability in employment and further shall not discriminate against any employee or applicant for employment because of race, age, religion, color, gender, sexual orientation, national origin, marital status, political affiliation, or physical or mental disability. In addition, CONSULTANT shall take affirmative steps to ensure nondiscrimination in employment against disabled persons. Such actions shall include, but not be limited to, the following: employment, upgrading, demotion, transfer, recruitment or recruitment advertising, layoff, termination, rates of pay, other forms of compensation, terms and conditions of employment, training (including apprenticeship), and accessibility.

CONSULTANT shall take affirmative action to ensure that applicants are employed and employees are treated without regard to race, age, religion, color, gender, sexual orientation, national origin, marital status, political affiliation, or physical or mental disability during employment. Such actions shall include, but not be limited to, the following: employment, upgrading, demotion, transfer, recruitment or recruitment advertising, layoff, termination, rates of pay, other forms of compensation, terms and conditions of employment, training (including apprenticeship), and accessibility.

11.5 MINORITY PARTICIPATION

Historically, the CITY has been able to achieve participation levels of approximately twelve percent (12%) by MBE/WBE firms in CITY projects, and in the purchase of goods and services. The CONSULTANT shall make a good faith effort to help the CITY maintain and encourage MBE/WBE participation levels consistent with such historical levels and market conditions. The CONSULTANT will be required to document all such efforts and supply the CITY with this documentation at the end of the Project, or in cases where projects are longer than one year, each CITY fiscal year.

11.6 PUBLIC ENTITY CRIMES ACT

CONSULTANT represents that the execution of this Agreement will not violate the Public Entity Crimes Act (Section 287.133, Florida Statutes), which essentially provides that a person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in s. 287.017 for CATEGORY TWO for a period of 36 months following the date of being placed on the convicted vendor list. Violation of this section shall result in

termination of this Agreement and recovery of all monies paid hereto, and may result in debarment from CITY's competitive procurement activities.

In addition to the foregoing, CONSULTANT further represents that there has been no determination, based on an audit, that it committed an act defined by Section 287.133, Florida Statutes, as a "public entity crime" and that it has not been formally charged with committing an act defined as a "public entity crime" regardless of the amount of money involved or whether CONSULTANT has been placed on the convicted vendor list.

11.7 SUBCONSULTANTS

11.7.1 CONSULTANT may subcontract certain items of work to subconsultant. The parties expressly agree that the CONSULTANT shall submit pertinent information regarding the proposed subconsultant, including subconsultant's scope of work and fees, for review and approval by the CITY prior to sub-consultants proceeding with any work.

11.7.2 CONSULTANT shall utilize the subconsultants identified in the proposal that were a material part of the selection of CONSULTANT to provide the services for this Project. CONSULTANT shall obtain written approval of Contract Administrator prior to changing or modifying the list of subconsultants submitted by CONSULTANT.

The list of subconsultants submitted is as follows:
Calvin, Giordano & Associates, Inc.
Tierra South Florida, Inc.

11.8 ASSIGNMENT AND PERFORMANCE

Neither this Agreement nor any interest herein shall be assigned, transferred, or encumbered without the written consent of the other party, and CONSULTANT shall not subcontract any portion of the work required by this Agreement except as authorized pursuant to Section 11.7.

CONSULTANT represents that all persons delivering the services required by this Agreement have the knowledge and skills, either by training, experience, education, or a combination thereof, to adequately and competently perform the duties, obligations, and services set forth in the Scope of Services and to provide and perform such services to CITY's satisfaction for the agreed compensation.

CONSULTANT shall perform its duties, obligations, and services under this Agreement in a skillful and respectable manner. The quality of CONSULTANT's performance and all interim and final product(s) provided to or on behalf of CITY shall meet or exceed all professional standards of the State of Florida.

11.9 INDEMNIFICATION OF CITY

11.9.1 CONSULTANT shall defend, counsel being subject to CITY's approval, and indemnify and hold harmless CITY, and CITY's officers and employees from any and all claims, liabilities, damages, losses, penalties, fines, judgments, and costs, including, but not limited to, any award of attorneys' fees and any award of litigation costs, in connection with or arising directly or indirectly out of any act or omission by the CONSULTANT or by any officer, employee, agent, invitee, subcontractor, or subconsultant of the CONSULTANT. The provisions of this Section shall survive the expiration or early termination of this Agreement. To the extent considered necessary by Contract Administrator and city attorney, any sums due the CONSULTANT under this Agreement may be retained by CITY until all of CITY's claims for indemnification pursuant to this Agreement have been settled or otherwise resolved, and any amount withheld shall not be subject to payment of interest by CITY.

11.9.2 It is specifically understood and agreed that the consideration inuring to the CONSULTANT for the execution of this Agreement are the promises, payments, covenants, rights and responsibilities contained herein and the award of this Agreement to the CONSULTANT.

11.9.3 The execution of this Agreement by the CONSULTANT shall obligate the CONSULTANT to comply with the foregoing indemnification provision.

11.10 LIMITATION OF CITY'S LIABILITY

The CITY desires to enter into this Agreement only if in so doing the CITY can place a limit on the CITY'S liability for any cause of action arising out of this Agreement, so that the CITY'S liability for any breach never exceeds the sum of $100.00. For other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the CONSULTANT expresses its willingness to enter into this Agreement with the knowledge that the CONSULTANT'S recovery from the CITY to any action or claim arising from the Agreement is limited to a maximum amount of $100.00 less the amount of all funds actually paid by the CITY to the CONSULTANT pursuant to this Agreement. Accordingly, and notwithstanding any other term or condition of this Agreement that may suggest otherwise, the CONSULTANT agrees that the CITY shall not be liable to the CONSULTANT for damages in an amount in excess of $100.00, which amount shall be reduced by the amount actually paid by the CITY to the CONSULTANT pursuant to this Agreement, for any action or claim arising out of this Agreement. Nothing contained in this paragraph or elsewhere in this Agreement is in any manner intended either to be a waiver of the limitation placed upon the CITY'S liability as set forth in Section 768.28, Florida Statutes, or to extend the CITY'S liability beyond the limits established in said Section 768.28; and no claim or award against the CITY shall include attorney's fees, investigative costs, extended damages, expert fees, suit costs or pre-judgment interest. Notwithstanding the foregoing, the parties agree and understand that the

provisions of this Article 11.10 do not apply to monies owed, if any, for services rendered to CONSULTANT by the CITY under the provisions of this Agreement.

11.11 INSURANCE

11.11.1 CONSULTANT shall provide and shall require all of its sub-consultants and sub-contractors to provide, pay for, and maintain in force at all times during the term of the Agreement, such insurance, including Commercial General Liability Insurance, Business Automobile Liability Insurance, Workers' Compensation Insurance, Employer's Liability Insurance, and Professional Liability Insurance, as stated below. Such policy or policies shall be issued by companies authorized to transact business and issue insurance policies in the State of Florida and having agents upon whom service of process may be made in the State of Florida.

A. The Commercial General Liability insurance policy shall name the City of Fort Lauderdale, a Florida municipality, as additional insured. BINDERS ARE UNACCEPTABLE. The insurance coverage required shall include those classifications, as listed in standard liability insurance manuals, which most nearly reflect the operations of the CONSULTANT. Any exclusions or provisions in the insurance maintained by the CONSULTANT that precludes coverage for the work contemplated in this Agreement shall be deemed unacceptable, and shall be considered a breach of contract.

B. The CONSULTANT shall provide the CITY an original Certificate of Insurance for policies required by Article 11. All certificates shall state that the CITY shall be given thirty (30) days notice prior to expiration or cancellation of the policy. The insurance provided shall be endorsed or amended to comply with this notice requirement. In the event that the insurer is unable to accommodate, it shall be the responsibility of the CONSULTANT to provide the proper notice. Such notification will be in writing by registered mail, return receipt requested and addressed to the Finance Department. Such policies shall: (1) name the insurance company or companies affording coverage acceptable to the CITY, (2) state the effective and expiration dates of the policies, (3) include special endorsements where necessary. Such policies provided under Article 11 shall not be affected by any other policy of insurance, which the CITY may carry in its own name.

C. CONSULTANT shall as a condition precedent of this Agreement, furnish to the City of Fort Lauderdale, c/o Project Manager, 100 N. Andrews Avenue, Fort Lauderdale, FL 33301, Certificate(s) of Insurance upon execution of this Agreement, which indicate that insurance coverage has been obtained which meets the requirements as outlined below:

11.11.2 COMMERCIAL GENERAL LIABILITY

A. Limits of Liability:
Bodily Injury and Property Damage - Combined Single Limit

Each Occurrence	$1,000,000
Project Aggregate	$1,000,000
General Aggregate	$2,000,000
Personal Injury	$1,000,000
Products/Completed Operations	$1,000,000

B. Endorsements Required:
City of Fort Lauderdale included as an Additional Insured
Broad Form Contractual Liability
Waiver of Subrogation
Premises/Operations
Products/Completed Operations
Independent Contractors
Owners and Contractors Protective Liability

11.11.3 BUSINESS AUTOMOBILE LIABILITY

A. Limits of Liability:
Bodily Injury and Property Damage - Combined Single Limit
All Autos used in completing the contract
Including Hired, Borrowed or Non-Owned Autos
Any One Accident $1,000,000

B. Endorsements Required:
Waiver of Subrogation

11.11.4 WORKERS' COMPENSATION AND EMPLOYERS' LIABILITY

Limits: Workers' Compensation – Per Florida Statute 440
Employers' Liability - $500,000

Any firm performing work on behalf of the City of Fort Lauderdale must provide Workers' Compensation insurance. Exceptions and exemptions can only be made if they are in accordance with Florida Statute. For additional information contact the Department of Financial Services, Workers' Compensation Division at (850) 413-1601 or on the web at www.fldfs.com.

Consultant must be in compliance with all applicable State and Federal workers' compensation laws, including the U.S. Longshore Harbor Workers' Act or Jones Act.

11.11.5 PROFESSIONAL LIABILITY/ERRORS AND OMISSIONS COVERAGE

Each Claim	$1,000,000
General Aggregate Limit	$2,000,000
Deductible- not to exceed $100,000	

11.11.6 All insurance policies required above shall be issued by companies authorized to transact business and issue insurance policies under the laws of the State of Florida, with the following qualifications:

The Consultant's insurance must be provided by an A.M. Best's "A-" rated or better insurance company authorized to issue insurance policies in the State of Florida, subject to approval by the City's Risk Manager. Any exclusions or provisions in the insurance maintained by the Consultant that precludes coverage for work contemplated in this project shall be deemed unacceptable, and shall be considered breach of contract.

Compliance with the foregoing requirements shall not relieve the CONSULTANT of their liability and obligation under this section or under any other section of this Agreement.

The CONSULTANT shall be responsible for assuring that the insurance certificates required in conjunction with this Section remain in force for the duration of the Project. If insurance certificates are scheduled to expire during the contractual period, the CONSULTANT shall be responsible for submitting new or renewed insurance certificates to the CITY at a minimum of thirty (30) calendar days in advance of such expiration. In the event that expired certificates are not replaced with new or renewed certificates that cover the contractual period, the CITY shall suspend the Agreement until such time as the new or renewed certificates are received by the CITY, or terminate in accordance with Section 11.2.

11.12 <u>REPRESENTATIVE OF CITY AND CONSULTANT</u>

11.12.1 The parties recognize that questions in the day-to-day conduct of the Project will arise. The Contract Administrator, upon CONSULTANT's request, shall advise CONSULTANT in writing of one (1) or more CITY employees to whom all communications pertaining to the day-to-day conduct of the Project shall be addressed.

11.12.2 CONSULTANT shall inform the Contract Administrator in writing of CONSULTANT's representative to whom matters involving the conduct of the Project shall be addressed.

11.13 ALL PRIOR AGREEMENTS SUPERSEDED

This document incorporates and includes all prior negotiations, correspondence, conversations, agreements or understandings applicable to the matters contained herein; and the parties agree that there are no commitments, agreements or understandings concerning the subject matter of this Agreement that are not contained in this document. Accordingly, the parties agree that no deviation from the terms hereof shall be predicated upon any prior representations or agreements whether oral or written.

It is further agreed that no modification, amendment or alteration in the terms or conditions contained herein shall be effective unless contained in a written document executed with the same formality and of equal dignity herewith.

11.14 CONSULTANT'S STAFF

CONSULTANT will provide the key staff identified in their proposal for the Project as long as said key staff are in CONSULTANT's employment.

CONSULTANT will obtain prior written approval of Contract Administrator to change key staff. CONSULTANT shall provide Contract Administrator with such information as necessary to determine the suitability of any proposed new key staff. Contract Administrator will be reasonable in evaluating key staff qualifications.

If Contract Administrator desires to request removal of any of CONSULTANT's staff, Contract Administrator shall first meet with CONSULTANT and provide reasonable justification for said removal.

11.15 INDEPENDENT CONTRACTOR

CONSULTANT is an independent contractor under this Agreement. Services provided by CONSULTANT shall be subject to the supervision of CONSULTANT. In providing the services, CONSULTANT or its agents shall not be acting and shall not be deemed as acting as officers, employees, or agents of the CITY. Personnel policies, tax responsibilities, social security and health insurance, employee benefits, purchasing policies and other similar administrative procedures applicable to services rendered under this Agreement shall be those of CONSULTANT. The parties expressly acknowledge that it is not their intent to create any rights or obligations in any third person or entity under this Agreement.

11.16 THIRD PARTY BENEFICIARIES

Neither CONSULTANT nor CITY intends to directly or substantially benefit a third party by this Agreement. Therefore, the parties agree that there are no third party beneficiaries to this Agreement and that no third party shall be entitled to assert a claim against either of them based upon this Agreement.

11.17 CONFLICTS

Neither CONSULTANT nor its employees shall have or hold any continuing or frequently recurring employment or contractual relationship that is substantially antagonistic or incompatible with CONSULTANT's loyal and conscientious exercise of judgment related to its performance under this Agreement.

CONSULTANT agrees that none of its officers or employees shall, during the term of this Agreement, serve as expert witness against CITY in any legal or administrative proceeding in which he or she is not a party, unless compelled by court process, nor shall such persons give sworn testimony or issue a report or writing, as an expression of his or her expert opinion, which is adverse or prejudicial to the interests of CITY or in connection with any such pending or threatened legal or administrative proceeding. The limitations of this Section shall not preclude such persons from representing themselves in any action or in any administrative or legal proceeding.

In the event CONSULTANT is permitted to utilize subconsultants to perform any services required by this Agreement, CONSULTANT agrees to prohibit such subconsultants, by written contract, from having any conflicts as within the meaning of this Section.

11.18 CONTINGENCY FEE

CONSULTANT warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for CONSULTANT, 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 CONSULTANT, any fee, commission, percentage, gift, or other consideration contingent upon or resulting from the award or making of this Agreement. For a breach or violation of this provision the CITY shall have the right to terminate this Agreement without liability at its discretion, or to deduct from the Agreement price or otherwise recover the full amount of such fee, commission, percentage, gift or consideration.

11.19 WAIVER OF BREACH AND MATERIALITY

Failure by CITY to enforce any provision of this Agreement shall not be deemed a waiver of such provision or modification of this Agreement.

CITY and CONSULTANT agree that each requirement, duty, and obligation set forth herein is substantial and important to the formation of this Agreement and, therefore, is a material term hereof.

11.20 COMPLIANCE WITH LAWS

CONSULTANT shall comply with all federal, state, and local laws, codes,

ordinances, rules, and regulations in performing its duties, responsibilities, and obligations related to this Agreement.

11.21 SEVERANCE

In the event this Agreement or a portion of this Agreement is found by a court of competent jurisdiction to be invalid, the remaining provisions shall continue to be effective unless CITY or CONSULTANT elects to terminate this Agreement. The election to terminate this Agreement based upon this provision shall be made within seven (7) days after the findings by the court become final.

11.22 JOINT PREPARATION

Preparation of this Agreement has been a joint effort of CITY and CONSULTANT and the resulting document shall not, solely as a matter of judicial construction, be construed more severely against one of the parties than any other.

11.23 PRIORITY OF PROVISIONS

If there is a conflict or inconsistency between any term, statement, requirement, or provision of any exhibit attached hereto, any document or events referred to herein, or any document incorporated into this Agreement by reference and a term, statement, requirement, or provision of this Agreement, the term, statement, requirement, or provision contained in Articles 1-11 of this Agreement shall prevail and be given effect.

11.24 APPLICABLE LAW AND VENUE

This Agreement shall be construed in accordance with and governed by the laws of the State of Florida. Venue for any lawsuit by either party against the other party or otherwise arising out of this Agreement and for any other legal proceeding shall be in Broward County, Florida, or in the event of federal jurisdiction, in the Southern District of Florida. BY ENTERING INTO THIS AGREEMENT, CONSULTANT AND CITY EXPRESSLY WAIVE ANY RIGHTS EITHER PARTY MAY HAVE TO TRIAL BY JURY OF ANY CIVIL LITIGATION RELATED TO, OR ARISING OUT OF, THIS AGREEMENT.

11.25 EXHIBITS

Each Exhibit referred to in this Agreement forms an essential part of this Agreement. The Exhibits, if not physically attached, should be treated as part of this Agreement, and are incorporated herein by reference.

11.26 THREE ORIGINAL AGREEMENTS

This Agreement shall be executed in three (3), signed Agreements, with each one treated as an original.

11.27 NOTICES

Whenever either party desires to give notice unto the other, it must be given by written notice, sent by certified United States mail, with return receipt requested, addressed to the party for whom it is intended, at the place last specified, and the place for giving of notice in compliance with the provisions of this paragraph. For the present, the parties designate the following as the respective places for giving of notice, to-wit:

CITY: City Engineer
City of Fort Lauderdale
100 North Andrews Avenue
Fort Lauderdale, FL 33301
Telephone: (954) 828-5772

With a copy to: City Manager
City of Fort Lauderdale
100 North Andrews Avenue
Fort Lauderdale, FL 33301
Telephone: (954) 828-5364

City Attorney
City of Fort Lauderdale
100 North Andrews Avenue
Fort Lauderdale, FL 33301
Telephone: (954) 828-5037

CONSULTANT: Lakdas/Yohalem Engineering, Inc.
2211 N.E. 54th Street
Fort Lauderdale, Florida 33308
Telephone: (954) 771-0630

11.28 ATTORNEY FEES

If CITY or CONSULTANT incurs any expense in enforcing the terms of this Agreement through litigation, the prevailing party in that litigation shall be reimbursed for all such costs and expenses, including but not limited to court costs, and reasonable attorney fees incurred during litigation.

11.29 PERMITS, LICENSES AND TAXES

CONSULTANT shall, at its own expense, obtain all necessary permits and licenses, pay all applicable fees, and pay all applicable sales, consumer, use and other taxes required to comply with local ordinances, state and federal law. CONSULTANT is responsible for reviewing the pertinent state statutes regarding state taxes and for complying with all requirements therein. Any change in tax laws after the execution of this Agreement will be subject to further negotiation

and CONSULTANT shall be responsible for complying with all state tax requirements.

11.30 TRUTH-IN-NEGOTIATION CERTIFICATE

Signature of this Agreement by CONSULTANT shall act as the execution of a Truth-in-Negotiation Certificate stating that wage rates and other factual unit costs supporting the compensation of this Agreement are accurate, complete, and current at the time of contracting. The original contract price and any additions thereto shall be adjusted to exclude any significant sums, by which the CITY determines that contract price was increased due to inaccurate, incomplete, or non-current wage rates and other factual unit costs. All such contract adjustments must be made within 1 year following the end of the contract.

11.31 EVALUATION

The CITY maintains the right to periodically review the performance of the CONSULTANT. This review will take into account the timely execution of Task Orders, the quality of the work performed, the cost to the CITY and the good faith efforts made by the CONSULTANT to maintain MBE/WBE participation in CITY projects. Any deficiencies in performance will be described in writing and an opportunity afforded, where practicable, for the CONSULTANT to address and/or remedy such deficiencies.

11.32 STATUTORY COMPLIANCE

CONSULTANT shall prepare all documents and other materials for the Project in accordance with all applicable rules, laws, ordinances and governmental regulations of the State of Florida, Broward County, the City of Fort Lauderdale, Florida and all governmental agencies having jurisdiction over the services to be provided by CONSULTANT under this Agreement or over any aspect or phase of the Project.

11.33 SCRUTINIZED COMPANIES

Subject to Odebrecht Construction, Inc., v. Prasad, 876 F.Supp.2d 1305 (S.D. Fla. 2012), affirmed, Odebrecht Construction, Inc., v. Secretary, Florida Department of Transportation, 715 F.3d 1268 (11th Cir. 2013), this Section applies to any contract for goods or services of $1 million or more:

The CONSULTANT certifies that it is not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List and that it does not have business operations in Cuba or Syria as provided in section 287.135, Florida Statutes (2013), as may be amended or revised. The CITY may terminate this Contract at the CITY's option if the CONSULTANT is found to have submitted a false certification as provided under subsection (5) of section 287.135, Florida Statutes (2013), as may be

amended or revised, or been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List or has been engaged in business operations in Cuba or Syria, as defined in Section 287.135, Florida Statutes (2013), as may be amended or revised.

IN WITNESS OF THE FOREGOING, the parties have set their hands and seals the day and year first written above.

CITY

CITY OF FORT LAUDERDALE, a municipal corporation of the State of Florida

By _____
LEE R. FELDMAN, City Manager

(CORPORATE SEAL)

ATTEST:

_____
JONDA K. JOSEPH
City Clerk

Approved as to form:

_____
RHONDA MONTOYA HASAN
Assistant City Attorney

CONSULTANT

WITNESSES:

Farshad Gholami

FARSHAD GHOLAMI
(Witness print name)

Luis Beltran

LUIS BELTRAN
(Witness print name)

Lakdas/Yohalem Engineering, Inc.

By
Name: Lakdas Nanayakkara P.E.
Title: President

ATTEST:

By

(CORPORATE SEAL)

STATE OF Florida:
COUNTY OF Broward:

The foregoing instrument was acknowledged before me this 11th day of September, 2014 by Farshad Gholami and Luis Beltran as Witnesses and Lakdas Nanayakkara respectively, of Lakdas Engineering, Inc. They are ☒ personally known to me or ☐ have produced _____ as identification.

(SEAL)

Notary Public State of Florida
Beatriz Almansa
My Commission FF 082749
Expires 01/12/2018

Beatriz Almansa
Notary Public, State of
(Signature of Notary taking Acknowledgment)

Beatriz Almansa
Name of Notary Typed, Printed or Stamped

My Commission Expires:

082749
Commission Number

EXHIBIT "A"

SCOPE OF SERVICES

The CONSULTANT shall perform the following professional services related to a contract for Structural Engineering consultant services and shall include, but not be limited to, the following services as authorized by individual Task Orders for individual projects.

The City of Fort Lauderdale solicited consulting engineering firms to provide Structural Engineering services for various City projects. The City of Fort Lauderdale designs, executes, maintains, and operates a variety of Community Investment Projects (CIP) and infrastructures throughout the City. The projects include but are not limited to, park and recreation facilities, storage buildings, parking garages, maintenance buildings, utility pipelines, underground utilities, water and wastewater treatment plants, marine facilities, seawalls, docks, fire stations, auditoriums, community centers, bridges and roadways, drainage structures and culverts, wind turbines, shade structures and office buildings.

The Consultant shall carry out the responsibilities delineated in each project's scope of services and shall provide such services as needed to successfully complete the project within the time and budget constraints set forth and agreed upon in the various task orders. The Consultant may propose to utilize sub-consultants for technical assistance to develop work if needed.

The Consultant must be properly registered and in compliance with the Secretary of State in Florida in addition to being licensed and registered with the Department of Business and Professional Regulation to practice their profession in the State of Florida.

The Consultant must have a minimum of five years' experience in providing full structural engineering services including but not limited to:

- Structural analysis, design, development and creation of construction documents for municipal projects.
- Perform structural design, analysis, evaluation, and inspection of concrete, steel, metal, timber and masonry structures in accordance with all relevant Building Codes.
- Perform wind loading analysis, design of structures, design and analysis of building envelope based on Main Wind Force Resisting System (MWFRS) and Component and Cladding System (C&C) as per latest editions of Florida Building Code and/or ASCE Minimum Design Loads for Buildings and other Structures.
- Design of foundation systems for various structures including concrete spread footings, wall footings, mat foundation as per the latest edition of the American Concrete Institute (ACI), auger cast piles, steel piles, and precast concrete piles.
- Perform evaluation, analysis and recommendations for soil strengthening and remediation.
- Perform analysis, recommend and design of building hurricane hardening measures.

- Conduct field inspections of deteriorated structural elements and prepare designs and specifications for appropriate repairs and replacements.
- Evaluate and design concrete repairs, identify and propose materials and recommend rehabilitation methods for concrete tanks, liquid containment structures, flow channels, splitter boxes, and manholes at the City's water and wastewater treatment plants.
- Evaluate and design metal repairs, identify and propose materials and recommend rehabilitation methods for water and wastewater tank equipment, such as rotating arms, center columns, handrails and ladders.
- Perform field inspections, evaluation of existing roofing systems, design of roofing systems, including making recommendations for roof repairs.
- Evaluate, recommend and specify protective coating systems for concrete and metal surfaces in industrial applications specifically relating to water and wastewater applications.
- Survey, inspect, analyze and evaluate structural conditions of City owned buildings and structures.
- Perform design and analysis of drainage structures, earth retaining structures, sheet piling walls and box culverts.
- Provide forensic evaluation and analysis of burned facilities including making recommendations for repairs.
- Provide field inspections, supervision and formal approval of construction projects performed by outside contractors.
- Provide "Threshold Inspections" and "Special Inspector Services" per Florida State Statute FS 553.79.
- Provide structural design and analysis services per Florida State Statute FS 471.
- Perform design, analysis, and evaluation of wind turbine structures and communication tower structures per Federal TIA-222- G Standards.
- Provide cost estimates for proposed designs and improvements at various stages (30% complete, 60% complete, 90% complete, and 100% complete) of a project.

EXHIBIT "B"

HOURLY BILLING RATES FOR TASK ORDERS

LAKDAS/YOHALEM ENGINEERING, INC.
FEE SCHEDULE FOR

City of Ft. Lauderdale
Structural Engineering Services

Staff Title	Rate/Hour/Unit
Principal	$198.75
Project Manager	$132.50
Senior Engineer	$138.00
Project Engineer	$117.00
Senior Designer/Technician	$ 86.00
Senior Drafter	$ 86.00
Senior Inspector	$ 88.50
Inspector	$ 83.00
Quality Assurance Person	$117.00
Administrative	$ 57.00

CALVIN, GIORDANO & ASSOCIATES, INC.
FEE SCHEDULE FOR

City of Ft. Lauderdale
Surveying

Staff Title	Rate/Hour/Unit
Associate, Surveying	$165.00
Senior Registered Surveyor	$145.00
Survey Crew	$135.00
Registered Surveyor	$130.00
Survey Coordinator	$105.00
CADD Technician	$ 95.00

3D Laser Scanner	$355.00
Hydrographic Survey Crew	$330.00
G.P.S. Survey Crew	$155.00
Sub-Meter G.P.S.	$ 75.00
Soft Dig (per hole)	$480.00
Utility Locates (per hour)	$205.00

TIERRA SOUTH FLORIDA, INC.
FEE SCHEDULE FOR

City of Ft. Lauderdale
Geotechnical and Material Testing

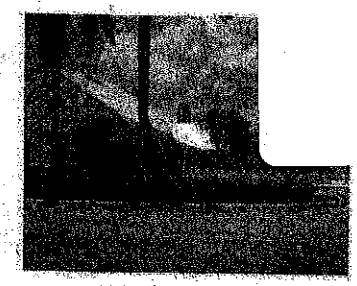
Staff Title	**Rate/Hour/Unit**
Principal	$188.00
Project Manager	$120.00
Senior Engineer	$125.00
Project Engineer	$102.00
Senior Designer/Technician	$ 75.00
CADD	$ 75.00
Senior Drafter	$ 80.00
Senior Inspector	$ 80.00
Inspector	$ 75.00
Quality Assurance Person	$102.00
Administrative	$ 49.00
Pavement Cores, Asphalt	$150.00
Pavement Cores, Concrete	$175.00
Laboratory Testing	
Natural Moisture Content Tests	$ 10.00
Grain-Size Analysis – Full Gradation	$ 65.00

Grain-Size Analysis – Single Sieve	$ 35.00
Organic Content Tests	$ 35.00
Atterberg Limit Tests	$ 75.00
Field CBR	$600.00
Lab CBR	$300.00
LBR	$275.00
Grain-Size with Hydrometer	$115.00
Proctor Test a) Modified	$108.00
b) Standard	$102.00
Bitumen Extraction	$150.00
Bitumen Gradation	$150.00

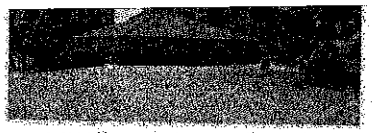
EXHIBIT B

WIND MITIGATION & RE-ROOFING

FIRE STATIONS



CITY COMPLEXES



RECREATIONAL FACILITIES

RESPONSE TO RFQ # 946-11366

A CONTINUING CONTRACT FOR STRUCTURAL ENGINEERING SERVICES

SUBMITTED TO:

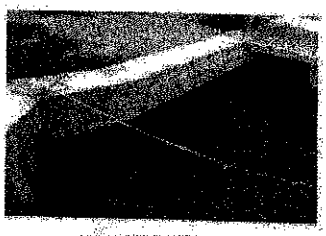
CITY OF FORT LAUDERDALE
PROCUREMENT SERVICES DEPARTMENT
100 N. Andrews Avenue, 6th Floor
Fort Lauderdale, FL 33301

SUBMITTED BY:

LAKDAS/YOHALEM ENGINEERING, INC.
Consulting Engineers
2211 N.E. 54th Street
Fort Lauderdale, Fl. 33308
Office: (954) 771-0630 Fax: (954) 771-0519

STRUCTURAL RESTORATION

BRIDGES



SEAWALLS

MARINAS

February 21, 2014

LAKDAS / YOHALEM ENGINEERING, INC.
Consulting Engineers EB 0005456

Lakdas Nanayakkara
C.Eng., M.I. Str. E.

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2211 N.E. 54th Street, Ft. Lauderdale, Fl 33308 • (954) 771-0630 • Fax (954) 771-0519 •
Email: lye@lyengineering.com

LAKDAS / YOHALEM ENGINEERING, INC.
Consulting Engineers EB 0005458

Lakdas Nanayakkara
C Eng., M.I. Str. E.

February 21, 2014

City of Fort Lauderdale
Procurement Services Division
Ronald Archey, Procurement Specialist
100 N. Andrews Avenue, 6th Floor
Fort Lauderdale, Fl. 33301

Ft. Lauderdale, City parking Garage

RE: RFQ # 946-11366 – A Continuing Contract for Structural Engineering Services

Dear Mr. Archey,
Lakdas/Yohalem Engineering, Inc. is pleased to present this Request for Letter of Interest to offer our structural engineering services to the City of Fort Lauderdale.

Lakdas/Yohalem Engineering, Inc has been practicing structural, marine, and bridge engineering services for many state, county and city agencies in support of high visible and miscellaneous public projects, for the last 44 years in Fort Lauderdale Florida. We have performed similar structural engineering services for various public entities such as:

Services:

A. New and Renovation of Building Structures: Fire Stations, Community Centers, Libraries, Police Stations, Public Works Maintenance Facilities, and Operational Complexes.
B. Park Facilities such as Meeting Rooms, Picnic Shelters, Restroom Facilities, Corporate Picnic Pavilions, Beach Lifeguard and Rescue Facilities.
C. Marinas, Seawalls and Fishing Piers
D. Highway and Pedestrian Bridges, Culvert structures
E. 40 Year Certification of existing facilities
F. Re-roofing, Condition Survey and Design for New Roof Systems
G. Threshold and Special Inspection services for building and special structures during construction
H. Structural Condition Surveys of building structures prior to city acquiring
I. Condition Survey and Renovations of Existing Utility Structures
J. Value Engineering and Constructability Reviews of Projects Designed by other Consultants
K. Wind Mitigation of existing building facilities
L. Hurricane hardening of existing facilities
M. C.R.A., residential buildings to comply building code requirement

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Email: lye@lyengineering.com

LAKDAS / YOHALEM ENGINEERING, INC.
Consulting Engineers EB 0005468

Lakdas Nanayakkara
C.Eng., M.I. Str. E.

Entities:

- City of Fort Lauderdale
- City of Hollywood
- City of Tamarac
- Four Dept. of Broward County
- City of Lauderhill
- City of Pompano Beach

Lakdas/Yohalem Engineering, Inc. (L.Y.E) is a **certified masonry and threshold inspection engineering firm**. Additionally, we have three professional engineers, three graduate engineers, four certified threshold inspectors, and two AutoCAD operators, in order to effectively handle the conditions surveying, design, and construction phase engineering services, for this contract.

L.Y.E is a Minority Business certified by Broward County School Board and by the State of Florida and CBE firm by Broward County.

Our office and team members Tierra of South Florida, Inc office's are situated less than 7 miles from the City Complex in the City of Fort Lauderdale. LYE has up to date state of the art software with B.I.M. (Revitt and Auto Cad) system to provide efficient and detail oriented engineering services, with well experienced technical staff of who are professional engineers as well as with general contractors back ground with extensive experience in South Florida with in-depth knowledge of Florida building code with Broward County requirement.

L.Y.E has performed similar requested structural engineering services in the past for the City of Fort Lauderdale.

We will assure you that Lakdas/Yohalem Engineering, Inc.'s Team will provide you with a good standard of structural, and marine engineering services for the City of Fort Lauderdale, within the established budget, and in a timely manner.

Sincerely,

Lakdas Nanayakkara P.E.
#37590

2211 N.E. 54th Street, Ft. Lauderdale, Fl 33308 • (954) 771-0630 • Fax (954) 771-0519 •
Email: lye@lyengineering.com

BID/PROPOSAL SIGNATURE PAGE

How to submit bids/proposals: Proposals must be submitted by hard copy only. It will be the sole responsibility of the Bidder to ensure that the bid reaches the City of Fort Lauderdale, City Hall, Procurement Services Division, Suite 619, 100 N. Andrews Avenue, Fort Lauderdale, FL 33301, prior to the bid opening date and time listed. Bids/proposals submitted by fax or email will NOT be accepted.

The below signed hereby agrees to furnish the following article(s) or services at the price(s) and terms stated subject to all instructions, conditions, specifications addenda, legal advertisement, and conditions contained in the bid. I have read all attachments including the specifications and fully understand what is required. By submitting this signed proposal I will accept a contract if approved by the CITY and such acceptance covers all terms, conditions, and specifications of this bid/proposal.

Please Note: All fields below **must** be completed. If the field does not apply to you, please note N/A in that field.

Submitted by: _____ (signature) 2-21-14 (date)

Name (printed): Lakdas Nanayakkara Title: President

Company: (Legal Registration) Lakdas/Yohalem Engineering, Inc.

CONTRACTOR, IF FOREIGN CORPORATION, MAY BE REQUIRED TO OBTAIN A CERTIFICATE OF AUTHORITY FROM THE DEPARTMENT OF STATE, IN ACCORDANCE WITH FLORIDA STATUTE §607.1501 (visit http://www.dos.state.fl.us/).

Address: 2211 NE 54th Street

City Fort Lauderdale State: FL Zip 33308

Telephone No. 954-771-0630 FAX No. 954-771-0519 Email: lye@lyengineering.com

Delivery: Calendar days after receipt of Purchase Order (section 1.02 of General Conditions): _____

Payment Terms (section 1.04): _____ Total Bid Discount (section 1.05): _____

Does your firm qualify for MBE or WBE status (section 1.09): MBE ✓ WBE _____

ADDENDUM ACKNOWLEDGEMENT - Proposer acknowledges that the following addenda have been received and are included in the proposal:

Addendum No. Date Issued

VARIANCES: State any variations to specifications, terms and conditions in the space provided below or reference in the space provided below all variances contained on other pages of bid, attachments or bid pages. No variations or exceptions by the Proposer will be deemed to be part of the bid submitted unless such variation or exception is listed and contained within the bid documents and referenced in the space provided below. If no statement is contained in the below space, it is hereby implied that your bid/proposal complies with the full scope of this solicitation. HAVE YOU STATED ANY VARIANCES OR EXCEPTIONS BELOW? BIDDER MUST CLICK THE EXCEPTION LINK IF ANY VARIATION OR EXCEPTION IS TAKEN TO THE SPECIFICATIONS, TERMS AND CONDITIONS. If this section does not apply to your bid, simply mark N/A in the section below.

Variances:

LAKDAS / YOHALEM ENGINEERING, INC.
Consulting Engineers EB 0005458

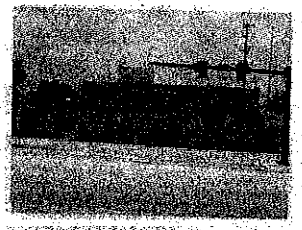
Lakdas Nanayakkara
C Eng., M.I. Str. E.

STRUCTURAL ENGINEERING DESIGN & THRESHOLD INSPECTION EXPERIENCE

LIST OF MUNICIPAL COMPLEXES
PERFORMED BY: LAKDAS/YOHALEM ENGINEERING, INC.

- City of Tamarac
- City of Boynton Beach
- City of Aventura
- City of Lighthouse Point
- City of Lauderhill
- Lauderhill Municipal Complex
- Aventura Municipal Complex
- Tamarac Municipal Complex
- Boynton Beach Municipal Complex
- Lighthouse Point Municipal Complex
- 1 University Drive Municipal Complex, Plantation
- Broward County Courthouse, Broward County

LIST OF POLICE/FIRE STATIONS
PERFORMED BY: LAKDAS/YOHALEM ENGINEERING, INC.



- Lauderdale Lakes Fire Station 43rd Avenue
- Lauderdale Lakes Fire Station #37
- Fire Station #71 - Coral Springs
- Pompano Beach Fire Station #2
- Fire Station #47 - City of Fort Lauderdale
- Ramblewood Fire Station #64
- Fire Station # 5 - City of Plantation
- Fire Station #26 - Port Everglades
- Fire Station #110 City of Lauderhill
- Fire Station # City of Boynton Beach
- Police Station, City of Lauderhill
- Police Station Improvements, City of Fort Lauderdale
- Fire Station # 4, City of Tamarac

LIST OF SOLID WASTE/WATER TREATMENT PROJECTS
PERFORMED BY: LAKDAS/YOHALEM ENGINEERING, INC.

- Solid Waste Authority West Palm Beach - Compost Facility A
- Solid Waste Authority West Palm Beach - Compost Facility B
- Solid Waste Authority West Palm Beach Resource Recovery Plant
- Solid Waste Authority West Palm Beach - Lantana Transfer Station Renovation
- Solid Waste Authority West Palm Beach - Belle Glades Transfer Station
- Ferrous Processing Trading - Miami
- Ferrous Processing Trading Plant Expansion
- Mississippi Aircraft Recycle Plant
- Victorville Aircraft Recycle Plant - California
- Sun Recycle Plant - Pompano Beach
- US Foundry - Miami
- Motorola Plant - Plantation
- Dade County Solid Waste Authority Renovation and Restoration - Medley
- South Florida Recycling Facility - Pompano Beach
- Water Treatment Plant, City of Hollywood
- Water Treatment Plant, City of Pompano

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Email: lye@lyengineering.com

LAKDAS / YOHALEM ENGINEERING, INC.
Consulting Engineers EB 0005458

Lakdas Nanayakkara
C Eng., M.I. Str. E.

LIST OF LIBRARIES
PERFORMED BY: LAKDAS/YOHALEM ENGINEERING, INC.

- Broward County Main Library 7th Floor Learning Lab
- African American Library - Broward County
- Sunset Strip Neighborhood Library
- Lighthouse Point Library
- Lauderdale Lakes Library
- City of Boynton Beach Library
- Palm Beach Community Library
    1. Lake Worth
    2. PGA Blvd.
- Broward Community Library
- Davie Campus
- Coconut Creek Campus

LIST OF EMERGENCY GENERATOR PROJECTS
PERFORMED BY: LAKDAS/YOHALEM ENGINEERING, INC.

- FDOT District 4 Complex, Fort Lauderdale
- City of Hollywood Water Treatment Plant (Two Facilities)
- City of Lauderhill Water Treatment Plant (Two Facilities)
- City of Lauderdale Lakes
- Broward County Port Everglades (Four Facilities)
- Over Twenty Condominium Facilities
- Broward General Hospital (Three Facilities)
- Over Fifty Residential Facilities
- Plantation Mall Facility
- Over Forty Commercial Facilities
- Motorola Facility, Plantation Florida

LIST OF PARKS
PERFORMED BY: LAKDAS/YOHALEM ENGINEERING, INC.

- Blvd. Heights Community Center - West Sports Park
- Athalie Range Park
- Frost Park Restroom Renovation
- Veteran's Park - City of Lauderhill
- Boat & Dock Ramp - City of Margate (Veteran's Park)
- Renovations to Fishing Pier at Hillsboro, City of Pompano Beach
- Air Park, City of Pompano Beach
- Long Key Nature Center
- Westgate Park
- Vistaview Park Expansion
- Lauderhill Park
- Hillsboro Inlet Park, City of Pompano Beach
- Riverland Park
- Community Park Playground, City of Pompano Beach
- Plantation Central Park
- Pet Park in Aventura
- Pompano Beach Safety Faculty
- Quiet Waters Picnic Shelter

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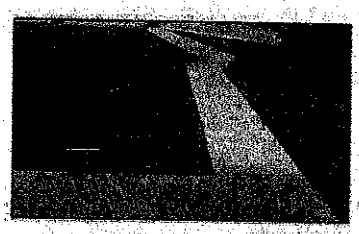
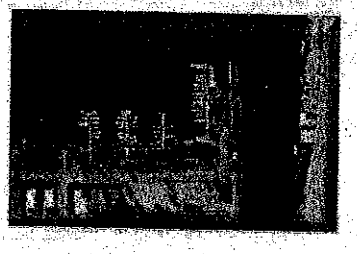
Email: lye@lyengineering.com

LIST OF MARINA PROJECTS
PERFORMED BY: LAKDAS/YOHALEM ENGINEERING, INC.

- Southport Headwall
- Seawall Study in Aventura
- Dock Support at Warwick Condo
- Yacht Club Seawall Repair
- Boat and Dock Ramp at City of Margate
- Bulkhead Cladding at Port Everglades
- Seawall at Odabashian Residence
- Hollywood Marina Piers – B,C,D
- Sundance Marina
- The Boathouse of Fort Lauderdale
- Cable Marina (New Marina)
- Shea Seawall
- Seawall at City of Lauderhill
- Convention Center Seawall Review
- Seawall at North Miami River





LIST OF AIRPORT PROJECTS
PERFORMED BY: LAKDAS/YOHALEM ENGINEERING, INC.

- Fort Lauderdale Airport Threshold Inspection Services General Engineering Services Ongoing Bases
- Fort Lauderdale Airport (Baggage Screening Building Expansion)
- Fort Lauderdale Airport Chiller Support: Terminal 2
- Fort Lauderdale Airport Chiller Support: Terminal 3
- Fort Lauderdale Airport Chiller Support: Terminal 4
- Throat Expansion Concourse: Concourse "F"
- Throat Expansion Concourse: Concourse "G"
- Throat Expansion Concourse: Concourse "H"
- Maintenance Building: Design & Threshold Inspection Services
- New Infield Hibiscus Parking Garage: Value Engineering Study Constructability Review Threshold Inspections Cargo Handling Building: Threshold Inspection

Lakdas/Yohalem Engineering, Inc. has been incorporated since November 9, 1987 and has been located at the same location for the past 24 years. Our company information is as follows:

Lakdas/Yohalem Engineering, Inc.
2211 N.W 54th Street
Fort Lauderdale, Florida 33308
Phone: 954-771-0630
Fax: 954-771-0519
Email: lye@lyengineering.com
Prime Contact: Lakdas Nanayakkara, P.E.

ARCHITECT – ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION (City and State)
RFQ- A Continuing Contract for Structural Engineering Services

2. PUBLIC NOTICE DATE
2/10/2014

3. SOLICITATION OR PROJECT NUMBER
RFQ # 946-11366

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE
Lakdas Nanayakkara - President

5. NAME OF FIRM
Lakdas/Yohalem Engineering, Inc.

6. TELEPHONE NUMBER
954-771-0630

7. FAX NUMBER
954-771-0519

8. E-MAIL ADDRESS
lye@lyengineering.com

C. PROPOSED TEAM

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

	(Check) PRIME	JOINT VENTURE PARTNER	SUBCONTRACTOR	9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
a.	√			Lakdas/Yohalem Engineering, Inc. ☐ CHECK IF BRANCH OFFICE	2211 NE 54th Street Fort Lauderdale, Fl. 33308	Prime Consultants Structural Engineering
b.			√	Tierra of South Florida ☐ CHECK IF BRANCH OFFICE	2209B NE 54th Street Fort Lauderdale, Fl. 33308	Geotechnical and Testing Services
c.				☐ CHECK IF BRANCH OFFICE		
d.				☐ CHECK IF BRANCH OFFICE		
e.				☐ CHECK IF BRANCH OFFICE		
f.				☐ CHECK IF BRANCH OFFICE		

D. ORGANIZATIONAL CHART OF PROPOSED TEAM

√ (Attached)

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE a. TOTAL	b. WITH CURRENT FIRM
Lakdas Nanayakkara, P.E.	Project Manager	35	25

15. FIRM NAME AND LOCATION *(City and State)*
Lakdas/Yohalem Engineering, Inc.

16. EDUCATION *(DEGREE AND SPECIALIZATION)*
Post Graduate Diploma in Structural Engineering
Bachelor of Science Honors Degree in Civil Engineering
With Structural Engineer Major

17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Structural/Civil Engineer Florida #037590
Certified Structural Masonry Inspector
Certified Uniform Building Code Inspector
Certified General Contractor Certified Threshold Inspector

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Structural Engineering Expert for Unsafe Structure Board – City of Margate since " 2001".

19. RELEVANT PROJECTS

a.
(1) TITLE AND LOCATION *(City and State)*
Fire Station #71, Coral Springs
Coral Springs, Florida

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2008
CONSTRUCTION (If applicable): N/A

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

Description: Renovation and addition to existing Fire Station
Size: Project Site Size= 6500 Sq. Ft.
Cost of Project: $ 1.2 Million Dollars
Scope of Work: Civil and Structural Engineering, Engineer of Record

b.
(1) TITLE AND LOCATION *(City and State)*
Lauderdale Lakes Library – City of Lauderdale Lakes, FL

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2008
CONSTRUCTION (If applicable): N/A

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

Description: The existing city library at the city complex to be converted into an office facility for the use of the city's building and risk management departments.
Cost: $75,000 .
Scope: Structural renovation and hurricane hardening of the existing library

c.
(1) TITLE AND LOCATION *(City and State)*
56th Avenue Public Safety Training / Public Safety Building,
Hollywood Fl.

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2009
CONSTRUCTION (If applicable): N/A

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

Description: New Public Safety Complex. (Maintenance/ Fire Training) fire station and beach rescue facility.
Size: 19,000 sq. ft.
Cost of Project: 11,000,000.00
Scope of Work: Value construction building review services. Special inspection services. Trouble shooting and construction phase engineering services. Final certification of the project.

d.
(1) TITLE AND LOCATION *(City and State)*
West Wind Park Community Center - City of Lauderhill
Lauderhill, Florida

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2010
CONSTRUCTION (If applicable): N/A

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

Description: Park Community Center Renovation and Addition
Size: Project Site Size = 2500 sq. ft.
Cost: $ 4,000.00
Scope : Structural, Civil, Electrical & Mechanical Engineering

e.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
FP&L Bridge Canal - Eller Drive, Port Everglades, FL	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2006	N/A

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

Description: Design new bridge over the FP&L. Canal at Eller Drive, Port Everglades with the least disruption to the floor of the cooling tower water discharge canal. Also considered additional heavy load for usage of large mobile crane and port cargo.

Bridge was built with FDOT type III beams with 10inch thick concrete slab with durability. Special consideration was given to low maintenance. Construction was programmed such that during bridge construction least distraction to the manatees and nearby manatee nest.

Cost: $4.5million

Scope: Design new bridge with 6 lanes to accommodate all port traffic including mobile cranes.

f.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
City of Pompano Beach Pier- Pompano Beach, FL	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2004	2007

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

Description: The existing pier in Pompano Beach was built with pre-cast concrete driven piles poured in place, concrete bent beams and pre-stress concrete deck slab span between bends leaving 3'-0 wide wood deck between pre-stress concrete deck.

Size: The 684' long 14' wide pier had been repaired a number of times. Lakdas/Yohalem Engineering, Inc. provided engineering services for the restaurant addition, new observation tower addition and major restoration work in 1989.

Cost: $2 million

Scope: Structural evaluation of the existing pier, preparation of construction documents, design and construction observation. Compiled a structural survey of the pier and complete life cycle cost analysis for restoration against replacement. A structural survey was completed in 2000 and a 2nd phase of construction document preparation was completed in 2001. Restoration work was successfully completed in 2002.

g.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Hollywood Marina Docks B, C and D Repairs, Hollywood FL	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2010	N/A

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

Description: Structural Engineering & Inspection Services

Cost: $380,000.

Scope:

- Structural condition survey of existing Marina
- Life cycle cost and replacement study
- Prepare construction documents for replacement of existing Marina
- Obtain necessary Army Corp & D.N.R.P permit
- Construct observation during construction

h.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Port Everglades Bulkhead Wall Broward County, Florida	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2005	N/A

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

Description: Structural Engineering & Inspection Services

Size: Five and a half mile long steel sheet pile bulkhead wall

Cost: 7 million

Scope: Performed structural condition survey, preliminary design and construction observation

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Repair & Replacement of existing roofing system of 11 buildings at Port Everglades, Fort Lauderdale, Florida	2009	N/A

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

i.

Project:

Repair and replacement of existing roofing system of 11 buildings at Port Everglades.

Description:

Soon after hurricane Wilma in October 2005, Broward County requested Lakdas/Yohalem Engineering to evaluate the extent of the damage and roof soundness of each building and make recommendations for each building, total of 11 buildings. Establish a construction budget for replacement and repair of each roof. Resulting in roof replacement of a total of 11 buildings. Several roofing systems were considered. The final was a built-up roofing system with torch-down system, since each building is in operation during the entire construction period.

Cost: $6,700,000.

Scope: Prime consultant design of the entire project and provide full time inspection services during roof replacement of each building.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Condition Survey at Bank Atlantic Building, Lauderhill FL	2010	N/A

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

j.

Description: Structural Condition Survey

Size: 5 story, 37,000ft.

Cost: $100,000

Scope of Work: 40 Year Certification along with structural condition survey and cost estimate of corrective work.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE a. TOTAL	b. WITH CURRENT FIRM
Zuahir Jalloul	Project Engineer	33	16

15. FIRM NAME AND LOCATION (City and State)
Lakdas/Yohalem Engineering, Inc.

16. EDUCATION (DEGREE AND SPECIALIZATION)
B.S. Civil Engineering
University of Tennessee, 1977

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
State of Florida #35416

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
American Society of Civil Engineers

19. RELEVANT PROJECTS

a.
(1) TITLE AND LOCATION (City and State): Suncoast High School – Riviera Beach, Florida
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2009 — CONSTRUCTION (If applicable): N/A
☐ Check if project performed with current firm
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE
Description: 345,000 sq. ft. High School Facility with auditorium.
3 story classroom buildings, total of 9 buildings
Cost: $81, Million Dollars
Scope of Work: Structural Engineer if Record Design and Consultant Administration Services

b.
(1) TITLE AND LOCATION (City and State): West Wind Park Community Center - City of Lauderhill
Lauderhill, Florida
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2010 — CONSTRUCTION (If applicable): N/A
☐ Check if project performed with current firm
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE
Description: Park Community Center Renovation and Addition
Size: Project Site Size = 2500 sq. ft.
Cost: $ 4,000.00
Scope of Work: Structural, Civil, Electrical & Mechanical Engineering

c.
(1) TITLE AND LOCATION (City and State): Vista View Park Expansion
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2009 — CONSTRUCTION (If applicable): N/A
☐ Check if project performed with current firm
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE
Description: New Park Facility including building such as restrooms, security building and marina
Size: Project Site Size = 4 buildings ,12,000 sq.ft., Fishing Pier with dock
Cost: $ 7.5 million dollars
Scope of Work: structural Engineer of record. Pump station design and Inspection Services

d.
(1) TITLE AND LOCATION (City and State): City of Lauderhill - New Municipal Complex Lauderhill, FL
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2008 — CONSTRUCTION (If applicable): N/A
☐ Check if project performed with current firm
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE
Description: When complete, this 4-story municipal office building will be the first LEED Silver City Hall in all of Broward, Dade, and Palm Beach counties. The new municipal complex is being constructed in the heart of the City's business district and will provide workspace environments for the offices of the Mayor, Commissioners and City Manager departments. In addition, it will include a 150-seat Commission Chamber with a pre-function area, which will be open to the community and civic events.
Size: Project Site Size = 166,153 S.F.; Building Size = 43,605 S.F.
Cost: Site/Foundation/Shell Package = $5,056,638.00; New Municipal Complex = $8,148,691.00
Scope of Work: Schematic Design / Construction Documents Cost Estimating

e.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Fire Station #71, Coral Springs Coral Springs, Florida	2008	N/A

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

Description: Renovation and addition to existing Fire Station
Size: Project Site Size= 6500 Sq. Ft.
Cost of Project: $ 1.2 Million Dollars
Scope of Work: Civil and Structural Engineering , Engineer of Record

f.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Ramblewood Fire Station #64	2008	N/A

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

Description: Renovation and addition to existing Fire Station
Size: Project Site Size= 6500 Sq. Ft.
Cost of Project: $ 1.2 Million Dollars
Scope of Work: Civil and Structural Engineering , Engineer of Record

g.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Solid Waste Authority (SWA) Compost Facility "A" West Palm Beach, Florida	2005	N/A

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

Description: Three buildings 4500 sq.ft. each structural restoration and renovation to meet current Florida building code requirements.
Cost: $ 6.5 Million Dollars
Scope of Work: Prime Consultant and Structural Engineer of record

h.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Ferros Process & Trading (F.P.T. Recycling Facility) Miami, Florida	2008	N/A

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

Description: Replace existing fire damage recycling plant with a new
Size: Project Site = FPT Facility Miami: 3700 NW North River Rd
Cost: 7.4 Million Dollars
Scope of Work: Civil And Structural Engineer of Record Design and Inspection Services

i.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Veterans Park Community Center- City of Lauderhill Lauderhill, Florida	2006	N/A

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

Description: Renovation and Re-Roofing of the Parks Community Center
Cost $ 750,000.
Scope of Work: Structural Engineering Design and Inspection Services

j.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Aventura Municipal Complex - Aventura, Florida	1998	N/A

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

Description: 75,000 sq. ft. 6 story new city complex
Cost: $ 11.5 Million Dollars
Scope of Work: Structural Engineering of record design and threshold inspection 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 (City and State)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Fire Station #71, Coral Springs Coral Springs, Florida	2008	N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
CPZ Architects	Chris Zimmerman	(954) 792-8525

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost.)

Description: Renovation and addition to existing Fire Station

Size: Project Site Size 6500 Sq. Ft.

Cost of Project: $ 1.2 Million Dollars

Scope of Work: Civil and Structural Engineering, Engineer of Record

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Lakdas/Yohalem Engineering, Inc.	Fort Lauderdale, Florida	Civil and Structural Engineer of record and Threshold Inspector
b.			
c.			
d.			
e.			
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 (City and State)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Lauderdale Lakes Library – City of Lauderdale Lakes	2008	N/A

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Lauderdale Lakes	Mr. Robin Soodeen	(954) 535-2758

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost.)*

Description: The existing city library at the city complex to be converted into an office facility for the use of the city's building and risk management departments.

Cost: $75,000 .

Scope: Structural renovation and hurricane hardening of the existing library

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Lakdas/Yohalem Engineering, Inc.	Fort Lauderdale, Florida	Structural Engineer
b.			
c.			
d.			
e.			
f.			

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 (City and State)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
56th Avenue Public Safety Training / Public Safety Building, Hollywood Fl.	2009	N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Hollywood	Mr. Moshe Anuar	(954) 921-3990

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost.)*

Description: New Public Safety Complex. (Maintenance/ Fire Training) fire station and beach rescue facility.

Size: 19,000 sq. ft.

Cost of Project: 11,000,000.00

Scope of Work: Value construction building review services. Special inspection services. Trouble shooting and construction phase engineering services. Final certification of the project.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Lakdas/Yohalem Engineering, Inc.	Fort Lauderdale, Florida	Structural Engineer and Threshold Inspector
b.			
c.			
d.			
e.			
f.			

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 *(City and State)* West Wind Park Community Center - City of Lauderhill Lauderhill, Florida	22. YEAR COMPLETED PROFESSIONAL SERVICES 2010 (current)	CONSTRUCTION *(If applicable)* N/A	

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER City of Lauderhill	b. POINT OF CONTACT NAME Maritin J. Cala	c. POINT OF CONTACT TELEPHONE NUMBER (954) 730-2961

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost.)*

Description: Park Community Center Renovation and Addition

Size: Project Site Size = 2500 sq. ft.

Cost: $ 4,000.00

Scope of Work: Structural, Civil, Electrical & Mechanical Engineering

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	Lakdas/Yohalem Engineering, Inc.	Fort Lauderdale, Florida	Civil & Structural Engineer Design and Inspection Services
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE

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 (City and State)	22. YEAR COMPLETED		
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
St. George Park Basket Ball - Canopy Structure Lauderhill, Florida	2010	N/A	

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Lauderhill	Martin J. Cala	(954) 730-2961

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost.)

Description: Design Services

Cost: $800,000.00

Scope of Work: Structural, Civil, Architectural, Electrical & Mechanical Engineering

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Lakdas/Yohalem Engineering, Inc.	Fort Lauderdale, Florida	Structural Engineer Design and Inspection Services
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

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 (City and State)	22. YEAR COMPLETED		
City of Pompano Beach Pier- Pompano Beach	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
	2004	N/A	

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Pompano	Clayton Young	(954) 786-4029

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost.)

Description: The existing pier in Pompano Beach was built with pre-cast concrete driven piles poured in place, concrete bent beams and pre-stress concrete deck slab span between bends leaving 3'-0 wide wood deck between pre-stress concrete deck.

Size: The 684' long 14' wide pier had been repaired a number of times. Lakdas/Yohalem Engineering, Inc. provided engineering services for the restaurant addition, new observation tower addition and major restoration work in 1989.

Cost: $2 million

Scope: Structural evaluation of the existing pier, preparation of construction documents, design and construction observation. Compiled a structural survey of the pier and complete life cycle cost analysis for restoration against replacement. A structural survey was completed in 2000 and a 2nd phase of construction document preparation was completed in 2001. Restoration work was successfully completed in 2002.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Lakdas/Yohalem Engineering, Inc.	Fort Lauderdale, Florida	Structural Engineer Design and Inspection Services
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

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 (City and State)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Hollywood Marina Docks B, C and D Repairs	2010	N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Hollywood	Bob Wertz	(954) 921-3992

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost.)

Description: Structural Engineering & Inspection Services

Cost: $380,000.

Scope:

- Structural condition survey of existing Marina
- Life cycle cost and replacement study
- Prepare construction documents for replacement of existing Marina
- Obtain necessary Army Corp & D.N.R.P permit
- Construct observation during construction

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Lakdas/Yohalem Engineering, Inc.	Fort Lauderdale, Florida	Structural Engineer Design and Inspection Services
b.			
c.			
d.			
e.			
f.			

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 (City and State)	22. YEAR COMPLETED		
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
Port Everglades Bulkhead Wall Broward County, Florida	2005	N/A	

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Seaport Engineering & Construction	John Foglesong	(954) 468-0143

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost.)

Description: Structural Engineering & Inspection Services

Size: 5 and a half mile long steel sheet pile bulkhead wall

Cost: 7 million

Scope: Performed structural condition survey, preliminary design and construction observation

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Lakdas/Yohalem Engineering, Inc.	Fort Lauderdale, Florida	Structural Engineer Design and Inspection Services
b.			
c.			
d.			
e.			
f.			

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 (City and State)	22. YEAR COMPLETED		
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
Repair & Replacement of existing roofing system of 11buildings at Port Everglades., Fort Lauderdale, Florida	2009	N/A	

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Seaport Engineering & Construction	Mr. William (Bill) Maughan Deputy Director	(954) 468-0157

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost.)

Project:

Repair and replacement of existing roofing system of 11 buildings at Port Everglades.

Description:

Soon after hurricane Wilma in October 2005, Broward County requested Lakdas/Yohalem Engineering to evaluate the extent of the damage and roof soundness of each building and make recommendations for each building, total of 11 buildings. Establish a construction budget for replacement and repair of each roof. Resulting in roof replacement of a total of 11 buildings. Several roofing systems were considered. The final was a built-up roofing system with torch-down system, since each building is in operation during the entire construction period.

Cost: $6,700,000.

Scope:

Prime consultant design of the entire project and provide full time inspection services during roof replacement of each building.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Lakdas/Yohalem Engineering, Inc.	Fort Lauderdale, Florida	Structural Engineer of record, Inspection Service
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

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 (City and State)	22. YEAR COMPLETED		
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
Condition Survey at Bank Atlantic Building Lauderhill, Florida	2010	N/A	

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Lauderhill	Juan Martin Cala	(954) 730-2961

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost.)

Description: Structural Condition Survey

Size: 5 story, 37,000ft.

Cost: $100,000

Scope of Work: 40 Year Certification along with structural condition survey and cost estimate of corrective work.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Lakdas/Yohalem Engineering, Inc.	Fort Lauderdale, Florida	Structural Engineer
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

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 project participation same or similar role.)									
		1	2	3	4	5	6	7	8	9	10
Lakdas Nanayakkara, P.E.	Project Manager for Civil and Structural	X	X	X	X	X	X	X	X	X	X
Zuhair Jalloul, P.E.	Project Engineer	X	X	X	X	X	X	X	X	X	X

29. EXAMPLE PROJECT KEY

No.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	No.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1.	Fire Station #71, Coral Springs	6.	Pompano Pier - City of Pompano Beach
2.	Lauder Lakes Library- City of Lauderdale Lakes	7.	Hollywood Marina - City of Hollywood
3.	56th Avenue Public Safety Training / Public Safety Building	8.	Port Everglades - Bulkhead Wall
4.	West Wind Park Community Center	9.	Port Everglades Re-roofing
5.	St. George Park Basket Ball - Canopy Structure	10.	Condition Survey – Bank Atlantic/ Lauderhill

H. ADDITIONAL INFORMATION

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

LAKDAS/YOHALEM ENGINEERING, INC., *(LYE)* is a Structural Engineering firm, which was established in Florida in the late 1960's as Yohalem Engineering, Inc.

1. The firm offers a variety of Structural Engineering services, specializing in commercial, institutional and marina facilities, water and wastewater treatment facilities, water control structures and bridges. The firm also has completed numerous city complexes and participated as City Consultant and Special Inspector for construction design.

2. **Structural Engineering:** Prepare Drawings, Specifications and Contract Documents to satisfy the engineering requirements for commercial, educational, institutional and residential buildings, parks and recreational facilities, city complexes, water and wastewater treatment facilities, water control structures, pumpstations , pipelines and bridges.

3. **Construction Observation/Inspection:** Provide Threshold and Special Inspection and Observations of civil and structural systems under construction.
   Mr. Nanayakkara is a Uniform Building Code Inspector certified by the Florida Department of Education. Special Inspector (Threshold Inspector) authorized by the Florida Concrete and Products Association.

4. **Value-Engineering:** Mr. Nanayakkara has participated in several multi-million dollar value-engineering and constructability review projects, design and construction of several projects within a specified budget, which resulted in substantial savings to the Owners.

5. **Small Business Enterprise:** Lakdas/Yohalem Engineering, Inc. is a Small Business certified in Broward, Dade and Palm Beach Counties and by the Florida Department of Management Services.

6. **Insurance:** The firm is fully insured and carries $2,000,000 in Professional Liability Insurance.

The firm's commitment to success begins with a highly skilled design and construction inspection team, knowledgeable in all aspects of a project from start to finish. Throughout completion of a project, Lakdas/Yohalem, Inc. encourages continuous two-way communication between Owners, Clients and Contractors.

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE	32. DATE
	February 21, 2014

33. NAME AND TITLE

Lakdas Nanayakkara, President

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any): RFQ # 946-11366

PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME
Lakdas/Yohalem Engineering, Inc.

3. YEAR ESTABLISHED: 1980

4. DUNS NUMBER: 08-735-8701

2b. STREET
2211 NE 54th Street

5. OWNERSHIP
a. TYPE: Corporation

2c. CITY: Fort Lauderdale
2d. STATE: FL
2e. ZIP CODE: 33308

b. SMALL BUSINESS STATUS: MBE/SBE/DBE/CDBE

6a. POINT OF CONTACT NAME AND TITLE
Lakdas Nanayakkara

7. NAME OF FIRM *(If block 2a is a branch office)*

6b. TELEPHONE NUMBER: (954) 771-0630
6c. E-MAIL ADDRESS: lye@lyengineering.com

8a. FORMER FIRM NAME(S) *(If any)*
Yohalem Engineering, Inc.

8b. YR ESTABLISHED:
8c. DUNS NUMBER:

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) FIRM	c. No. of Employees (2) BRANCH
02	Administrative (Principal)	1	
02	Administrative	1	
48	Project Managers	3	
57	Structural Engineer	2	
12	Civil Engineer	1	
08	Cadd Technician	1	
15	Construction Inspector	3	
	Other Employees		
	Total	12	

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number (see below)
C07	18 years	5
C08	30 years	5
C09	16 years	6
C10	33 years	6
C11	33 years	6
F05	25 years	6

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	1
b. Non-Federal Work	6
c. Total Work	7

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,000 to less than $250,000
3. $250,000 to less than $500,000
4. $500,000 to less than $1 million
5. $1 million to less than $2 million
6. $2 million to less than $5 million
7. $5 million to less than $10 million
8. $10 million to less than $25 million
9. $25 million to less than $50 million
10. $50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE

b. DATE: February 21, 2014

c. NAME AND TITLE
Lakdas Nanayakkara, President

AUTHORIZED FOR LOCAL REPRODUCTION
MANDATORY USE DATE OF FORM 6/2004

Organizational Chart

for In House Team for Structural Engineering Design and Services

LAKDAS/YOHALEM ENGINEERING, INC.
CONSULTING ENGINEERS

City of Fort Lauderdale

Department of Engineering and Public Works

LAKDAS/YOHALEM ENGINEERING, INC.

LAKDAS NANAYAKKARA, P.E.

ACTIVITIES:

1. PRINCIPAL IN CHARGE
2. LIAISON WITH CITY STAFF
3. PROJECT MANAGER

Structural Engineering

Design Services

- Lakdas Nanayakkara,P.E.
- Zuhair Jaloul, P.E.

ACTIVITIES

1. Schematic Design
2. Structural Design
3. Prepare Specifications
4. Review Final Documents
5. Condition Survey
6. Review Shop Drawings
7. Value Engineering
8. Constructability Review

Project Manager/Project Engineer

Structural Engineering

Condition Survey

- Fritz Harris, P.E.
- Luan Nguyen, EIT
- Sergio Barberena, B. Sc

ACTIVITIES

1. Structural Analysis and Design
2. Coordinate All activities
3. Red Line Drawings
4. Condition Survey

Structural Engineers

Structural Engineering

Inspection Services

- Oswald Hutchinson , B.Sc.
- Bandula Nanayakkara, PhD
- Jaya Nanayakkara, B.Sc.

ACTIVITIES

1. Review Shop Drawings
2. Review Product Approval
3. Perform on-site Inspections

Inspectors

Tierra of South Florida

Geotechnical Testing & Material Services

Raj Krisnasamy, P.E.

ACTIVITIES

1. Geotechnical Evaluation
2. Material Testing
3. Water Intrusion Testing
4. Roofing Testing

Geotechnical

LAKDAS / YOHALEM ENGINEERING, INC.
Consulting Engineers EB 0005458

Lakdas Nanayakkara
C Eng., M.I. Str. E.

Statement of Skills and Experience of the Project Team

Credentials of Project Team

NAME	POSITION	EXPERIENCE
1. Lakdas Nanayakkara P.E.,	Structural Engineer	37 years
2. Zuhair Jaloul, P.E.	Civil Engineer	28 years
3. Fritz Harris, P.E.	Structural Engineer	28 years
4. Mario Quiñones	Engineer	18 years
5. Luan Nguyen E.I., Msc.	Engineer	9 years
6. Sergio Barberena B.Sc,	Engineer	20 years
7. Farshad Gholami	CAD Technician	10 years
8. Oswald Hutchinson B.Sc,	Inspector	18 years
9. Jaya Nanayakkara B.Sc,	Inspector	32 years
10. Bandula Nanyakkara, Ph.D	Sr. Inspector	38 years
11. Beatriz Almansa	Administration	15 years
12. Ranjika Nanayakkara	Human Resource	18 years

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Email: lye@lyengineering.com

LAKDAS / YOHALEM ENGINEERING, INC.
Consulting Engineers EB 0005458

Lakdas Nanayakkara
C Eng., M.I. Str. E.

QUALIFICATIONS OF LAKDAS/YOHALEM ENGINEERING, INC.

Lakdas/Yohalem Engineering, Inc. (LYE) is a medium sized professional structural and civil engineering firm that has been in operation in South Florida since 1970 (Broward County). We have provided structural and civil engineering, design and inspection services on a number of high profile projects in the tri-counties, which includes city complexes, institutional buildings, residential properties, water treatment plants, waste water treatment plants, fire stations, police stations, school facilities, libraries, emergency power stations, parks, bridges, marinas, resorts, airports and petroleum facilities.

Our firm has completed over 4,500 projects with over 1800 commercial and public building projects during the past 40 years in the US and on several islands in the Caribbean Basin. We are State Certified Masonry and Threshold Inspectors. Lakdas/Yohalem Engineering, Inc. offers a variety of inspection and engineering services which include: threshold and site inspections, feasibility studies, design, condition survey of structures, restoration damage assessments, value engineering and constructability review.

SERVICES

Our Inspection and Engineering services have been primarily dedicated to:

Inspection
- Threshold and Special inspections services
- Re-roofing
- Constructability review
- Wind mitigation and hurricane hardening
- Life cycle cost analysis
- Value Engineering Services
- Independent damage assessment for insurance claims and settlements.
- 40 year certification of existing buildings for code compliance

Design Services
- New buildings, Marinas and Bridge structures
- Addition to existing building structures
- Renovations of existing Buildings, Marinas & Bridge structures

Buildings: Police Stations, Libraries, Fire Stations, Picnic Shelters, Maintenance Facilities, and City Complexes**

SIMILAR EXPERIENCE

Our staff has performed similar inspection services for the following entities in recent past:

• Village of Bal Harbor	Extended arm of the building department services
• Broward County Port Everglades	Design and special Inspections for the past 12 years
• Broward County Airport	Design Inspection contract for 6 years (two 3 year terms)
• City of Lauderhill	Design and special Inspections
• City of Lauderdale Lakes	Design and special Inspections
• City of Hollywood	Design and special Inspections
• City of Pompano Beach	Design and special Inspections

L.Y.E is **FDOT** Certified for Category **3.1** for Highway Design and **4.1 & 4.1.2** for Bridge Design services.

Lakdas Nanayakkara, including two of our staff members are professional Engineers as well as state certified general contractors who have in depth knowledge of design, inspection and constructability of building and engineering projects.

2211 N.E. 54th Street, Ft. Lauderdale, Fl 33308 • (954) 771-0630 • Fax (954) 771-0519 •
Email: lye@lyeengineering.com

Lakdas/Yohalem Engineering,Inc.
ZUHAIR JALLOUL P.E. #35416

EDUCATION:

B.S. Civil Engineering
University of Tennessee, 1977

REGISTRATION:

Florida, Alabama, Kentucky
Special Inspector, **State of Florida #35416**

EXPERIENCE:

Feb. 1994 - Present

Lakdas/Yohalem Engineering, Inc.
Civil Engineer - Senior Project Engineer
Providing: design, permitting and construction phase engineering services for land development projects, roadway improvements, buildings, bridges, marinas, storm drainage, major water and wastewater projects including water, sewer paving and grading.

Jan. 1985 - Feb. 1994

City of Pompano, City Engineer
Served as chief design engineer for major water, wastewater, storm drainage and roadway projects. Prepared bids, contract documents and all regulatory submission; oversaw advertisement, bids, contract awards, and construction for major infrastructure projects. Services included resident engineering, change orders and claims negotiations, review and oversight of contractor's schedule and pay requests. Supervised 12 employees, including draftsmen, engineers and inspectors.

June 1979 - Jan. 1985

Commonwealth of Kentucky, Engineer
Department of Natural Resources
Completed environmental studies for impacts to surface water and groundwater from coal mining. Prepared probable hydrological consequences reports for coal mining operations. Designed retention ponds for controlling runoff from coalmines.

Nov. 1977 - April 1979

Mothercat, Nigeria, Africa
Supervisory Engineer
Supervised $50 million annual highway construction program. Provided site development of oil fields prior to drilling. Supervised two engineers and four foremen.

MEMBERSHIPS: American Society of Civil Engineers

FITZ A. HARRIS, P.E. #32596

EDUCATION:

Post Graduate Diploma in Bridge Engineering
University of Surrey, England - 1976
B.S. (Honors) Civil Engineering
University of the West Indies, St. Augustine, Trinidad -1971

REGISTRATION

Professional Engineer in the State of Florida -1982 #32596
General Contractor in the State of Florida - 1984
Certified Threshold Inspector in the State of Florida -1985

SUMMARY OF EXPERIENCE

Mr. Harris has over thirty five years of experience in the design, inspection and construction supervision of bridges, commercial, institutional and residential buildings, water plants, sewage treatment plants, mass transit stations and airport structures.

DETAILED WORK HISTORY

April '08 to Present — **LAKDAS/YOHALEM ENGINEERING, INC.**
STRUCTURAL ENGINEERING

Responsibilities — Responsible for the design and construction inspection of various structures including residential and commercial buildings, water tanks and sewage treatment plants, as well as supervision of drafting and review and approval of shop and placing drawings.

Apr'07 -Mar '08 — **MIAMI-DADE BUILDING DEPARTMENT, Miami, Florida**
STRUCTURAL PLANS PROCESSOR

Responsibilities — Providing structural review and approval of various residential and commercial projects in Dade County and meeting with various architects, engineers and owners in order to help resolve any discrepancies that the county found in their structural drawings.

Apr'93 -Apr '07 — **MAURICE GRAY ASSOCIATES, INC., Miami, Florida**
STRUCTURAL ENGINEERING COORDINATOR with DADE AVIATION CONSULTANTS, providing Program Management of engineering, architecture, construction and other technical support services to the Dade County Aviation Department. The structures included: airport terminals, concourses, bridges, elevated roadways, cargo buildings, parking garages, vaults and other underground structures, control towers, chiller plants, tunnels, office buildings, hotels and automated people mover structures.

Responsibilities Provide technical expertise to the Planning and Programming Department.

Provide the design consultants with detailed program documents outlining the project scope and design parameters, and the guidelines and governing criteria for the provision of the design services. Provide Q/A reviews of the contract documents for conformance with the Miami-Dade Aviation Department's Design Guidelines, local building codes, FAA regulations,

pertinent engineering codes and good engineering practice. Provide technical expertise to the field staff and the office staff as required. Assist the owner in claim negotiations/construction dispute resolution. Develop and recommend for implementation; procedures, guidelines and forms for Quality Assurance during construction. Review calculations of the A/E or delegated engineer whenever necessary. Perform engineering analysis and design in supporting and assisting the Planning and Estimating departments.

Mar '92 - Jan '93

ACT SERVICES INC., Miami, Florida
PROJECT MANAGER ON THE ADDITION TO AND RENOVATION OF CAROL CITY MIDDLE SCHOOL

Responsibilities: Management, coordination and supervision of all aspects of the project's construction.

July'85 -Feb'92

President, FITZ A. HARRIS ASSOCIATES, Fort Lauderdale, Florida
Operated Fitz A. Harris Associates, a Consulting Engineering firm. Responsibilities included management and coordination of all the company's activities such as marketing, client interaction, design, coordination and construction administration of the firm's projects. Projects included condominiums, office buildings, warehouses, malls, churches and sewage treatment plants. Work included engineering design, threshold building inspection as well as inspection on the Miami Downtown People Mover project (south loop).

Education

2002 Master of Engineering, University of Florida

2000 Bachelor of Civil Engineering, University of Florida

Registration

Engineer-In-Training, US-Florida-Tallahassee Certification
(EIT certified by the Florida Board of Professional Engineers) 2000

Years of Experience

Lakdas/Yohalem Engineering, Inc.: 5 years

Ayres Associates Inc.: 5 years

Relevant Projects:

Building Projects

- 2 new stand alone multi-story parking garages
- 2 multi-story residential buildings with parking garages
- 2 multi-story commercial buildings with parking garages
- 3 high schools
- 2 multi-story hotels and resort projects
- 2 new fire stations, 2 police and public safety buildings
- 2 new community centers

Highway Pedestrian Bridge

- 2 high-way bridge expansion projects
- 2 passenger loading bridges

Park Facilities

- 2 park and amusement park facilities

Civil Engineering

- 2 pump stations, design and detail

Lakdas/Yohalem Engineering, Inc.
Sergio Barbarena B.Sc.

EDUCATION

Florida Atlantic University
Bachelor in Architecture

RELATED EXPERIENCE

Skilled designer with strong graphic communication.
Capable to develop a project from conceptual to construction documents.
Ten years of experience in commercial, educational and municipal facilities.
Proficient with: AutoCAD, Architectural Desktop, Accurender, Lightscape, Archicad, and AutoDesk Inventor,
Excellent presentation and model making techniques

EMPLOYMENT

2008-Present **Lakdas / Yohalem Engineering, Inc.** Ft. Lauderdale, Florida
Project Manager
Develop Conceptual drawings and construction documents.

2007-2008 **Bermello- Ajamil & Partners**, Ft. Lauderdale, Florida
Project Designer
Develop schematic documents for:
D7 – D8, a mix use development. Dubai, UAE
7 Zones, a design center. Kuwait
Cruise terminal. South Carolina Port Authority

2005-2007 **The Tamara Peacock Company**, Ft. Lauderdale, Florida
Project Designer
Develop conceptual drawings and construction documents for:
The Village at Marina Mile, a mix use development.
Island Village, a 120 unit's hotel in Ft. Lauderdale
Miramar Christian Center, a 40,000 sq. ft. campus
The Atrium, 150,000 sq. ft. business center.

2002-2005 Southeast Architects, Inc. Plantation, Florida
Cad Manager-Job Captain
Develop conceptual drawings and construction documents for:
Salomon Media Center. a 300,000 sq. ft. film and TV studios
Riva Motorsport. A 20,000 sq. ft. Motorcycle retail facility

Lakdas/Yohalem Engineering, Inc.
Oswald Hutchinson, Special Inspector

EDUCATION

1968-1972	**St Andrew Technical High School**	Diploma – Building Construction
1974-1978	**The College of Arts, Science and Technology**	National Certificate Building Construction Engineering
1986-1988	**Miami Dade Community College**	Building Construction
1987-1989	**Florida International University**	Photography
1998-2001	**Florida Atlantic University** (BFA)	

EXPERIENCE

2001- Present ***Lakdas/Yohalem Engineering, Inc.*** ***Engineering Inspector***

- Construction inspector for over 45 projects, few acre land development to roadway construction, paving, grading, water and sewer installation
- Construction Inspector for over 250 projects: Bridges, Culverts, Sea Walls, High Wind Bollard, and
  Building Structures
- Construction inspector for Structural Restoration of over 30 projects: bridges, Parking Garages, and
  Multi-Family Residential Buildings

1988-1998 ***E.N Bechamps and Associates, Inc.*** ***Senior Civil/Structural Draftsman –AutoCad***
Operator & Inspector

- Construction Inspector for over 5 projects, few acre land development to roadway construction, paving, grading, water and sewer installation
- Construction Inspector for over 20 projects: Sea Walls, High Wind Bollard, and Building Structures
- Construction Inspector for Structural Restoration of over 5 projects: Parking Garages, and Multi-Family Residential Buildings

1987-1988 ***Sheldon & Lavrich, Inc.*** ***Structural Draftsman***

- Residential renovations. Broward County School Building

1986-1987 ***Gannet Fleming*** ***Civil/Structural Draftsman***

- F.D.O.T Projects. Platted profiles for cut and fill quantities and completed bridge structural details.
  Projects: Jog Road- Palm Beach, Gratigny Parkway – Dade, I-95/SR836 Interchange Dade County Florida

1984-1986 ***Spolier, Frechtel Associates, Inc.*** ***Structural Draftsman***

- Royal Harbor Yacht Club, Dade County Waste Department Offices, Community Savings Bank, North Palm Beach
- Dade County Aviation Department Crossover Bridge

Lakdas/Yohalem Engineering, Inc.
M. GNANABHARANA (JAYA) NANAYAKKARA

EDUCATION

University of Sri Lanka, Moratuwa
BSC in Civil Engineering, Construction – 1977

EMPLOYMENT

June 1994 to Present	Lakdas/Yohalem Engineering, Inc. 2211 NE 54th Street Fort Lauderdale, Fl. 33308	*Senior Inspector*

Duties include Threshold Inspector for several multi-story complexes, Single-family residential projects, Fort Lauderdale Airport Parking Garage, Cruise Terminal Buildings in Port Everglades Number of Water and Wastewater Treatment Plants Water Control Structures and Bridges

PROFESSIONAL CERTIFICATES

State Certified Building Inspector (B P R)
State Certified General Contractor
Certified Masonry Inspector

BANDULA NANAYAKKARA, PH. D

EDUCATION:

Doctor of Philosophy, Production Engineering 1977
University of Strathclyde, College of Engineering, Glasgow, Scotland

Bachelor of Science Honors, Mechanical / Production Engineering, 1971
Unviersity of Hertfordshire, College of Engineering, Hertfordshire, England

EMPLOYMENT

June 1994 to Present	Lakdas/Yohalem Engineering, Inc. 2211 NE 54th Street Fort Lauderdale, Fl. 33308	*Senior Inspector*

Duties include Threshold Inspector for several multi-story complexes, Single-family residential projects, Fort Lauderdale Airport Parking Garage, Cruise Terminal Buildings in Port Everglades
Number of Water and Wastewater Treatment Plants
Water Control Structures and Bridges

PROFESSIONAL EXPERIENCE:

Water and Waste Water Treatment and Solid Waste Treatment Plants:

- 12 water and waste water treatment plants expansion projects
- 6 solid waste treatment plant renovation and expansion projects
- 14 water and waste water treatment plant renovation projects

LIST OF WASTE/WATER TREATMENT PROJECTS

- Water Treatment Plant, City of Hollywood
- Water Treatment Plant, City of Pompano
- Pahokee Waste Water Treatment Plant, City of Pahokee
- Tamarac Water Storage Tank
- Collier County Water Treatment Plant
- Marco Island Waste Water Treatment Plant (Blower Bldg)
- Water Treatment Plant of North Miami
- Coral Springs Imp. Dist. – WWTP Phase II
- Water Treatment Plant, City of Lauderhill
- Oxygenation Tank WWTP (4) – City of Hollywood
- Wet Well Gate Restoration at Clarifier #3 – City of Hollywood
- Water Treatment Plant Expansion – Town of Davie

Highway Pedestrian Bridges:

- 8 new highway bridges
- 11 pedestrian bridges
- 7 passenger loading bridges
- 16 high-way bridge expansion projects

Marinas, Seawalls and Port Facilities:

- 7 Marinas (Over 100 Slips)
- 64 Residential, multi-residential, docks and seawalls
- 8 Toewalls, bulkhead and pier projects

PROFESSIONAL CERTIFICATES

State Certified Building Inspector (B P R)
State Certified General Contractor
Certified Masonry Inspector

LAKDAS / YOHALEM ENGINEERING, INC.
Consulting Engineers EB 0005458

Lakdas Nanayakkara, P.E.
C Eng., M.I. Str. E.

Project Manager's Experience

Lakdas Nanayakkara, P.E. is the project manager for this project.

He has performed and is currently performing similar types of structural engineering services for a number of municipalities for the last 28 years in Fort Lauderdale, Florida.

Lakdas has been practicing structural engineering services for the last 32 years; also he is a State Certified General Contractor since 1987.

Lakdas has successfully managed to complete over 1800 miscellaneous and high visible structural engineering projects during the last 35 years.

Lakdas views the project as an engineer as well as a contractor. Especially, how to construct the specified project with details and specifications.

Also he views each project in value engineering, point of view to design the project to comply the building code requirement and within schedule and budget.

Lakdas' experience ranges from onsite structural condition survey, compiling reports, cost estimates, conceptual structural design, structural analysis, value engineering and site inspection during construction.

His experience has been recognized by a number of City and County Agencies including the City of Fort Lauderdale.

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Email: lye@lyengineering.com

LAKDAS NANAYAKKARA P.E. #37590

EDUCATION:

Post Graduate Diploma in Structural Engineering - 1981
Council of National Academic Awards
England, United Kingdom

Bachelor of Science Honors Degree in Civil Engineering
With Structural Engineer Major - 1978
Council of National Academic Awards
England, United Kingdom

Higher National Certificate in Civil Engineering - 1975
Hertfordshire College of Building
England, United Kingdom

AWARDS:

- *Tamarac City Complex: National Award*
- *Aventura City Complex: State Award*
- *City of Pompano Waste Water Re-Use Facility: State Award*
- *Tamarac Pedestrian Bridge: State Award*
- *2011 Tilt-Up Acheivement Award – Tilt-Up Concrete Association*

PATENT LICENSE TO INDUSTRY:

- *Metal stud frame system # US 6980 347 B2*
- *Interlocking masonry wall # US 6550 208 B2*
- *Light gauge metal frame # US 6163 674 BI*

PROFESSIONAL ENGINEER REGISTRATIONS:

- Charted Structural Engineering
  London, England – 1981
- Florida #037590
- South Dakota - 4058
- Minnesota - #17947
- Certified Structural Masonry Inspector – 1992
- Certified Threshold Inspector – 1987
- Certified General Contractor – CGC 044303
- Certified Uniform Building Code Inspector - 690

Structural Engineering Expert for Unsafe Structure Board – City of Margate since " 2001".

Structural expert witness services over 400 projects for Insurance companies over 60 projects failure analysis and Expert testimony for litigation representation.

EMPLOYMENT:

1987 to present Lakdas / Yohalem Engineering, Inc
Fort Lauderdale, FL 33308

Principal - in charge of structural design and final review of construction documents

1986 - 87 Yohalem Engineering, Inc.
Fort Lauderdale, FL 33308

Principal Associate - structural design, site supervision, Structural Investigation and reports, liaise with Architects and General Contractors.

1984- 86 Darg Palanasami and Associates, Inc.
Minneapolis, MN

Project Engineer - Structural design, site supervision, structural investigations and reports, liaise with Architects and General Contractors

EXPERIENCE:
Thirty-two years of practicing as a Professional Structural Engineer in the following disciplines: building structures, marine and bridge engineering structures for many state, county and city agencies in support of high visible and miscellaneous public projects.
Over 1200 projects were completed in South Florida and the Caribbean Basin during the last 24 years.

Building Projects:

- 8 new stand alone multi-story parking garages
- 11 multi-story residential buildings with parking garages
- 6 multi-story commercial buildings with parking garages
- 11 cruise terminal facilities
- 6 high schools, 8 middle schools and 14 elementary schools
- 11 community college building facilities, 6 special education facilities
- 18 multi-story hotels and resort projects
- Structural renovations of 11 parking garages, 21 condominiums
- 8 new libraries, 8 auditorium and amphitheater
- 14 new fire stations, 7 police and public safety buildings

Water and Waste Water Treatment and Solid Waste Treatment Plants:

- 12 water and waste water treatment plants expansion projects
- 6 solid waste treatment plant renovation and expansion projects
- 14 water and waste water treatment plant renovation projects

Marinas, Seawalls and Port Facilities:

- 7 Marinas (Over 100 Slips)
- 64 Residential, multi-residential, docks and seawalls
- 8 Toewalls, bulkhead and pier projects

Highway Pedestrian Bridges:

- 8 new highway bridges ❖ 11 pedestrian bridges ❖ 7 passenger loading bridges
- 16 high-way bridge expansion projects

Park Facilities:

- 8 park and amusement park facilities

Value Engineering:

Participated as structural expert for over 31 value-engineering sessions for both FDOT and County's major projects in building, bridges and water and wastewater treatment plants. Our Value-Engineering service has saved:

- Bridge projects over $4.5 million
- Building projects, saved over $4.1 million
- Water & Wastewater Treatment Plants, saved over $4.6 million

Structural Failure Analysis and Expert Witness: Construction Related Litigation

- 12 Commercial projects ❖ 46 Residential projects

Professional Societies:
Institute of Structural Engineers, London, England
American Society of Civil Engineers, American Concrete Institute
Florida Institute of Consulting Engineers, The Masonry Society
Civic Organizations:
Member of Broward County Construction Executive Association
Member of Florida Consulting Engineers

LAKDAS / YOHALEM ENGINEERING, INC.
Consulting Engineers EB 0005458

Lakdas Nanayakkara
C.Eng., M.I. Str. E.

Approach to Scope of Work

Our approach for said projects would be as follows:

Our approach for structural and inspection for miscellaneous and City in house staff design building project would be:

Building Structures, Re-Roofing and Miscellaneous Structure Projects

- Immediate response to request of work, meet with City project manager and establish the criteria for the project, available documents including City project manager's program.
- Prepare fee proposal for our services
- Review the existing construction documents including survey, sounding and geotechnical information.
- Meet all related permitting agencies to establish permit criteria
- Prepare schematic design along with budget cost for City review
- Prepare 50% submittal drawings and compare with established budget
- Complete construction documents and review for code and all related agency permitting requirements and constructability review
- Assist in preparation of bid documents and permitting with project team members, City officials and contractors
- Submit signed and sealed documents to City for permit submittal
- Assist and reply to all comments during bidding
- Assist bid tabulation and select a contractor that meets all City bid document requirements
- Assist with all engineering services required during pre-construction phase, such as, product approval and shop drawing approval
- Provide construction observation during construction and approve contractor's monthly pay request, if necessary
- Final certification of the project including closeout of all related permits; local, state and federal agencies

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Email: lye@lyengineering.com

LAKDAS / YOHALEM ENGINEERING, INC.
Consulting Engineers EB 0005458

Lakdas Nanayakkara
C Eng., M.I. Str. E.

Our approach for:

- Structural Condition Survey
- Wind Mitigation
- Forty Year Certification

- Immediate response to request of work, meet with City project manager and establish the criteria for the project, available documents including City project manager's program.
- Prepare fee proposal for our services
- Review the existing construction documents including survey, sounding and geotechnical information.
- Meet all related permitting agencies to establish permit criteria
- Onsite evaluation of the structure
- Compile detail report with our findings and suggested corrective work
- Prepare construction cost proposal for corrective work
- Complete City agency form for 40 year certification
- Submit for City review and approval

2211 N.E. 54th Street, Ft. Lauderdale, Fl 33308 • (954) 771-0630 • Fax (954) 771-0519 •
Email: lye@lyengineering.com

References

1) Mr. John Foglesong, Director
Seaport Engineering & Construction Division.
Port Everglades
1850 Eller Drive
Port Everglades, FL 33316
(954) 468-0143

2) Mr. Indar Maharaj, Capital Projects Manager
City of Lauderhill
2000 City Hall Drive
Lauderhill, Fl 33313
(954) 730-4225

3) Mr. Jitendra Patel, P.E., Manager of Public Works
City of Hollywood
Dept of Design & Construction Mgmt
2717 Van Buren Street
Hollywood, Florida 33022-9045
(954) 921-3900

4) Clayton Young, Project Manager
City of Pompano Beach
1204 NE 5th Ave.
Pompano Beach, Fl 33060
(954) 786-4029

5) Mr. Robin Soodeen, CPSI, Fleet/Facilities Superintendent
City of Lauderdale Lakes
4300 NW 36th Street
Lauderdale Lakes, Fl 33319
(954) 535-2758

6) Francois A. Domond, P.E, O.E.S
Assistant Director, Utilities Department
City of Hollywood Engineering
1621 N. 14th Ave.
Hollywood, Fl. 33020
(954) 921-3930

State of Florida

Minority, Women & Service-Disabled Veteran

Business Certification

Lakdas/Yohalem Engineering, Inc.

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

08/30/2013 to 08/30/2015

John P Miles, Secretary

Florida Department of Management Services
Office of Supplier Diversity

Office of Supplier Diversity • 4050 Esplanade Way, Suite 380 • Tallahassee, FL 32399-0950 • 850.487.0915 • www.osd.dms.state.fl.us

BROWARD COUNTY
FLORIDA

OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT
Governmental Center Annex
115 S. Andrews Avenue, Room A680 • Fort Lauderdale, Florida 33301
954-357-6400 • FAX 954-357-5674 • TTY 954-357-5664

May 13, 2013

Mr. Lakdas Nanayakkara
LAKDAS/YOHALEM ENGINEERING, INC.
2211 NE 54th Street
Fort Lauderdale, Florida 33308

ANNIVERSARY DATE – Annually, on May 7th

Dear Mr. Nanayakkara:

Broward County is pleased to announce that **Lakdas/Yohalem Engineering, Inc.** has renewed its certification as a **Disadvantaged Business Enterprise [DBE]** in Florida, under a **Unified Certification Program [UCP]** in accordance with 49 CFR, PART 26.

DBE certification continues from your anniversary date, but is contingent upon Lakdas/Yohalem Engineering, Inc. renewing its eligibility annually through this office, Office of Economic and Small Business Development (OESBD). OESBD will notify you in advance of your obligation to provide continuing eligibility documents; however, to assure continued certification is your responsibility. Failure to continue your eligibility will result in immediate action to remove Lakdas/Yohalem Engineering, Inc. as a DBE.

As long as Lakdas/Yohalem Engineering, Inc. is listed in the DBE Directory, it is considered DBE Certified by all Florida UCP Members.

DBE Certification is subject to actions by governmental agencies impacting the disadvantaged status of Lakdas/Yohalem Engineering, Inc.

Lakdas/Yohalem Engineering, Inc. will be listed in Florida's **UCP DBE Directory** which can be accessed via the internet, at https://www3.dot.state.fl.us/EqualOpportunityOffice/BizNet/mainmenu.asp or through FDOT's website at www.dot.state.fl.us/equalopportunityoffice and by "clicking" on "BizNet DBE UCP Directory" in the center of the page.

Broward County Board of County Commissioners
Sue Gunzburger • Dale V.C. Holness • Kristin Jacobs • Martin David Kiar • Chip LaMarca • Stacy Ritter • Tim Ryan • Barbara Sharief • Lois Wexler
www.broward.org

Re: Lakdas/Yohalem Engineering, Inc. **May 13, 2013**

DBE certification is **NOT** a guarantee of work, but enables Lakdas/Yohalem Engineering, Inc. to compete for, and perform, contract work on all USDOT Federal Aid (FAA, FTA and FHWA) projects in Florida as a DBE contractor, sub-contractor, consultant, and sub-consultant or material supplier.

If, at any time, there is a material change in Lakdas/Yohalem Engineering, Inc., including, but not limited to, ownership, officers, directors, scope of work being performed, daily operations, affiliations with other businesses or individuals or physical location of Lakdas/Yohalem Engineering, Inc., you must notify OESBD, in writing, without delay. Notification should include supporting documentation. You will receive acknowledgement and confirmation of continued eligibility, if applicable after notification of changes.

Lakdas/Yohalem Engineering, Inc. may compete for, and perform, work on all USDOT Federal Aid projects throughout Florida, receiving DBE credit for work performed in the following area:

NAICS: 541330 Engineering Services

Please feel free to contact OESBD for any questions or concerns pertaining to your DBE certification. Our telephone number is (954) 357-6400; our fax number is (954) 357-5674.

Sincerely,

Chris Atkinson

Chris Atkinson, Assistant Director
Office of Economic and Small Business Development

BROWARD COUNTY FLORIDA

Our Best. Nothing Less.

OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT
Governmental Center Annex
115 S. Andrews Avenue, Room A680 • Fort Lauderdale, Florida 33301
954-357-6400 • FAX 954-357-6674 • TTY 954-357-5664

November 12, 2013

Mr. Lakdas Nanayakkara
LAKDAS/YOHALEM ENGINEERING, INC.
2211 NE 54th Street
Fort Lauderdale, Florida 33308

Dear Mr. Nanayakkara:

The Broward County Office of Economic and Small Business Development (OESBD) is pleased to award your company certification as a **County Business Enterprise.** Your firm is now eligible to participate in the Office of Economic and Small Business Development programs.

Your CBE and SBE certification is continuous, but is contingent upon your firm verifying annually its eligibility in each of the two programs. Each year, on the anniversary of the date you were awarded certification, you must submit to the Office of Economic and Small Business Development a Personal Net Worth Worksheet, a copy of the previous year's Business Tax Return, copies of the current professional licenses, and County and local business tax receipts. As a courtesy, OESBD will notify you in advance of your obligation to provide the continuing eligibility documents. However, the responsibility to assure continued certification is yours.

To review current Broward County Government bid opportunities visit: http://www.broward.org/purchasing/currentsolicitations. Bid opportunities over $3,500 will be advertised to vendors via e-mail. Please keep both the Purchasing Division and the Office of Economic and Small Business Development apprised of your current e-mail address.

Your primary certification group is: **Architecture and Engineering Services.** This is also how your listing in our directory will read. You may access your firm's listing by visiting the Office of Economic and Small Business Development Directory, located on the internet at: https://www.broward.org/small business. Click on "Small Business Directory".

Your firm may compete for, and perform work on Broward County projects in the following areas:

NAICS CODE: 541330, 541340, 541350, 541990

We look forward to working with you to achieve greater opportunities for your business through county procurement.

Sincerely,

Chris Atkinson, Assistant Director
Office of Economic and Small Business Development

Cert Agency: BC-CBE
ANNIVERSARY DATE: NOVEMBER 7TH

Broward County Board of County Commissioners
Sue Gunzburger • Dale V.C. Holness • Kristin Jacobs • Martin David Kiar • Chip LaMarca • Stacy Ritter • Tim Ryan • Barbara Sharief • Lois Wexler
www.broward.org

BROWARD COUNTY FLORIDA

Office of Economic and Small Business Development

Governmental Center Annex
115 S. Andrews Avenue, Room A680 • Fort Lauderdale, Florida 33301 • 954-357-6400 • FAX 954-357-5674 • TTY 954-357-5664

This Certificate is Awarded to:

LAKDAS/YOHALEM ENGINEERING, INC.

As set forth in the Broward County Business Opportunity Act of 2012, the certification requirements have been met for:

County Business Enterprise

Anniversary Date: November 7th

Chris Ostrowski

Authorized Representative

The Office of Economic and Small Business Development must be notified within 30 days of any material changes in the business which may affect ownership and control. Failure to do so may result in the revocation of this certificate and/or imposition of other sanctions.

A service of the Broward County Board of County Commissioners
www.broward.org/smallbusiness

© 0065 910

LITHO IN U.S.A.

State of Florida

Board of Professional Engineers

Attests that

Lakdas Vonalem Engineering Inc

is authorized under the provisions of Section 471.023, Florida Statutes, to offer engineering services to the public through a Professional Engineer duly licensed under Chapter 471, Florida Statutes.

Expiration: 2/28/2015

Audit No: 228201501163

Certificate of Authorization

CA Lic. No: 5458

State of Florida

Board of Professional Engineers

Attests that

Lakdas Nanayakkara

FBPE

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2015

Audit No: 228201520618

P.E. Lic. No: 37590

Special Inspector

SI Lic. No: 690

THIS DOCUMENT HAS A COLORED BACKGROUND • MICROPRINTING • LINEMARK™ PATENTED PAPER

AC# 6327648

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD

SEQ# L12083103540

DATE	BATCH NUMBER	LICENSE NBR
08/31/2012	110423875	CGC044303

The GENERAL CONTRACTOR
Named below IS CERTIFIED
Under the provisions of Chapter 489 FS.
Expiration date: AUG 31, 2014

NANAYAKKARA, LAKDAS
BJR CONSTRUCTION CORPORATION
2211 NORTHEAST 54 ST
FT LAUDERDALE FL 33308

RICK SCOTT
GOVERNOR

KEN LAWSON
SECRETARY

DISPLAY AS REQUIRED BY LAW

State of Florida
Department of State

I certify from the records of this office that LAKDAS/YOHALEM ENGINEERING, INC. is a corporation organized under the laws of the State of Florida, filed on November 9, 1987, effective November 9, 1987.

The document number of this corporation is K01968.

I further certify that said corporation has paid all fees due this office through December 31, 2013, that its most recent annual report/uniform business report was filed on January 8, 2013, and its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this is the Eighth day of January, 2013

Ken Detzner

Secretary of State

Authentication ID: CC4343723844

To authenticate this certificate,visit the following site,enter this ID, and then follow the instructions displayed.

https://efile.sunbiz.org/certauthver.html

Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

ANANTH PRASAD, P.E.
SECRETARY

December 7, 2012

Lakdas Nanayakkara, President
LAKDAS/YOHALEM ENGINEERING, INC.
2211 NE 54th Street
Fort Lauderdale, Florida 33308

Dear Mr. Nanayakkara:

The Florida Department of Transportation has reviewed yourapplication for qualification package and determined that the data submitted is adequate to qualify your firm for the following types of work:

Group 3 - Highway Design - Roadway

3.1 - Minor Highway Design

Group 4 - Highway Design - Bridges

4.1 - Minor Bridge Design
4.1.2 - Minor Bridge Design

Group 10 - Construction Engineering Inspection

10.1 - Roadway Construction Engineering Inspection

Your firm is now qualified to do work for the Department forminor projects only. This level of qualification allows consultants to compete for minor projects with fees estimated at below $250,000.00.

Should you have any questions, please feel free to contact me at 850/4144485.

Sincerely,

Lorraine E. Odom

Lorraine E. Odom
Professional Services
Qualification Administrator

LEO/cbhk

LOCAL BUSINESS PREFERENCE CERTIFICATION STATEMENT

The Business identified below certifies that it qualifies for the local BUSINESS preference classification as indicated herein, and further certifies and agrees that it will re-affirm it's local preference classification annually no later than thirty (30) calendar days prior to the anniversary of the date of a contract awarded pursuant to this ITB. Violation of the foregoing provision may result in contract termination.

(1) Lakdas Nanayakkara
Business Name

is a **Class A** Business as defined in City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. A copy of the City of Fort Lauderdale current year Business Tax Receipt **and** a complete list of full-time employees and their addresses shall be provided within 10 calendar days of a formal request by the City.

(2) _____
Business Name

is a **Class B** Business as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. A copy of the Business Tax Receipt **or** a complete list of full-time employees and their addresses shall be provided within 10 calendar days of a formal request by the City.

(3) _____
Business Name

is a **Class C** Business as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. A copy of the Broward County Business Tax Receipt shall be provided within 10 calendar days of a formal request by the City.

(4) _____
Business Name

requests a **Conditional Class A** classification as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. Written certification of intent shall be provided within 10 calendar days of a formal request by the City.

(5) _____
Business Name

requests a **Conditional Class B** classification as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. Written certification of intent shall be provided within 10 calendar days of a formal request by the City.

(6) _____
Business Name

is considered a **Class D** Business as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. and does not qualify for Local Preference consideration.

BIDDER'S COMPANY: Lakdas/Yohalem Engineering, Inc.

AUTHORIZED COMPANY PERSON: _____
NAME SIGNATURE 2-21-14
DATE

ANY PROPRIETORS/PARTNERS/EXECUTIVE OFFICER/MEMBER EXCLUDED?

ACORD

CERTIFICATE OF LIABILITY INSURANCE

OP ID: PR

DATE (MM/DD/YYYY): 02/11/2014

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
Gulfstream Insurance Group Inc
P.O. Box 8908
Fort Lauderdale, FL 33310-8908
Robert S. Sims

CONTACT NAME:
PHONE (A/C, No, Ext):
FAX (A/C, No):
E-MAIL ADDRESS:
PRODUCER CUSTOMER ID #: LAKDA-1

INSURED
Lakdas/Yohalem Engineering Inc
2711 NE 54 St.
Fort Lauderdale, FL 33308

INSURER(S) AFFORDING COVERAGE — NAIC #

INSURER A: Colony Insurance Company
INSURER B:
INSURER C: Bridgefield Employers Ins Co
INSURER D:
INSURER E:
INSURER F:

COVERAGES — CERTIFICATE NUMBER: — REVISION NUMBER:

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

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	GENERAL LIABILITY: X COMMERCIAL GENERAL LIABILITY; CLAIMS-MADE [X] OCCUR; X Broad Form; Contractual; GEN'L AGGREGATE LIMIT APPLIES PER: POLICY / PRO-JECT / LOC	X		GL4030449	06/06/2013	06/06/2014	EACH OCCURRENCE	$ 1,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 100,000
							MED EXP (Any one person)	$ 5,000
							PERSONAL & ADV INJURY	$ 1,000,000
							GENERAL AGGREGATE	$ 2,000,000
							PRODUCTS - COMP/OP AGG	$ Included
A	AUTOMOBILE LIABILITY: ANY AUTO; ALL OWNED AUTOS; SCHEDULED AUTOS; HIRED AUTOS; X NON-OWNED AUTOS			GL4030449	06/06/2013	06/06/2014	DED	$ 500
							COMBINED SINGLE LIMIT (Ea accident)	$ 1,000,000
							BODILY INJURY (Per person)	$
							BODILY INJURY (Per accident)	$
							PROPERTY DAMAGE (Per accident)	$
	UMBRELLA LIAB: OCCUR; EXCESS LIAB: CLAIMS-MADE; DEDUCTIBLE; RETENTION $							$
								$
							EACH OCCURRENCE	$
							AGGREGATE	$
								$
								$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY: ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y/N [ ] N/A (Mandatory in NH); If yes, describe under DESCRIPTION OF OPERATIONS below			199046653	01/01/2014	01/01/2015	X WC STATU-TORY LIMITS / OTH-ER	
							E.L. EACH ACCIDENT	$ 1,000,000
							E.L. DISEASE - EA EMPLOYEE	$ 1,000,000
							E.L. DISEASE - POLICY LIMIT	$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)
Engineer/Architect-Consulting/ city of Ft. Lauderdale is named as additional insured for General liability.

CERTIFICATE HOLDER

FTLAUDE

City of Fort Lauderdale
Dept of Procurement Services
Rick Andrews
100 N. Andrews Ave.
Fort Lauderdale, FL 33301

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

The ACORD name and logo are registered marks of ACORD
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LAKDAS / YOHALEM ENGINEERING, INC.
Consulting Engineers EB 0005458

Lakdas Nanayakkara
C Eng., M.I. Str. E.

Joint Venture Statement

Lakdas/Yohalem Engineering, Inc shall act as the prime on this project and will not be participating in any type of Joint Venture Agreement for this RFQ.

Thank you.

2211 N.E. 54th Street, Ft. Lauderdale, Fl 33308 • (954) 771-0630 • Fax (954) 771-0519 •
Email: lye@lyengineering.com

tierra SOUTH FLORIDA

GEOTECHNICAL ENGINEERING · MATERIAL TESTING · INSPECTION SERVICES

Tierra South Florida, Inc. (TSF) is a full service consulting geotechnical engineering, construction materials testing, and inspections firm with capabilities to provide test borings, engineering analyses and reports, AutoCAD and Microstation plan sheets, laboratory soils testing, and construction materials testing. TSF was incorporated in the State of Florida in 2003. Our professional team has been working together since 2000 and is committed to providing quality, responsive service establishing a reputation for sound approaches and professional competence in a wide range of technically demanding areas. Our services also include threshold/special inspection and roofing inspection services. TSF is a certified Disadvantaged Business Enterprise (DBE) and Small Business Enterprise (SBE) with the Florida Department of Transportation. TSF is also a certified Minority Business Enterprise (MBE) with the State of Florida's Office of Supplier Diversity and a certified Community Business Enterprise (CBE) by Broward County.

Our main office is located in West Palm Beach, Florida with operational satellite offices in Fort Lauderdale and Hialeah Gardens, Florida. Our staff includes principal engineers with more than 25 years of experience in geotechnical, construction, laboratory and field materials testing and inspection services. We feature Masters Degree level or higher educational background amongst our Registered Professional Engineers and maintain licenses in the State of Florida.

BASIC SERVICES

Geotechnical Engineering: TSF can provide a complete range of geotechnical engineering services. Our organization helps define the construction and long-term performance risks associated with subsurface conditions. Applications are for all types of buildings, airport facilities, transportation systems, landfills, dams, and other civil and private projects. TSF's geotechnical services include:

- Laboratory testing and analysis
- Subsurface exploration
- Site preparation recommendations
- Soil reinforcement
- Expert witness testimony
- Value engineering
- Pavement evaluations and design
- Deep and shallow foundation analysis and design
- Slope stability analysis
- Corridor studies
- Sinkhole studies

Construction Materials Testing: TSF offers materials engineering, testing and inspection services applicable to the governmental, construction and manufacturing industries. TSF will evaluate and then develop recommendations regarding both existing structures and new construction. During construction, monitoring and quality control services will cover every phase of construction and all materials used. TSF has a fully equipped laboratory and certified technicians that can provide a wide range of material testing and inspection services. Our capabilities with respect to soils, concrete, and asphalt have been approved by the Florida Department of Transportation (FDOT) and certified by Construction Material Engineering Council (CMEC). TSF's construction material testing and inspection services include:

- Soils/aggregates/concrete/masonry/asphalt
- Concrete testing and placement observation
- Asphalt paving monitoring
- MSE wall installation monitoring
- Drilled shaft installation monitoring
- Earthwork testing and observations
- Masonry, grout, and mortar sampling and testing
- Asphalt plant observations and monitoring
- Pre-stressed yard observations
- Pile driving installation monitoring

Building Inspection: TSF also provides building inspection services to public and private clients; our services include:

- Threshold/special inspections
- Roof installation observations
- Welding inspections
- Floor flatness testing
- Non-destructive testing
- Torque testing and inspections
- Fire proofing testing

CAPABILITIES AND EXPERIENCE

TSF's principals have served as geotechnical engineering consultants to a large variety of clients, both public and private, in the course of our experience. These clients include architects, engineers, contractors, developers, utilities, institutions, schools, military, municipalities, and private enterprise covering commercial and residential entities. Our collective project experience is broad based covering: airport construction, pavement design of municipal airports, buildings, highways, bridges, communication towers, dams and levees, sinkhole remediation, ground improvement projects, water supply projects, landfills, slope stabilities analyses, and distressed structure/foundation studies.

tierra
SOUTH FLORIDA

RAJ KRISHNASAMY, P.E.

President, Principal Geotechnical Engineer

25 Years Professional Experience

EDUCATION

MS in Geotechnical Engineering, University of Memphis 1995

BS in Civil Engineering, Christian Brothers University 1987

Diploma/1984/Electronic Engineering, Malaysian Air Force Institute

PROFESSIONAL ORGANIZATION AND REGISTRATION

Professional Engineer:

Florida, 53567

Certified OSHA Supervisor

Certified Environmental Consultant

PROFESSIONAL EXPERIENCE

As President and Principal Engineer for Tierra South Florida, Inc., Mr. Krishnasamy oversees the geotechnical engineering, construction materials testing, and inspection services operations. Mr. Krishnasamy was the Project Manager for a $1.2 billion multimedia super corridor project that included universities, commercial buildings, and residential roadways. He was also Principal Geotechnical Engineer for a $780 million elevated highway, where he established Rock Founding Rationale for deep foundation systems. He was also Principal Geotechnical Engineer for a $450 million highway that included land reclamation and soil stabilization. Mr. Krishnasamy has been involved in hundreds of projects of diversified complexity consisting of residential, commercial, educational, and wastewater treatment facilities, sports arenas, landfills, airports, roadways and land reclamation.

ABBREVIATED PROJECT EXPERIENCE

SFRC Bascule Bridge Replacement over the New River, Broward County, FL
PD&E Studies for Various Bridges over Las Olas Boulevard, Fort Lauderdale, FL
SE 15th Avenue Bridge Replacement - CEI Services, Fort Lauderdale, FL
FDOT District 4 Unknown Foundations Bridge Scour Evaluation (Andrews Avenue over C-13 Canal Bridge, NE 23 Avenue over Rio Giraldo Canal, NE 26th Terrace over Rio De Sota, Laguna Terrace over Diane River, West Lake Drive over Estelle River, West Lake Drive over Diane River, West Lake Drive over Lucille River, Johnson Street over C-10 Canal, Kings Highway over Belcher Canal), Broward County, FL
Pembroke Road Bridge over I-75, Broward County, FL
FPL Bridge at Port Everglades, Broward County, FL
Pedestrian Bridge at Floranda Road, Oakland Park, FL
NE 27th Terrace Bridge Replacement, Pompano Beach, FL
Improvement of Hiatus Road from Sunrise Boulevard to Oakland Park Boulevard (Roadway and Bridge), Broward County, FL
I-95 Express Lanes in Broward and Miami-Dade Counties (Design-Build)
SW 36th Avenue - Pedestrian Bridge and Sidewalks, Pompano Beach, FL
Passenger Loading Bridge Terminal 2 & 18, Port Everglades, FL
CR-811/Dixie Highway Fly-Over, Broward & Palm Beach Counties, FL
Royal Palm Boulevard Bridge Widening and Pedestrian Bridges, Margate, FL
Design-Build Rehabilitation of West Bridge & Bear Cut Bridge on the Rickenbacker Causeway, Miami-Dade County, FL
Flagler Memorial (SR-A1A) Bascule Bridge Replacement Design-Build, Palm Beach County, FL
SR-80/Southern Blvd - Bascule Bridge, Palm Beach County, FL
Ocean Avenue Bascule Bridge, Palm Beach County, FL
George Bush Boulevard Bascule Bridge, Palm Beach County, FL
SR 80 / Southern Blvd. Bridges Replacement, Palm Beach County, FL
US 41 Reconstruction Design-Build, Collier County, FL
State Road 710 Big John Monahan Bridge (Design Build) from SW Trail Dr. to East of the SR-76 Connector Ramps, Martin County, FL
New Bridge on NW 87th Avenue over Miami Canal, Miami-Dade County, FL
SR 5 / US- 1 Low-level Bridge Replacement (Design-Build), Palm Beach County, FL
Hatton Highway Bridge Over PDD Main Canal 2, Palm Beach County, FL
Caroline Avenue Crossing over L.W.D.D. L-3 Canal Bridge Replacement, Palm Beach County, FL
Pedestrian bridge over the Carol City Canal, Miami Gardens, FL
10th Avenue North and Keller Canal Pedestrian Bridge, Palm Beach County, FL

ARCHITECT - ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION *(City and State)*
Bridge Engineering Consulting Services, Fort Lauderdale, Florida

2. PUBLIC NOTICE DATE

3. SOLICITATION OR PROJECT NUMBER
RFQ # 246-11376

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE
Raj Krishnasamy, P.E. , President/ Principal Engineer

5. NAME OF FIRM
TIERRA SOUTH FLORIDA, Inc.

6. TELEPHONE NUMBER
(561) 687-8536

7. FAX NUMBER
(561) 687-8570

8. E-MAIL ADDRESS
Raj@TierraSF.com

C. PROPOSED TEAM

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

	(Check) PRIME	J-V PARTNER	SUBCON-TRACTOR	9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
a.			X	tierra SOUTH FLORIDA ☐ CHECK IF BRANCH OFFICE	2209B NE 54th Street Fort Lauderdale, FL 33308	Geotechnical Engineering
b.				☐ CHECK IF BRANCH OFFICE		
c.				☐ CHECK IF BRANCH OFFICE		
d.				☐ CHECK IF BRANCH OFFICE		
e.				☐ CHECK IF BRANCH OFFICE		

D. ORGANIZATIONAL CHART OF PROPOSED TEAM

☐ *(Attached)*

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Raj Krishnasamy, P.E.	Principal Geotechnical Engineer	25	13

15. FIRM NAME AND LOCATION *(City and State)*
TIERRA SOUTH FLORIDA, INC., West Palm Beach, Florida

16. EDUCATION *(DEGREE AND SPECIALIZATION)*
BS Civil Engineering, Christian Brothers University, 1987
MS Civil Engineering, University of Memphis, 1996

17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Professional Engineer, Florida No. 53567

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
American Society of Highway Engineers, Past President, Florida Engineering Society, Past Treasurer
Geotechnical Material Engineering Council, Past Chairman

19. RELEVANT PROJECTS

a.
(1) TITLE AND LOCATION *(City and State)*
SFRC Bascule Bridge over the South Fork of the New River
Broward County, Florida

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2013
CONSTRUCTION *(If applicable)*:

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

Mr. Krishnasamy was the principal in charge of the geotechnical engineering study for the proposed replacement of about 1.25 miles of South Florida Rail Corridor Bascule Bridge over the New River in Broward County. The project extends from the overpass of Davie Boulevard to the overpass of SR84. Scope of services includes layout, coordination, performing borings on land and water, foundation analysis including piles and drilled shafts, and provided geotechnical recommendations. The proposed bridge structure is very close to the existing structure. Evaluated and analyzed several options including H-piles to brace existing foundation. A part of the proposed track traverses over organic soils. Evaluated various soil improvement options for the proposed track. Provided soil parameters for earth retention options to support the existing track during construction.

b.
(1) TITLE AND LOCATION (City and State)
FDOT District 4 Unknown Foundations Bridge Scour Evaluation
Broward County, Florida

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2011
CONSTRUCTION *(If applicable)*:

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

Mr. Krishnasamy was the principal in charge of the geotechnical engineering services consisting of estimating pile foundation embedment for 20 bridge structures. Bridges included Andrews Avenue over C-13 Canal Bridge, NE 23 Avenue over Rio Giraldo Canal, NE 26th Terrace over Rio De Sofa, Laguna Terrace over Diane River, West Lake Drive over Estelle River, West Lake Drive over Diane River, West Lake Drive over Lucille River, Johnson Street over C-10 Canal, and Kings Highway over Belcher Canal amongst others.

c.
(1) TITLE AND LOCATION *(City and State)*
Spangler Road Bypass – Geotechnical Engineering Study
Port Everglades, Florida

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2010
CONSTRUCTION *(If applicable)*:

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

Mr. Krishnasamy was the principal in charge of the geotechnical engineering study for the construction of two bridges over Spangler Road, associated embankments/approach on either side of the bridges, security plaza, and roadway improvements on Eisenhower Boulevard. Field work included 14 Standard Penetration Test (SPT) borings. Provided geotechnical recommendations for bridge to support by a prestressed precast pile foundation system or an Auger Cast-in-Place (ACIP) pile foundation system. Provided design criteria, installation recommendations, and other considerations for both driven piles and ACIP piles so that the appropriate foundation system could be chosen depending on cost and feasibility. Also provided engineering recommendations for embankment/approach design options as well as geotechnical engineering recommendations for on-grade roadway widening.

d.
(1) TITLE AND LOCATION *(City and State)*
Pembroke Road Bridge over I-75
Broward County, Florida

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2011
CONSTRUCTION *(If applicable)*:

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

In 2005, Mr. Krishnasamy completed a Geotechnical Engineering Study, including Roadway Soil Survey, High Fill Embankment Report, and Bridge Foundation Report, for the widening and extension of Pembroke Road which included a new bridge over I-75. Field work consisting of SPT borings, auger borings, pavement cores, and BHP tests. Provided laboratory testing, slope stability analysis, pile capacity analysis, summary of subsurface conditions, and geotechnical discussion of bridge foundation alternatives (i.e. drilled shaft vs. pre-stressed pre-cast square concrete piles), soil suitability, and pavement design considerations. In 2009, provided support services for the CEI, i.e. asphalt plant inspection and laboratory services. In 2011, performed a Geotechnical Engineering Study to assist the design team in evaluating proposed MSE Walls.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
CR-811/Dixie Highway Fly-Over Broward & Palm Beach Counties, Florida	2012	

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

Mr. Krishnasamy was the principal in charge of the geotechnical engineering study and provided quality control during construction for the new fly-over in Palm Beach & Broward Counties, Florida. Provided geotechnical report with analysis and recommendations for bridge foundation, MSE Wall and roadway soil survey. Also prepared TSP for Surcharge, Settlement Monitoring and Vibration Monitoring. Geotechnical recommendations also included a discussion of soil suitability, groundwater, and other site/construction considerations. During construction TSF provided sampling of soils and concrete for laboratory testing.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE a. TOTAL	b. WITH CURRENT FIRM
Francois Thomas, P.E.	Principal Engineer	21	5

15. FIRM NAME AND LOCATION *(City and State)*
TIERRA SOUTH FLORIDA, INC., West Palm Beach, Florida

16. EDUCATION *(DEGREE AND SPECIALIZATION)*
MS in Geotechnical Engineering, 1993
BS in Civil Engineering, 1991

17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Professional Engineer, Florida No. 56381

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Special Inspector 7021399, Certified Masonry Inspector, and Radiation Safety Officer

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*
Terminal 4 Improvements
Port Everglades, Florida

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2013
CONSTRUCTION *(If applicable)*:

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

☒ Check if project performed with current firm

Mr. Thomas was the Principal Engineer for the geotechnical engineering study for the improvements to Terminal 4. Improvements included 1) interior remodeling, 2) construction of internal roadway and parking lots, 3) installation of two loading bridges dockside, 4) installation of canopies at drop-off areas around Terminal 4, and 5) extending slip #2 by dredging. Additionally, 16-inch-diameter or Auger Cast-in Place (ACIP) piles were being considered to support the bridge structures, and the existing grades in parking areas were to be raised 2 to 4 feet. TSF's field work consisted of 3 Standard Penetration Test (SPT) borings, 10 power augers, and 2 Borel-Hole Permeability (BHP) tests. Provided recommendations regarding site preparation (stripping, compaction, surcharging vs. biaxial geogrid and geotextile, etc.), trench excavations, trench backfill, foundation design for buildings, foundation design alternatives for canopies (shallow/mat foundations vs. deep foundation/ACIP pile design), passenger loading bridge foundation including ACIP pile design criteria, cofferdam soil parameters, flexible pavement design for parking lot/driveway areas, and other construction considerations.

b.

(1) TITLE AND LOCATION *(City and State)*
US-1/SR-5 Low Level Bridges Replacement from North of SR 706 at Coastal Way to South of CR A1A (Ocean Boulevard), Jupiter, Florida

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2012
CONSTRUCTION *(If applicable)*:

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

☒ Check if project performed with current firm

Mr. Thomas was the geotechnical engineer for the geotechnical engineering study for the US-1/SR-5 Low Level Bridges Replacement from North of SR 706 at Coastal Way to South of CR A1A (Ocean Boulevard) in Jupiter, Florida. Performed percolation tests and preliminary borings for bridges and walls, to assist with the design-build criteria package. Providing quality control and testing services during construction, including soils and concrete testing. Providing laboratory testing, density log book and QC Manager services for compliance with FDOT and project specifications. Providing vibration monitoring services during sheet, steel, test and production pile driving of the Low Level Bridges. Performed pile capacity analysis for the trestle piles installed for crane support.

c.

(1) TITLE AND LOCATION *(City and State)*
SR 710 Big John Monahan Bridge Replacement from SW Trail Drive to east of the SR 76 Connector Ramps (Design-Build Project), Martin County, Florida

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2013
CONSTRUCTION *(If applicable)*:

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

☒ Check if project performed with current firm

Mr. Thomas was the geotechnical engineer for the geotechnical study for bridge, walls, roadway, and drainage improvements and provided recommendations. The project includes replacement of the SR-710 Big John Monahan Bridge along with associated roadway improvements from SW Trail Drive to east of the SR 76 Connector Ramps in Martin County, Florida. Also provided laboratory services including proctors, sieve analysis, LBR test, and concrete compressive tests. Provided concrete, soils, and pile driving inspections. Also currently provided vibration monitoring for the CSX railroad tracks during pile driving.

d.

(1) TITLE AND LOCATION *(City and State)*
Congress Avenue from Lantana Road to South of Melaleuca Lane
Palm Beach County, Florida

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2012
CONSTRUCTION *(If applicable)*:

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

☒ Check if project performed with current firm

Mr. Thomas was the principal in charge of the verification testing services for Congress Avenue from Lantana Road to South of Melaleuca Lane. Laboratory testing services consisted of Proctors, LBRs, sieve analysis, carbonate content, concrete compressive strength tests. Also performed asphalt testing in TSF's in-house laboratory which included specific gravity, asphalt content, and asphalt density. Provided FDOT certified inspectors to perform verification testing on soils for embankment, drainage, subgrade, and base; testing on concrete for bridge widening including bents, decks, columns, and drilled shafts; pile driving inspection for bridge; drilled shaft inspection for mast arms; and paving inspector to observe placement of first and second lifts, repairs. The inspector also identified random core locations, assisted with cutting cores and transported to our laboratory for testing.

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	Caroline Avenue Crossing over L.W.D.D. L-3 Canal Bridge Replacement Palm Beach County, Florida	PROFESSIONAL SERVICES 2011	CONSTRUCTION *(if applicable)*
e.	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Mr. Thomas was the geotechnical engineer for the geotechnical study for the installation of pipe culvert over the canal at the intersection of Caroline Avenue and Belvedere Road. Field work included Standard Penetration Test (SPT) borings. Provided summary of subsurface/groundwater conditions. Also provided geotechnical recommendations for site preparation, foundation design, and soil parameters. In 2011 Performed additional BoreHole Permeability (BHP) Tests and provided test results.	☒ Check if project performed with current firm	

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: 5

21. TITLE AND LOCATION *(City and State)*
Design-Build Rehabilitation of West Bridge and Bear Cut Bridge on Rickenbacker Causeway, Miami-Dade County, Florida

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2013	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Hardesty & Hanover, LLP	Mr. Timothy Noles, P.E.	(954) 835-9119

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Performed geotechnical engineering study for the bridge widening. The project included constructing French drains on the east and west sides of the bridge. Field work completed included 43 Standard Penetration Test (SPT) borings, 4 Borehole Permeability (BHP) tests, and rock corings. Performed pile capacity analysis and prepared soil parameters and providing geotechnical engineering recommendations. Additionally performed studies to determine the length and pile capacity of the existing bridge (unknown foundation study).

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	Tierra South Florida, Inc.	West Palm Beach, FL	Geotechnical Engineering
b.			
c.			
d.			

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: 1

21. TITLE AND LOCATION *(City and State)*
Ocean Avenue Bridge
Palm Beach County, Florida

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
On-going	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
URS	Mr. Luis Costa, P.E.	(561) 862-1117

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Performed a preliminary geotechnical study to assist the design team in preparing a conceptual design and developing a preferred alternative for proposed improvements. Provided geotechnical report with analysis and recommendations for alternative bridge/tunnel design options, which included: replacement with a movable bridge, replacement with a fixed bridge, replacement with a tunnel, rehabilitation and repair of the existing bridge. Discussed tunnel design and construction requirements, i.e. Tunnel Boring Machine (TBM), open-pit construction at end ramps, and safety factors regarding uplift force due to buoyancy. Discussed utilizing either Pre-stressed Pre-Cast Square Concrete (PPSC) piles or drilled shafts and performed axial analyses.

Performed verification testing on soils for embankment, drainage, subgrade, and base. Performed testing on concrete for bridge widening including bents, decks, columns, and drilled shafts. Provided pile driving inspection for bridge, drilled shaft inspection for mast arms, and paving inspection.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	Tierra South Florida, Inc.	West Palm Beach, FL	Geotechnical Engineering & Material Testing
b.			
c.			
d.			

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: 2

21. TITLE AND LOCATION *(City and State)*
Bridge over FPL Canal Discharge at Port Everglades
Broward County, Florida

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2011	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Port Everglades	Mr. John Foglesong	(954)468-0142

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Provided geotechnical engineering services for the construction of a bridge over the FPL Discharge Canal, associated embankments/approach on either side of the canal, and a roadway that leads south of the bridge to the South Port in Port Everglades, Florida. Field work included Standard Penetration Test (SPT) borings at the proposed bridge end bent locations, in the canal, and for the proposed embankment/approach, auger borings for the proposed roadway, and Borehole Permeability (BHP) tests along the project alignment. Also provided quality control during construction for the new bridge over the FPL Canal Discharge in Port Everglades, Florida. Observed the installation of pre-cast piles for the PDA testing, provided all concrete testing for the bridge construction. Monitored the stabilizing of organic soils (with the use of cement admixtures and mixing) under the proposed bridge approach (2 sides) and performed density testing on embankment, MSE walls, utility backfill, stabilized subgrade, base. Also observed asphalt placement during production, verified mix design for compliance, selected asphalt core locations for testing, monitored placement of prime and tack coats, as well as roller patterns, temperature and thickness during placement.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	Tierra South Florida, Inc.	West Palm Beach, FL	Geotechnical Engineering and Quality Control Services
b.			
c.			
d.			
e.			
f.			

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: 3

21. TITLE AND LOCATION *(City and State)*
Flagler Memorial Bridge Replacement
Palm Beach County, Florida

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2012	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Kimley-Horn & Associates, Inc.	Mr. Gary Ratay, P.E.	(954) 535-5100

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The Flagler Memorial Bascule (moveable span) Bridge Replacement Design/Build Project consisted of complete replacement of the existing bridge with a new four-lane divided bridge. The new bridge includes two 12-foot wide travel lanes in each direction, an eight-foot wide shoulder on each side, and a 15.5-foot median. There will also be an eight-foot wide sidewalk on each side. The new bridge will be supported by drilled and poured concrete shafts. Other related improvements include new storm water drainage, new signage and pavement markings, and new traffic signals. The new bridge will also feature four pedestrian outlooks and a new tender house, decorative roadway lighting, and LED lighting beneath the bridge. Performed geotechnical study for the potential replacement of the existing Flagler Memorial Bridge over Intracoastal Water Way in Palm Beach County, Florida. The existing Bascule bridge was supported on precast concrete pile foundation system and the new bridge was to be located just south of the existing bridge. Seawall/bulkhead was to be required at both ends of the proposed new bridge. Field work included Standard Penetration Test (SPT) borings. The SPT borings were drilled using truck and barge mounted CME-45/B-57 drill rigs, and mud rotary procedures. Bridge borings were drilled generally to a depth 100 feet below existing grades/mudline. Provided geotechnical report which identified the general subsurface stratigraphy and provided geotechnical recommendations.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	Tierra South Florida, Inc.	West Palm Beach, FL	Geotechnical Engineering
b.			
c.			
d.			
e.			
f.			

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: 4

21. TITLE AND LOCATION *(City and State)*
Spangler Road Bypass at Port Everglades
Broward County, Florida

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2010	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Craven Thompson & Associates	Mr. Thomas McDonald	(954) 739-6400

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Performed a geotechnical engineering study for the construction of two bridges over Spangler Road, associated embankments/approach on either side of the bridges, security plaza, and roadway improvements on Eisenhower Boulevard. Field work included 14 Standard Penetration Test (SPT) borings. Provided geotechnical recommendations for bridge to support by a prestressed precast pile foundation system or an Auger Cast-in-Place (ACIP) pile foundation system. Provided design criteria, installation recommendations, and other considerations for both driven piles and ACIP piles so that the appropriate foundation system could be chosen depending on cost and feasibility. Also provided engineering recommendations for embankment/approach design options as well as geotechnical engineering recommendations for on-grade roadway widening.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	Tierra South Florida, Inc.	West Palm Beach, FL	Geotechnical Engineering
b.			
c.			
d.			
e.			
f.			

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: 6

21. TITLE AND LOCATION *(City and State)*
SFRC Bascule Bridge over the South Fork of the New River
Broward County, Florida

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2013	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Jacobs Engineering	Ms. Nandita Kaundinya, P.E.	(954) 246-1234

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Performed a geotechnical engineering study for the proposed replacement of about 1.25 miles of South Florida Rail Corridor Bascule Bridge over the New River in Broward County. The project extends from the overpass of Davie Boulevard to the overpass of SR84. Scope of services includes layout, coordination, performing borings on land and water, foundation analysis including piles and drilled shafts, and provided geotechnical recommendations. The proposed bridge structure is very close to the existing structure. Evaluated and analyzed several options including H-piles to brace existing foundation. A part of the proposed track traverses over organic soils. Evaluated various soil improvement options for the proposed track. Provided soil parameters for earth retention options to support the existing track during construction.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	Tierra South Florida, Inc.	West Palm Beach, FL	Geotechnical Engineering
b.			
c.			
d.			
e.			
f.			

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: 7

21. TITLE AND LOCATION *(City and State)*
Hatton Highway Bridge Over PDD Main Canal 2
Palm Beach County, Florida

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2013	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
R.J. Behar and Company, Inc.	Mr. Sean O'Keefe, P.E.	(561) 333-7000

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

TSF performed a geotechnical engineering study for the bridge replacement over Canal 2, associated MSE walls, and roadway widening of Hatton Highway to the north and south of the new bridge. The purpose of this study was to provide Geotechnical (i.e. soils and groundwater) input to the design team to assist in evaluation of the merits of the proposed bridge replacement and MSE Walls. Performed a Geotechnical field study that included a total of four (4) Standard Penetration Test (SPT) borings drilled to a depth of 75 feet below the existing grade for the bridge replacement, and a total of six (6) SPT borings drilled to 40 feet deep for the proposed MSE walls. Also obtained soil sampled at the bottom of the canal for scour analysis. Laboratory testing consisted of testing to establish soil properties, including corrosion tests. Performed pile capacity analyses, prepared soil parameters for FV-pier analysis, and conducted global stability and settlement analysis for MSE walls. Provided geotechnical recommendations for bridge foundation as well as MSE walls.

Also provided Roadway Soil Survey Report for the Hatton Highway Bridge Approach Widening. The existing roadway (Hatton Highway) consists of a two-lane rural road facility with mostly grass shoulders. Field work for the roadway widening included 13 auger borings. Also performed limited laboratory testing to establish soil properties. Provided report detailing subsurface conditions/soil strata and groundwater conditions. Also provided geotechnical recommendations for site preparations, removal of organics, excavations, temporary side slopes, pavement design considerations, and on-site soil suitability.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	Tierra South Florida, Inc.	West Palm Beach, FL	Geotechnical Engineering
b.			
c.			
d.			
e.			
f.			

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
Raj Krishnasamy, P.E.	Principal Engineer	X	X	X	X	X	X	X			
Francois Thomas, P.E.	Principal Engineer	X	X	X		X	X				

29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Ocean Avenue Bridge Palm Beach County, Florida	6	SFRC Bascule Bridge over the South Fork of the New River Broward County, Florida
2	Bridge over FPL Canal Discharge at Port Everglades Broward County, Florida	7	Hatton Highway Bridge Over PDD Main Canal 2 Palm Beach County, Florida
3	Flagler Memorial Bridge Replacement Palm Beach County, Florida	8	
4	Spangler Road Bypass at Port Everglades Broward County, Florida	9	
5	Design-Build Rehabilitation of West Bridge and Bear Cut Bridge on Rickenbacker Causeway, Miami-Dade County, Florida	10	

H. ADDITIONAL INFORMATION

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

Company Profile

Tierra South Florida, Inc. is a multi-disciplinary geotechnical, materials engineering and inspection firm, offering professional engineering and associated consulting services to both the public and private sectors. The primary service areas are:

1. Geotechnical Engineering
2. Field and laboratory construction materials engineering inspection and testing
3. Threshold/Special Inspections

The geotechnical and materials engineering services provide clients with the comprehensive range of siting, planning, design, construction and quality control disciplines required for major construction projects.

Mr. Raj Krishnasamy, P.E. qualifies as a minority by Federal Guidelines. Mr. Krishnasamy is a licensed Engineer with 25 years of experience in geotechnical, material engineering and inspection services.

Geotechnical Engineering

Tierra South Florida can provide a complete range of geotechnical engineering services. These services include site assessments, planning, field and laboratory investigations, design specifications and recommendations, quality control, instrumentation and performance studies. Applications are for all types of buildings, airport facilities, transportation systems, landfills, dams, and other civil and private projects. Tierra South Florida's primary market is minority business set aside by City, County, State and Federal agencies.

Construction Materials Engineering and Testing

Tierra South Florida offers materials engineering, testing and inspection services applicable to the governmental, construction and manufacturing industries. Tierra South Florida will evaluate and then develop recommendations regarding both existing structures and new construction. During construction, monitoring and quality control services will cover every phase of construction and all materials used.

Laboratory Facilities

Tierra South Florida operates its own laboratory facilities in order to better meet the needs of its clients. This laboratory provides specialized testing services associated with geotechnical, engineering, and construction materials. Tierra South Florida's laboratory facilities are designed and operated to provide fast, reliable information to assure the meeting of client's needs. The geotechnical operations of Tierra South Florida are supported by state-of-the-art soil testing capabilities. Tierra South Florida has a laboratory for the testing of non-contaminated soils and materials. The trained and certified laboratory staff will routinely perform physical properties testing of soil, rock, concrete, steel, asphalt, and composite building materials. These testing services are performed in support of all project phases, including site investigations and assessments, design, and construction.

Corporate and Project Management Philosophy

The Tierra South Florida organization is committed to minimizing corporate administrative control which allows both branch management and specific technical teams to take correct and timely actions to meet the objectives of their clients. Employees stress quality, responsive services in which they will take a great deal of pride. Client satisfaction with the quality of Tierra South Florida's work, past and future, will result in a large percentage of work to be performed for repeat clients.

Interaction with Regulatory Agencies

Tierra South Florida has an excellent working relationship with the Florida Department of Transportation as well as the South Florida Water Management District. When working within right of way of these agencies, Tierra South Florida will submit an application for request of work permit and obtain the proper authorization prior to proceeding with work. Tierra South Florida will then follow up with a meeting to explain the scope in detail, and notify the agency at completion.

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE

32. DATE
February 20, 2014

33. NAME AND TITLE
Raj Krishnasamy, P.E. / President, Principal Engineer

ARCHITECT ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: On A Work Task Order Basis

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME	TIERRA SOUTH FLORIDA, INC.
2b. STREET	2765 Vista Parkway, Suite 10
2c. CITY	West Palm Beach
2d. STATE	FL
2e. ZIP CODE	33411
3. YEAR ESTABLISHED	2003
4. DUNS NUMBER	829296222
5. OWNERSHIP a. TYPE	Corporation
5. OWNERSHIP b. SMALL BUSINESS STATUS	YES
6a. POINT OF CONTACT NAME AND TITLE	Raj Krishnasamy, P.E. / Principal Engineer, President
6b. TELEPHONE NUMBER	(561)687-8539
6c. E-MAIL ADDRESS	Raj@TierraSF.com
7. NAME OF FIRM *(If block 2a is a branch office)*	
8a. FORMER FIRM NAME(S) *(If any)*	
8b. YR. ESTABLISHED	
8c. DUNS NUMBER	

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) FIRM	c. No. of Employees (2) BRANCH
2	Administrative	6	6
8	CADD Technician	2	2
27	Foundation/Geotechnical Eng	5	5
56	Technician/Analyst	26	26
58	Technician/Inspector	3	3
	Other Employees	3	3
	Total	45	45

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
S05	Soils and Geologic Studies; Foundations	5
T02	Testing and Inspection Services	6

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	3
b. Non-Federal Work	5
c. Total Work	6

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000.
2. $100,000 to less than $250,000
3. $250,000 to less than $500,000
4. $500,000 to less than $1 million
5. $1 million to less than $2 million
6. $2 million to less than $5 million
7. $5 million to less than $10 million
8. $10 million to less than $25 million
9. $25 million to less than $50 million
10. $50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE	
b. DATE	February 20, 2014
c. NAME AND TITLE	Raj Krishnasamy, P.E. / President and Principal Engineer

P526029302

ACORD CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 09/06/2013

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 1-800-524-0191
Arthur J. Gallagher Risk Management Services, Inc.

200 E. Orange Ave
Suite 1350
Orlando, FL 32801
Justin Wiley

CONTACT NAME: Maura Jordan
PHONE (A/C, No, Ext): 407-963-3531 FAX (A/C, No): 407-970-3057
E-MAIL ADDRESS: Maura_Jordan@ajg.com

INSURED
Tierra South Florida, Inc.

2765 Vista Parkway, Suite 9

West Palm Beach, FL 33411

INSURER(S) AFFORDING COVERAGE	NAIC#
INSURER A: CHARTER OAK FIRE INS CO	25615
INSURER B: HANOVER AMER INS CO	36064
INSURER C: COMMERCE & INDUSTRY INS CO	19410
INSURER D: PHOENIX INS CO	25623
INSURER E: AMERICAN SAFETY INS CO	25433
INSURER F:	

COVERAGES

CERTIFICATE NUMBER: 35606565 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 INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	GENERAL LIABILITY X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY PRO-JECT LOC			66042748484	09/01/13	09/01/14	EACH OCCURRENCE	$ 1,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 300,000
							MED EXP (Any one person)	$ 5,000
							PERSONAL & ADV INJURY	$ 1,000,000
							GENERAL AGGREGATE	$ 2,000,000
							PRODUCTS - COMP/OP AGG	$ 2,000,000
								$
B	AUTOMOBILE LIABILITY X ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS HIRED AUTOS NON-OWNED AUTOS			AWJ-074773-00	09/01/13	09/01/14	COMBINED SINGLE LIMIT (Ea accident)	$ 1,000,000
							BODILY INJURY (Per person)	$
							BODILY INJURY (Per accident)	$
							PROPERTY DAMAGE (Per accident)	$
								$
C	UMBRELLA LIAB X OCCUR X EXCESS LIAB CLAIMS-MADE DED RETENTION $			BE015628722	09/01/13	09/01/14	EACH OCCURRENCE	$ 5,000,000
							AGGREGATE	$ 5,000,000
								$
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N N If yes, describe under DESCRIPTION OF OPERATIONS below		N/A	UB4A989224	09/01/13	09/01/14	X WC STATU-TORY LIMITS OTH-ER	
							E.L. EACH ACCIDENT	$ 500,000
							E.L. DISEASE - EA EMPLOYEE	$ 500,000
							E.L. DISEASE - POLICY LIMIT	$ 500,000
E	ContractorsPollutionLiability			CPL0270701304	09/01/13	09/01/14	Aggregate	2,000,000
							Each Loss	1,000,000

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

CERTIFICATE HOLDER

Proof of Insurance
Tierra South Florida, Inc.

2765 Vista Parkway, Suite 9

West Palm Beach, FL 33411

USA

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Peter Ayb

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State of Florida

Minority, Women & Florida Veteran Business Certification

Tierra South Florida, Inc.

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

12/30/2013 to 12/30/2015

DEPARTMENT OF MANAGEMENT SERVICES

Craig J. Nichols, Secretary
Florida Department of Management Services

Office of Supplier Diversity OSD State of Florida

BROWARD COUNTY FLORIDA

Office of Economic and Small Business Development

Governmental Center Annex
115 S. Andrews Avenue, Room A680 • Fort Lauderdale, Florida 33301 • 954-357-6400 • FAX 954-357-6010 • TTY 954-357-5664

This Certificate is Awarded to:

TIERRA SOUTH FLORIDA, INC.

As set forth in the Business Opportunity Act of 2004 and/or the County Business Enterprise Act of 2009, the certification requirements have been met for:

County Business Enterprise

BC – CBE – Certificate Expires: 04/19/2014

Small Business Development Manager

The Office of Economic and Small Business Development must be notified within 30 days of any material changes in the business which may affect ownership and control. Failure to do so may result in the revocation of this certificate and/or imposition of other sanctions.

A service of the Broward County Board of County Commissioners
www.broward.org/smallbusiness

PROFESSIONAL LICENSES

State of Florida

Board of Professional Engineers

Attests that

Tierra South Florida, Inc.

Has satisfied the requirements of Section 471.023, Florida Statutes. In recognition thereof, the Board of Professional Engineers hereby authorizes this firm to offer engineering services in the State of Florida in accordance with Chapter 471, Florida Statutes, and the rules of the Board.

Certificate of Authorization No. 28073

FEMC-CA-[illegible]

Witness the Seal of the Board and the Signature of the Board's duly authorized Chair

this 13 day of [illegible] 20 15

[illegible]

Exhibit

State of Florida

Board of Professional Engineers

Attests that

Tierra South Florida, Inc.

is authorized under the provisions of Section 471.023, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.

Expiration: 2/28/2015

Audit No: 228201500974

Certificate of Authorization

CA Lic. No: 28073

State of Florida

Board of Professional Engineers

Attests that

Raj Krishnasamy, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2015

Audit No: 228201504760

P.E. Lic. No: 53567

State of Florida
Department of State

I certify from the records of this office that TIERRA SOUTH FLORIDA, INC. is a corporation organized under the laws of the State of Florida, filed on October 7, 2003, effective October 17, 2003.

The document number of this corporation is P03000110144.

I further certify that said corporation has paid all fees due this office through December 31, 2014, that its most recent annual report/uniform business report was filed on January 3, 2014, and its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Third day of January, 2014

Ken Detzner

Secretary of State

Authentication ID: CC0325447345

To authenticate this certificate,visit the following site,enter this ID, and then follow the instructions displayed.

https://efile.sunbiz.org/certauthver.html

Client#: 1051519

TIERRSOU

ACORD™

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 9/03/2013

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
USI Insurance Services, LLC
1715 N. Westshore Blvd. Suite 700

Tampa, FL 33607

CONTACT NAME:
PHONE (A/C, No, Ext): 813 321-7500 FAX (A/C, No): 813 321-7525
E-MAIL ADDRESS:

INSURED
Tierra South Florida, Inc.
2765 Vista Parkway,
Suite 9
West Palm Beach, FL 33411

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Hudson Insurance Company	25054
INSURER B :	
INSURER C :	
INSURER D :	
INSURER E :	
INSURER F :	

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

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

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	GENERAL LIABILITY							
	COMMERCIAL GENERAL LIABILITY						EACH OCCURRENCE	$
	CLAIMS-MADE / OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$
							MED EXP (Any one person)	$
							PERSONAL & ADV INJURY	$
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$
	POLICY / PRO-JECT / LOC						PRODUCTS - COMP/OP AGG	$
	AUTOMOBILE LIABILITY							$
	ANY AUTO						COMBINED SINGLE LIMIT (Ea accident)	$
	ALL OWNED AUTOS / SCHEDULED AUTOS						BODILY INJURY (Per person)	$
	HIRED AUTOS / NON-OWNED AUTOS						BODILY INJURY (Per accident)	$
							PROPERTY DAMAGE (Per accident)	$
								$
	UMBRELLA LIAB / OCCUR						EACH OCCURRENCE	$
	EXCESS LIAB / CLAIMS-MADE						AGGREGATE	$
	DED / RETENTION $							$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY						WC STATU-TORY LIMITS / OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N / N/A						E.L. EACH ACCIDENT	$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$
							E.L. DISEASE - POLICY LIMIT	$
A	Professional Liability			AEE7265402	09/01/2013	09/01/2014	$1,000,000 per claim $2,000,000 annl aggr.	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)
Professional Liability coverage is written on a claims-made basis.
For Proposal Purposes

CERTIFICATE HOLDER

Tierra South Florida
2765 Vista Parkway
Suite 9
West Palm Beach, FL 33411

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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KEBEW

NON-COLLUSION STATEMENT:

By signing this offer, the vendor/contractor certifies that this offer is made independently and *free* from collusion. Vendor shall disclose below any City of Fort Lauderdale, FL officer or employee, or any relative of any such officer or employee who is an officer or director of, or has a material interest in, the vendor's business, who is in a position to influence this procurement.

Any City of Fort Lauderdale, FL officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement.

For purposes hereof, a person has a material interest if they directly or indirectly own more than 5 percent of the total assets or capital stock of any business entity, or if they otherwise stand to personally gain if the contract is awarded to this vendor.

In accordance with City of Fort Lauderdale, FL Policy and Standards Manual, 6.10.8.3,

> **3.3. City employees may not contract with the City through any corporation or business entity in which they or their immediate family members hold a controlling financial interest (e.g. ownership of five (5) percent or more).**
>
> 3.4. Immediate family members (spouse, parents and children) are also prohibited from contracting with the City subject to the same general rules.

Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City Procurement Code.

NAME	RELATIONSHIPS
N/A	

In the event the vendor does not indicate any names, the City shall interpret this to mean that the vendor has indicated that no such relationships exist.