

AGREEMENT

Between

City of Fort Lauderdale

and

Hardesty & Hanover, LLC

for

BRIDGE ENGINEERING CONSULTING SERVICES

AGREEMENT

THIS IS AN AGREEMENT made and entered into this 18 day of November 2014,
by and between:

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

and

Hardesty & Hanover, LLC, a New York limited
liability company authorized to do business in
the State of Florida, (hereinafter referred to as
"CONSULTANT").

WHEREAS, the City Commission of the City of Fort Lauderdale, Florida at its
meeting of November 18, 2014 authorized by motion the execution of this
Agreement between CONSULTANT and CITY authorizing the performance of Bridge
Engineering Consulting Services, RFQ No.246-11376 (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 November 18, 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: Hardesty & Hanover, LLC 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: Bridge 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%, the CITY shall, at its sole discretion, have any of the following options: (1) Give Written approval of an increase in the Construction Cost Budget; (2) reject all bids or proposals, authorize rebidding, or (if permissible) authorize a renegotiation of the Project within a reasonable time; (3) abandon the Project and terminate the CONSULTANT's services for the Project covered by this Agreement without further liability to the CITY; (4) select as many Deductive Alternatives as may be necessary to bring the award within the Construction Cost Budget; or (5) cooperate with the Consultant in reducing the Project scope, construction schedule, and sequence of Work, as may be required to reduce the Construction Cost Budget. In the event the CITY elects to reduce the Project Scope, the CONSULTANT, at no additional cost to the CITY, shall meet with the CITY's representatives and work to provide such revisions to the Construction Documents, and provide rebidding services, as many times as reasonably required by the CITY, as a basic Service, with no additional cost to the CITY, in

order to bring the bids within ten percent (10%) of the Construction Cost Budget. 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 the 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 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 as to 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 on 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:

Marlin Engineering, Inc. – Miami, Florida
Tierra South Florida, Inc. – West Palm Beach, Florida
Intera Incorporated – Austin, Texas

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 are experienced and fully qualified and are properly licensed pursuant to the applicable laws, rules and regulations to perform such services. Consultant warrants that it shall be responsible for the technical accuracy of its work.

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 related to the scope of work.

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 negligent 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 \$400,000

- 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:

- A. Suspend the Agreement until such time as the new or renewed certificates are received by the CITY.
- B. The CITY may, at its sole discretion, terminate the Agreement for cause and seek damages from the CONSULTANT in conjunction with the violation of the terms and conditions of the Agreement.

11.12 REPRESENTATIVE OF CITY AND CONSULTANT

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 A 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: Timothy Noles, P.E.
Hardesty & Hanover, LLC
1000 Sawgrass Corporate Parkway
Suite 544
Sunrise, FL 33323

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 (2014), 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 (2014), 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 (2014), 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

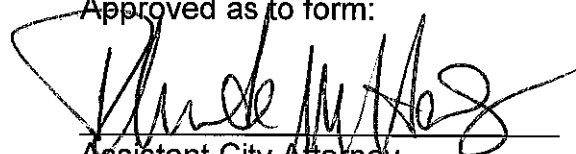
By 
LEE R. FELDMAN, City Manager

(CORPORATE SEAL)

ATTEST:

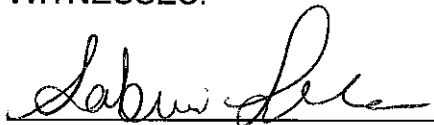

JONDA K. JOSEPH
City Clerk

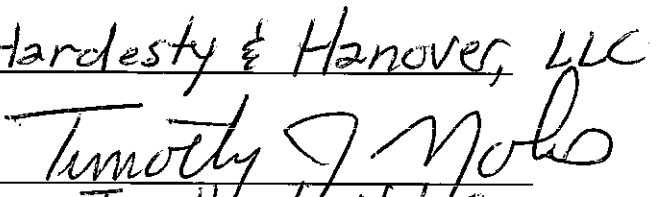
Approved as to form:


Assistant City Attorney

CONSULTANT

WITNESSES:


SABRIWA SANCHEZ
(Witness print name)

Hardesty & Hanover, LLC
By 
Name: Timothy J. Nolas
Title: Principal

Wanda Mark

WANDA MARK
(Witness print name)

ATTEST:

By Sabrina R. Sanchez

(CORPORATE SEAL)

STATE OF Florida :
COUNTY OF BROWARD :

The foregoing instrument was acknowledged before me this 14th day of October, 2014, by Timothy J Noles as Principal of Hardesty & Hanover, LLC. He is ☒ personally known to me or ☐ has produced _____ as identification.

(SEAL)

Sabrina R. Sanchez

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

SABRINA R. SANCHEZ
Name of Notary Typed, Printed or Stamped

My Commission Expires: 6-22-2015

EE092064
Commission Number

EXHIBIT "A"
SCOPE OF SERVICES
BRIDGE ENGINEERING SERVICES

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

Provide structural bridge engineering services for City of Fort Lauderdale owned bridges. The projects include but are not limited to designing new bridges with complete replacement phasing stages, designing modifications to existing bridges and utility pipeline attachments.

Provide full structural bridge engineering services, including but not limited to: design, engineering, analysis, evaluation, load rating, preparation of construction documents, permitting, bidding, bid evaluation, cost estimation and construction administration.

The initial term of the continuing contract will be for two (2) years. CITY reserves the right to renew the contract for two (2) subsequent one-year terms based on satisfactory performance and mutual agreement. Consultant shall provide full Structural professional engineering services to CITY using in-house staff with the assistance of sub-consultants as needed.

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 successful firm may propose to utilize sub-consultants for technical assistance necessary to develop work if needed.

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 successful firm must have a complete understanding of the Local Agency Program process (LAP), and FDOT design specifications and construction Standards.

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

- Structural analysis, design, development and creation of construction documents for municipal bridge projects.
- Perform structural design, analysis, evaluation, and inspection of concrete, steel, metal, timber and masonry structures in accordance with all relevant Building Codes.
- Design of foundation systems for various structures including concrete spread footings, wall footings, mat foundation, auger cast piles, steel piles, and precast concrete piles.

- Perform evaluation, analysis and recommendations for soil strengthening and remediation.
- Conduct field inspections of deteriorated bridge structural elements and prepare designs and specifications for appropriate repairs and replacements.
- Evaluate, inspect, analyze and design concrete repairs, identify and propose materials and recommend rehabilitation methods for damaged bridges as per Florida Department of Transportation (FDOT) specifications.
- Provide structural design and analysis services per Florida State Statute FS 471.
- Provide cost estimates for proposed design and improvement at various stages (30% complete, 60% complete, 90% complete, and 100% complete) of a project.

EXHIBIT "B"**HOURLY BILLING RATES FOR TASK ORDERS**

Company	Discipline/Role	Loaded Rate
Hardesty & Hanover, LLC	Chief Structural Engineer	\$175.00
Hardesty & Hanover, LLC	Project Manager	\$160.00
Hardesty & Hanover, LLC	Senior Structural Engineer - Task Leader	\$160.00
Hardesty & Hanover, LLC	Senior Structural Designer	\$126.27
Hardesty & Hanover, LLC	Structural Engineering Intern	\$80.00
Hardesty & Hanover, LLC	CADD/Computer Technician	\$75.00

Marlin Engineering, Inc.
Rate Sheet

Company	Discipline/Role	Loaded Rate
Marlin Engineering, Inc.	Chief Engineer	\$150.00
Marlin Engineering, Inc.	Project Manager	\$128.24
Marlin Engineering, Inc.	CBI (Commercial Diver)	\$99.06
Marlin Engineering, Inc.	(Assistant Inspector/Diver)	\$85.15
Marlin Engineering, Inc.	Diver Tender	\$53.42
Marlin Engineering, Inc.	Video System Tender	\$31.22
Marlin Engineering, Inc.	Clerical	\$31.22
Marlin Engineering, Inc.	Boat Fee	\$250.00

Intera, Inc.
Rate Sheet

Company	Discipline/Role	Loaded Rate
Intera, Inc.	Chief Engineer	\$ 175.00
Intera, Inc.	Engineer	\$ 100.03
Intera, Inc.	Engineer Intern	\$ 80.20
Intera, Inc.	Project Engineer	\$ 99.00
Intera, Inc.	Project Manager	\$ 151.50
Intera, Inc.	Secretary/Clerical	\$ 50.78
Intera, Inc.	Senior Engineer	\$ 123.50

Tierra South FL, Inc.
Rate Sheet

Company	Discipline/Role	Loaded Rate
	<u>Geotechnical Engineering/Inspections</u>	
Tierra South FL, Inc.	Project Manager	\$165.00
Tierra South FL, Inc.	Principal Engineer	\$140.00
Tierra South FL, Inc.	Senior Engineer	\$100.00
Tierra South FL, Inc.	Project Engineer	\$85.00
Tierra South FL, Inc.	Senior Technician	\$65.00
Tierra South FL, Inc.	CADD	\$55.00
Tierra South FL, Inc.	Asphalt Plant Inspection	\$60.00
Tierra South FL, Inc.	Asphalt Field Inspection	\$60.00
Tierra South FL, Inc.	Technician - Soil Densities	\$50 - Test & Report
Tierra South FL, Inc.	Technican - Concrete Testing	\$50 - Test & Report
Tierra South FL, Inc.	Technican - Pile Driving Inspection	\$65 - Test & report
Tierra South FL, Inc.	Technican - Pre-stress Yard Inspection	\$65 - Test & report
Tierra South FL, Inc.	<u>Field Investigation</u>	
Tierra South FL, Inc.	Mobilization of Men and Equipment	
Tierra South FL, Inc.	Truck-Mounted Equipment	\$350.00
Tierra South FL, Inc.	Specialized ATV/Mudbug	\$720.00
Tierra South FL, Inc.	Support Vehicle	\$150.00
Tierra South FL, Inc.	Barge-Mounted Equipment	\$8,500.00
Tierra South FL, Inc.	Crane Rental	\$250.00
Tierra South FL, Inc.	Support Boat	\$500.00
Tierra South FL, Inc.	Standard Penetration Test Borings	
Tierra South FL, Inc.	(By Truck-Mounted Equipment)	
Tierra South FL, Inc.	Land: 0 - 50 ft depth	\$12.00
Tierra South FL, Inc.	50 - 100 ft depth	\$14.00
Tierra South FL, Inc.	Grout-Seal Boreholes	
Tierra South FL, Inc.	(By Truck-Mounted Equipment)	
Tierra South FL, Inc.	Land: 0 - 50 ft depth	\$4.50
Tierra South FL, Inc.	50 - 100 ft depth	\$5.50
Tierra South FL, Inc.	Casing Allowance	
Tierra South FL, Inc.	(By Truck-Mounted Equipment)	
Tierra South FL, Inc.	Land: 0 - 50 ft depth	\$8.00
Tierra South FL, Inc.	50 - 100 ft depth	\$10.00
Tierra South FL, Inc.	Standard Penetration Test Borings	
Tierra South FL, Inc.	(By Barge-Mounted Equipment)	

Tierra South FL, Inc.	Water: 0 - 50 ft depth	\$20.00
Tierra South FL, Inc.	50 - 100 ft depth	\$27.00
Tierra South FL, Inc.	Grout-Seal Boreholes	
Tierra South FL, Inc.	(By Barge-Mounted Equipment)	
Tierra South FL, Inc.	Water: 0 - 50 ft depth	\$9.00
Tierra South FL, Inc.	50 - 100 ft depth	\$11.00
Tierra South FL, Inc.	Casing Allowance	
Tierra South FL, Inc.	(By Barge-Mounted Equipment)	
Tierra South FL, Inc.	Water: 0 - 50 ft depth	\$14.00
Tierra South FL, Inc.	50 - 100 ft depth	\$17.00
Tierra South FL, Inc.	Rock Coring (Truck)	\$65.00
Tierra South FL, Inc.	Rock Coring (Barge)	\$80.00
Tierra South FL, Inc.	Field Permeability Tests	\$300.00
Tierra South FL, Inc.	Pavement Cores, Asphalt	\$95.00
Tierra South FL, Inc.	Pavement Cores, Concrete	\$125.00
Tierra South FL, Inc.	MOT	\$1,200.00
Tierra South FL, Inc.	<u>Laboratory Testing</u>	
Tierra South FL, Inc.	Natural Moisture Content Tests	\$10.00
Tierra South FL, Inc.	Grain-Size Analysis - Full Gradation	\$65.00
Tierra South FL, Inc.	Grain-Size Analysis - Single Sieve	\$35.00
Tierra South FL, Inc.	Organic Content Tests	\$35.00
Tierra South FL, Inc.	Atterberg Limit Tests	\$75.00
Tierra South FL, Inc.	Field CBR	\$600.00
Tierra South FL, Inc.	Lab CBR	\$250.00
Tierra South FL, Inc.	LBR	\$275.00
Tierra South FL, Inc.	Rock compression test	\$125.00
Tierra South FL, Inc.	Split tension test	\$150.00
Tierra South FL, Inc.	Grain-Size with Hydrometer	\$115.00
Tierra South FL, Inc.	Proctor Test a) Modified	\$100.00
Tierra South FL, Inc.	b) Standard	\$100.00
Tierra South FL, Inc.	Bitumen Extraction	\$150.00
Tierra South FL, Inc.	Bitumen Gradation	\$150.00

City of Fort Lauderdale
RFQ No. 246-11376

EXHIBIT B

A Continuing Contract for
**Bridge Engineering
Consulting Services**

Submitted by



February 25, 2014





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Appendix A – Required Forms

Appendix B – Standard Form 330

Appendix C – Licenses & Certificates



2. Proposal Letter / Letter of Interest / Proposal Signature Form

2.1- Proposal Letter/Letter of Interest

City of Fort Lauderdale, City Hall
Division of Procurement Services
100 N. Andrews Avenue, Room 619
Fort Lauderdale, FL 33301

RE: City of Fort Lauderdale RFQ #246-11376
Continuing Contract for Bridge Engineering Consulting Services

Dear Mr. Hemphill:

Hardesty & Hanover, LLC (H&H), is most interested in providing Bridge Engineering Consulting Services for the City of Fort Lauderdale. H&H has recent experience with Broward County, Miami-Dade County, Lee County, FDOT D1, FDOT D4, FDOT D6, FDOT D7, providing bridge and roadway engineering design services on an on-call basis. This recent experience affords us the background and expertise to ensure excellent service for this project.

To address the varying types of assignments the H&H Team consists of experts that include all anticipated skill sets.

The H&H Team has developed a customized technical and managerial approach to this Task Order type project. Thus, we are prepared for assignments in the areas of bridge design, bridge rehabilitation and auxiliary structures. Our tailored approach includes a plan for coordination with our sub-consultants, the City, as well as other agencies and public stakeholders.

Strongest In-House Areas of Specialization and Experience:

H&H has been qualified by the FDOT Central Office to provide the following engineering services which are pertinent to this RFQ:

3.1 Minor Highway Design	5.2 Movable Bridge Inspection
3.2 Major Highway Design	5.3 Complex Bridge Inspection
3.3 Complex Highway Design	5.4 Bridge Load Rating
4.1.1 Miscellaneous Structures	7.1 Signing, Pavement Marking and Channelization
4.1.2 Minor Bridge Design	7.2 Lighting
4.2.2 Major Bridge Design-Steel	7.3 Signalization
4.3.2 Complex Bridge Design - Steel	9.4.1 Standard Foundation Studies
4.4 Movable Span Bridge Design	10.1 Roadway Construction Engineering Inspection
5.1 Conventional Bridge Inspection	10.3 Construction Materials Inspection



Responsible Office & Location:

Our Broward County office, located at 1000 Sawgrass Corporate Parkway, Ste. 544, Sunrise, Florida 33323 will be our Responsible Office for this project. Mr. Henri Sinson, P.E. (e-mail: hsinson@hardesty-hanover.com; Phone 954-835-9119; Fax 954-835-9130) will be the Team's point of contact.

H&H is extremely qualified to provide engineering services through our full service bridge engineering capabilities, with expertise in all types of fixed and movable bridges including complex steel and concrete bridges. Our staff will ensure that all of the City's bridge engineering needs are met.

Characteristically, "on-call" contracts consist of multiple requests during the contract period with each request being important and critical, especially when prompted for an emergency response such as the hurricanes of 2004 and 2005. H&H responded to emergencies as a result of the hurricanes for FDOT District 4, FDOT District 6, Dade and Broward County. Therefore, the management approach to this project requires each assignment to be handled expeditiously and efficiently. Each project will be assigned an engineering staff, schedule and budget which are led by a single Project Manager who will break down the project into tasks which will be assigned to Project Engineers with the appropriate levels of experience for efficiency and timeliness.

H&H has a team with expertise in bridge and roadway design, construction, and trouble-shooting malfunctioning systems in each of the necessary engineering disciplines (structural, mechanical and electrical) to respond to emergency or time critical situations.

The team is led by our project manager, Henri Sinson, PE, who has strong technical and management capabilities. He will serve as the focal point of communication with the Public Works Staff. Each task work order will be assigned a Task Project Manager/Lead Designer working under Mr. Sinson's supervision. These Task Team Leaders are licensed, highly trained individuals with many years of experience in project management in all types of bridge engineering projects. Mr. Sinson will coordinate with the project team to ensure responsiveness and efficiency. Mr. Sinson has fulfilled the role of Project Manager with H&H for several successful Agency on-call contracts.

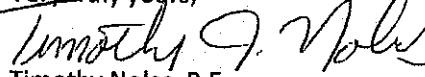
H&H relies on the knowledge and the depth of our experienced personnel to ensure the quality of our engineering services. The Quality Control and Assurance Plan is tailored to meet the specific requirements of each project, and is based on each client's standards, the specific project requirements, and H&H's high standards for excellence.

Summary

H&H is most qualified to provide engineering services for this project due to the following reasons:

- Broward County office provides key local expertise
- Multi-disciplined staff is qualified to provide expertise in all types of bridge engineering.
- H&H's past client history proves our capability to provide immediate/emergency response with a multi-disciplined staff
- Past experience in managing multiple project assignments with previous On-Call and Plan Review type projects with FDOT District 4, District 6, Broward County, Lee County, and Miami-Dade County, successfully managing current on-call contracts with FDOT D1 & FDOT D7
- Expertise in Florida's bridges.

Very truly yours,



Timothy Noles, P.E.

Principal



2.2 - Proposal Signature Form

Kindly refer to Appendix A, Required Forms, for the Proposal Signature Form.



3. Qualifications of the Firm

3.1- Company Initiatives and Structure

Hardesty & Hanover, LLC (H&H) is a full-service infrastructure engineering firm with more than 125 years of experience steeped in solving complex engineering challenges. Consulting firms, contractors and infrastructure owners count on us when innovative design and intricate engineering solutions are required. Our specialty lies in the ability to manage the entire life cycle of engineering services and support. We employ teams of superior engineers that bring a forward thinking approach using the world's latest project management, design, and support innovations. As a result, our clients' projects are brought in on time, on budget, and are engineered to the highest standards in design, durability, safety, and aesthetic value.

We realize that every project is unique, and we make it our mission to employ design and coordination practices that take into consideration the concerns of all stakeholders, including the City's residents and business owners, motorists, pedestrians and cyclists, schools and community centers, parks and sports complexes, utility agencies, etc. When making critical design decisions, we are accustomed to always bear in mind potential impacts to the environment and the importance of maintaining the public's safety and wellbeing.

H&H is a limited liability company (LLC), with offices throughout the United States. Our local Sunrise, Florida office is located only 15 miles from City Hall, and will be the responsible office for this contract. The Sunrise office has a staff of 19 engineers, including 13 licensed professional engineers, of which five are project managers; six engineering interns; two CADD technicians; two utility coordinators; and three administrative personnel. Refer to the following table for details on our staff's areas of specialty.

Category	No. of Professional Engineers	No. of Engineering Interns
Structural	7	4
Mechanical	2	1
Electrical	1	1
Civil/Highway	3	--

3.2- SF 330 Forms and Licenses

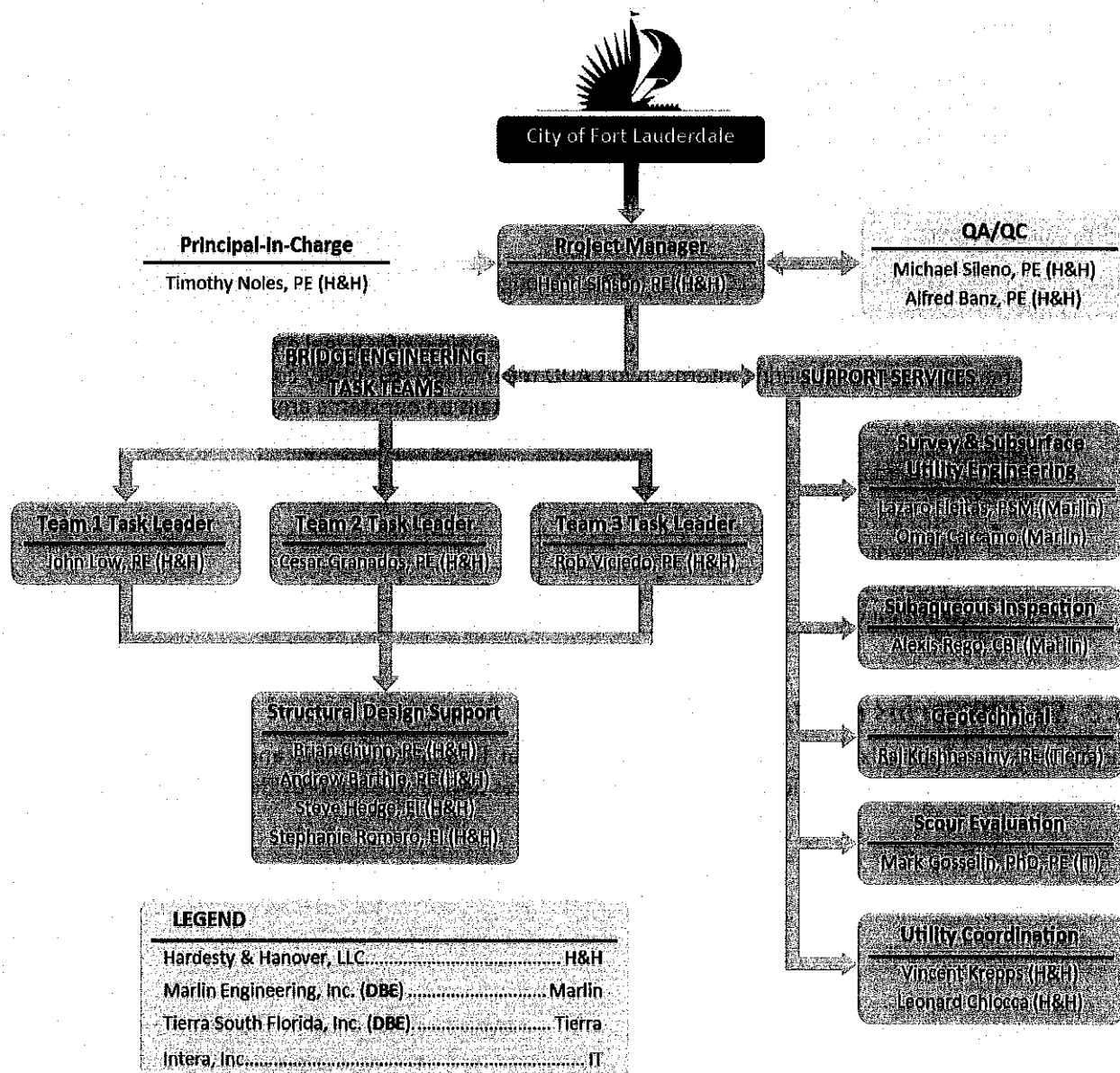
Kindly refer to Appendix B, SF 330 Forms, for additional firm qualifications and details, including technical staff experience. Individual team members' licenses have also been provided in Appendix C.



4. Qualifications of the Project Team

The organizational chart below depicts the H&H Team's depth of resources. We are proposing three highly experienced Task Team Leaders with significant project management experience with on-call contracts to lead our design efforts. The Task Team Leaders will be supported by a talented and knowledgeable group of technical staff. Our Team's redundancy in professional resources helps guarantee the highest quality deliverables, timely submittals, and ability to work on multiple assignments concurrently for the City.

Kindly refer to Appendix B, SF 330 Forms, for detailed resumes of our Team's key personnel, including their technical experience, education, and qualifications. Copies of all relevant professional licenses are also provided in Appendix C.





5. Project Manager's Experience

Below are brief summaries of our team's Project Managers' experience. Kindly refer to Section E of the SF 330 forms in Appendix B for the comprehensive experiences of each individual.

Principal-in-Charge: Timothy Noles has over **30 years of bridge engineering experience** with Hardesty & Hanover, and is licensed to practice engineering in 18 States including Florida. Mr. Noles is responsible for overseeing the Florida region in regards to business development, project management, engineering design and client satisfaction of projects of all scales which are administered by our Sunrise, Florida office. He has been responsible for the inspection, design and rehabilitation of major highway and railway bridge projects across the United States comprising of hundreds of major steel and concrete bridge structures with expertise in movable bridge engineering. Mr. Noles was the principal in charge of the rehabilitation of the 11th Ave Bridge over the North Fork of the New River for the city of Fort Lauderdale.

Project Manager: Henri Sinson, PE has managed major bridge replacement, rehabilitation and on-call bridge contracts in his **15 years with H&H**. Henri is also a structural engineer with experience in leadership of bridge projects varying from large scale movable bridges to minor bridge rehabilitation to emergency response details. Recent projects managed by Henri include:

- **Rehabilitation of SW 11th Avenue Bridge, City of Ft. Lauderdale:** Henri was the Project Manager for the construction phase of the major rehabilitation of the historic swing bridge over the North Fork of the New River
- **Gasparilla Island Swing Bridge Replacement, Gasparilla Island FL:** Henri was the Project Manager for the \$18M replacement of the historical swing bridge crossing the Gulf Intracoastal Waterway
- **FDOT District 1 Districtwide Bridge Engineering Services:** Henri is the Project Manager for the task work order driven on-call bridge engineering services. This contract includes major bridge rehabilitations in addition to small scale pushbutton repair plans and details. The consultant is also expected to provide post design and miscellaneous engineering support.
- **FDOT District 7 Districtwide Bridge Engineering Services:** Henri is the Project Manager for the task work order driven on-call bridge engineering services. This contract includes major bridge rehabilitations in addition to small scale pushbutton repair plans and details. The consultant is also expected to provide post design and miscellaneous engineering support.

With experience in new design, rehabilitation, and on-call contracts varying in scope from major to minor, Henri has the ability to plan and deliver any type of project that could occur during this contract. In addition, Henri has experience managing multiple overlapping task work orders to meet stringent schedules and budgets.



Task Team #1 Leader: Mr. Low has been employed with Hardesty & Hanover since 2005. A Structural Engineer with **31 years of experience** in functional, planning, preliminary and detail design, Mr. Low has experience conceiving innovative and functional structural concepts and designing an extensive variety of structure types including fixed and movable bridges in steel, concrete and timber of simple and complex multi-span. He has managed and conducted security assessment and vulnerability studies of movable bascule bridges, feasibility and planning studies, preliminary and detail designs and preparation of Contract Packages, investigations, inspections, evaluations, load capacity, condition surveys, non-destructive testing, report preparation, financial and cost benefit analyses, bridge management/asset management and assessing residual life, Cathodic Protection Systems, including Impressed Current, Galvanic, Arc Zinc anode type and electrochemical chloride extraction, contract administration and construction inspections/ verification, quality assurance (audit/review) and forensic investigations.

Task Team #2 Leader: Mr. Cesar Granados has been a Structural Engineer with Hardesty & Hanover, LLC since August 1998. He is currently responsible for design, inspection, and preparation of plans, specifications and estimates for fixed and movable bridges. He is extremely familiar with managing technical personnel on similar task-work-order driven contracts, as well as meeting strict submittal deadlines.

Task Team #3 Leader: Mr. Roberto Viciado has been a Structural Engineer at Hardesty & Hanover, LLC since 1997. His responsibilities include design, inspection, and preparation of plans, specifications and estimates for roadway bridges. Mr. Viciado has served as a project manager and senior engineer on dozens of south Florida bridge contracts.



6. Approach to Scope of Work

Hardesty & Hanover, LLC (H&H), along with its subconsultant partners, is pleased to submit this proposal and welcomes the opportunity to provide quality bridge engineering related services to the City of Fort Lauderdale. On-Call Bridge Engineering contracts require a broad spectrum of qualifications to meet the wide variety of design services. The H&H staff selected for this project provides redundancy in many key roles. In addition, our subconsultant Marlin Engineering (Marlin), Tierra South Florida (Tierra) and Intera offer additional qualifications such as surveying, subaqueous inspection, geotechnical engineering/exploration and hydraulic/scour analysis. The H&H team brings to this project full service bridge engineering capabilities, staffing redundancy as well as multitude of On-Call Bridge Engineering experience. These key factors of the H&H Team will allow for execution of simultaneous tasks work orders, built in peer-reviews, and access to the combined experience of seasoned engineers to enhance our problem solving capabilities.

H&H is a full service bridge engineering consulting firm as shown by our FDOT Prequalification Letter shown below. Our extensive experience in bridge structures and roadway design affords us the ability to identify issues early in the design process thus yielding a quality product on schedule.

Florida Department of Transportation

BRUCE M. HOLT
GOVERNOR

605 Broward Avenue
Tallahassee, FL 32309-0001
August 21, 2013

ANASTASIOS P. PAPAGEORGIOU, P.E.
SIX HOURS

Timothy J. Hotes, P.E., Principal
HARDESTY & HANOVER, LLC
1600 Sangre de Cristo Parkway, Suite 504
Sunrise, Florida 33327

Dear Mr. Hotes:

The Florida Department of Transportation has reviewed your application 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
 - 3.2 - Major Highway Design
 - 3.3 - Controlled Access Highway Design
- Group 4 - Highway Design - Bridges
 - 4.1.1 - Miscellaneous Structures
 - 4.1.2 - Minor Bridge Design
 - 4.2.1 - Major Bridge Design - Concrete
 - 4.2.2 - Major Bridge Design - Steel
 - 4.2.3 - Major Bridge Design - Segmental
 - 4.3.2 - Complex Bridge Design - Steel
 - 4.4 - Alleviate Bored Bridge Design
- Group 5 - Bridge Inspection
 - 5.1 - Conventional Bridge Inspection
 - 5.2 - Movable Bridge Inspection
 - 5.3 - Complex Bridge Inspection
 - 5.4 - Bridge Load Rating
- Group 6 - Traffic Engineering and Operations Studies
 - 6.1 - Traffic Engineering Studies
- Group 7 - Traffic Operations Design
 - 7.1 - Signing, Pavement Marking and Channelization
 - 7.2 - Lighting
 - 7.3 - Signalization
- Group 9 - Soil Exploration, Material Testing and Foundations
 - 9.1.1 - Standard Foundation Studies
- Group 10 - Construction Engineering Inspection
 - 10.1 - Roadway Construction Engineering Inspection
 - 10.2 - Construction Materials Inspection

H&H & H, LLC



The following are examples of potential design services task work order scope items for bridge rehabilitation and replacement projects that includes corresponding relevant qualified H&H team members – H&H, Marlin, Tierra, and Intera.

- Provide qualified personnel to perform bridge structural load rating analysis of all bridge structure types – H&H
- Prepare Bridge Inspection Reports (including subaqueous inspection) with recommendations for repair, and construction cost estimate – H&H and Marlin
- Provide a Design and Right of Way Survey including utility locations – H&H and Marlin
- Provide Geotechnical Foundation Exploration and Design Services – H&H and Tierra
- Provide scour analysis and mitigation design services - Intera
- Prepare complete construction plans and specifications for bridge rehabilitation and replacement projects – H&H, Marlin and Tierra
- Prepare a Maintenance of Traffic Plan – H&H and Marlin
- Prepare Technical Special Provisions and/or Supplemental Specifications – H&H, Marlin and Tierra
- Prepare Design Documentation/Calculation Booklets – H&H, Marlin and Tierra
- Prepare Preliminary Estimates of construction cost for the final design - H&H, Marlin and Tierra
- Prepare Environmental Permit Applications – H&H and Marlin
- Notify the Department of Public Works of any Utility conflicts and coordinate relocation as necessary – H&H and Marlin
- Establish a database for review comments and bid tender analysis - H&H, Marlin and Tierra
- Prepare presentation materials for community awareness and public meetings – H&H and Marlin
- Provide Post Design/Construction Engineering and Inspection services - H&H, Marlin and Tierra

6.1 - Project Management Approach

In anticipation of multiple task orders and to show our availability we propose Project Manager Henri Sinson, PE who will serve as the primary contacts for the City Department of Public Works for tasks and services provided. Henri will have three tasks leaders - John Low, PE, Rob Vicedo, PE, and Cesar Granados, PE, in anticipation of multiple design tasks. In addition, the City will be provided with a contact list containing email and cell phone numbers of all key personnel. Our team will provide the City with accessible support 24 hours a day. We understand that the responsibilities of the City to the public do not end at 5pm and we are committed to supporting the City in meeting those responsibilities.

Each task work order will be initiated by the City. Upon notification of the initiation of the new task and its general description, our team will prepare a **Task Completion Plan** including scope of work, staffing selection, and schedule in order to provide a complete and accurate Fee Proposal. The Task Completion Plan will be based on all aspects of the project and focus on critical path items. A critical path item is one which directly affects project schedule, biddability and constructability. These critical issues will be the determining factor for staff selection.

The Project Manager, Henri Sinson is familiar with working with the City's Public Works Department, as he was the Project Manager for the successful rehabilitation of the SW 11th Ave Bridge. Henri will coordinate and control the Project Team. He will control the cost associated with the engineering and construction budgets and will keep the City informed of all aspects of the project to ensure the City's needs are met. Henri is responsible for the overall success of the project. Henri will also be in charge of day-to-day aspects of the project. As the main contact person with the City and the subconsultants Henri will be responsible for staffing, coordination, schedules, overall technical quality, as well as,



administrative duties such as billing and routine contractual obligations. H&H's highly successful projects are the result of our well trained and experienced project managers like Henri Sinson. Mr. Sinson's in-depth knowledge of the complete design process through anticipation of critical tasks in each engineering discipline is critical for successful delivery of task work orders. Henri will identify these critical tasks and make assignments accordingly to the tasks leaders that have most relevant familiarity and expertise. The Project Manager will assign the work at the appropriate stage of the project (i.e. when approvals or information is made available). This ensures the work is done efficiently without rework and/or out of scope work.

Reporting directly to the Project Manager are the Task Leaders. The Task Leader duties are divided by engineering discipline. Project staff is made up of a combination of experienced personnel. There will be structural and civil roadway engineers, all of which are located in our Sunrise, Florida Office. They are responsible for the day-to-day technical aspects of the project, performing the field inspection, analysis, and development of the plans and specifications. Each Task Leader understands the importance of communication between the engineering disciplines on a daily basis to ensure their work effort is coordinated to avoid conflicting and duplicating information in the reports and construction documents. Task Leaders report to the Project Manager to maintain project continuity, communicate status, deficiencies, problems, and the necessary changes from the original concept that may occur during the design phase.

H&H's PM techniques and style will be adaptive to the City's needs. This approach will provide efficiency and prove to be cost effective. We have assessed the risk in the scope of work and dependent project variables of budget and schedule. H&H's PM, Henri Sinson, is PSM&J trained in Earned Value Analysis (EVA) and will utilize this tool to track engineering budgets and schedules as a function of scope for each task work order.

At the onset of a task work order Henri, working with the assigned task team, will identify the key risk factors. Examples of potential risk items and solutions are as follows:

Risk Item	Solutions
Design Scope Changes	<ul style="list-style-type: none"> • Design Development Coordination Meetings with the City • Adhere to FDOT LAP Agreement Requirements (If any) • Provide Variances as needed
Permitting / Utilities (Critical Path)	<ul style="list-style-type: none"> • Identify scope impacting permitting/utilities • Early SFWMD monthly meetings • Early USACE meetings • Obtain utility design tickets early
Construction Impacts	<ul style="list-style-type: none"> • Detailed MOT planning and coordination with stakeholders • Constructability reviews to address tight urban constraints • Design measures to minimize noise and environmental impacts
Public Discontent	<ul style="list-style-type: none"> • Sensitivity to local neighborhood concerns • Awareness of special local events and planning to minimize disruption • Plan Public Involvement programs to generate public buy-in



Project Management Plan

The H&H Team goals for each task work order is to develop biddable contract plans to meet specific the detailed scope of work objectives as well as providing the City a safe, reliable and maintainable structure within the engineering and construction cost limits. Utilizing a customized Project Management Plan (PMP) will assist H&H's PM (Henri Sinson) in achieving the goal of each task work order. In addition, Mr. Sinson will make certain that commitments made in this proposal are kept.

The PMP consists of the following sections:

Control of Project Schedule: Controlling the project schedule will be accomplished using earned value analysis (EVA). Potential risk assessments and countermeasures are identified above. Critical path for these projects are often permitting and utility coordination. We will engage the permitting and utility agencies early in the process and monitor scope changes affecting permits and utilities. Tasks must be assigned so that the work is done efficiently, and not prematurely. Scheduling of personnel to come onto the job is critical so that the work is done efficiently with all the information available when the task is initiated. Scheduling is also required to ensure that the task is accomplished before a critical date. Long lead-time items must be anticipated and scheduled accordingly. We understand time is money, and our expedient schedule will ensure an efficient design process.

Scheduling for construction is also required during the design phase. Our approach is to think like a contractor in order to anticipate when the work will be accomplished including staging and MOT scheme coordination. Scheduling by the design engineer is required so that the length of the contract can be estimated and cost accurately reflected factoring the time value of construction costs. Scheduling also allows for MOT schemes to be accurately estimated. This will be especially important for projects requiring lane closures or lengthy detours.

Control of Project Budget: Engineering budget will be monitored and controlled by the Project Manager through the use of earned value analysis (EVA). There are two aspects of controlling cost for engineering projects; controlling the cost of the engineering and controlling the cost of the construction.

Controlling the cost of engineering is done through Project Management. It begins with working with the City to develop a thorough well planned scope of work in order to provide engineering services for specific tasks and accomplishment of those tasks. The Project Manager also controls costs by assigning tasks to personnel qualified to do the work efficiently and correctly. There must be a clear division of work between the consultants to ensure a coordinated effort. Coordination is essential to make sure the final product is within budget and is constructible. Controlling the cost of engineering requires allowing the City to review and comment on the work periodically ensuring the final product as envisioned is achieved.

Controlling the cost of construction is a persistent effort that occurs throughout the design process and into the construction phase. The implementation of an efficient, simple design makes the construction less costly. The H&H Team will communicate to the City construction cost estimates at each design phase submittal. This will keep the City updated on projected costs. Design changes and enhancements will be immediately communicated to the City. The City will be made aware of any costly improvements to the design, and whether these enhancements are necessary for the bridge in question.



Communication/Coordination: Coordination is accomplished through a predetermined Communication Action Plan which allows separate entities to work together in order to reach a common goal. H&H will establish a specific Communication Action Plan which provides all direct lines of contact with names, phone numbers, email address etc. Key personnel shall be available to the City with 24 hour access via cell phone and email. Coordination is primarily done through the Project Manager who will communicate with the entity requiring information so they can accomplish their work. The City needs to be informed of all communication so they are aware of the repairs and project costs. We will keep the City updated on all aspects of the inspection, design and plan development. It will be the Project Manager's function to make certain that City staff is fully aware of all aspects of the project, both technically, as well as financially, and ensure it remains on schedule to meet production dates. This will be accomplished through diligent and consistent correspondence through all phases of the project including intermediate phase submissions of task work order deliverables.

Invoicing will be integrated with the progress of each task work order and will include schedules showing the status of the task. Coordination is also necessary for community awareness. The City will be kept aware of the project so the public can be adequately informed.

6.2 - Bridge Engineering Approach

Computer Services

H&H is prepared to address a task work order that includes bridge load rating and/or analysis. We hold licenses for the following structural analysis, modeling and detailing software: MIDAS, SAP, CONSPAN, CONSYS, FB Pier, FB-Multi-Pier, Bentley REBAR, and BRIM. For three dimensional checks of interferences and clearance we also have INVENTOR software. We are also familiar with all FDOT developed Design/Analysis software available on the FDOT Structures Design Office Website. H&H also has AutoCAD 2007 expertise as required by the City's current CAD Standards. In addition H&H can develop 3D computer generated renderings which are often useful when showing concepts to the public.

Bridge Repair Tasks

Immediately after receiving a task work order assignment the Project Manager and assembled team will re-examine all available data including inspection reports, existing plans, previous load ratings. Following the evaluation of the available material a bridge inspection will be performed. The inspection will verify the extent of the findings in the reports and determine any deficiencies in need of repair. All observed deficiencies and repair recommendations will be documented in an inspection report. Prioritization and construction cost estimates will also be included in the report. Subsequently, our team approach to developing bridge repair Contract Plans is focused on biddability, constructability and cost. These objectives are accomplished through the use of carefully developed details and accurate accounting of pay items and quantities.

Emergency Repair Tasks

These are a special subset of Bridge Repair Tasks in which a bridge is suddenly rendered unusable. These tasks require the immediate response of the most experienced Team members at the bridge site in order to quickly collect data and evaluate the problem. Our first priority is to assess public safety. Subsequently, we will outline a course of action that will restore function of the bridge as quickly and safely as possible, and remediate the problem source with a repair that prevents reoccurrence of the problem.



Bridge Rehabilitation Tasks

These task work orders address the functional obsolescence and/or structural deficiency of a bridge. The entire structure must be evaluated for compliance with City and/or federal standards. Our team is extensively experienced with AASHTO LRFR load ratings including all the requirements of the State Structures Design Office and the FDOT Structures Design Guidelines. We are also familiar with load posting avoidance measures.

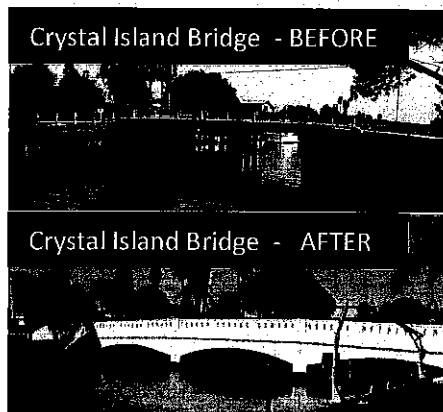
Some common bridge rehabilitation issues encountered and our approach to each are described below:

Issue	Solutions
Inadequate traffic or pedestrian barriers	We have, successfully replaced safety features such as traffic or pedestrian barriers that do not meet AASHTO standards with TL-4 barriers and standard or decorative and cost effective pedestrian rails.
Substandard sidewalk, lane or shoulder and bike lane widths	Sidewalk, lane or shoulder widths can be addressed with bridge widening or reconfiguration to meet AASHTO and/or FDOT Roadway and Traffic Design Standards, FDOT Greenbook, and MUTCD.
Deteriorating and Insufficient structural members	Strengthening solutions are implemented for both steel and concrete for cases where the load capacity of members does not meet AASHTO standards. We have successfully implemented steel repairs for badly corroded webs and stiffeners on I-95 over the Miami River and concrete spall repairs of pre-stressed slab units on NE 63rd Street over Indian Creek Canal and NE 79th Street Causeway. We are currently finishing rehabilitation design projects on the Bay Harbor Bridges in Miami and Hillsboro Inlet in Pompano Beach.
Inferior details affecting durability or maintainability	These include practical solutions that are simple to install and long lasting. In addition to addressing deficiencies, rehabilitations should also endeavor to improve existing details through durability and maintainability. Our team is aware of historically troublesome details like expansion joints and drainage systems, which are the main culprit of deteriorating structures. If modified in a rehabilitation, the life of a bridge can be extended and avoid greater costs in the future. Where simple solutions are not sufficient, we are experienced in additional life extending solutions. AASHTO has made great strides with research into Cathodic Protection and we have been fortunate enough to have participated in two recent system implementations on 63rd Street over Indian Creek Canal and Channel 2 near Craig Key, Monroe County, FL. We have just recently finished the design of a cathodic protection system for the FEC RR Bridge to Dodge Island and the Bay Harbor Bridge for the city of Bay Harbor.



Bridge Replacement Tasks:

Should a full bridge replacement be found to be the most cost effective solution, our team is exceptionally qualified to provide excellent design services. This is demonstrated by our experience with the 5th Street over the Miami River which provides us recent and pertinent experience in working in urban environments. Crystal Island Bridge (see adjacent photo) is a good example of a smaller replacement project which had enormous positive impact on appearance of area. H&H is also completing four bridge replacement projects for FDOT, Miami-Dade County, and the Gasparilla Island Bridge Authority which frees up considerable staff to work on new projects.



6.3 - Project Understanding

Many of the projects will require inspection and rehabilitation design. Our rehabilitation design will develop effective solutions to ensure the bridge design deficiencies and deterioration are eliminated. To demonstrate our project understanding below is an example Time Line of Events (A-G) which outlines the tasks necessary and how they will be accomplished in order to rehabilitate a City owned Bridge:

A. Evaluation of Existing Conditions-Bridge Inspection (2 weeks)

1. Office Preparation

H&H will review all existing information made available by the City such as plans, inspection reports, traffic data, accident and maintenance reports, etc. This review concentrates on preliminarily identifying problem areas allowing pro-active field investigation such as unusual or atypical details, severe deterioration, hazardous roadway conditions, substandard railings, etc. The office preparation minimizes the necessity for return trips to the site. This allows us to efficiently plan the inspection and concentrate on the potentially critical repair areas of the bridge.

2. Field Inspection Procedure

a. H&H will furnish maintenance and protection of traffic (MPT) as required to insure complete protection of inspection personnel, pedestrians and vehicular traffic as necessary. Since many municipal bridges are two lane roadways, flagmen will be required to maintain traffic if necessary during the inspection process. Hands-on inspection will be made using inspection access equipment through subcontractors providing a snooper, if necessary. Inspection of the substructure portions of the bridge will be accomplished by boat for bridges over waterways for those portions above water and by diving for underwater portions of the substructure units. BridgeGuard®, our concrete infrared mapping vendor will work from a boat, and will be able to map the concrete deterioration from the surface.

b. To expedite the inspection process, a two-man inspection team will be employed to inspect the bridge. The structural inspection will consist of a Team Leader (Project Structural Engineer-PE) and an Assistant Team Leader (Structural Engineer- PE).



As mentioned above, we also have BridgeGuard® on our team to assist in documenting delaminated and spalled concrete on the superstructure and substructure. BridgeGuard® is an infrared imaging service designed to safely identify and locate delamination within concrete bridge decks and substructures. The BridgeGuard® Service uses an infrared (IR) imaging sensor and sophisticated proprietary analysis software to identify the thermal indications of delamination. Delaminations interrupt the vertical conduction of heat through the concrete that occurs as temperatures rise and fall through a normal daily cycle. During periods of significant heat flow, delaminations become "visible" to the sensors used in the BridgeGuard® system. With BridgeGuard® Services, inspection personnel are not exposed to the dangers of lane closures and working within the confined lane. Following the analysis process, a trained technician exports a condition report showing the exact position and size of each delamination. The report includes the number of delaminations and compiles all delamination sizes to provide a percentage of the entire deck area that is delaminated. H&H utilized BridgeGuard® on the Bay Harbor Bridge in North Miami to locate numerous concrete deficiencies of the substructure and substructure.

c. If H&H discovers an imminently dangerous or unsafe condition during the course of the inspection that requires immediate attention or corrective action, we will contact the City first by phone and then a follow-up with a written letter report. If requested by the County, we will submit repair options and plans including a procedure to remedy the situation.

3. Structural Inspection

a. Substructure

The above Mean High Water substructure inspection (abutments, pile bents and pier fender systems) will include the following:

- Alignment check of each substructure unit
- Indications of settlement or movement
- Location and size of cracks and spalls and condition of exposed reinforcement
- Sound concrete to determine locations of delaminating or de-bonded concrete

Underwater inspection limits will extend from the mudline to the Mean High Water line. Cleaning of marine growth from underwater portions of the components to facilitate inspection will be performed. Marlin Engineering will perform subaqueous inspections for the substructure, bulkheads, and pier fenders. Structure condition, scour evaluation, Fathometer survey, and condition of the channel will be investigated and documented to provide a channel cross-section across the north and south profile of the bridge and compared with the most recent inspection to determine scour or silting action. Attention will be given to the mudline and the tidal and splash zones of the components for deterioration.

b. Bearings

The following bearing conditions will be examined during the inspection of bearings:

- Settlement or movement
- Excessive deflection or vibration of the bridge
- Loose or missing fasteners
- Worn or frozen bearing elements from rust & corrosion



c. Superstructure

Superstructure inspection will include a visual and tactile examination to determine the condition of the bridge including the following:

- Signs of wear and distress
- Buckling
- Section loss due to corrosion
- Paint condition
- Missing or deteriorated fasteners
- Concrete cracking, spalling, delaminations
- Excessive live load vibration or deflection

If portions of the bridge having incomplete or no plans, we will take sufficient measurements of all major bridge members to be able to perform complete load rating analysis. We will perform and document measurements of main member section loss as necessary to calculate as-inspected ratings.

d. Fracture Critical Members

We will evaluate the bridge to identify fracture critical members based on the Federal Highway Administration Manual FHWA-IP-86-26, "Inspection of Fracture Critical Bridge Members".

FCM inspection procedures will include:

1. 100 percent visual, hands-on inspection of tension and stress reversal areas of fracture critical members. Particular attention will be given to inspecting areas of distress caused by out-of-plane bending.
2. Initial non-destructive testing of fracture critical members with suspected cracks will be performed using dye-penetrant. Additional tests on suspect conditions observed in the field can include magnetic particle or ultrasonic testing.
3. All additional testing will be recommended to the City and will require the City authorization prior to performing work.
4. Field documentation of fracture critical members by photographs and sketches will be made.

e. Roadway/Civil/Architectural

The inspection team will be supplemented by H&H civil inspection personnel. The roadway inspection will include a visual examination of the approach roadway, and approach span deck. The top of deck and approach roadways will be inspected during lane closures to provide closer access. Expansion joints, where practical, will be measured during cooler and hot periods to verify proper movement.

Roadway inspection will also include inspection of the bridge rails and guard rail attachments for conformity to current standards. This includes structural integrity, height measurements, post spacings, and openings in the railings. If necessary load rating the bridge rail for strength will be performed.

The approach roadway embankments will be inspected for erosion and settlement of the slope protection and adequate drainage from the roadway. If practical, rain periods will be observed to evaluate performance of the existing system.



Signing, signals and supports will be inspected for adequacy, clarity, structural integrity and conformity with requirements for movable bridges. Also included are inspection of the traffic gates, and signals and if their locations meet MUTCD and FDOT standards. Roadway geometry will be noted for transition, proper speed limits, and sight lines.

The civil inspection will also encompass non-structural aspects of the bridge and include fender walkways, ladders, platforms, and general access for maintenance. The inspection will consist of general physical condition of components, and conformity with OSHA, (such as railing requirements, location and spacing of electrical equipment), convenience and evaluation for service of the intended function.

B. Draft and Final Reports (2-4 weeks)

The Engineering Report is developed to provide a basis of support for a maintenance and rehabilitation schemes. Also, we typically review any alternate against the no-build and replacement alternate. This information is supported with photos, drawings, and test results. Structural Load ratings are provided and discussed as to what improvement or strengthening is necessary and recommended to meet the AASHTO LRFR Code. Improvements, repairs and replacement alternatives are recommended by priority (Immediate-1 year, Medium-5 years, Low-10 years) with cost estimates for each repair. A cost analysis and evaluation matrix will also be included to compare different alternatives or schemes for the rehabilitation. A Draft of the report will be submitted for review and discussion. The Final Report may be used as a document to submit to the City for approval as the scope of work for the rehabilitation. **We are well aware in LAP agreements the importance of the design meeting AASHTO and FDOT standards, and the importance of using variances and exceptions where it is not feasible to meet current standards.**

Bridge Engineering Reports for rehabilitation must provide four critical pieces of information: Location and quantity of the deficiencies, determination of the cause, and the priority and cost of the repair. This information will determine where and when the repairs should take place and will prevent or impede the problems from reoccurring and how much it will cost to repair the deficiency. The goal of this project is to provide the City with a Bridge Engineering Report of the current condition for the bridges so it can be used as a guide in determining the priorities of maintenance and rehabilitation needs, phasing and a construction budget. The Bridge Engineering Report will also provide information necessary to develop bridge repair plans and for comparison with future Bridge Engineering Reports to monitor condition and establish a rate of deterioration. Maintenance of Traffic Schemes will be discussed and illustrated for discussion, so they can be developed for the Contract Plans and Specifications. The goal of the repairs recommended is to reduce maintenance and their related costs. The rehabilitation recommendations will also point out where variances and exceptions are needed.

Below are critical issues that will be discussed in the Bridge Engineering Report:

Comprehensive Report of Deficiencies will include in addition to description of deficiencies by component, and location plans indicating the location and size of crack, spall, etc. of significant inspection findings, and corresponding photographs or sketches. These plans will include a system wide indexing of individual component conditions, detailing location of defects, significant member deterioration and/or member section loss for each span. Deficiencies will be described in detail to allow



future inspections to gage the rate of deterioration and provide an engineer enough information to design a repair that will prevent reoccurrence.

Evaluation of Previous Corrective Action will include descriptions and photos of previous repairs and descriptions of their effectiveness.

Required Maintenance Repair and Rehabilitation will recommend a repair for each deficiency listed in the deficiency. Deficiencies that present a safety hazard to vehicular or navigable traffic or pedestrians will be highlighted with the word "CRITICAL" in the left margin of the report. Each repair will be assigned a priority and a cost.

Scour Evaluation will be provided in the substructure deficiency section. It will include a narrative evaluation of the waterway condition and any scour that is taking place and any conclusions that may be drawn from the acquired data. Documentation such as photos, Fathometer readings, profiles, will be included.

Alternatives Analysis schemes will be presented and discussed with cost estimates and an evaluation matrix. A recommendation will be made based on alternative analysis.

Maintenance of Traffic Schemes will be included in narrative form with plan and cross section drawings provided to show the various schemes required and how the repairs will be accomplished while traffic is maintained.

Drawings will be provided of the existing plan and elevation of the bridge and typical sections. Detailed typical bridge cross sections, machinery layouts, MOT schemes and alternative designs will be provided in the Appendix for discussion prior to proceeding to the design phase.

The **Load Rating Analysis** will be accomplished as described below. Any repairs recommended on account of an insufficient load rating will be included in the recommendations section of the Report.

Structural Load Rating

Structural components will be load rated by structural engineers with previous experience in rating bridges in accordance with the AASHTO LRFR and FDOT Load Rating and Weight Limit Posting for State Owned Bridge Structures. Main bridge members will be rated based on a HL-93 and Florida Legal loading for as-built and as-inspected condition. The rating calculations will include a rating summary table for each member.

C. Bridge & Roadway Design & Contract Documents Preparation (6-12 months)

The plans will show all proposed details, suggested procedures, reference notes and other pertinent information required to construct the project. Special specifications and provisions will be developed in accordance with current criteria and our own standard specifications for structural, and electrical disciplines for cathodic protection, customized to meet the specific project requirements. We provide additional details to our drawings to minimize the claims and project delays associated with rehabilitations.

D. Community Awareness & Public Involvement (On Going During the Life of the Project)

Successful public works projects depend on public support. Organized groups can stop or delay a job if the impacts to communities and businesses are adversely affected. The best way to gain public consensus is to make them aware of the benefits of the project and what temporary inconveniences they can expect. Incentives/disincentives for the Contractor to finish the work in a known time period helps ease the public's mind. In addition the public can become part of the project by inviting them to public meetings to let them be a part of the design process, such as bike lane implementation, bridge



color, architectural improvements or style, light standard selection etc. Public forums help bring the community together.

Potential impacts to the community are identified upon receipt of the project scope. Working in close coordination with the City's Project Manager, the project team will identify project Community Impact issues such as maintenance of traffic, adjacent property access management and Right-of Way impacts, and construction duration. H&H's approach to project related community impacts prioritizes safety of general public and communications. The H&H Team has extensive and varied experience developing presentations aimed at the community in order to enhance project understanding and acceptance. Community Awareness can be accomplished through the City's Public Information Office.

E. Permitting (9 Months to 1 Year)

Permitting requirements are coordinated early in the design process as they typically require long lead times. The H&H Team will develop, as applicable, a permit application schedule. The schedule will include critical permit application submittal date and submittal checklist. Agencies and permits that may be required include the following: South Florida Water Management District (SFWMD) Environmental Resource Permit (ERP), U. S. Army Corps of Engineers (USACE) Department of the Army Permit, SFWMD Right of Way Occupancy Permit, SFWMD General Water Use Permit, U.S. Coast Guard (USCG) Bridge Permit.

F. Utility Coordination (On Going During the Design Phase of the Project)

Mitigating utility coordination issues requires understanding of the project site conditions and early interaction with utility companies. In addition, a close working relationship with local utility companies is necessary in order to resolve utility conflicts. Working closely and early with affected Utility Agency Offices (UAO) is our approach to address and resolve utility conflicts. H&H has two former local utility agency employees on our staff – Vincent Krepps and Leonard Chiocca. Their ability to engage UAO contacts to cooperate in mitigating conflicts has proved to be instrumental on recent H&H projects. We will utilize Vince's and Leonard's strong utility coordination for this project as applicable.

G. Construction Support Phase

Post Design Services:

Coordination with the Contractor will be through one point of contact (H&H Project Manager) and delegated to the engineering disciplines as required. Communication with the Contractor is essential during the construction phase so there is no misinterpretation of the Contract Documents. We believe open communication with the Contractor through meetings, telephone, email etc is essential. This will ensure all information, correspondence telephone calls etc are documented and on file for a complete record. The Contractor will be provided the point of contact and he will be made available to discuss issues as required.

Shop Drawings are given the highest priority because any delays could have immediate and costly implications to the department. We ensure thorough reviews through the use of a rigid quality control process which requires that every line on a shop drawing be checked for compliance with the contract plans and specifications. Our general approach to shop drawing reviews is responsiveness in order to resolve issues prior to submission to of shop drawings to the City. For example a common error made on shop drawings is the contractor's failure to stamp the drawings. Our policy is to immediately alert the Contractor and CEI of this error so that it can be corrected prior to submission to the City. The discovery of simple errors like this avoids costly delays to the contractor and saves the District time and effort. Another example of an issue that might arise on Post Design Services is related to how we will approach communication with the City PM. We will keep the City PM aware of construction issues that affect our scope of services and contract duration while remaining proactive in order to achieve resolution. We



encourage the City to keep us involved in progress meetings so we can monitor progress and provide our thoughts during meetings. Finally, we maintain a database of RFI's and shop drawings, their responsibility path, and disposition.

As mentioned above, the project team remains involved in the project through the construction phase to maintain continuity. The contact person for the Contractor during the construction phase is the Structural Project Engineer, and he will be present at the Construction Progress Meetings as proposed. The Structural Project Engineer will be familiar with all aspects of the project and delegate Contractor's request for information (RFI's), shop drawings, field inspection, as-built drawings etc, as required to the appropriate Project Engineers by discipline to ensure the shop drawings and RFI's are reviewed and expedited to avoid delays. Our Project Engineers will be made available to witness the required field installations. Availability of our Project Engineers is insured even with last minute requests due to our large staff of bridge engineers. Our Structural Inspector will also be available when required during the construction.

Participation between the designer and the construction engineer in a timely manner are key requirements to construct a project on time and under budget. Our staff considers response to construction issues a first priority once the project enters this phase. Timely reviews of the shop drawings and immediate attention to RFI's help to avoid delays to ensure the project stay on schedule. We typically review all shop drawings, provide plan interpretation to the field inspection forces, make adjustments and modifications to suit field conditions. We work with the Contractor to work solutions together so impacts are minimized. We believe that continuous input from the designer assures a better end product.

6.4 - Quality Assurance /Quality Control (QA/QC)

Quality Control Plan

H&H relies on the knowledge and the depth of our most experienced personnel to ensure the quality of our structural design, design support and post design engineering services. H&H's quality assurance activities are dictated by the company's "Quality Control and Quality Assurance Program." The program consists of procedures that have been developed to assure the various elements of the project are carried out and back checked in a planned and controlled manner and according to the highest standards. The Quality Control and Assurance Plan is tailored to meet the specific requirements of each project, and is based on each client's standards, the specific project requirements, and H&H's high standards for excellence. All team members will be required to follow our QA/QC program. Within 30 days of receiving award of the project H&H will submit a Quality Assurance Plan fully detailing our the Quality Control Organization, Quality Review and Quality Records procedures. In addition, H&H will utilize parallel team peer reviewers. Peer reviewers will be selected from firms on our team with applicable expertise that do not have direct involvement in the task being reviewed.

The quality control and assurance program describes the system, responsibilities and actions required by all project participants, to ensure quality control procedures are performed and documented. As a result, all interested parties can be assured a high level of engineering quality will be provided.

Every deliverable will undergo continuous quality control review. Timothy Noles, PE, the Principal-in Charge (PIC) and Design Project Manager, Henri Sinson, PE have primary management responsibility for quality assurance and specifically for implementation of our project specific Quality Design Management Plan (QDMP). At the time of starting the QC process for any project element, the PIC and the Project



Manager along with the key Project Engineers must identify the QC person or team required to review a particular element. Prior to all phase submissions, Senior Engineer Specialists will perform independent QC reviews. The QC reviewers are experienced engineers who were not actively involved in the preparation of the deliverables.

Quality Achievement	Quality Control	Quality Assurance
<ul style="list-style-type: none"> Planning Coordination Supervision & Direction Scope Understanding Experienced & Skilled Engineers Pride in Workmanship 	<ul style="list-style-type: none"> Adherence to Plan Independent Checking Clear checking criterion 	<ul style="list-style-type: none"> Project development audits of QC processes, documentation, technical direction & staffing

Quality includes the work quality performed by our subconsultants, whose work is subject to the standards of our QDMP and H&H audits. This Quality Assurance Program presents the policies, organization, objectives and specific quality control (QC) procedures and quality assurance (QA) procedures which will be implemented by Hardesty & Hanover during the course of the inspection work and during the report and plan development.

QA/QC Responsibilities & Objectives

This QA/QC Plan establishes a Principal of the firm as responsible for QA and will participate in QC. The Project Manager will also participate in QC, which entails monitoring the inspection to assure the established procedures are followed, and that inspection and rating are internally consistent for general conformance to Accepted standards. He will direct and coordinate the program and will be responsible for reporting QC compliance directly to the Principal-In-Charge. He will review field forms, inspection and field recording procedures, document and photograph control. He will also review the inspection report, load rating and inventory verifications prior to their submittal to the City of Fort Lauderdale.

Description of QC Plan

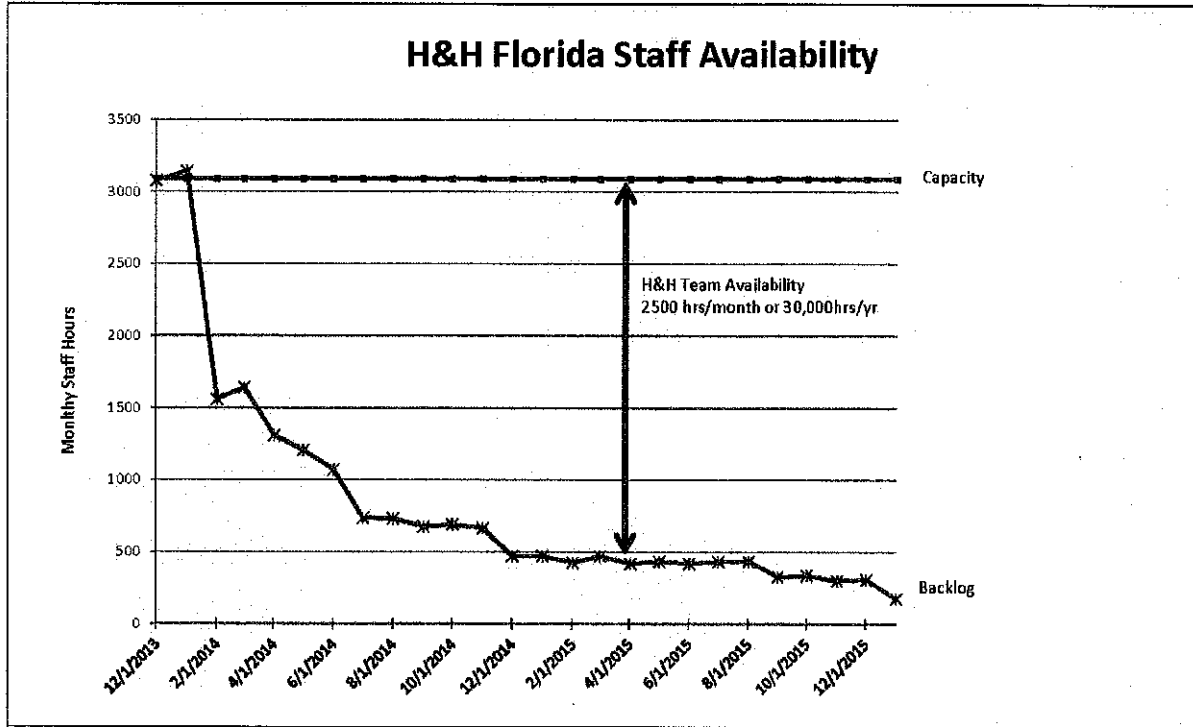
The monitoring and checks by the Project Manager will be done continually and any noncompliance will be brought to the immediate attention of the project engineers in order that remedial and corrective actions are promptly taken. The Principal-In-Charge will be informed in detail to the nature of these remedial actions and ensure effectiveness.

H&H's approach to this and all projects includes an orientation to meeting goals and controlling quality and costs. Our objectives are to meet all schedules, work within budgets, provide quality control and assurance, introduce value engineering, and control construction costs.

H&H's QA/QC for plan development always includes, at a minimum that our Subconsultants follow the H&H QA/QC Plan.



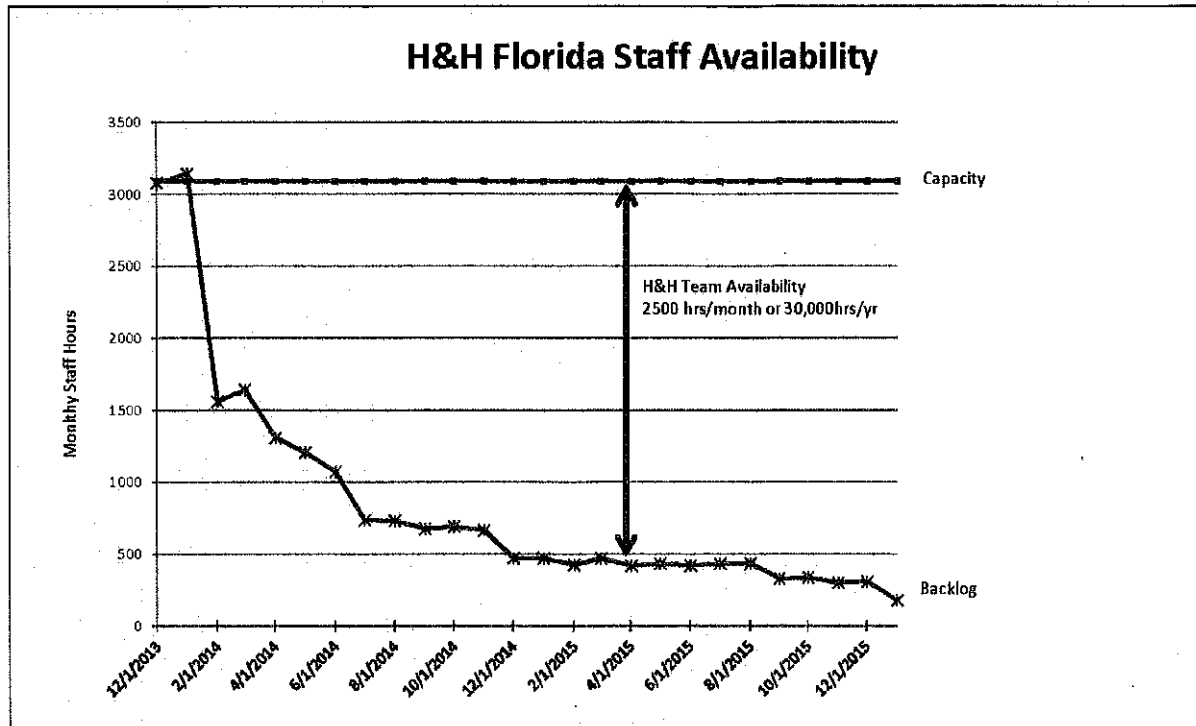
6.5 – Staff Availability Graph



As described above, our staff is completing several bridge design assignments throughout the State of Florida, and are available for this project. The above-graph depicts our monthly staffing availability as a function of time.



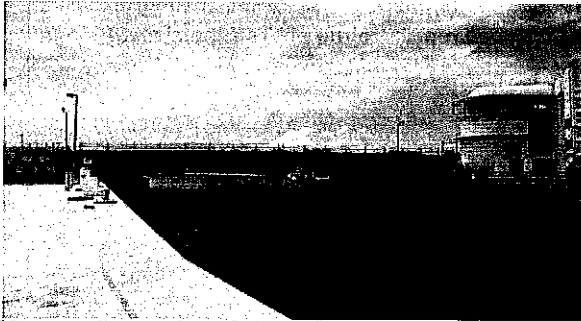

6.5 - Staff Availability Graph




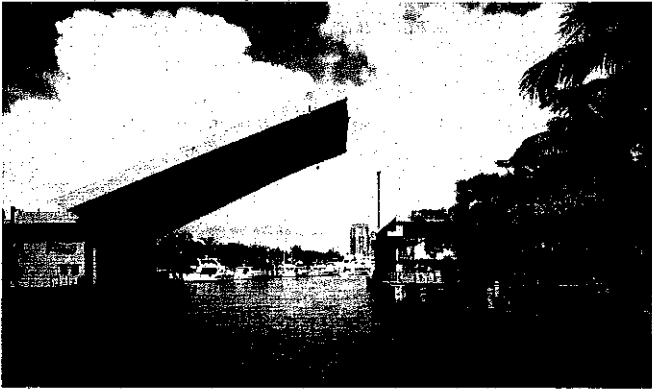
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7. References

PROJECT NAME/DESCRIPTION	PROJECT INFORMATION
<p>SR 7/NW 5th St. Bascule Bridge over Miami River</p> <p>H&H developed a design of the new 198 foot bascule span bridge using a Chicago type deck truss trunnion bascule span to fit in with the historic character of the Little Havana neighborhood of Miami. In addition the design incorporated the Miami Riverwalk to enhance the bridge perimeter. The roadway deck utilizes a concrete filled grating to minimize structure weight. The bascule span is operated with an electro-mechanical rack and pinion gear drive system with a redundant flex vector motor drive. The electrical system uses a PLC control system with relay logic control back up. The operational characteristics provides redundant mechanical and electrical components to ensure reliable operation of this important bridge for both vehicular traffic and navigable vessels.</p>  <p>NYACEC 2011 Platinum Award Selected by FDOT as an "Outstanding Bridge of Florida"</p>	<p>CLIENT CONTACT Jose Barrera, P.E., Project Manager FDOT District 6 1000 N.W. 111 Avenue Miami, FL 33172 Tel: 305-470-5260 Fax: 305-470-6727 jose.barrera@dot.state.fl.us</p> <p>ESTIMATED COST: \$60.0m ACTUAL COST: \$59.0m</p> <p>COMPLETION DATE: 2010</p> <p>PROPOSED STAFF INVOLVED Timothy J. Noles, PE Henri Sinson, PE Alfred G. Banz, PE Roberto Vicedo, PE Steve Hedge, EI</p>
<p>17th Ave Bridge over Miami River</p> <p>H&H developed the construction plans and specifications to implement the \$10 million rehabilitation to the bridge and provide post design engineering services during construction. Replacement of the stringers and floorbeams in lieu of repair was required due to the severity of the corrosion discovered. The rehabilitation included bascule span floor system replacement, grating replacement, bridge barrier replacement, pedestrian railing replacement, structural steel painting, lock bar replacement, strain gauge balance analysis, and span balancing services. Repairs were also accomplished on the bascule girders due to unknown deterioration to the girder webs behind connection plates. In addition, the open gearing operating machinery was replaced with a hydraulic gear motor directly driving the main rack pinion. The entire electrical control system to operate the new hydraulic motor was also provided for this fast-track project.</p> 	<p>Client Contact Marcos Redondo Project Manger Miami-Dade County Public Works Dep't 111 NW 1st Street Suite 1510 Miami, FL 33128 Tel: 305.375.3848 Fax: 305.376.3075 marcosr@miamidadegov</p> <p>Estimated Cost: \$10m Actual Cost: \$9.1m</p> <p>Completion Date: 2008</p> <p>Proposed Staff Involved Timothy J. Noles, PE John Low, PE Steve Hedge, EI Alfred G. Banz, PE</p>


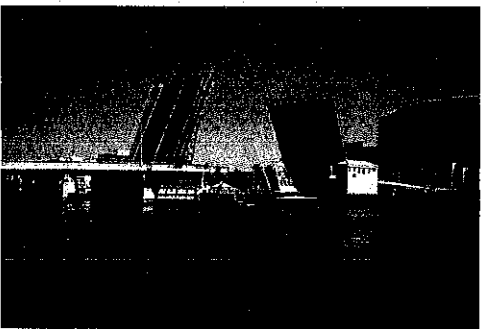


PROJECT NAME/DESCRIPTION	PROJECT INFORMATION
<p>Pine Tree Drive Bridge over The Flamingo Waterway, Miami</p> <p>H&H provided both design and post-design CEI services for Phase 1 of this project which was successfully completed ahead of schedule and within budget. H&H was also instrumental in obtaining all the necessary permits expeditiously in the otherwise lengthy process.</p> <p>Phase 2 consisted of the design for concrete repairs to the bridge, replacement of the entire structural steel girder center span with precast prestressed concrete slabs, replacement of the concrete barrier walls on the bridge and approach retaining walls, to meet LRFD requirements, placing Class 5 finish to all exposed concrete surfaces, miscellaneous concrete repairs to the entire superstructure and substructure that were not repaired in Phase 1 & associated approach roadway work.</p> 	<p>CLIENT CONTACT Marcos Redondo Project Manger Miami-Dade County Public Works Dep't 111 NW 1st Street Suite 1510 Miami, FL 33128 Tel: 305.375.3848 Fax: 305.376.3075 marcosr@miamidadegov</p> <p>COST: \$760,000 (Phase 1) \$900,000 (Phase 2) (Estimated)</p> <p>COMPLETION DATE: 2012</p> <p>PROPOSED STAFF INVOLVED Timothy Noles, PE John Low, PE</p>
<p>Andrews Avenue over New River</p> <p>Andrews Avenue Bridge rehabilitation includes substructure concrete spall and crack repair, sidewalk railing replacement, bascule span operational machinery improvements including control house renovation</p> 	<p>Client Contact Andre Slintak, P.E.I. Project Manger Broward County Public Works 1600 Blount Road Pompano Beach, FL 33069 Tel: 954.357.6043 Fax: 954.357.6340 aslintak@broward.org</p> <p>Estimated Cost: \$50m Actual Cost: \$Not yet Constructed</p> <p>Completion Date: Ongoing</p> <p>Proposed Staff Involved Timothy Noles, P.E. John Low, P.E.</p>




PROJECT NAME/DESCRIPTION	PROJECT INFORMATION
<p>Parker Bridge (US 1) over ICWW, N. Palm Beach</p> <p>H&H developed construction plans and specifications to implement the recommended \$11.0 million rehabilitation with assistance from the Construction Manager (PCL Civil Constructors) and in close coordination with FDOT District 4 Maintenance to provide efficient and constructible designs. H&H, PCL and FDOT worked as a team to streamline the design, procurement and construction process. The second phase of the project developed the construction plans and specifications to implement the recommended \$11-million rehabilitation. The rehabilitation included bridge widening to improve pedestrian access across the bridge for the neighboring communities. This consisted of providing sidewalks on each side of the bridge protected by a crash tested traffic railing at the curb. The existing railing was removed and replaced with a 3'-6" pedestrian railing. In addition to the widening of the roadway, a bascule span rehabilitation and control house renovation was accomplished.</p> 	<p>Client Contact Fausto Gomez, PE Project Manger FDOT District 4 3400 West Commercial Blvd., Ft Lauderdale, FL 33309 Tel: 954.777.4466 Fax: 954.777.4149 fausto.gomez@dot.state.fl.us</p> <p>Estimated Cost: \$11.0m Actual Cost: \$11.0m</p> <p>Completion Date: 2010</p> <p>Proposed Staff Involved Timothy J. Noles, PE Henri Sinson, PE Rob Vicedo, PE Alfred G. Banz, PE</p>
<p>Districtwide Miscellaneous Structural Projects, 63rd Street Bridge over Indian Creek Canal Miami</p> <p>An in-depth inspection of the entire structure was performed by Hardesty & Hanover to evaluate the deterioration and feasible repair options, locate the necessary concrete repairs, and determine the quantity of repairs required. The superstructure repairs included concrete spall and epoxy injection crack repairs of the AASHTO type prestressed concrete beams and splicing of deteriorated pre-stressing strands. The substructure repairs included the installation of cathodic protection pile jackets due to the severely corroded condition of over 130 piles. Impressed current cathodic protection was evaluated as the best alternative to repairing the concrete piles in regard to durability and economics. The electrical design and utility coordination for the cathodic system was also performed, including providing the electric service. Superstructure repairs were also performed on the underside of the voided deck slabs. The slabs were repaired with concrete epoxy mortar and carbon fiber reinforcement.</p> 	<p>Client Contact Dennis Fernandez Project Manger FDOT District 6 Tel: 305.470.5182 Fax: 305.470.5610 dennis.fernandez@dot.state.fl.us</p> <p>Estimated Cost: \$2.9m Actual Cost: \$3.0m</p> <p>Completion Date: 2010</p> <p>Proposed Staff Involved Timothy Noles, P.E. Steve Hedge, EI</p>



PROJECT NAME/DESCRIPTION	PROJECT INFORMATION
<p>Districtwide Miscellaneous Structural Projects Overseas Highway (US1) over Channel 2 Miami</p> <p>Hardesty & Hanover was contracted by FDOT District 6 to perform an inspection and provide a condition report, repair plans and provide Post Design Services. As a result of our inspection findings, the construction work included spall and crack repairs, joint repair and the installation of pile jackets with impressed current cathodic protection.</p> 	<p>Client Contact</p> <p>Dennis Fernandez Project Manger FDOT District 6 Tel: 305.470.5182 Fax: 305.470.5610 dennis.fernandez@dot.state.fl.us</p> <p>Estimated Cost: \$2.0m Actual Cost: \$1.6m</p> <p>Completion Date: 2010</p> <p>Proposed Staff Involved</p> <p>Timothy Noles, PE Alfred Banz, PE Steve Hedge, EI</p>
<p>Atlantic Blvd., over ICWW, Pompano Beach</p> <p>H&H contracted with FDOT to provide the first Construction Management @ Risk bridge project for the FDOT. H&H provided an in-depth inspection of the structural, mechanical and electrical systems, as well as an inspection report for this Hopkins Trunnion double leaf bascule span built in 1952. The report included condition of the bridge, structural and mechanical load ratings and recommendations for a 15 year rehabilitation with cost estimate. PCL assisted during this phase to provide recommendations for the rehabilitation that were included in the final report recommendations.</p> 	<p>Client Contact</p> <p>John Danielson Project Manger FDOT District 4 3400 West Commercial Blvd., Ft Lauderdale, FL 33309 Tel: 954.777.4202 Fax: 954.777.4149 john.danielson@dot.state.fl.us</p> <p>Estimated Cost: \$4.0m Actual Cost: \$4.0m Completion Date: 2010</p> <p>Proposed Staff Involved</p> <p>Timothy J. Noles, PE Michael J. Sileno, PE Rob Viedo, PE Andrew Barthle, PE Alfred G. Banz, PE</p>



PROJECT NAME/DESCRIPTION	PROJECT INFORMATION
<p>Town of Bay Harbor – Rehabilitation, Bay Harbor Islands</p> <p>The Bay Harbor Bridge rehabilitation includes structural steel superstructure painting, concrete spall and crack repairs to the substructure including cathodic protection, bridge railing repair structural steel repair, and machinery and electrical repairs to the bascule span operating systems.</p> 	<p>Client Contact Randy Daniel Project Manger Bay Harbor Islands 9665 Bay Harbor Terrace Bay Harbor Islands, FL 33154 Tel: 305.866.6241 Fax: 305.861.1130 rdaniel@bayharborislands.net</p> <p>Estimated Cost: \$6.5m Actual Cost: \$Pending</p> <p>Completion Date: Ongoing</p> <p>Proposed Staff Involved Timothy Noles, PE Alfred Banz, PE Steve Hedge, EI</p>



8. Minority/Women (M/WBE) Participation

Hardesty & Hanover is not a registered minority or woman-owned business with the Florida State Office of Diversity Department of Management Services. However, we plan to continue our strong support of small, minority and women owned business usage through the inclusion of Tierra South Florida, Inc. and Marlin Engineering Inc.



State of Florida Minority, Women & Florida Veteran Business Certification

Marlin Engineering, Inc.

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

04/04/2013 to 04/04/2015



Craig Nichols
Chief, State, Minority
Florida Department of Management Services





9. Local Business Preference (LBP)

Kindly refer to Appendix A for the Local Business Form.



10. Sample Insurance Certificate



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
12/19/2013

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 Greyling Insurance Brokerage 450 Northridge Parkway Suite 102 Atlanta GA 30350		CONTACT NAME Matias Ormaza PHONE (A/C No. Ext.) (770) 552-4225 FAX (A/C No.) (866) 550-4082 E-MAIL ADDRESS jerry.noyola@greyling.com	
INSURED Hardesty & Hanover, LLC 1501 Broadway New York NY 10036		INSURER(S) AFFORDING COVERAGE INSURER A Zurich American Insurance 16535 INSURER B American Guarantee & Liability 26247 INSURER C: INSURER D: INSURER E:	

COVERAGES **CERTIFICATE NUMBER: 13-14 LLC (Job Numbers)** **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.

TYPE OF INSURANCE	ADD. SUBMIT	POLICY NUMBER	POLICY EFF.	POLICY EXP.	LIMITS
GENERAL LIABILITY					
<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY					EACH OCCURRENCE \$ 1,000,000
<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR					DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000
<input checked="" type="checkbox"/> Contractual Liability		GLO 9434236-05	11/1/2013	11/1/2014	MED EXP (Any one person) \$ 10,000
					PERSONAL & ADV INJURY \$ 1,000,000
					GENERAL AGGREGATE \$ 2,000,000
					PRODUCTS - COMP/OP AGG \$ 2,000,000
GEN'L AGGREGATE LIMIT APPLIES PER					
<input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO. JECT <input checked="" type="checkbox"/> LOC					
AUTOMOBILE LIABILITY					
<input checked="" type="checkbox"/> ANY AUTO					COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
<input checked="" type="checkbox"/> ALL OWNED AUTOS		BAP 9433500-05	11/1/2013	11/1/2014	BODILY INJURY (Per person) \$
<input checked="" type="checkbox"/> HIRED AUTOS	<input checked="" type="checkbox"/> SCHEDULED AUTOS				BODILY INJURY (Per accident) \$
<input checked="" type="checkbox"/> Hired Pkwy Dam.	<input checked="" type="checkbox"/> NON-OWNED AUTOS				PROPERTY DAMAGE (Per accident) \$
<input checked="" type="checkbox"/> UMBRELLA LIAB	<input checked="" type="checkbox"/> EXCESS LIAB				
<input checked="" type="checkbox"/> RETENTIONS 10,000	<input checked="" type="checkbox"/> CLAIMS-MADE	AUG 9828851-03	11/1/2013	11/1/2014	EACH OCCURRENCE \$ 8,000,000
WORKERS COMPENSATION AND EMPLOYERS' LIABILITY					AGGREGATE \$ 8,000,000
ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/ MEMBER EXCLUDED? (Mandatory in RI)	Y/N				
If yes, describe under DESCRIPTION OF OPERATIONS below	N/A	WC 9433501-05	11/1/2013	11/1/2014	<input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTHER
					EL EACH ACCIDENT \$ 1,000,000
					EL DISEASE - EA EMPLOYEE \$ 1,000,000
					EL DISEASE - POLICY LIMIT \$ 1,000,000
Valuable Papers		OPP 9433490-05	11/1/2013	11/1/2014	Limit \$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)
 Re: SR 826/Palmetto Expwy from West of NW 27 Avenue to West of NW 17 Avenue. BPA #13.22.01, FDOT Contract #C9D33, H&H #2988. BPA is named as an Additional Insured on the above referenced liability policies with the exception of workers compensation & professional liability where required by written contract. Should any of the above described policies be cancelled by the issuing insurer before the expiration date thereof, we will endeavor to provide 30 days' written notice (except 10 days for nonpayment of premium) to the Certificate Holder named below.

CERTIFICATE HOLDER

Network Engineering Services, Inc.
 d/b/a Bolton Perez & Associates
 7205 Corporate Center Drive
 Suite 201
 Miami, FL 33126

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

David Collings/JERRY

ACORD 25 (2010/05)
 INS026 (2010/05)

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CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
12/19/2013

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 Greyling Insurance Brokerage 450 Northridge Parkway Suite 102 Atlanta GA 30350		CONTACT NAME: Jerry Noyola PHONE (A/C No. Ext.): (770) 552-4225 FAX (A/C No.): (866) 550-4082 E-MAIL ADDRESS: jerry.noyola@greyling.com	
INSURED Hardesty & Hanover, LLC 1501 Broadway New York NY 10036		INSURER(S) AFFORDING COVERAGE INSURER A: Catlin Insurance Company INSURER B: INSURER C: INSURER D: INSURER E: INSURER F:	
		NAIC # 19518	

COVERAGES **CERTIFICATE NUMBER:** 14-15 (LIC) Job Numbers **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 SUBR INSR WORD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO. <input type="checkbox"/> LOC					EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COM/PROP AGG \$ \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS					COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> RETENTION \$					EACH OCCURRENCE \$ AGGREGATE \$ \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/OWNER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A			WC STATUS: <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
A	Professional Liability		AED-672833-0115	1/1/2014	1/1/2015	Per Claim/Aggregate \$7.5M/\$10M Deductible \$400,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)
 Re: SR 826/Palmetto Expwy from West of NW 27 Avenue to West of NW 17 Avenue. BPA #13.22.01, FDOT Contract #C9D33, H&H #2888. Should any of the above described policies be cancelled by the issuing insurer before the expiration date thereof, we will endeavor to provide 30 days' written notice (except 10 days for nonpayment of premium) to the Certificate Holder named below.

CERTIFICATE HOLDER

Network Engineering Services, Inc.
 d/b/a Bolton Perez & Associates
 7205 Corporate Center Drive
 Suite 201
 Miami, FL 33126

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

David Collings/JERRY

David H. Collings

ACORD 25 (2010/05)

INSR25 (2010/05)

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11. Joint Ventures

This form is not applicable to the H&H Team.



12. Subconsultants



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. Their 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. 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.

Tierra's main office is located in West Palm Beach, Florida with operational satellite offices in Fort Lauderdale and Hialeah Gardens, Florida. Staff includes principal engineers with more than 25 years of experience in geotechnical, construction, laboratory and field materials testing and inspection services.

BASIC SERVICES

Geotechnical Engineering: TSF can provide a complete range of geotechnical engineering services. Their 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. TSF's 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
- Earthwork testing and observations
- Concrete testing and placement observation
- Masonry, grout, and mortar sampling and testing
- Asphalt paving monitoring
- Asphalt plant observations and monitoring
- MSE wall installation monitoring
- Pre-stressed yard observations
- Drilled shaft installation monitoring
- Pile driving installation monitoring

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. TSF's 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.



Marlin Engineering, Inc. (MEI) is exceptionally strong in the areas of Control and Design Survey, Right of Way, and Construction Surveying, and Subsurface Utility Engineering (SUE). In addition, Marlin's dedication to Quality Control is demonstrated by their continuous client relationships spanning over 22 years in the South Florida region. Marlin Engineering Inc. is a Minority Business Enterprise (MBE) certified in the State of Florida.

MEI has the professional qualifications, administrative skills, technical staff, and state of the art technology to meet the demands of this project in a timely and economical manner. Professional surveying services, as-needed shall be provided under the direction of the Project Manager, Lazaro Fleitas, P.S.M.

CAPABILITIES AND EXPERIENCE

SURVEYING SERVICES We understand the primary objective of this contract is to provide production support for the Engineering and Public Works Department, therefore, upon receiving a work order, Marlin Engineering, Inc. will carefully review the scope, and any other documents provided, to prepare the best approach to addressing the assigned task. Upon the establishment of the Project Network Control, which is the foundation of all survey tasks, subsequent tasks will be performed including; photogrammetric mapping support, the development of boundary surveys, preparation of as-built and record drawings, legal descriptions, plats and maps, the establishment of vertical Project Network Control, alignment and construction layouts, the establishment of Right of Way and performing topographic and drainage surveys.



SUB-SURFACE UTILITY EXCAVATION SERVICES MEI provides location, designation, and survey services. We provide subsurface utility engineering services using precise electronic and vacuum excavation equipment. MEI uses vacuum excavation equipment to obtain the exact horizontal and vertical position of existing utilities in conflict with proposed structures. Our equipment inventory includes a Vaxcavator VT 500, Vactor, and a Mala Easy Locator GPR.

GPS EQUIPMENT AND SOFTWARE CAPABILITIES All MEI field personnel are trained in the use of Global Positioning Systems (GPS) to establish high accuracy state plane coordinates and in the use of levels to complete vertical control bench runs. Our field crews will use prism-less total stations (TOPCON GPT-7500) and TDS software to safely record information, when acquiring data on design survey assignments. We are equipped with the latest state of the art instruments including Topcon Total Stations, Sokkia levels, Topcon GPS receivers, TDS and Corvallis Data Collectors, two boats, and TEKK radios to enable communication between parties. We also possess the latest software including CAICE, EFB, TDS, GEOPAK, Micro Station V8/XM, AutoCAD, GPS VECTOR NT PROCESSING SOFTWARE, TOPCON-TOOL SOFTWARE and MICROSOFT OFFICE.

SAFETY Whenever personnel and equipment must operate within the public right of way, a potentially hazardous situation exists for both, our surveying and mapping personnel and the motoring public. MEI is well-versed in the Survey Safety Handbook published by FDOT and understand that with appropriate measures, accidents are preventable. Our entire field staff receives regular safety training including seminars and viewing of safety related videotapes. MEI's field personnel are also certified for Maintenance of Traffic (Intermediate and / or Advanced). When conducting survey field operations, MEI complies with the most current FDOT Roadway Design Standards (Index 600 series). The MEI staff is also compliant with Title 29, Code of Federal Regulations (OSHA requirements).

SCHEDULING Each task assignment completed under this contract will be supported by a detailed precedent-based schedule. These schedules will be clear and concise, address the responsible professionals, include all major milestone events, and account for comprehensive quality control activities.

QUALITY ASSURANCE/QUALITY CONTROL MEI understands the importance of this Surveying and Annual Mapping Annual Services Contract and is committed to quality performance and production. Quality on a survey assignment is closely tied to many factors including adequate and experienced staff, a comprehensive schedule, and close coordination and communication between all interested parties.

ADDITIONAL COMPANY INFORMATION:

- 22 years of experience at a Federal, State, County and Municipal Level
- Local company
- DBE Company
- 6 Certified Bridge Inspectors/Divers
- 3 Commercial Divers
- Inspectors are trained, qualified and certified divers
- Member of the Association of Dive Contractors International (ADCI)
- MEI's inspectors follow ADCI commercial diving standards – stricter than OSHA.



UNDERWATER INSPECTIONS:

- Underwater inspection requires trained individuals to identify damaged and deteriorated areas in black water conditions, where deficiencies may be hidden and require removal of marine growth from surfaces of selected areas, or probing in scour critical areas.
- Underwater investigations are performed using hands on, visual and tactile approach.
- We concentrate on critical areas, which are near the low waterline, near the mud line and midway between these two areas.
- Concrete elements will be inspected for cracks, spalls, loss of matrix and deterioration caused by other elements.
- Steel shall be inspected for effects of deterioration.
- Where applicable, the timber fender system will be inspected for deterioration and marine borer attack.
- Naturally all of the visible exterior surfaces of each underwater element will be inspected.
- All findings of the underwater investigations will be recorded using notes and sketches, complemented with underwater photographs and video recordings when visibility permits.
- All underwater investigations will be conducted under the direct supervision of a qualified bridge inspection team leader and will adhere to OSHA Standards (OSHA Part 1910: Commercial Diving Operations) and ADCI commercial diving standards.
- The OSHA Standards delineates minimum personnel requirements, general operation procedures, specific operation procedures, equipment procedures and requirements and record keeping requirements.
- Any penetration dive that is required will be completed in accordance with current dive standards. Our confined space entry certified inspectors have performed these inspections successfully in the past.



13. Non-Collusion Statement

Kindly refer to Appendix A for the Non-Collusion Statement form.

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 its 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) _____ 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.
Business Name

(2) _____ 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.
Business Name

(3) HARDESTY & HANOVER 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.
Business Name

(4) _____ 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.
Business Name

(5) _____ 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.
Business Name

(6) _____ 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.
Business Name

BIDDER'S COMPANY: _____

HARDESTY & HANOVER, LLC

AUTHORIZED COMPANY PERSON: _____

NAME

SIGNATURE

DATE

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 — 954-831-4000
VALID OCTOBER 1, 2013 THROUGH SEPTEMBER 30, 2014

DBA: HARDESTY & HANOVER LLP
Business Name:

Receipt #: 315-641
Business Type: ENGINEER (ENGINEERING FIRM)

Owner Name: TIMOTHY J NOLES
Business Location: 1000 SAWGRASS CORP PKWY 544
SUNRISE
Business Opened: 12/01/2005
State/County/Cert/Reg: 171
Exemption Code:

Business Phone: 954-835-9119

Rooms	Seats	Employees	Machines	Professionals
		20		

	For Vending Business Only				
	Number of Machines:		Vending Type:		
	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost
Tax Amount	45.00	0.00	0.00	0.00	0.00
					Total Paid
					45.00

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT

This tax is levied for the privilege of doing business within Broward County and is non-regulatory in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold, business name has changed or you have moved the business location. This receipt does not indicate that the business is legal or that it is in compliance with State or local laws and regulations.

WHEN VALIDATED

Mailing Address:

TIMOTHY J NOLES
1000 SAWGRASS CORP PKWY #544
SUNRISE, FL 33323

Receipt #03A-12-00011545
Paid 08/27/2013 45.00

CAM# 17-1015
Exhibit 3
Page 85 of 148

2013 - 2014

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.

<u>NAME</u>	<u>RELATIONSHIPS</u>
N/A	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.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
**VENDOR CERTIFICATION REGARDING
SCRUTINIZED COMPANIES LISTS**

Respondent Vendor Name: Hardesty & Hanover, LLC

Vendor FEIN: 45-3031954

Vendor's Authorized Representative Name and Title: Timothy J. Noles

Address: 1000 Sawgrass Corporate Parkway, Suite 544

City: Sunrise State: FL Zip: 33323

Phone Number: 954.835.9119

Email Address: tnoles@hardesty-hanover.com

Section 287.135, Florida Statutes, prohibits agencies from contracting with companies for goods or services of \$1,000,000 or more, that are on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List. Both lists are created pursuant to section 215.473, Florida Statutes.

As the person authorized to sign on behalf of Respondent, I hereby certify that the company identified above in the section entitled "Respondent Vendor Name" is not listed on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List. I understand that pursuant to section 287.135, Florida Statutes, the submission of a false certification may subject company to civil penalties, attorney's fees, and/or costs.

Certified By: Timothy J. Noles

who is authorized to sign on behalf of the above referenced company.

Authorized Signature Print Name and Title: Timothy J. Noles - Principal

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: Timothy J. Noles (signature) 2/24/14 (date)

Name (printed) Timothy J. Noles Title: Principal

Company: (Legal Registration) HARDESTY & HANOVER, LLC

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: N/A

City: _____ State: _____ Zip: _____

Telephone No. _____ FAX No. _____ Email: _____

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:

ARCHITECT – ENGINEER QUALIFICATIONS

PART I – CONTRACT SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION (City and State)

Bridge Engineering Consulting Services

2. PUBLIC NOTICE DATE

2/5/2014

3. SOLICITATION OR PROJECT NUMBER

RFQ # 246-11376

B. ARCHITECT – ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Henri Sinson, PE

5. NAME OF FIRM

Hardesty & Hanover, LLC

6. TELEPHONE NUMBER

954-835-9119

7. FAX NUMBER

954-835-9130

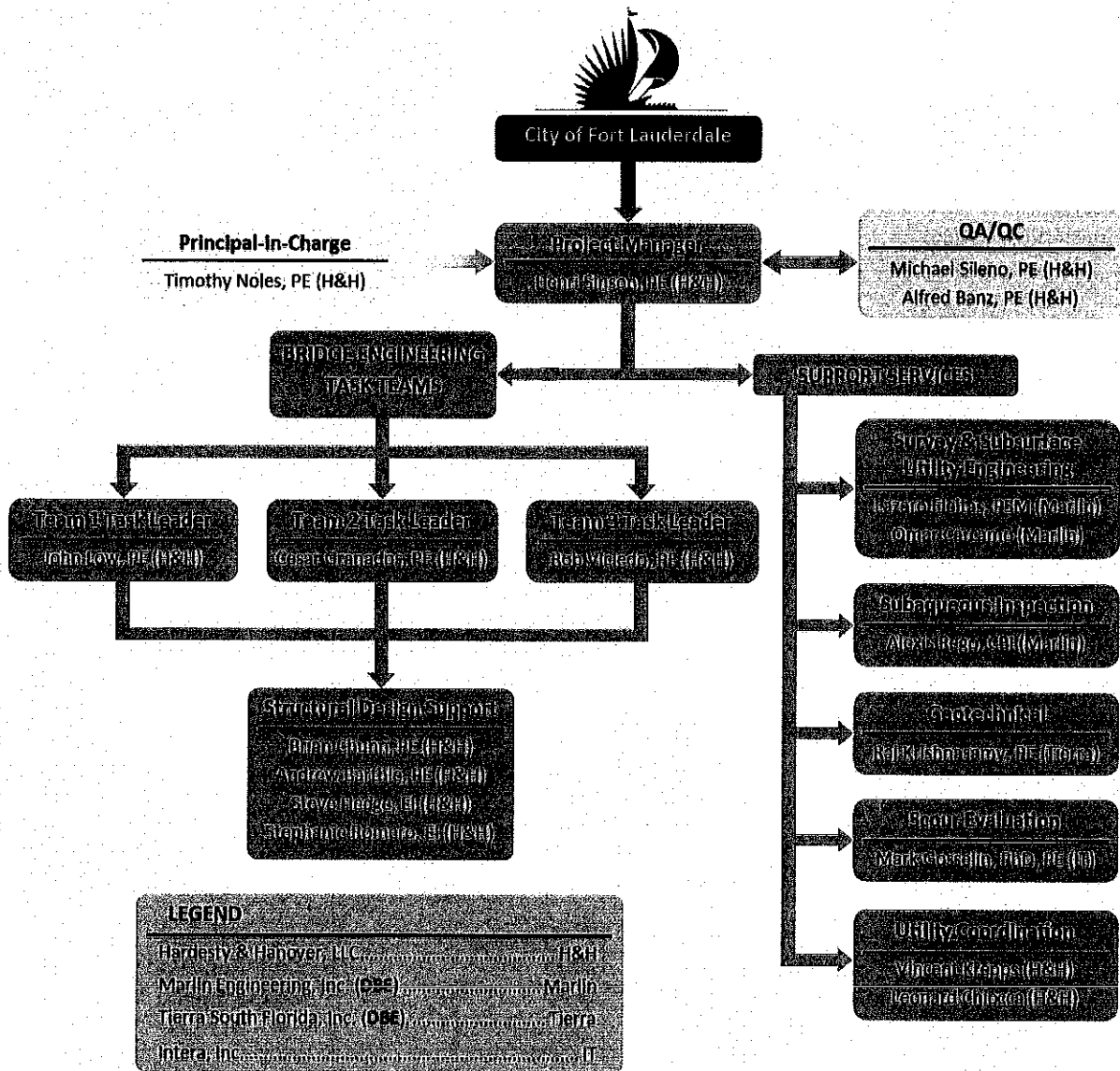
8. E-MAIL ADDRESS

hsinson@hardesty-hanover.com

C. PROPOSED TEAM

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

	(Check)			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J-V PARTNER	SUBCON-TRACTOR			
a.	X			Hardesty & Hanover, LLC <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	1000 Sawgrass Corporate Parkway Suite 544 Sunrise, FL 33323	Bridge Design & Inspection
b.			X	Marlin Engineering <input type="checkbox"/> CHECK IF BRANCH OFFICE	2191 NW 97 th Avenue Doral, FL 33171	Surveying & Mapping/Subaqueous Inspection
c.			X	Tierra South Florida, Inc <input type="checkbox"/> CHECK IF BRANCH OFFICE	2209B NE 54 th Street Ft. Lauderdale, FL 33308	Geotechnical Engineering
d.			X	Intera, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	100 SW 75th Street Suite 107 Gainesville, FL 32607	Scour Analysis
e.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
f.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		



ARCHITECT – ENGINEER QUALIFICATIONS

PART I – CONTRACT SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION <i>(City and State)</i> Bridge Engineering Consulting Services	
2. PUBLIC NOTICE DATE 2/5/2014	3. SOLICITATION OR PROJECT NUMBER RFQ # 246-11376

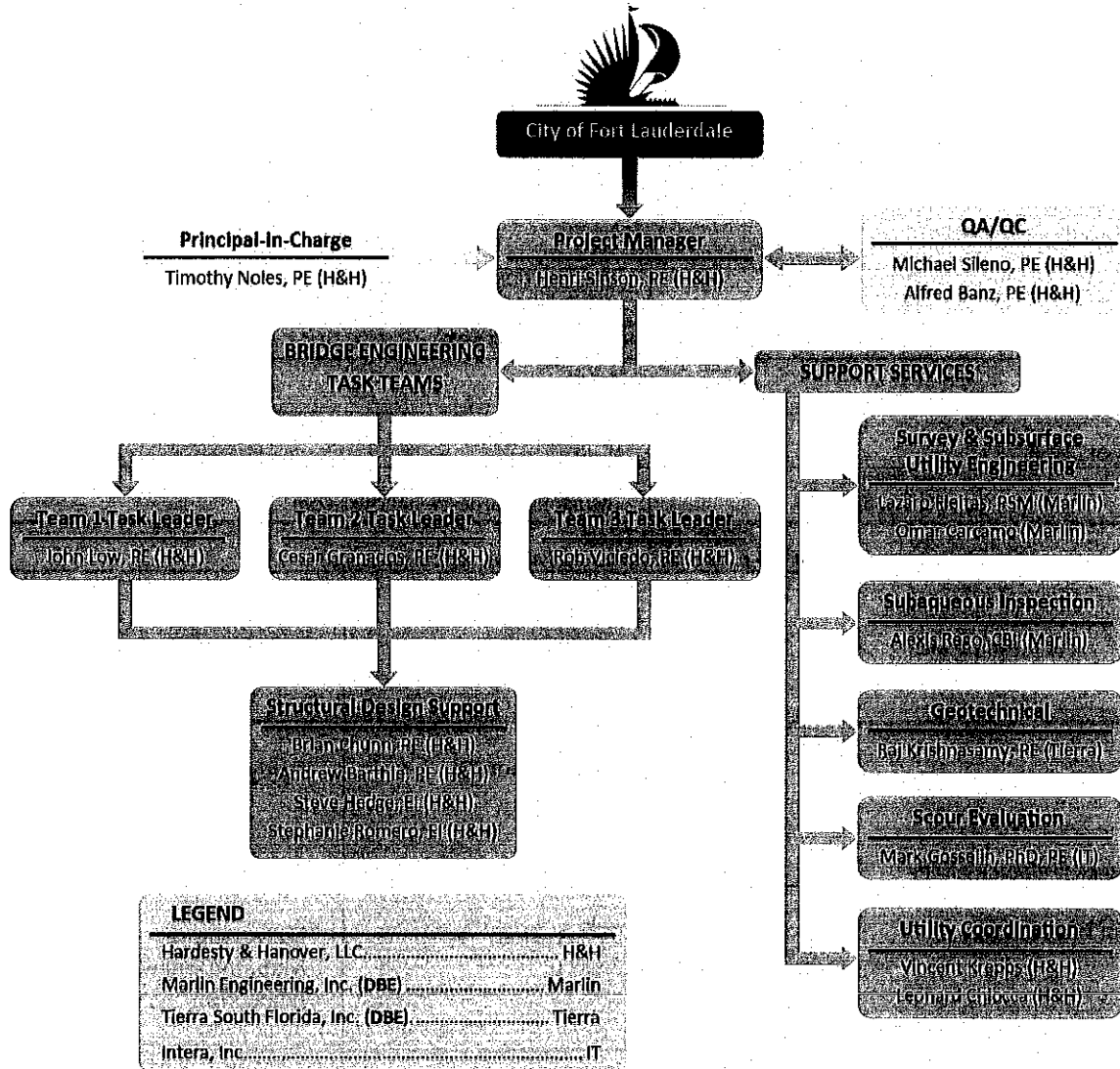
B. ARCHITECT – ENGINEER POINT OF CONTACT

4. NAME AND TITLE Henri Sinson, PE		
5. NAME OF FIRM Hardesty & Hanover, LLC		
6. TELEPHONE NUMBER 954-835-9119	7. FAX NUMBER 954-835-9130	8. E-MAIL ADDRESS hsinson@hardesty-hanover.com

C. PROPOSED TEAM

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

	(Check)			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	JV PARTNER	SUBCON-TRACTOR			
a.	X			Hardesty & Hanover, LLC <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	1000 Sawgrass Corporate Parkway Suite 544 Sunrise, FL 33323	Bridge Design & Inspection
b.			X	Marlin Engineering <input type="checkbox"/> CHECK IF BRANCH OFFICE	2191 NW 97 th Avenue Doral, FL 33171	Surveying & Mapping/Subaqueous Inspection
c.			X	Tierra South Florida, Inc <input type="checkbox"/> CHECK IF BRANCH OFFICE	2209B NE 54 th Street Ft. Lauderdale, FL 33308	Geotechnical Engineering
d.			X	Intera, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	100 SW 75th Street Suite 107 Gainesville, FL 32607	Scour Analysis
e.				 <input type="checkbox"/> CHECK IF BRANCH OFFICE		
f.				 <input type="checkbox"/> CHECK IF BRANCH OFFICE		



E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Timothy J. Noles, PE	13. ROLE IN THIS CONTRACT Principal in Charge	14. YEARS EXPERIENCE a. TOTAL 28 b. WITH CURRENT FIRM 28	
15. FIRM NAME AND LOCATION (City and State) Hardesty & Hanover, LLC – Sunrise, FL			
16. EDUCATION (DEGREE AND SPECIALIZATION) BSCE		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) FL - Civil Engineer	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Bridge Inspection Course, NYSDOT PSMJ Project Management Boot Camp Seismic Analysis Seminar FICE-FDOT Project Management Seminars LRFD Training Seminar			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
a. Siesta Key Bridge over ICWW, Sarasota County, FL	PROFESSIONAL SERVICES 2011	CONSTRUCTION (If Applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The Project includes preparation of structural, architectural, mechanical, and electrical plans to repair/rehabilitate this Hopkins trunnion twin double leaf bascule span bridge. The rehabilitation includes hydraulic machinery retrofit, electrical system improvements, control house modifications and deck replacement. Principal in charge of the rehabilitation design services for this double-leaf bascule bridge .	<input checked="" type="checkbox"/> Check if project performed with current firm	
b. SR15 Over Taylor Creek, Okeechobee County, FL	2011	CONSTRUCTION (If Applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The Project includes preparation of architectural, mechanical, and electrical plans to repair/rehabilitate this Hopkins trunnion single leaf bascule span bridge. The rehabilitation includes machinery retrofit, electrical system improvements and control house modification. Principal in charge of the rehabilitation design services for this single-leaf Bascule Bridge .	<input checked="" type="checkbox"/> Check if project performed with current firm	
c. Cortez Bridge, Manatee County, FL	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If Applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This project was part of Districtwide On-call Structures and includes preparation of structural, architectural, mechanical, and electrical plans to repair/rehabilitate this Hopkins trunnion twin double leaf bascule span bridge. The rehabilitation includes hydraulic machinery retrofit, electrical system improvement & control house modifications. Principal in charge of the rehabilitation design services for this double-leaf bascule bridge .	<input checked="" type="checkbox"/> Check if project performed with current firm	
d. Hillsborough Avenue Vertical Lift over Hillsborough River, Tampa, FL	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If Applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project includes preparation of mechanical and electrical plans to repair/rehabilitate this span driven vertical lift bridge. The rehabilitation includes sheave replacement, wire rope replacement, span lock repairs and electrical system upgrades. Principal in charge of the rehabilitation design services for vertical lift bridge.	<input checked="" type="checkbox"/> Check if project performed with current firm	
e. Hillsborough Avenue Bascule over Hillsborough River, Tampa, FL	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If Applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project includes preparation of structural, mechanical, and electrical plans to repair/rehabilitate this simpletrunnion twin double leaf bascule span bridge. The rehabilitation includes hydraulic machinery repairs, electrical system upgrades, addition of barrier housed span locks and increases to the stiffness of the structural system in order to reduce vibrations. Principal in charge of the rehabilitation design services for this double-leaf bascule bridge .	<input checked="" type="checkbox"/> Check if project performed with current firm	

Timothy J. Noles, PE continued

f.	(1) TITLE AND LOCATION (City and State) SR-924/NW 119th St./Gratigny Rd. Miami-Dade County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2012	CONSTRUCTION (If Applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE These work orders propose safety improvements at four intersections along this urban principal arterial, including extending and offsetting turn lanes, closing median openings, providing new signage/pavement markings, traffic signal modifications, and pavement widening/resurfacing. Principal in charge	<input checked="" type="checkbox"/> Check if project performed with current firm	
g.	(1) TITLE AND LOCATION (City and State) SR-953/LeJeune Rd. at SR-5/US-1 Miami-Dade County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2012	CONSTRUCTION (If Applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Intersection safety improvements at this high-volume intersection include pavement resurfacing to provide new markings, installation of new traffic signal mast arms to accommodate additional signal heads, upgrades to pedestrian features such as curb ramps and crosswalk pedestals, and geometric modifications to eliminate illegal turning movements. Principal in charge	<input checked="" type="checkbox"/> Check if project performed with current firm	
h.	(1) TITLE AND LOCATION (City and State) Miami Ave over Miami River, Miami-Dade, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2012	CONSTRUCTION (If Applicable) Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal in charge of \$4 million rehabilitation of twin double leaf bascule span constructed in 1985. Project required replacement of bascule span deck grating and span locks and cleaning and painting of steel superstructure. Hydraulic system was also refurbished	<input checked="" type="checkbox"/> Check if project performed with current firm	
i.	(1) TITLE AND LOCATION (City and State) 17th Ave Bridge over Miami River, Miami, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2008	CONSTRUCTION (If Applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal in charge of \$9 million rehabilitation of a simple trunnion double leaf bascule span constructed in 1924. Project required new bascule span floor system, and bridge railing to meet LRFD requirements. Project also included removal of open gearing operating system and replace with hydraulic gear motor and new relay logic electrical control system.	<input checked="" type="checkbox"/> Check if project performed with current firm	
j.	(1) TITLE AND LOCATION (City and State) Overseas Highway (US 1) over Channel 2, Craig Key, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2009	CONSTRUCTION (If Applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal in charge of repairs to prestressed AASHTO beams and reinforced concrete deck. Impressed current cathodic protection was also installed on the 6'-0" diameter drilled shaft columns.	<input checked="" type="checkbox"/> Check if project performed with current firm	
k.	(1) TITLE AND LOCATION (City and State) NW 63rd Street Bridge over East Channel of Indian Creek, Miami Dade, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2007	CONSTRUCTION (If Applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal in charge of \$1 million substructure repairs to prestressed concrete piles. Repairs required an active impressive current application of cathodic protection.	<input checked="" type="checkbox"/> Check if project performed with current firm	
l.	(1) TITLE AND LOCATION (City and State) Pine Tree Ave over Flamingo Waterway, Miami Dade, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2007	CONSTRUCTION (If Applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal in charge of \$1 million substructure repairs to prestressed concrete piles and reinforced concrete piers. Repairs required an active impressive current application of cathodic protection. CEI services also provided	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Henri Sinson, PE	13. ROLE IN THIS CONTRACT Project Manager	14. YEARS EXPERIENCE a. TOTAL 15 b. WITH CURRENT FIRM 15	
15. FIRM NAME AND LOCATION (City and State) Hardesty & Hanover, LLC – Sunrise, FL			
16. EDUCATION (DEGREE AND SPECIALIZATION) MECE / BECE		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) FL – Civil Engineer	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) FDOT, Specification Package Training – 2004 FHWA, High-Strength Concrete Seminar - 2000 ASCE, Seismic Design of Highway Bridges – 2002 NHI, Safety Inspection of In-Service Bridges - 1999 SMJ, Project Management Boot camp – 2004 MUTCD, Work Zone Protection Workshop - 1999			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Siesta Key Bridge over ICWW, Sarasota County, FL	PROFESSIONAL SERVICES 2/10 – 8/12	CONSTRUCTION (If Applicable)
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The Project includes preparation of structural, architectural, mechanical, and electrical plans to repair/rehabilitate this Hopkins trunnion twin double leaf bascule span bridge. The rehabilitation includes hydraulic machinery retrofit, electrical system improvements, control house modifications and deck replacement. Project Manager for the rehabilitation design services for this double-leaf bascule bridge.	[x] Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) SR15 Over Taylor Creek, Okeechobee County, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 8/10 – Present	
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The Project includes preparation of architectural, mechanical, and electrical plans to repair/rehabilitate this Hopkins trunnion single leaf bascule span bridge. The rehabilitation includes machinery retrofit, electrical system improvements and control house modification. Project Manager for the rehabilitation design services for this single-leaf bascule bridge.	[x] Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Cortez Bridge, Manatee County, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES Ongoing	
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This project was part of Districtwide On-call Structures and includes preparation of structural, architectural, mechanical, and electrical plans to repair/rehabilitate this Hopkins trunnion twin double leaf bascule span bridge. The rehabilitation includes hydraulic machinery retrofit, electrical system improvement & control house modifications. Project Manager for the rehabilitation design services for this double-leaf bascule bridge.	[x] Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Hillsborough Avenue Bascule over Hillsborough River, Tampa, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2012	
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project includes preparation of structural, mechanical, and electrical plans to repair/rehabilitate this simple trunnion twin double leaf bascule span bridge. The rehabilitation includes hydraulic machinery repairs, electrical system upgrades, addition of barrier housed span locks and increases to the stiffness of the structural system in order to reduce vibrations. Project Manager for the rehabilitation design services for this double-leaf bascule bridge.	[x] Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Hillsborough Avenue Vertical Lift over Hillsborough River, Tampa, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 3/12 – 2/13	
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project includes preparation of mechanical and electrical plans to repair/rehabilitate this span driven vertical lift bridge. The rehabilitation includes sheave replacement, wire rope replacement, span lock repairs and electrical system upgrades. Project Manager for the rehabilitation design services for vertical lift bridge.	[x] Check if project performed with current firm	

Henri Sinson, PE continued

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
	NW 63rd Street Bridge over East Channel of Indian Creek, Miami Dade, FL	4/05 - 3/09	
f.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project consisted of concrete superstructure and substructure repair design to lengthen the bridge useful life. An in-depth inspection of the entire structure was performed by Hardesty & Hanover to evaluate the deterioration and feasible repair options, locate the necessary concrete repairs, and determine the quantity of repairs required. The superstructure repairs included concrete spall and epoxy injection crack repairs of the AASHTO type prestressed concrete beams and splicing of deteriorated pre-stressing strands. Project Manager responsible for the planning and design of control house repairs, including concrete support structure and new windows. Concrete support structure was designed to provide redundancy to the vibrating cantilever control house.	[x] Check if project performed with current firm	
	(1) TITLE AND LOCATION (City and State) CR 3/ Mathers Bridge over Banana River, Indian Harbor Beach, FL	PROFESSIONAL SERVICES 2/05 - 3/06	CONSTRUCTION (If Applicable)
g.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE H&H provided swing span replacement, approach span improvements and control house renovation plans to improve the roadway geometry, pedestrian access, bridge operation and aesthetic appearance. This \$6 Million swing span replacement included structural, architectural, mechanical and electrical plans. Project Manager for the construction engineering services of a new 200 ft steel truss swing span and approach widening.	[x] Check if project performed with current firm	
	(1) TITLE AND LOCATION (City and State) Parker Bridge (US 1)SR5 over ICWW, Palm Beach County, FL	PROFESSIONAL SERVICES 8/07 - 8/10	CONSTRUCTION (If Applicable)
h.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project included in-depth inspection, condition report with load ratings and rehabilitation recommendations. The Project also includes preparation of structural, architectural, mechanical, and electrical plans to rehabilitate this Hopkins trunnion twin double leaf bascule span bridge. The estimated \$5 million rehabilitation includes hydraulic machinery retrofit, electrical system improvements, control house modifications, bridge widening, roadway and embankment improvements. Project Engineer responsible for the plan development and load rating of the twin double-leaf bascule bridge.	[x] Check if project performed with current firm	
	(1) TITLE AND LOCATION (City and State) SR-814/Atlantic Blvd Bridge, Pompano Beach, FL	PROFESSIONAL SERVICES 12/07 - 12/09	CONSTRUCTION (If Applicable)
i.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Construction Management @ Risk project to rehabilitate a Hopkins trunnion double leaf bascule span bridge. Project included hydraulic machinery retrofit; electrical system improvements, control house modifications and bascule span structural steel rehabilitation and bridge railing replacement. Structural Engineer responsible for the load rating of the twin double-leaf bascule bridge.	[x] Check if project performed with current firm	
	(1) TITLE AND LOCATION (City and State) SR-7/NW 5th Street Bascule Bridge over the Miami River, Miami, FL	PROFESSIONAL SERVICES 12/07 - 2/10	CONSTRUCTION (If Applicable)
j.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Replacement design of \$50 Million 180ft double leaf simple trunnion bascule span bridge using the appearance of a deck truss Chicago style Trunnion bascule span to fit in with the historic and aesthetic character of the Little Havana community of Miami. Project also includes control tower, approach roadways and Greenway River walk design. Structural Engineer responsible for the development of the USCG permit plans and planning and design of art décor styled, four story control tower on an independent pile foundation.	[x] Check if project performed with current firm	
	(1) TITLE AND LOCATION (City and State) Sanibel Island Causeway over San Carlos Bay, Sanibel Island, FL	PROFESSIONAL SERVICES 2004	CONSTRUCTION (If Applicable)
k.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project included final design of the selected new bridge alternative. \$30 Million new high level fixed bridge consists of 2,200ft long pre-stressed concrete 145ft Florida bulb-T span superstructure, and cast in-place reinforced concrete piers. Structural Engineer responsible for final plan and superstructure design reviews for 144ft pre-stressed concrete bulb tee girder spans for 70 ft high level fixed bridge.	[x] Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Michael Sileno, PE	13. ROLE IN THIS CONTRACT QA/QC	14. YEARS EXPERIENCE a. TOTAL 21 b. WITH CURRENT FIRM 18	
15. FIRM NAME AND LOCATION (City and State) Hardesty & Hanover, LLC – Sunrise, FL			
16. EDUCATION (DEGREE AND SPECIALIZATION) MSME / BEME		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) FL – Mechanical Engineer	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) ASME, American Society of Mechanical Engineers ASCE, American Society of Civil Engineers HMS, Heavy Movably Structures			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
NW 63rd Street Bridge over the East Channel of Indian Creek, Miami, FL	PROFESSIONAL SERVICES 8/05 - 3/06	CONSTRUCTION (If Applicable)
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager responsible for mathematical balance of new twin double leaf bascule span, design of leaf erection shoring system and leaf tie-back system, and modification to maintenance of traffic plans.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Broward County Bridges over New River, Ft. Lauderdale, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 1/00 - 4/02 CONSTRUCTION (If Applicable)	
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager in charge of in-depth inspection report, rehabilitative design recommendations and design plans for modifications to the operating machinery for two double leaf rolling lift span bridges. In addition, provided construction inspection services.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) SR-7 NW 5th Street Bascule Bridge Replacement over the Miami River, Miami, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 6/04 - 6/10 CONSTRUCTION (If Applicable)	
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Design of \$50Million new double leaf bascule bridge using the appearance of a deck truss Chicago style trunnion bascule span to fit in with the historic and aesthetic character of the Little Havana community of Miami. Project also includes control tower, approach roadways and Greenway River walk design. Project Manager responsible for this multi-disciplined project that includes design of a new double leaf bascule bridge, control tower, approach roadways and a Riverwalk. Responsibilities also include post design services	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) CR 3/ Mathers Bridge over the Banana River, Indian Harbour Beach, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 5/01 - 3/06 CONSTRUCTION (If Applicable)	
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mechanical Project Engineer responsible for design of operating and stabilizing machinery systems for new swing span design. Project Mechanical Engineer during post design responsible for responses to RFI's, checking of shop drawings and construction coordination.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Atlantic Blvd Bridge, Pompano Beach, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 8/07 - 7/10 CONSTRUCTION (If Applicable)	
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Construction Management @ Risk project to rehabilitate a Hopkins trunnion double leaf bascule span bridge. Project included hydraulic machinery retrofit; electrical system improvements, control house modifications and bascule span structural steel rehabilitation and bridge railing replacement. Project Manager responsible for this multi-disciplined project that includes a rehabilitation of a double leaf bascule bridge.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME John Low, PE	13. ROLE IN THIS CONTRACT Task Leader	14. YEARS EXPERIENCE <table border="1"> <tr> <td>a. TOTAL 31</td> <td>b. WITH CURRENT FIRM 7</td> </tr> </table>		a. TOTAL 31	b. WITH CURRENT FIRM 7
a. TOTAL 31	b. WITH CURRENT FIRM 7				
15. FIRM NAME AND LOCATION (City and State) Hardesty & Hanover, LLC – Sunrise, FL					
16. EDUCATION (DEGREE AND SPECIALIZATION) BSc Hons.,		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) FL – Civil Engineer			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Miami Ave over Miami River, Miami, FL	PROFESSIONAL SERVICES 11/08 – 6/12	CONSTRUCTION (If Applicable)
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$6 million rehabilitation of twin double leaf bascule span constructed in 1985. Project required replacement of bascule span deck grating and span locks and cleaning and painting of steel superstructure. Hydraulic system was also refurbished. Project Manager responsible for the detail design, preparation of contract documents, permit acquisitions and post-construction services.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Rehabilitation of 17th Ave Bridge over Miami River, Miami, FL	(2) YEAR COMPLETED 10/07 – 3/08	CONSTRUCTION (If Applicable)
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$9 million rehabilitation of a simple trunnion double leaf bascule span constructed in 1924. Project required new bascule span floorsystem, and bridge railing to meet LRFD requirements. Project also included removal of open gearing operating system and replace with hydraulic gear motor and new relay logic electrical control system. Project Manager responsible for the detail inspection, detail design, preparation of contract plans and post-design services.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Districtwide Miscellaneous Structural Projects and Minor Design, Miami, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 11/05 – 4/06	CONSTRUCTION (If Applicable)
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Professional Engineering Services for district wide miscellaneous structural projects minor design for District 6. Project Engineer responsible for LRFR Evaluation of the Boot key Bascule Bridge and Approach spans.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Pine Tree Ave over Flamingo Waterway, Miami Dade, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 8/07 – 3/08	CONSTRUCTION (If Applicable)
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Phase I: \$1 million substructure repairs to prestressed concrete piles and reinforced concrete piers. Repairs required an active impressive current application of cathodic protection. CEI services also provided. Project Manager responsible for the detail design and preparation of the contract documents, permit acquisitions and CEI services.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Pine Tree Ave over Flamingo Waterway, Miami Dade, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 6/09 – Present	CONSTRUCTION (If Applicable)
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Phase II: \$ 1 million superstructure repairs to replace the existing steel girder center span, miscellaneous concrete repairs to remaining superstructure and substructure not carried out in Phase I, replacing concrete railing system on bridge and approach retaining walls to meet LRFD requirements. Project Manager responsible for the detail design, preparation of the contract documents, permit acquisitions and CEI services.	<input checked="" type="checkbox"/> Check if project performed with current firm	

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John Low, PE continued

(1) TITLE AND LOCATION <i>(City and State)</i> Miami Dade Sinusoidal Bridge Rehabilitation , Miami Dade, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 1/06 - 1/07		CONSTRUCTION <i>(If Applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE f. Fee contract for structural rehabilitation with cathodic protection and painting. A 180-ft-long, structural steel fixed bridge has a 32-ft-long main span and 23-ft-long concrete slab approach spans supported on concrete pile bents. Included bridge condition report with cost estimate, plans and specifications, permit acquisition, and shop drawing review. Project Manager responsible for inspections, load ratings, detail designs and preparation of contract documents.	<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION <i>(City and State)</i> Countywide Sonovoid Bridge Load Ratings , Miami-Dade, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 11/07 - 2/08		CONSTRUCTION <i>(If Applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE g. The project involved the LRFR load rating of 42 precast prestressed concrete slab bridges using the newly released AASHTOWare's VIRTIS version 5.6 software. Project Manager responsible for the LRFR load rating.	<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION <i>(City and State)</i> Mathews Bridge (SR 115) over St. John's River , Jacksonville, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 4/06 - 8/07		CONSTRUCTION <i>(If Applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE h. \$13 million deck replacement for the 810 foot suspended span on the main channel span cantilevered truss. Original open deck steel grating was replaced with reinforced concrete exodermic deck. Roadway stringers and railings were replaced, and truss and floorbeam strengthening was provided with new deck system meeting LRFR requirements. 3-D modeling of truss was accomplished to determine multiple load cases for load rating. Construction time to replace deck was 90 days. Additional repairs included floorbeams web repairs, bridge painting, utility relocation, and finger expansion joint replacement. Complex MOT was required to ensure commuter traffic was uninterrupted. Project Engineer responsible for review of contract drawings and specifications for the strengthening of truss members and repairs to steel floor beams and post-construction services.	<input checked="" type="checkbox"/> Check if project performed with current firm		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Alfred Banz, PE	13. ROLE IN THIS CONTRACT QA/QC	14. YEARS EXPERIENCE <table border="1"> <tr> <td>a. TOTAL 12</td> <td>b. WITH CURRENT FIRM 20</td> </tr> </table>		a. TOTAL 12	b. WITH CURRENT FIRM 20						
a. TOTAL 12	b. WITH CURRENT FIRM 20										
15. FIRM NAME AND LOCATION (City and State) Hardesty & Hanover, LLC – Sunrise, FL											
16. EDUCATION (DEGREE AND SPECIALIZATION) BSCE		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) FL – Civil Engineer									
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) <table border="0"> <tr> <td>Value Engineering Team Leader Seminar (FDOT)</td> <td>Safety Inspection of In-Service Bridges (NHI)</td> </tr> <tr> <td>Work Zone Traffic Control Supervisor (ATSSA)</td> <td>Movable Bridge Inspector Training (NHI)</td> </tr> <tr> <td>Traffic Control Plan Design (FDOT)</td> <td>Engineering Concepts for Bridge Inspectors (NHI)</td> </tr> <tr> <td>Certified Public Manager Level IV</td> <td></td> </tr> </table>				Value Engineering Team Leader Seminar (FDOT)	Safety Inspection of In-Service Bridges (NHI)	Work Zone Traffic Control Supervisor (ATSSA)	Movable Bridge Inspector Training (NHI)	Traffic Control Plan Design (FDOT)	Engineering Concepts for Bridge Inspectors (NHI)	Certified Public Manager Level IV	
Value Engineering Team Leader Seminar (FDOT)	Safety Inspection of In-Service Bridges (NHI)										
Work Zone Traffic Control Supervisor (ATSSA)	Movable Bridge Inspector Training (NHI)										
Traffic Control Plan Design (FDOT)	Engineering Concepts for Bridge Inspectors (NHI)										
Certified Public Manager Level IV											

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Rehabilitation of 17th Ave Bridge over Miami River, Miami, FL	PROFESSIONAL SERVICES 2007	CONSTRUCTION (If Applicable)
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$9 million rehabilitation of a simple trunnion double leaf bascule span constructed in 1924. Project required new bascule span floor system, and bridge railing to meet LRFD requirements. Project also included removal of open gearing operating system and replace with hydraulic gear motor and new relay logic electrical control system. Project Engineer responsible for final bridge balance	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Town of Bay Harbor Facilities Inspection, Town of Bay Harbor Islands, FL	(2) YEAR COMPLETED 6/12 – 3/13	CONSTRUCTION (If Applicable)
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Contract for miscellaneous engineering services for one movable bridge and three fixed bridges. Project Manager responsible for coordinating and overseeing personnel to ensure completion of various task work orders ranging from inspection and design to construction engineering and inspection services. Provided recommendations for the town's capital improvement program necessary to maintain their transportation infrastructure.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) SR7/NW 5th Street Bridge Replacement over the Miami River, Miami, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 11/07 - 6/10	CONSTRUCTION (If Applicable)
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Replacement design of \$50 Million 180 ft double leaf simple trunnion bascule span bridge using the appearance of a deck truss Chicago style Trunnion bascule span to fit in with the historic and aesthetic character of the Little Havana community of Miami. Project also includes control tower, approach roadways and Greenway River walk design. Project Engineer responsible for shop drawing reviews, preparation of responses to contractors requests for information, and field inspection/visits.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) SR-814/Atlantic Blvd Bridge, Pompano Beach, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2/08 - 9/10	CONSTRUCTION (If Applicable)
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$5 Million Construction Management @ Risk project to rehabilitate a Hopkins trunnion double leaf bascule span bridge. Project included hydraulic machinery retrofit; electrical system improvements, control house modifications and bascule span structural steel rehabilitation and bridge railing replacement. Project Engineer responsible for shop drawing reviews, responding to RFI's, and field inspection/visits.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Parker Bridge (US 1) over ICWW, North Palm Beach, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 1/08 - 12/10	CONSTRUCTION (If Applicable)
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Construction Management @ Risk project delivery. Project included in-depth inspection, condition report with load ratings and rehabilitation recommendations. The estimated \$11million rehabilitation includes hydraulic machinery retrofit, electrical system improvements, control house modifications, bridge widening, roadway and embankment improvements. Project Engineer responsible for shop drawing reviews, responding to RFI's, and field inspection/visits.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Steve Hedge, EI	13. ROLE IN THIS CONTRACT Structural Engineer	14. YEARS EXPERIENCE a. TOTAL 16 b. WITH CURRENT FIRM 16	
15. FIRM NAME AND LOCATION (City and State) Hardesty & Hanover, LLC – Sunrise, FL			
16. EDUCATION (DEGREE AND SPECIALIZATION) BECE		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State) Hillsborough Avenue Bascule over Hillsborough River, Tampa, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 3/12 – 12/12 CONSTRUCTION (If Applicable)	
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project includes preparation of structural, mechanical, and electrical plans to repair/rehabilitate this simple trunnion twin double leaf bascule span bridge. The rehabilitation includes hydraulic machinery repairs, electrical system upgrades, addition of barrier housed span locks and increases to the stiffness of the structural system in order to reduce vibrations. Structural Engineer responsible for coordinating with the prime consultant for all submission, responding to ERC comments and ensuring all comments are incorporated in subsequent submittals.	[x] Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Hillsborough Avenue Vertical Lift over Hillsborough River, Tampa, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 3/12 – 3/13 CONSTRUCTION (If Applicable)	
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project includes preparation of mechanical and electrical plans to repair/rehabilitate this span driven vertical lift bridge. The rehabilitation includes sheave replacement, wire rope replacement, span lock repairs and electrical system upgrades. Structural Engineer responsible for coordinating with the prime consultant for all submission, responding to ERC comments and ensuring all comments are incorporated in subsequent submittals.	[x] Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) SR15 Over Taylor Creek, Okeechobee County, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 9/11 – 3/13 CONSTRUCTION (If Applicable)	
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The Project includes preparation of architectural, mechanical, and electrical plans to repair/rehabilitate this Hopkins trunnion single leaf bascule span bridge. The rehabilitation includes machinery retrofit, electrical system improvements and control house modification. Project Engineer responsible for the rehabilitation design services for this double leaf bascule bridge.	[x] Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Siesta Key Bridge over ICWW, Sarasota County, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 10/10 – 11/12 CONSTRUCTION (If Applicable)	
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project includes preparation of structural, architectural, mechanical and electrical plans to repair/rehabilitate this Hopkins trunnion twin double leaf bascule span bridge. The rehabilitation includes hydraulic machinery retrofit, electrical systems improvement, control house modifications and deck replacement. Project Engineer responsible for the rehabilitation design services for this double leaf bascule bridge.	[x] Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Rehabilitation of 17th Ave Bridge over Miami River, Miami, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 8/07 – 6/08 CONSTRUCTION (If Applicable)	
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE \$9 million rehabilitation of a simple trunnion double leaf bascule span constructed in 1924. Project required new bascule span floor system, and bridge railing to meet LRFD requirements. Project also included removal of open gearing operating system and replace with hydraulic gear motor and new relay logic electrical control system. Structural Engineer responsible for the design of the new traffic railing, deck replacement, and perform the mathematical span balance calculations.	[x] Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Roberto Vieda, PE	13. ROLE IN THIS CONTRACT Task Leader	14. YEARS EXPERIENCE <table border="1"> <tr> <td>a. TOTAL 16</td> <td>b. WITH CURRENT FIRM 17</td> </tr> </table>		a. TOTAL 16	b. WITH CURRENT FIRM 17
a. TOTAL 16	b. WITH CURRENT FIRM 17				
15. FIRM NAME AND LOCATION (City and State) Hardesty & Hanover, LLC – Sunrise, FL					
16. EDUCATION (DEGREE AND SPECIALIZATION) BSCE		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) FL – Civil Engineer			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) FICE/FDOT LRFD Seminar FICE/FDOT Design Conference - 2002 FICE/FDOT Excellence & Quality in Project Management FBPE Professional Engineering Ethics Course - 2004					

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Hillsborough Avenue Bascule over Hillsborough River, Tampa, FL	PROFESSIONAL SERVICES 3/12 – 12/12	CONSTRUCTION (If Applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
a. The project includes preparation of structural, mechanical, and electrical plans to repair/rehabilitate this simple trunnion twin double leaf bascule span bridge. The rehabilitation includes hydraulic machinery repairs, electrical system upgrades, addition of barrier housed span locks and increases to the stiffness of the structural system in order to reduce vibrations. Structural Engineer responsible for design and detailing of the new lock bar supporting brackets on the bascule leaves.		
(1) TITLE AND LOCATION (City and State) Miami Dade Sinusoidal Bridge Rehabilitation, Miami Beach, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 11/04 - 7/05 CONSTRUCTION (If Applicable)	
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
Fee contract for structural rehabilitation with cathodic protection and painting. A 180-ft-long, structural steel fixed bridge has a 32-ft-long main span and 23-ft-long concrete slab approach spans supported on concrete pile bents. Included bridge condition report with cost estimate, plans and specifications, permit acquisition, and shop drawing review. Project Manager responsible for general project coordination including inspection, report of deficiencies and design and detailing of repairs.		
(1) TITLE AND LOCATION (City and State) Parker Bridge (US 1)SR5 over ICWW, Palm Beach County, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 8/07 - 8/10 CONSTRUCTION (If Applicable)	
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
Construction management @ risk project delivery. Project included in-depth inspection, condition report with load ratings and rehabilitation recommendations. The Project also includes preparation of structural, architectural, mechanical, and electrical plans to rehabilitate this Hopkins trunnion twin double leaf bascule span bridge. The estimated \$5 million rehabilitation includes hydraulic machinery retrofit, electrical system improvements, control house modifications, bridge widening, roadway and embankment improvements. Project Engineer responsible for general project coordination.		
(1) TITLE AND LOCATION (City and State) SR-814/Atlantic Blvd Bridge, Pompano Beach, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 8/07 - 9/10 CONSTRUCTION (If Applicable)	
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
Construction Management @ Risk project to rehabilitate a Hopkins trunnion double leaf bascule span bridge. Project included hydraulic machinery retrofit; electrical system improvements, control house modifications and bascule span structural steel rehabilitation and bridge railing replacement. Project Engineer responsible for general project coordination.		
(1) TITLE AND LOCATION (City and State) SR 7/ NW 5th Street Bridge Replacement over the Miami River, Miami, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 6/04 - 4/10 CONSTRUCTION (If Applicable)	
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
Replacement design of \$50 Million 180 ft. double leaf simple trunnion bascule span bridge using the appearance of a deck truss Chicago style Trunnion bascule span to fit in with the historic and aesthetic character of the Little Havana community of Miami. Project also includes control tower, approach roadways and Greenway River walk design. Project Engineer for this multi-disciplined project that includes a new double leaf bascule bridge, control tower, approach roadways and a Riverwalk. Task leader responsible for design of movable leaf.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Brian Chunn, PE	13. ROLE IN THIS CONTRACT Structural Engineer	14. YEARS EXPERIENCE a. TOTAL 17 b. WITH CURRENT FIRM >1	
15. FIRM NAME AND LOCATION (City and State) Hardesty & Hanover, LLC – Sunrise, FL			
16. EDUCATION (DEGREE AND SPECIALIZATION) MSCE/BSCE		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) FL – Civil Engineer	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State) Pellissippi Parkway over Norfolk Southern Railroad, Blount County, TN	(2) YEAR COMPLETED PROFESSIONAL SERVICES 1999 CONSTRUCTION (If Applicable)	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm a. Mr. Chunn served as Designer of Record for this project which featured a skewed three-span continuous concrete superstructure with spans of 47-feet, 104-feet and 70-feet for an overall length of 221-feet. Mr. Chunn designed the prestressed beams and deck slab to be continuous over the piers for live load. The continuous concrete superstructure was designed according to the AASHTO Standard Specifications using the TDOT continuous bridge computer programs. The complex piers with pile foundations were designed by Mr. Chunn		
(1) TITLE AND LOCATION (City and State) State Road 5/West Tennessee Railroad, Gibson County, TN	(2) YEAR COMPLETED PROFESSIONAL SERVICES 1998 CONSTRUCTION (If Applicable)	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm b. Mr. Chunn served as Designer of Record for this project which featured a skewed three-span continuous concrete superstructure with spans of 55-feet, 59-feet and 55-feet for an overall length of 169-feet. Mr. Chunn designed the prestressed beams and deck slab to be continuous over the piers for live load. The continuous concrete superstructure designed according to the AASHTO Standard Specifications using the TDOT continuous bridge computer programs. The complex piers with pile foundations were designed by Mr. Chunn.		
(1) TITLE AND LOCATION (City and State) Bible Chapel Road/Lick Creek, Green County, TN	(2) YEAR COMPLETED PROFESSIONAL SERVICES 1996 CONSTRUCTION (If Applicable)	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm c. Mr. Chunn served as Designer of Record for this project which featured a curved skewed three-span continuous concrete superstructure with three spans of 61-feet for an overall length of 183-feet. Mr. Chunn designed the prestressed beams and deck slab to be continuous over the piers for live load. The continuous concrete superstructure designed according to the AASHTO Standard Specifications using the TDOT continuous bridge computer programs. The complex piers with pile foundations were also designed by Mr. Chunn		
(1) TITLE AND LOCATION (City and State) I-595 Ramp E-2 Over Hiatus Road Value Engineering Redesign, Davie, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 8/2011 - 2013 CONSTRUCTION (If Applicable)	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm d. Engineer of Record for I-595 Ramp E-2 Over Hiatus Road. The project was a redesign of existing 328'-2" long, 30'-1" wide, three span steel bridge to incorporate concrete 72" Florida I-Beams in order to save the Contractor money in a value engineering exercise.		
(1) TITLE AND LOCATION (City and State) University of Miami Ambulatory Medical Center (AMC), Coral Gables, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2011 CONSTRUCTION (If Applicable)	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm e. The project included the construction of a combination vehicular and pedestrian bridge over University Canal to connect the rear access area of the new AMC facility with the existing parking garage. In order to minimize the depth of the bridge superstructure and create a pleasing appearance, specially designed prestressed concrete flatslabs were chosen to be the main supporting elements for the skewed span of 80-feet. A concrete culvert extension was also included in this project to accommodate the widening of Ponce de Leon Avenue over University Canal. Additionally, Keith & Schnars prepared the structural construction documents for four mast arms for the signalization of the intersection of Ponce de Leon Boulevard and Dickenson Drive. Mr. Chunn was Engineer of Record for the bridge, box culvert extension and mast arms.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Cesar Granados, PE	13. ROLE IN THIS CONTRACT Task Leader	14. YEARS EXPERIENCE <table border="1"> <tr> <td>a. TOTAL 17</td> <td>b. WITH CURRENT FIRM 15</td> </tr> </table>		a. TOTAL 17	b. WITH CURRENT FIRM 15
a. TOTAL 17	b. WITH CURRENT FIRM 15				
15. FIRM NAME AND LOCATION (City and State) Hardesty & Hanover, LLC – Sunrise, FL					
16. EDUCATION (DEGREE AND SPECIALIZATION)		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Advance Work Zone Traffic Control Wind Load Structural Design					
19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION (City and State) Miami Ave over Miami River, Miami, FL		(2) YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2009</td> <td>CONSTRUCTION (If Applicable)</td> </tr> </table>		PROFESSIONAL SERVICES 2009	CONSTRUCTION (If Applicable)
PROFESSIONAL SERVICES 2009	CONSTRUCTION (If Applicable)				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE a. \$6 million rehabilitation of twin double leaf bascule span constructed in 1985. Project required replacement of bascule span deck grating and span locks and cleaning and painting of steel superstructure. Hydraulic system was also refurbished. Structural Engineer responsible for bascule pier modification plans, bascule leaves modification and detailing plans.		<input checked="" type="checkbox"/> Check if project performed with current firm			
(1) TITLE AND LOCATION (City and State) Broward County Bridges over New River, Ft. Lauderdale, FL		(2) YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2001</td> <td>CONSTRUCTION (If Applicable)</td> </tr> </table>		PROFESSIONAL SERVICES 2001	CONSTRUCTION (If Applicable)
PROFESSIONAL SERVICES 2001	CONSTRUCTION (If Applicable)				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE b. Inspection and rehabilitation project. Includes minor structural repairs and painting of three movable bridges (3 rd Ave, 7 th Ave and Andrews Ave) and mechanical rehabilitation of drive machinery in two, double-leaf rolling lift span bridges. Strain gage testing and balance calculations provided on 3 rd Avenue bridge. Structural Engineer responsible for maintenance of traffic, design, detail of repairs and preparation of cost estimates.		<input checked="" type="checkbox"/> Check if project performed with current firm			
(1) TITLE AND LOCATION (City and State) Districtwide Miscellaneous Structural Projects and Minor Design, Miami, FL		(2) YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES 5/05 - 11/08</td> <td>CONSTRUCTION (If Applicable)</td> </tr> </table>		PROFESSIONAL SERVICES 5/05 - 11/08	CONSTRUCTION (If Applicable)
PROFESSIONAL SERVICES 5/05 - 11/08	CONSTRUCTION (If Applicable)				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE c. Structural Engineer responsible for inspection, design of repairs, maintenance of traffic, general upgrades, roadway plans and shop drawing review.		<input checked="" type="checkbox"/> Check if project performed with current firm			
(1) TITLE AND LOCATION (City and State) Pine Tree Ave over Flamingo Waterway, Miami Dade, FL		(2) YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2006</td> <td>CONSTRUCTION (If Applicable)</td> </tr> </table>		PROFESSIONAL SERVICES 2006	CONSTRUCTION (If Applicable)
PROFESSIONAL SERVICES 2006	CONSTRUCTION (If Applicable)				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE d. Substructure repairs to prestressed concrete piles and reinforced concrete piers. Repairs required an active impressive current application of cathodic protection. CEI services also provided. Project Engineer responsible for detail design preparation of contract drawings and specifications.		<input checked="" type="checkbox"/> Check if project performed with current firm			
(1) TITLE AND LOCATION (City and State) DW Bridge Repair Design/District IV, Broward County, FL		(2) YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES 6/98 - 11/03</td> <td>CONSTRUCTION (If Applicable)</td> </tr> </table>		PROFESSIONAL SERVICES 6/98 - 11/03	CONSTRUCTION (If Applicable)
PROFESSIONAL SERVICES 6/98 - 11/03	CONSTRUCTION (If Applicable)				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE e. \$1.5Million rehabilitation project included inspection access platforms, fender replacement, and structural steel cross frame repairs for this high level fixed steel girder bridge. Structural Engineer responsible for design, calculations and plans preparation.		<input checked="" type="checkbox"/> Check if project performed with current firm			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Andrew Barthle, PE	13. ROLE IN THIS CONTRACT Electrical Engineer	14. YEARS EXPERIENCE a. TOTAL 9 b. WITH CURRENT FIRM 9	
15. FIRM NAME AND LOCATION (City and State) Hardesty & Hanover, LLC – Sunrise, FL			
16. EDUCATION (DEGREE AND SPECIALIZATION) BSEE		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) FL – Electrical Engineer	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
NW 63rd Street Bridge over East Channel of Indian Creek, Miami Dade, FL	PROFESSIONAL SERVICES 2005	CONSTRUCTION (If Applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE a. Substructure repairs to prestressed concrete piles. Repairs required an active impressive current application of cathodic protection. Electrical Engineer responsible for assisting in design, calculations, plan preparation of the cathodic protection system. Provided post design and construction support services.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Hillsborough Avenue Bascule over Hillsborough River, Tampa, FL	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If Applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE b. The project includes preparation of structural, mechanical, and electrical plans to repair/rehabilitate this simple trunnion twin double leaf bascule span bridge. The rehabilitation includes hydraulic machinery repairs, electrical system upgrades, addition of barrier housed span locks and increases to the stiffness of the structural system in order to reduce vibrations. Project Electrical Engineer responsible for design, calculations, plan preparation and post design of the bridge electrical systems.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Hillsborough Avenue Vertical Lift over Hillsborough River, Tampa, FL	PROFESSIONAL SERVICES 3/12 – 2/13	CONSTRUCTION (If Applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE c. The project includes preparation of mechanical and electrical plans to repair/rehabilitate this span driven vertical lift bridge. The rehabilitation includes sheave replacement, wire rope replacement, span lock repairs and electrical system upgrades. Project Electrical Engineer responsible for design, calculations, plan preparation and post design of the bridge electrical systems.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
SR15 Over Taylor Creek, Okeechobee County, FL	PROFESSIONAL SERVICES 12/11 – 3/12	CONSTRUCTION (If Applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE d. The Project includes preparation of architectural, mechanical, and electrical plans to repair/rehabilitate this Hopkins trunnion single leaf bascule span bridge. The rehabilitation includes machinery retrofit, electrical system improvements and control house modification. Project Electrical Engineer responsible for responsible for design, calculations, plan preparation and post design of the bridge electrical systems	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Parker Bridge (US 1) SR5 over ICWW, Palm Beach County, FL	PROFESSIONAL SERVICES 1/08 - 8/10	CONSTRUCTION (If Applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE e. Construction management @ risk project delivery. Project included in-depth inspection, condition report with load ratings and rehabilitation recommendations. The Project also includes preparation of structural, architectural, mechanical, and electrical plans to rehabilitate this Hopkins trunnion twin double leaf bascule span bridge. The estimated \$5 million rehabilitation includes hydraulic machinery retrofit, electrical system improvements, control house modifications, bridge widening, roadway and embankment improvements. Electrical Engineer responsible for design, calculations, plan preparation and post design of the bridge electrical systems.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Stephanie Romero, EI	13. ROLE IN THIS CONTRACT Structural Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 7	b. WITH CURRENT FIRM 7
15. FIRM NAME AND LOCATION (City and State) Hardesty & Hanover, LLC – Sunrise, FL			
16. EDUCATION (DEGREE AND SPECIALIZATION) BSCE		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a.	Hillsborough Avenue Bascule over Hillsborough River, Tampa, FL	2012	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project includes preparation of structural, mechanical, and electrical plans to repair/rehabilitate this simple trunnion twin double leaf bascule span bridge. The rehabilitation includes hydraulic machinery repairs, electrical system upgrades, addition of barrier housed span locks and increases to the stiffness of the structural system in order to reduce vibrations. Structural Engineer responsible for the Approach span Type II beams and Load ratings using Virtis.		
b.	Siesta Key Bridge over ICWW, Sarasota County, FL	2010	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project includes preparation of structural, architectural, mechanical, and electrical plans to repair/rehabilitate this Hopkins trunnion twin double leaf bascule span bridge. The rehabilitation includes hydraulic machinery retrofit, electrical system improvements, control house modifications and deck replacement. Structural Engineer responsible for the rehabilitation design services for this double-leaf bascule bridge.		
c.	17th Avenue Bridge over Miami River, Miami, FL	2007	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Rehabilitation of a simple trunnion double leaf bascule span constructed in 1924. Project required new bascule span floorsystem, and bridge railing to meet LRFD requirements. Project also included removal of open gearing operating system and replace with hydraulic gear motor and new relay logic electrical control system. Structural Engineer responsible for shop drawings.		
d.	Parker Bridge (US 1) over ICWW, North Palm Beach, FL	9/07 - 1/10	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project included in-depth inspection, condition report with load ratings and rehabilitation recommendations. The Project also includes preparation of structural, architectural, mechanical, and electrical plans to rehabilitate this Hopkins trunnion twin double leaf bascule span bridge. The estimated \$5 million rehabilitation includes hydraulic machinery retrofit, electrical system improvements, control house modifications, bridge widening, roadway and embankment improvements. Structural Engineer responsible for hand calculations using LRFR.		
e.	Overseas Highway US1 over Channel 2, Craig Key, FL	2007	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE For US 1 over Channel 2, the project scope consisted of repairs to prestressed AASHTO beams and reinforced concrete deck. Impressed current cathodic protection was also installed on the 6'-0" diameter drilled shaft columns. Structural Engineer responsible for maintenance of traffic plans.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Vince Krepps	13. ROLE IN THIS CONTRACT Senior Utility Coordinator	14. YEARS EXPERIENCE a. TOTAL 43 b. WITH CURRENT FIRM 2	
15. FIRM NAME AND LOCATION (City and State) Hardesty & Hanover, LLC – Sunrise, FL			
16. EDUCATION (DEGREE AND SPECIALIZATION) BSEE		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Districtwide Utility Coordination Services , Broward County, FL - FDOT District 4	PROFESSIONAL SERVICES 2010-2012	CONSTRUCTION (If Applicable)
<p>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</p> <p>a. Contract consists of providing Utility Coordination services on in-house FDOT design projects throughout District 4, including identifying existing/proposed utilities and establishing initial contacts with UAO's; scheduling/conducting utility design meetings; transmitting utility work schedules, agreements, and marked plans between UAO's and the District; offering utility expertise upon request; providing utility certification to the District Utility Engineer; determining eligibility for compensable interests and assisting the District Utility Office with related information; identifying/resolving conflicts between UAO's facilities and proposed construction; and analyzing/certifying utility relocation schedules for compatibility with FDOT construction schedules. Senior Utility Coordinator for this task-work-order driven contract.</p>	<p><input checked="" type="checkbox"/> Check if project performed with current firm</p>	
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
SR 838/Sunrise Blvd Bridge Replacement Over the Middle River , Broward County, FL - FDOT District 4	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If Applicable)
<p>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</p> <p>b. This Sunrise Blvd Bridge Replacement Project consists of all work associated with the process of utility coordination and certification for this bridge replacement for FDOT District 4 in Broward County, FL. The Sunrise Blvd Bridge Replacement Project's scope of work consisted of fostering an inclusive working environment among all Project Team Members/Stakeholders, including FDOT Staff (i.e. Highway, Structures, Right-of-Way, Maintenance, etc.), Utility Agency Owners (UAO's), local municipalities (City of Fort Lauderdale, Broward County, etc.) and residents. In addition, the project scope consisted of securing pertinent documents from FDOT, UAO's and Municipalities in order to certify all subsurface/overhead utilities as well as initiating/coordinating/executing/facilitating Joint Partnership Agreements on behalf of Project Stakeholders (II), in effect delivering a superlative product within the parameters as defined by the Department (schedule, budget, District Practices and Guidelines, etc.).</p>	<p><input checked="" type="checkbox"/> Check if project performed with current firm</p>	
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Advanced Traffic Management System (ATMS) Request for Proposal (RFP) Package , Broward County, FL - FDOT District 4	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If Applicable)
<p>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</p> <p>c. This RFP Package consists of more than 33 miles of highway corridors in Central Broward County proposed to undergo Advanced Traffic Management System (ATMS) improvements (II). The ATMS will utilize traffic monitoring cameras, dynamic message signs, passenger advisory signs and data collection devices to provide/monitor traffic information. H&H's (Prime Consultant) responsibilities included identifying the thirty-two (32) UAO's present along the corridors, attaining underground/overhead utility locates, permits, and proof of easements, initiating design meetings and providing guidance to design-build firms. Due to the breadth complexity of the project, H&H fostered an inclusive, continuously communicating working relationship among all Stakeholders.</p>	<p><input checked="" type="checkbox"/> Check if project performed with current firm</p>	
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
d.	PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
e.	PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Leonard Chiocca	13. ROLE IN THIS CONTRACT Senior Utility Coordinator	14. YEARS EXPERIENCE a. TOTAL 34 b. WITH CURRENT FIRM 3	
15. FIRM NAME AND LOCATION (City and State) Hardesty & Hanover, LLC – Sunrise, FL			
16. EDUCATION (DEGREE AND SPECIALIZATION) A.A. Electronics		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
a. Districtwide Utility Coordination and Contract Production Support - FDOT District 4	PROFESSIONAL SERVICES 4/11 - Ongoing	CONSTRUCTION (If Applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Utility Coordinator responsible for overseeing the utility coordination efforts on FDOT in-house design projects. Task work orders involve identification of existing/proposed utilities, determination of eligibility of compensable interests, resolution of conflicts between utilities and proposed construction, securing executed legal agreements to clear projects for letting, and analyzing and certifying utility relocation schedules for compatibility to FDOT construction schedules.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Districtwide Utility Coordination Services, Broward County, FL - FDOT District 4	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2010-2012 CONSTRUCTION (If Applicable)	
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Contract consists of providing Utility Coordination services on in-house FDOT design projects throughout District 4, including identifying existing/proposed utilities and establishing initial contacts with UAO's; scheduling/conducting utility design meetings; transmitting utility work schedules, agreements, and marked plans between UAO's and the District; offering utility expertise upon request; providing utility certification to the District Utility Engineer; determining eligibility for compensable interests and assisting the District Utility Office with related information; identifying/resolving conflicts between UAO's facilities and proposed construction; and analyzing/certifying utility relocation schedules for compatibility with FDOT construction schedules. Senior Utility Coordinator for this task-work-order driven contract.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) SR-A1A/Ocean Drive Shoreline Stabilization, St. Lucie County, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 4/11 – Ongoing CONSTRUCTION (If Applicable)	
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This environmentally sensitive project proposes to install permanent erosion control measures (sheet pile walls, geosynthetic mats, riprap, etc.) along the limits of the SR-A1A corridor to prevent damage from storm surge and potential washover during hurricanes and other severe weather events. Mr. Chiocca is the Senior Utility Coordinator , as there are numerous major utility owners within a narrow right-of-way envelope.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) SR-809/Military Trail from Lake Worth Rd. (SR-802) to S. of Southern Blvd (SR-80) (4.0 miles), Greenacres/Palm Springs, Palm Beach County, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 10/11 – Ongoing CONSTRUCTION (If Applicable)	
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Utility Coordinator for this project which involves milling and resurfacing a four-mile section of this highly trafficked urban corridor, as well as signalization improvements at seven intersections, upgrades to signing and pavement markings, transit improvements, ADA upgrades, and provisions for uninterrupted bicycle lanes. Other project-specific issues include mitigating for hazardous vertical drop-offs at canal culvert end walls, reconstruction of curb ramps at side street connections to eliminate ponding areas, addressing drainage pipe and inlet settling, and providing additional lighting to improve safety at signalized intersections.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
<input checked="" type="checkbox"/> Check if project performed with current firm		

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

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Lazaro Fleitas, PSM	Senior Surveyor & Mapper	a. TOTAL 26	b. WITH CURRENT FIRM 7
15. FIRM NAME AND LOCATION (City and State) Marlin Engineering, Inc., Doral, FL			
16. EDUCATION (DEGREE AND SPECIALIZATION)		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Florida Professional Surveyor and Mapper Lic. No. 6518	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Survey Services for West Lakes BCDE, Town of Miami Lakes, FL	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable)
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Fleitas was the Senior Surveyor & Mapper for this project. The scope of work included the following: Establishing control points, establishing elevations, providing drainage as-builts, full Topography Survey/ Digital Terrain Model (DTM). Also establishing job and instate plane coordinates. The project consisted of drainage improvements, milling and resurfacing of roadway, and the replacement of existing signing and pavement markings.		
<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
TMB Peninsula Aviation Leasehold Survey – Kendall-Tamiami Executive Airport, Miami, FL	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable)
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Fleitas is the Senior Surveyor & Mapper for this project. Mr. Fleitas is responsible for NGS points recovery, section corners recovery, state plane coordinate in NAD 83/07, establish vertical and horizontal control points, topography survey, establish leasehold boundary survey, and legal description.		
<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Greenways Biscayne Trail Segments C from North Canal Drive to Black Point Park along L-31E Canal, Miami, FL	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable)
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Fleitas was the Senior Surveyor & Mapper for this project. Mr. Fleitas established vertical and horizontal controls as well as baseline survey, showed record right of way line, topography survey, check sections, and DTMS. The scope of services consisted of engineering services, which included the planning, design, permitting, and construction administration services, for the implementation of various greenway network and support amenities.		
<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
AD Barnes Park Improvement, Miami, FL	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable)
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Fleitas was the Senior Surveyor & Mapper for this project. Mr. Fleitas was responsible for boundary survey, topography survey, and tree survey. The scope of services consisted of engineering services, which included the planning, design, permitting, and construction administration services, for the implementation of various greenway network and support amenities at trailheads for the North Miami Dade areas.		
<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Park Trail Improvements PSA, Miami, FL	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable)
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Fleitas was the Senior Surveyor & Mapper for this project. This project entailed Baseline of Survey, Right of way Lines, Topography Survey, Bench Marks, Network Control, and Cross sections. The scope of services consisted of engineering services, which included the planning, design, permitting, and construction administration services, for the implementation of various greenway network and support amenities at trailheads for the North Miami Dade areas.		
<input checked="" type="checkbox"/> Check if project performed with current firm		

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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	
Omar Carcamo	Survey Technician	a. TOTAL 19	b. WITH CURRENT FIRM 10
15. FIRM NAME AND LOCATION <i>(City and State)</i> Marlin Engineering, Inc., Doral, FL			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelors in Science for Construction Management		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i>	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Intermediate Maintenance of Traffic			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
Survey Services for West Lakes BCDE, Town of Miami Lakes, FL		PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE a. Mr. Carcamo was the Survey Technician for this project. The scope of work included the following: Establishing control points, establishing elevations, providing drainage as-builts, full Topography Survey/ Digital Terrain Model (DTM). Also establishing job and instate plane coordinates. The project consisted of drainage improvements, milling and resurfacing of roadway, and the replacement of existing signing and pavement markings.		<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
TMB Peninsula Aviation Leasehold Survey – Kendall-Tamiami Executive Airport, Miami, FL		PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE b. Mr. Carcamo is the Survey Technician for this project. Mr. Carcamo is responsible for NGS points recovery, section corners recovery, state plane coordinate in NAD 83/07, establish vertical and horizontal control points, topography survey, establish leasehold boundary survey, and legal description.		<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
Greenways Biscayne Trail Segments C from North Canal Drive to Black Point Park along L-31E Canal, Miami, FL		PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE c. Mr. Carcamo was the Survey Technician for this project. Mr. Carcamo established vertical and horizontal controls as well as baseline survey, showed record right of way line, topography survey, check sections, and DTM. The scope of services consisted of engineering services, which included the planning, design, permitting, and construction administration services, for the implementation of various greenway network and support amenities.		<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
AD Barnes Park Improvement, Miami, FL		PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE d. Mr. Carcamo was the Survey Technician for this project. The scope of work included boundary survey, topography survey, and tree survey. The scope of services consisted of engineering services, which included the planning, design, permitting, and construction administration services, for the implementation of various greenway network and support amenities at trailheads for the North Miami Dade areas.		<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
Park Trail Improvements PSA, Miami, FL		PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE e. Mr. Carcamo was the Survey Technician for this project. This project entailed Baseline of Survey, Right of way Lines, Topography Survey, Bench Marks, Network Control, and Cross sections. The scope of services consisted of engineering services, which included the planning, design, permitting, and construction administration services, for the implementation of various greenway network and support amenities at trailheads for the North Miami Dade areas.		<input checked="" type="checkbox"/> Check if project performed with current firm	

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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	
Alexis Rego, CBI	Senior Certified Bridge Inspector	a. TOTAL 13	b. WITH CURRENT FIRM 13
15. FIRM NAME AND LOCATION <i>(City and State)</i> Marlin Engineering, Inc., Doral, FL			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Business Administration		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Certified Bridge Inspector # 409, Florida	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> OSHA Fall Protection, CPR Certified, Construction Safety Course, PADI Rescue Diver, FHWA Underwater Bridge Inspection Training, MOT Advanced			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> Districtwide Local Government In-Depth Bridge Inspection - CardSound Road, Key West, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm a. Mr. Rego was the inspector on this assignment which entailed underwater & topside inspection of all the bridge elements, fracture critical elements, and scour analysis. This was a routine biennial topside & underwater inspection of a 2800 ft long bridge with 37 approach spans composed of pre-stressed concrete girders and 3 main spans of fracture critical steel girders with floor beams and stringer systems over the intercoastal waterways in the Florida Keys.		
(1) TITLE AND LOCATION <i>(City and State)</i> Districtwide Local Government In-Depth Bridge Inspection - Rickenbacker Causeway, Miami, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2009	CONSTRUCTION <i>(If applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm b. Mr. Rego was the inspector on this assignment which entailed underwater & topside inspection of all the bridge elements and scour analysis. This was a routine biennial topside & underwater inspection of a 3600 ft long bridge with 35 spans of pre-stressed concrete girders over the intercoastal waterways in Biscayne Bay, Miami, Florida. This is a highway pedestrian bridge built in 1985 with a navigation clearance of 70 ft on the main channel.		
(1) TITLE AND LOCATION <i>(City and State)</i> Florida Keys Asset Management Contract- Long Key Bridge, Key West, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm c. Mr. Rego was the inspector on this assignment which entailed underwater & topside inspection of all the bridge elements, including tendons on the segmental bridges, fracture critical elements, and scour analysis. This was a routine biennial topside & underwater inspection of a 12,000 ft long segmental box girder bridge with 103 spans of composed pre-stressed & post tensioning continuous box girders. This is a highway bridge on US1 in the Florida Keys.		
(1) TITLE AND LOCATION <i>(City and State)</i> Florida Keys Asset Management Contract- 7 mile Bridge, Key West, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm d. Mr. Rego was the inspector on this assignment which entailed underwater & topside inspection of all the bridge elements, including tendons on the segmental bridges, fracture critical elements, and scour analysis. This was a routine biennial topside & underwater inspection of a 35,870 ft long segmental box girder bridge with 266 spans of composed pre-stressed & post tensioning continuous box girders with a navigation clearance of 65 feet.		
(1) TITLE AND LOCATION <i>(City and State)</i> Florida Keys Asset Management Contract-Channel 5 Bridge, Key West, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm e. Mr. Rego was the inspector on this assignment which entailed underwater & topside inspection of all the bridge elements, including tendons on the segmental bridges, fracture critical elements, and scour analysis. This was a routine biennial topside & underwater inspection of a 5,000 ft long segmental box girder bridge with 37 spans of composed pre-stressed & post tensioning continuous box girders with a navigation clearance of 65.3 feet.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Raj Krishnasamy, P.E.	13. ROLE IN THIS CONTRACT Principal Geotechnical Engineer	14. YEARS EXPERIENCE <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-bottom: 1px solid black;">a. TOTAL</td> <td style="width: 50%; border-bottom: 1px solid black;">b. WITH CURRENT FIRM</td> </tr> <tr> <td style="text-align: center;">25</td> <td style="text-align: center;">13</td> </tr> </table>		a. TOTAL	b. WITH CURRENT FIRM	25	13
a. TOTAL	b. WITH CURRENT FIRM						
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

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	SFRC Bascule Bridge over the South Fork of the New River Broward County, Florida	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable)
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> 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.		
	FDOT District 4 Unknown Foundations Bridge Scour Evaluation Broward County, Florida	PROFESSIONAL SERVICES 2011	CONSTRUCTION (If applicable)
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> 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 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, and Kings Highway over Belcher Canal amongst others.		
	Spangler Road Bypass – Geotechnical Engineering Study Port Everglades, Florida	PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable)
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> 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.		
	Pembroke Road Bridge over I-75 Broward County, Florida	PROFESSIONAL SERVICES 2011	CONSTRUCTION (If applicable)
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> 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.		

STANDARD FORM 330

CAM# 17-1015

Exhibit 3

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(1) TITLE AND LOCATION <i>(City and State)</i> CR-811/Dixie Highway Fly-Over Broward & Palm Beach Counties, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <div style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</div> <p>e. 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.</p>		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS PROJECT

(Complete one Section E for each Person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Mark S. Gosselin, Ph.D., P.E.	Coastal and Hydraulic Engineering	a. TOTAL 24	b. WITH CURRENT FIRM 11
15. FIRM NAME AND LOCATION (City and State) INTERA Incorporated, Gainesville, FL (formerly known as Ocean Engineering Associates, Inc.)			
16. EDUCATION (DEGREE AND SPECIALIZATION) PhD, Coastal and Oceanographic Engineering MS, Naval Architecture and Offshore Structures BA, Engineering Sciences		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: Florida, Louisiana	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS

a.	(2) YEAR COMPLETED			
	<table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (If applicable)</td> </tr> <tr> <td>2013-2014</td> <td>Ongoing</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2013-2014
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)			
2013-2014	Ongoing			
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm INTERA Project Manager. Provided management oversight for the design/build project involving development of the design hydraulic and scour parameters at the bridge for a widening project. The hydraulic analysis included an application of ADCIRC to determine the 50-, 100-, and 500-year return period storm surge conditions at the bridge crossing. The project also involved application of the FDOT rock scour procedure to determine the local scour in the near-surface rock layer. Testing of the rock indicated that the scour resistant material would produce less scour, which resulted in lower design embedment depths for the widened portion substructure.				
b.	(2) YEAR COMPLETED			
	<table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (If applicable)</td> </tr> <tr> <td>2012</td> <td>N/A</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2012
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)			
2012	N/A			
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager/Co-author. Developed the coastal engineering, coastal hydraulics and scour portions of the new publication for the FDOT. The Bridge Hydraulics Handbook is a reference for designers of FDOT projects and to provide guidelines for the hydraulic analysis and design of bridges, including scour. These guidelines were developed to help the hydraulics engineer meet the standards addressed in the FDOT Drainage Manual. The coastal engineering portions included development, calibration, and simulation of hurricane storm surge and wave climate during design events and design of coastal protection with regards to transportation infrastructure.				
c.	(2) YEAR COMPLETED			
	<table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (If applicable)</td> </tr> <tr> <td>2013</td> <td>Planned</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2013
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)			
2013	Planned			
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm INTERA Project Manager and Lead Engineer. Provided design assistance for the development of scour protection for the bascule, rest pier, and approach pier substructure elements. Work included specification of the protection type (marine mattress), extents, design calculations, and anchoring system. Work also included review of plans and specifications developed by the prime design firm.				
d.	(2) YEAR COMPLETED			
	<table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (If applicable)</td> </tr> <tr> <td>2007</td> <td>N/A</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2007
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)			
2007	N/A			
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm INTERA Project Manager. Managed the development of Bridge Hydraulics Reports for 10 bridges on and near the Intracoastal Waterway within Broward County. Reports include development of the design flows, storm surge, scour, and wave impact at each of the bridges.				
e.	(2) YEAR COMPLETED			
	<table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (If applicable)</td> </tr> <tr> <td>2002 – 2003</td> <td>N/A</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2002 – 2003
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)			
2002 – 2003	N/A			
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Reviewer. Provided quality control as well as some model development and calibration for the development of nine numerical models of the Intracoastal Waterway for simulating the design conditions at bridges associated with hurricane storm surges. Also developed flow boundary conditions and performed report write-ups.				

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)*

22. YEAR COMPLETED

NW 17th Avenue Bridge over the Miami River - Miami, Florida

PROFESSIONAL SERVICES
2008

CONSTRUCTION (if Applicable)
2009

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER
Miami-Dade County

b. POINT OF CONTACT NAME
Marcos Redondo, PE

c. POINT OF CONTACT TELEPHONE NUMBER
305.375.3848

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



Hardesty & Hanover provided rehabilitation design engineering services for this double leaf, simple trunnion type bascule span bridge constructed in 1928. The project was bid as a traditional design/bid/build project. However, after the start of construction it was realized that the Contract Plans for the project no longer were representative of the rapidly deteriorating bridge. H&H was hired by PCL Constructors Inc. with consent from Miami-Dade County to value engineer the rehabilitation project and provide the design for the extensive repairs that were not originally anticipated. The bridge was closed to vehicular traffic and a new work plan was developed.

H&H developed the construction plans and specifications to implement the \$10 million rehabilitation to the bridge and provide post design engineering services during construction. Replacement of the stringers and floorbeams in lieu of repair was required due to the severity of the corrosion discovered. The rehabilitation included bascule span floor system replacement, grating replacement, bridge barrier replacement, pedestrian railing replacement, structural steel painting, lock bar replacement, strain gauge balance analysis, and span balancing services. Repairs were also accomplished on the bascule girders due to unknown deterioration to the girder webs behind connection plates. In addition, the open gearing operating machinery was replaced with a hydraulic gear motor directly driving the main rack pinion. The entire electrical control system to operate the new hydraulic motor was also provided for this fast-track project.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.	Hardesty & Hanover	Sunrise, FL	Sub-consultant
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 2
21. TITLE AND LOCATION (City and State) Miami Avenue Twin Bascule Bridges - Miami-Dade, Florida		22. YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (if Applicable) Ongoing

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Miami-Dade County	b. POINT OF CONTACT NAME Marcos Redondo, PE	c. POINT OF CONTACT TELEPHONE NUMBER 305.375.3848
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)



The Miami Avenue Bridge, located in the heart of downtown Miami at the mouth of Miami River, was built in 1985 and consists of two parallel ten span bridges carrying three northbound and three southbound lanes over the Miami River. The twin structures have an overall length of 626 feet and the double leaf Hopkins trunnion type drawbridges span 196 feet. The bascule span has a two bascule plate girder system with a floor system consisting of stringers and floorbeams supporting an open grating. The mechanical lifting system consists of hydraulic cylinders with hydraulic power units.

H&H carried out a bridge inspection of the structural, mechanical, electrical and painting systems to identify what repairs were needed and to provide a bridge inspection report with repair/modification/replacement recommendations, cost estimates and prioritization of repairs.

H&H provided rehabilitation design engineering services which included replacement of the open steel grating, span lock system and lateral bracing hangers, painting the entire bascule span, strengthening/modifying the existing span lock support brackets and providing new span lock support brackets, miscellaneous repairs to the bascule girders, span hydraulic operating machinery and trunnions and modifying the existing electrical control system to accommodate the new span locks.

Construction is expected to commence in the spring of 2014 with completion in 2015 and H&H will provide post-design services.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Hardesty & Hanover	(2) FIRM LOCATION (City and State) Sunrise, FL	(3) ROLE Prime
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
f.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

STANDARD FORM 330 (6/2004) PAGE 3

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 3		
21. TITLE AND LOCATION <i>(City and State)</i> Mathers Bridge over Banana River - Indian Harbor Beach, Florida		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2006</td> <td>CONSTRUCTION (if Applicable)</td> </tr> </table>	PROFESSIONAL SERVICES 2006	CONSTRUCTION (if Applicable)
PROFESSIONAL SERVICES 2006	CONSTRUCTION (if Applicable)			

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Brevard County	b. POINT OF CONTACT NAME Bruce Auchter	c. POINT OF CONTACT TELEPHONE NUMBER 321.617.7202
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*



The original Mathers Swing Bridge was constructed in 1927. The bridge was a center pivot type Warren Pony Truss which spanned over the Banana River, connecting Merritt Island with the adjacent barrier island at Indian Harbor Beach. Prestressed Concrete approach spans replaced the original timber approach spans in 1977. The bridge carried a very narrow two lane roadway to a very secluded residential area of Merritt Island. The total length of the bridge is 792 feet.

The first phase of the project consisted of a Preliminary Engineering Report, to determine rehabilitation alternatives. The study investigated bascule span and swing span replacement options, raising the existing profile to minimize openings for navigable vessels and improving the existing cross section.

H&H performed an in-depth inspection of the structural, mechanical and electrical systems of the bridge to determine rehabilitation feasibility. The most viable solution provided replacement of the swing span in-kind with the exception of a wider roadway and the inclusion of a sidewalk to match the existing approach roadways. A box girder swing span was also a viable alternative; however the Pony truss matching the existing swing span met the aesthetic and historic needs of the site.

H&H provided swing span replacement and control house renovation plans to improve the roadway geometry, pedestrian access, bridge operation and appearance. The swing span replacement included structural, mechanical and electrical plans for the new wider swing span. The Control House was renovated to provide an "Old Florida" appearance.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Hardesty & Hanover	(2) FIRM LOCATION <i>(City and State)</i> Sunrise, FL	(3) ROLE Prime
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

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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) Districtwide Miscellaneous Structural Projects, Miami -Dade, FL		22. YEAR COMPLETED PROFESSIONAL SERVICES 2010
		CONSTRUCTION (If Applicable)

23. PROJECT OWNER'S INFORMATION

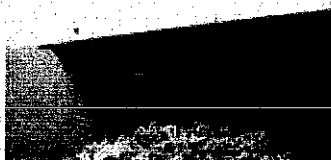
a. PROJECT OWNER FDOT - District 6	b. POINT OF CONTACT NAME Dennis Fernandez	c. POINT OF CONTACT TELEPHONE NUMBER 305.470.5182
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)



63rd Street Bridge over Indian Creek Canal - Miami, FL - The 63rd Street Bridge over the Indian Creek Canal located in Miami Beach is a 10 span low level bridge consisting of prestressed concrete voided slab superstructure supported on prestressed concrete pile bents. The project consisted of concrete superstructure and substructure repair design to lengthen the bridge useful life. An in-depth inspection of the entire structure was performed by Hardesty & Hanover to evaluate the deterioration and feasible repair options, locate the necessary concrete repairs, and determine the quantity of repairs required. The superstructure repairs included concrete spall and epoxy injection crack repairs of the AASHTO type prestressed concrete beams and splicing of deteriorated pre-stressing strands. The substructure repairs included the installation of cathodic

protection pile jackets due to the severely corroded condition of over 130 piles. Impressed current cathodic protection was evaluated as the best alternative to repairing the concrete piles in regard to durability and economics. The electrical design and utility coordination for the cathodic system was also performed, including providing the electric service. Superstructure repairs were also performed on the underside of the voided deck slabs. The slabs were repaired with concrete epoxy mortar and carbon fiber reinforcement.



Overseas Highway (US1) over Channel 2

Miami, FL - The State Road 5 Bridge over Channel Two is located at the south end of Lower Matecumbe key on State Road 5 in Monroe County, Florida. State Road 5 is a northeast southwest route through the Florida Keys. Hardesty & Hanover was contracted by FDOT District 6 to perform an inspection and provide a condition report, repair plans and provide Post Design Services. As a result of our inspection findings, the construction work included spall and crack repairs, joint repair and the installation of pile jackets with impressed current cathodic protection.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Hardesty & Hanover	(2) FIRM LOCATION (City and State) Sunrise, FL	(3) ROLE Prime
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
f.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

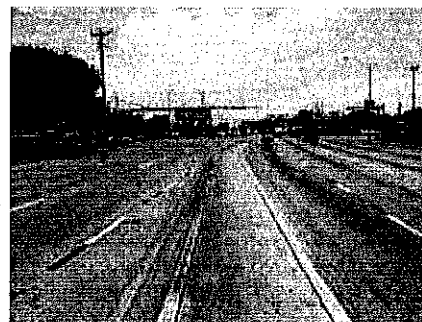
F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)		20. EXAMPLE PROJECT KEY NUMBER 5
21. TITLE AND LOCATION (City and State) Districtwide Miscellaneous P.E. Design Consultant. Miami, FL		22. YEAR COMPLETED PROFESSIONAL SERVICES 2013
		CONSTRUCTION (if Applicable)

23. PROJECT OWNER'S INFORMATION

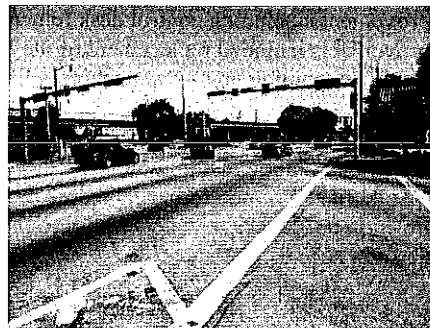
a. PROJECT OWNER FDOT – District 6	b. POINT OF CONTACT NAME Danny Iglesias	c. POINT OF CONTACT TELEPHONE NUMBER 305.470.5289
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

SR 924/NW 119th St and NW 27th Ave Intersection Improvements, FDOT D6 Districtwide Miscellaneous, Miami-Dade County, FL - The improvements for this Work Order consist of milling, resurfacing, pavement widening, striping, signing, signalization upgrades and general safety improvements such as curb ramp reconstruction and pedestrian countdown pushbuttons installation (II). This intersection is the Lead Project of four (4) strung, intersection improvement projects located in Miami-Dade County along SR 924/NW 119th St. Contract commencement began October 2010 and planned for completion on June 2012 (IV).



SR 924/NW 119th St and NW 22nd Ave Intersection Improvements, FDOT D6 Districtwide Miscellaneous, Miami-Dade County, FL - Proposed improvements consist of milling, resurfacing, pavement widening, striping and signing. Operational improvements included provision for offset between left turn lanes and through lanes (II). This project is to be strung with SR 924/NW 119th St and NW 27th Ave. Contract commencement began October 2010 and planned for completion on June 2012 (IV). Contract commencement began October 2010 and planned for completion on June 2012 (IV).



SR 953/Lejeune Rd and SR 5/US 1 Intersection Improvements, FDOT D6 Districtwide Miscellaneous, Miami-Dade County, FL - The improvements for this Work Order consist of milling, resurfacing, pavement widening, striping, signing, signalization upgrades and general safety improvements such as curb ramp Reconstruction and pedestrian countdown pushbuttons installation (II). Also, scope of work included analysis of additional loading on existing mast arms, mast arm design, development of variations packages and construction cost estimates. Contract commencement began April 2011 and planned for completion on July 2012 (IV).

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Hardesty & Hanover	(2) FIRM LOCATION (City and State) Sunrise, FL	(3) ROLE Prime
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
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 6
21. TITLE AND LOCATION (City and State) Parker Bridge (US 1) over the Intracoastal Waterway North Palm Beach, Florida	22. YEAR COMPLETED PROFESSIONAL SERVICES 2010	

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER FDOT - District 4	b. POINT OF CONTACT NAME Fausto Gomez	c. POINT OF CONTACT TELEPHONE NUMBER 954.777.4466

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



H&H contracted with FDOT to provide the first Construction Management @ Risk bridge project for the FDOT. The Parker Bridge is a twin, double-leaf, Hopkins trunnion type, bascule span bridge with steel rolled stringer approach spans located in North Palm Beach, Florida. The total length of the bridge is 650 feet. The bridge consists of a north-bound and south-bound structure constructed in 1964. H&H provided inspection, design and construction support services.

H&H developed construction plans and specifications to implement the recommended \$11.0 million rehabilitation with assistance from the Construction Manager (PCL Civil Constructors) and in close coordination with FDOT District 4 Maintenance to provide efficient and constructible designs. H&H, PCL and FDOT worked as a team to streamline the design, procurement and construction process.

The second phase of the project developed the construction plans and specifications to implement the recommended \$11-million rehabilitation. The rehabilitation included bridge widening to improve pedestrian access across the bridge for the neighboring communities. This consisted of providing sidewalks on each side of the bridge protected by a crash tested traffic railing at the curb. The existing railing was removed and replaced with a 3'-6" pedestrian railing. In addition to the widening of the roadway, a bascule span rehabilitation and control house renovation was accomplished. The bascule span rehabilitation included electrical system improvements including control desk relocation to the new upper level of the control house and new submarine cables. Mechanical improvements included replacement of the hydraulic actuation operating machinery with a hydraulic gear motor rotating the existing rack and new pinion on a new machinery frame. New lockbars were installed at roadway level in the roadway barrier to ease maintenance.

Structural member rehabilitation included replacement of the lateral bracing roadway grating, sidewalk brackets for the wider sidewalk, in addition to re-balancing the reconfigured bascule span. The rehabilitation also involved control house renovation. The renovation provided a new upper level to the control house to provide better view corridors for the wider bridge with improved pedestrian access.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Hardesty & Hanover	(2) FIRM LOCATION (City and State) Sunrise, FL	(3) ROLE Sub-consultant
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
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 <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 7
21. TITLE AND LOCATION (City and State) Districtwide Utility Coordination Services – Broward County, FL		22. YEAR COMPLETED PROFESSIONAL SERVICES 2010
		CONSTRUCTION (if Applicable)

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER FDOT – District 4	b. POINT OF CONTACT NAME May Sanchez	c. POINT OF CONTACT TELEPHONE NUMBER 954.777.4128
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

SR 838/Sunrise Blvd Bridge Replacement Over the Middle River, FDOT D4 Utility Coordination, Broward County, FL

This Sunrise Blvd Bridge Replacement Project consists of all work associated with the process of utility coordination and certification for this bridge replacement for FDOT District 4 in Broward County, FL. The Sunrise Blvd Bridge Replacement Project's scope of work consisted of fostering an inclusive working environment among all Project Team Members/Stakeholders, including FDOT Staff (i.e. Highway, Structures, Right-of-Way, Maintenance, etc.), Utility Agency Owners (UAO's), local municipalities (City of Fort Lauderdale, Broward County, etc.) and residents. In addition, the project scope consisted of securing pertinent documents from FDOT, UAO's and Municipalities in order to certify all subsurface/overhead utilities as well as initiating/coordinating/executing/facilitating Joint Partnership Agreements on behalf of Project Stakeholders (II), in effect delivering a superlative product within the parameters as defined by the Department (schedule, budget, District Practices and Guidelines, etc.). H&H's comprehension of local, state and federal laws and ordinances exemplifies its efficacy in administering a Contract of this type. Contract commencement occurred on May 2010 and is scheduled for completion on November 2011 (IV).

Advanced Traffic Management System (ATMS) Request for Proposal (RFP) Package, FDOT D4 Utility Coordination, Broward County, FL

This RFP Package consists of more than 33 miles of highway corridors in Central Broward County proposed to undergo Advanced Traffic Management System (ATMS) improvements (II). The ATMS will utilize traffic monitoring cameras, dynamic message signs, passenger advisory signs and data collection devices to provide/monitor traffic information. H&H's (Prime Consultant) responsibilities included identifying the thirty-two (32) UAO's present along the corridors, attaining underground/overhead utility locates, permits, and proof of easements, initiating design meetings and providing guidance to design-build firms. Due to the breadth complexity of the project, H&H fostered an inclusive, continuously communicating working relationship among all Stakeholders. Contract commencement occurred on May 2010 and is scheduled for completion on November 2011 (IV).



**Know what's below.
Call before you dig.**

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Hardesty & Hanover	(2) FIRM LOCATION (City and State) Sunrise, FL	(3) ROLE Prime
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
f.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

STANDARD FORM 330 (6/2004) PAGE 3

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
8

21. TITLE AND LOCATION *(City and State)*

Districtwide Bridge Engineering Design/CEI Support Services-
FDOT District 1

22. YEAR COMPLETED

PROFESSIONAL SERVICES
Ongoing

CONSTRUCTION (if Applicable)

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER
FDOT – District 1

b. POINT OF CONTACT NAME
Bronoris Pye

c. POINT OF CONTACT TELEPHONE NUMBER
813.975.7589

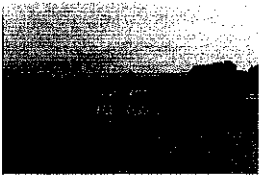
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Hardesty & Hanover has rehabilitated three movable bridges as part of the on-call District 1 Miscellaneous Structural Projects and Minor Design.



Siesta Key Bridge Over the Gulf Intracoastal Waterway

H&H provided rehabilitation services to this Hopkins trunnion double leaf bascule bridge located in Sarasota County. The major rehabilitation scope items were the replacement of the bascule leaf open grating; replacement of the tender house windows; replacement of control system; mechanical repairs.



Taylor Creek Bridge

H&H provided rehabilitation services to this Hopkins trunnion single leaf bascule bridge located in Okeechobee County. The major rehabilitation scope items were the replacement of the tender house windows; replacement of control system; mechanical repairs.

Cortez Bridge Over the Gulf Intracoastal Waterway

H&H provided rehabilitation services to this Hopkins trunnion double leaf bascule bridge located in Manatee County. The major rehabilitation scope items were the replacement of the replacement of the tender house windows; replacement of control system; and mechanical repairs.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.	Hardesty & Hanover	Sunrise, FL	Prime
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

STANDARD FORM 330 (6/2004) PAGE 3

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
9

21. TITLE AND LOCATION *(City and State)*

**Districtwide Bridge Engineering Design/CEI Support Services-
On Call - FDOT District 7**

22. YEAR COMPLETED

PROFESSIONAL SERVICES
Ongoing

CONSTRUCTION (If Applicable)

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER
FDOT - District 7

b. POINT OF CONTACT NAME
Gregory Deese, PE

c. POINT OF CONTACT TELEPHONE NUMBER
813.975.7581

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

Hardesty & Hanover has rehabilitated three movable bridges as part of the on-call District 7 Miscellaneous Structural Projects and Minor Design.

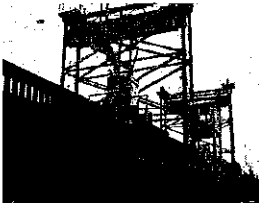
West Bound Hillsborough Avenue Bridge over the Hillsborough River

Simple trunnion double leaf bascule bridge located in Tampa, Hillsborough County. The major rehabilitation scope items were the replacement of the undersized and difficult to access lock bars with new barrier mounted lock bars; stiffening of the flanking span transverse girder and bascule leaf floorbeam between the trunnion and counterweight girder; and PLC replacement.



East Bound Hillsborough Avenue Bridge over the Hillsborough River

Historically significant span driven vertical lift bridge located in Tampa, Hillsborough County. The major rehabilitation scope items were the replacement of broken uphaul sheaves; replacement of uphaul wire ropes; counterweight repairs; and counterweight sheave repairs.



Bayway Structure "E" over the Gulf Intracoastal Waterway

Hopkins trunnion double leaf bascule located in Pinellas county. The major rehabilitation scope items were a full electrical system upgrade; mechanical repairs; and the tender house window replacement.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.	Hardesty & Hanover	Sunrise, FL	Prime
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

STANDARD FORM 330 (6/2004) PAGE 3

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 10
21. TITLE AND LOCATION (City and State) Atlantic Boulevard over the Intracoastal Waterway Pompano Beach, Florida		22. YEAR COMPLETED PROFESSIONAL SERVICES 2010

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER FDOT - District 4	b. POINT OF CONTACT NAME John Danielsen	c. POINT OF CONTACT TELEPHONE NUMBER 954.777.4202

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



H&H contracted with FDOT to provide the first Construction Management @ Risk bridge project for the FDOT. H&H provided an in-depth inspection of the structural, mechanical and electrical systems, as well as an inspection report for this Hopkins Trunion double leaf bascule span built in 1952. The report included condition of the bridge, structural and mechanical load ratings and recommendations for a 15 year rehabilitation with cost estimate. PCL assisted during this phase to provide recommendations for the rehabilitation that were included in the final report recommendations.

H&H developed construction plans and specifications to implement the recommended \$4.0 million rehabilitation with assistance from the Construction Manager (PCL Civil Constructors) and in close coordination with FDOT District 4 Maintenance to provide efficient and constructible designs. H&H, PCL and FDOT worked as a team to streamline the design and procurement process.

The rehabilitation included concrete repairs to the substructure; fender system repairs, traffic and pedestrian railing replacement and bascule span superstructure rehabilitation; electrical system control replacement and lightning protection. Mechanical improvements included hydraulic component refurbishment, trunion bearing repairs, and span lock replacement. The span locks were relocated to the curb barriers to enhance maintenance access. The detail was accepted as an FDOT Standard design for future rehabilitation and new bascule design. Roadway improvements included relocation of the traffic barrier to the curb to protect the numerous pedestrians that utilize the bridge. Structural member repairs comprised of stringer and floorbeam bracket replacement and floorbeam repairs, in addition to re-balancing the span. The rehabilitation also included enlargement and architectural enhancement of the control house and asbestos abatement. H&H also provided construction support services.

The City of Pompano Beach was closely involved with this project to ensure the bridge was rehabilitated with pedestrian safety improvements and architectural improvements.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Hardesty & Hanover	(2) FIRM LOCATION (City and State) Sunrise, FL	(3) ROLE Sub-consultant
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
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
1

21. TITLE AND LOCATION <i>(City and State)</i>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Survey Services for West Lakes BCDE, Town of Miami Lakes, FL	2012	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Town of Miami Lakes	Gregory Netto	305.364.6100

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

The project consisted of drainage improvements including the replacement of existing catch basins, the addition of manholes, the addition of manholes, the addition of new pipe, the addition of French Drain, milling and resurfacing of roadway, and the replacement of existing signing and pavement markings.

The survey services performed consisted of: Reconnaissance Project Area, Recovery Control Stations, Recovery NGVD 29 Bench Marks, Recovery Block, properties and Center Line Corner, Establish State Plane Coordinates (NAD 83/90) by static GPS, Conventional Traverse along NW 151 Terrace and NW 83 Place, Level Run to establish Elevation to Control Points, Level Run to establish Elevation to Drainage Structures, Locate by Conventional Method Properties, Block and Center, Drainage Survey, and Topography Survey.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
(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)*

Underwater Bridge Inspection

22. YEAR COMPLETED

PROFESSIONAL SERVICES

CONSTRUCTION *(If applicable)*

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

FDOT District 6

b. POINT OF CONTACT NAME

Ulises Betancourt

c. POINT OF CONTACT TELEPHONE NUMBER

305-470-5427

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

Marlin Engineering, Inc., as both a prime and a major sub, has provided expert underwater bridge inspection services to the Florida Department of Transportation District 6 for two major contracts.

The Districtwide Local Government In-Depth Bridge Inspection contract entails the structural underwater inspection of over 330 On and Off System Bridge structures, including 11 bascule bridges. Marlin performed contract coordination with local agencies and the District and Inspection Team Leader. Our depth and experience allows us to innovate and create cost savings while refining the current bridge inspection process. Because our inspectors are cross-trained, we only need a three-man crew to perform both topside and underwater inspections.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

STANDARD FORM 330 (6/2004) PAGE 3

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 1
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21. TITLE AND LOCATION (City and State) Ocean Avenue Bridge Palm Beach County, Florida	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES On-going	CONSTRUCTION (if applicable)

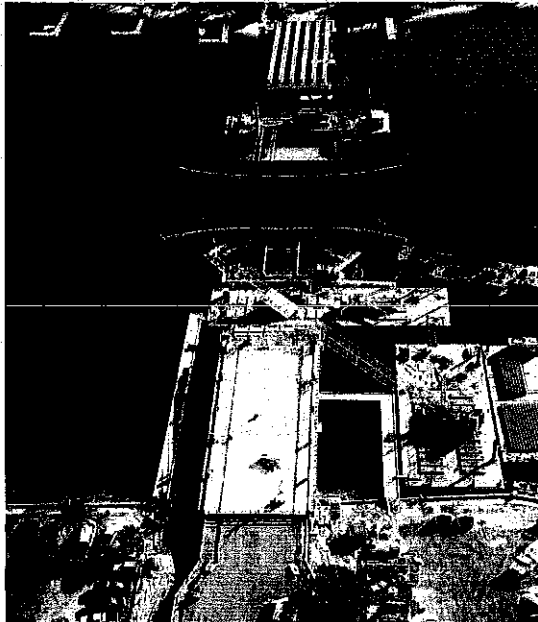
23. PROJECT OWNER'S INFORMATION		
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a. PROJECT OWNER URS	b. POINT OF CONTACT NAME Mr. Luis Costa, P.E.	c. POINT OF CONTACT TELEPHONE NUMBER (561) 862-1117
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)
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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

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

STANDARD FORM 330

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 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">PROFESSIONAL SERVICES</td> <td style="width: 50%; text-align: center;">CONSTRUCTION (If applicable)</td> </tr> <tr> <td style="text-align: center;">2011</td> <td></td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2011	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
2011						
23. PROJECT OWNER'S INFORMATION						
a. PROJECT OWNER Port Everglades	b. POINT OF CONTACT NAME Mr. John Foglesong	c. POINT OF CONTACT TELEPHONE NUMBER (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

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

STANDARD FORM 330

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 3		
21. TITLE AND LOCATION (City and State) Flagler Memorial Bridge Replacement Palm Beach County, Florida		22. YEAR COMPLETED <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">PROFESSIONAL SERVICES 2012</td> <td style="text-align: center;">CONSTRUCTION (If applicable)</td> </tr> </table>	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable)
PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable)			
23. PROJECT OWNER'S INFORMATION				
a. PROJECT OWNER Kimley-Horn & Associates, Inc.	b. POINT OF CONTACT NAME Mr. Gary Ratay, P.E.	c. POINT OF CONTACT TELEPHONE NUMBER (954) 535-5100		
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost) <p>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.</p>				

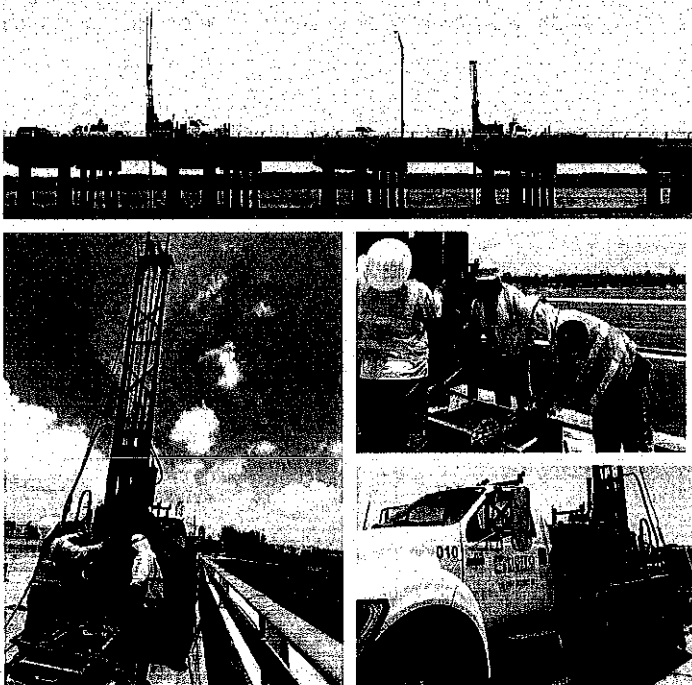
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Tierra South Florida, Inc.	(2) FIRM LOCATION (City and State) West Palm Beach, FL	(3) ROLE Geotechnical Engineering
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 <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <div style="font-size: 1.2em; margin-top: 5px;">4</div>				
21. TITLE AND LOCATION (City and State) Spangler Road Bypass at Port Everglades Broward County, Florida	22. YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; padding: 5px;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none; padding: 5px;">CONSTRUCTION (If applicable)</td> </tr> <tr> <td style="border: none; text-align: center; padding: 5px;">2010</td> <td style="border: none;"></td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2010	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
2010						
23. PROJECT OWNER'S INFORMATION						
a. PROJECT OWNER Craven Thompson & Associates	b. POINT OF CONTACT NAME Mr. Thomas McDonald	c. POINT OF CONTACT TELEPHONE NUMBER (954) 739-6400				
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost) <p>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.</p>						

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.	(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 <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <div style="border: 1px solid black; padding: 5px; width: 50px; margin: 0 auto;">5</div>		
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 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">PROFESSIONAL SERVICES 2013</td> <td style="width: 50%; text-align: center;">CONSTRUCTION (If applicable)</td> </tr> </table>	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable)
PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable)			
23. PROJECT OWNER'S INFORMATION				
a. PROJECT OWNER Hardesty & Hanover, LLC	b. POINT OF CONTACT NAME Mr. Timothy Noles, P.E.	c. POINT OF CONTACT TELEPHONE NUMBER (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

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

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 2013 CONSTRUCTION (If applicable)
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Jacobs Engineering	b. POINT OF CONTACT NAME Ms. Nandita Kaundinya, P.E.	c. POINT OF CONTACT TELEPHONE NUMBER (954) 246-1234
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost) <p>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.</p>		

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

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

STANDARD FORM 330

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <div style="font-size: 1.2em; margin-top: 5px;">7</div>				
21. TITLE AND LOCATION (City and State) Hatton Highway Bridge Over PDD Main Canal 2 Palm Beach County, Florida		22. YEAR COMPLETED <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="text-align: center; padding: 2px;">PROFESSIONAL SERVICES</td> <td style="text-align: center; padding: 2px;">CONSTRUCTION <i>(If applicable)</i></td> </tr> <tr> <td style="text-align: center; padding: 2px;">2013</td> <td></td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>	2013	
PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>					
2013						
23. PROJECT OWNER'S INFORMATION						
a. PROJECT OWNER R.J. Behar and Company, Inc.	b. POINT OF CONTACT NAME Mr. Sean O'Keefe, P.E.	c. POINT OF CONTACT TELEPHONE NUMBER (561) 333-7000				
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i> <p>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.</p> <p>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.</p>						

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

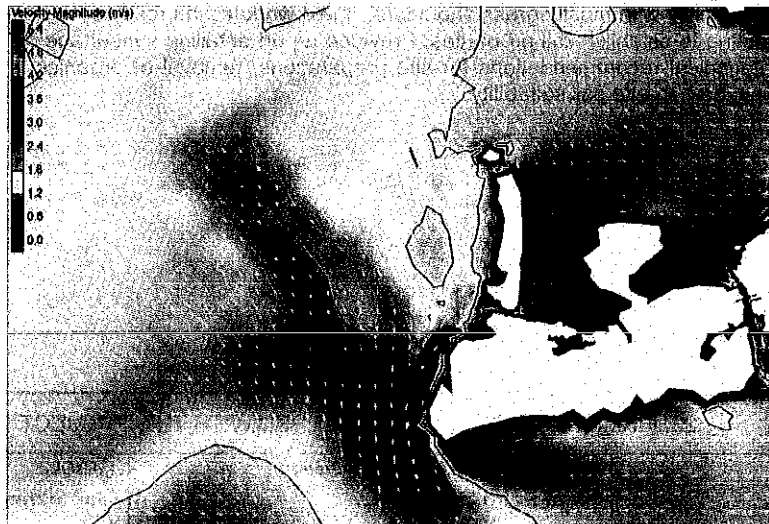
a.	(1) FIRM NAME Tierra South Florida, Inc.	(2) FIRM LOCATION (City and State) West Palm Beach, FL	(3) ROLE Geotechnical Engineering
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(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 <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER
21. TITLE AND LOCATION (City and State) Hydrodynamic Modeling for the Key West Harbor and Navigation Channel Shoaling Analysis, FL	22. YEAR COMPLETED PROFESSIONAL SERVICES 2009	

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER USACE, Jacksonville District, FL	b. POINT OF CONTACT Steven M. Bratos	c. POINT OF CONTACT TELEPHONE NUMBER (904) 232-1824

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

As a subcontractor for a Jacksonville District U.S. Corps of Engineers, INTERA simulated historical storm events to compute hydrodynamic conditions (circulation, currents, and water levels) in and near the federal navigation channel at Key West in support of the District's M2D, MDFATE, and LTFATE modeling of channel sedimentation rates. This project, building upon a Florida Department of Transportation study, involved 1) an extensive data/information search and compilation, 2) a field measurement program to provide calibration data for the modeling, 3) acquisition of meteorological data for as many as 40 storms that have impacted the area, 5) hindcasting of approximately 40 historical storms, and 6) statistical analyses of the data produced by the model runs. INTERA worked closely with the District to provide hydraulic conditions to perform sediment transport modeling and evaluate shoaling within the channel. USACE applied the results to develop a long term maintenance plan to budget for maintenance dredging of the Key West Harbor and channels that may result from storm generated shoaling and to identify disposal management sites and plans. INTERA provided USACE a final report documenting model setup, input data preparation, model calibration and verification, measured data and simulated boundary conditions. Cost: \$95,000



Simulated storm-induced currents provided input for USACE MDFATE, LTFATE, and M2D modeling of sedimentation

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
	INTERA Incorporated (formerly Ocean Engineering Associates, Inc.)	Gainesville, FL	Subcontractor
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 <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER				
21. TITLE AND LOCATION (City and State) Florida Department of Transportation (FDOT) Infrastructure Vulnerability Pilot Study Phase I II and III, FL.	22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (If applicable)</td> </tr> <tr> <td>2009</td> <td></td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2009	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
2009						

23. PROJECT OWNER'S INFORMATION

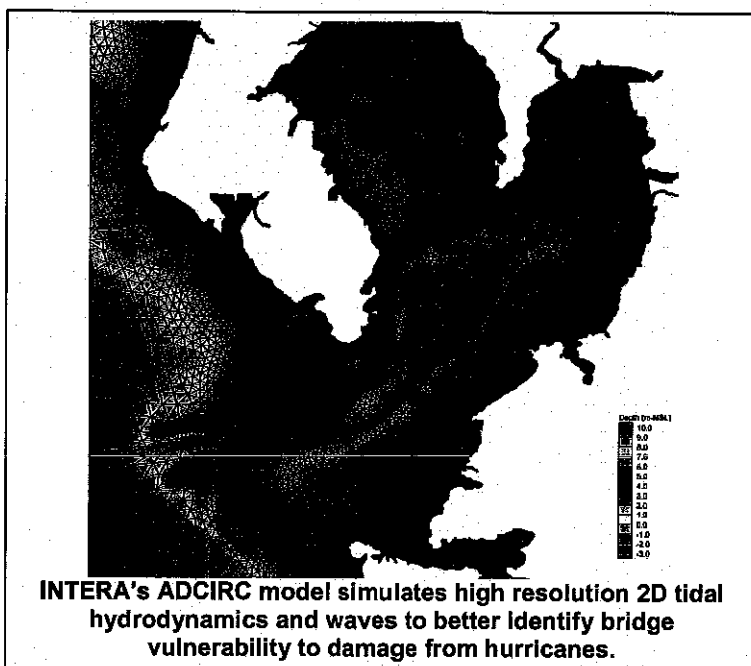
a. PROJECT OWNER Florida Department of Transportation	b. POINT OF CONTACT Rick Renna, PE	c. POINT OF CONTACT TELEPHONE NUMBER (850) 414-4351
---	--	---

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

Hurricane Ivan caused significant damage to the northwest coast of Florida. One of the most costly failures was the I-10 Bridges over Escambia Bay. The failure was attributed to the combination of storm surge and wave loading on the bridges' superstructures. Unfortunately, in many cases, waves have not been considered when establishing bridge elevations. As a result, a number of coastal bridges in Florida may be vulnerable to this type of loading. To assess the vulnerability of Florida's coastal bridges, the Florida Department of Transportation (FDOT) contracted INTERA to perform a wave vulnerability pilot study. The purpose of the pilot study was to 1) develop and perform three levels of analysis for determining the sea state required for computing surge/wave loading on bridge superstructures and 2) compute the design surge/wave loading and determine the vulnerability of the bridges in the pilot study area. FDOT District 7, which is located in the Tampa-Saint Petersburg area on the west coast of Florida, was chosen as the site for the pilot study because of its large number of bridges over tidal bays and waterways.

Three levels of sea state analyses were investigated in the pilot study – Levels I, II and III. Both the required effort and the accuracy of the results increased with the level of analysis. A Level I analysis employs readily available data and empirical equations for computing sea state. A Level II analysis can cover a relatively wide range of analysis techniques from slight improvements over a Level I to complex computer modeling of waves and/or storm surge. A Level III analysis is more sophisticated, requires more effort, but produces greater accuracy and significantly more information.

Level I of this pilot study identified 34 of the 52 bridges in District 7 as needing further analysis. Level II, refining the sea state data via computer wave modeling and improved water surface (surge and wind setup) estimates, identified 32 of the 52 bridges as vulnerable (eliminated two bridges from the list of vulnerable bridges). Level III narrowed the list further to 8 vulnerable bridges of the 52 bridges evaluated. Level III applied a coupled application of the ADCIRC (circulation) and SWAN (wave) models that hindcasted the 30 most severe storms that have affected the study area over the last 154 years, and applied extreme value analysis to the results to develop the design sea state. Cost: \$250,000.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME INTERA Incorporated (formerly Ocean Engineering Associates, Inc.)	(2) FIRM LOCATION (City and State) Gainesville, FL	(3) ROLE Prime
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 participation in same or similar role.)																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Timothy J Noles		x	x	x	x	x	x	x	x	x	x								
Henri Sinson				x	x		x		x	x									
Michael Sileno					x		x		x	x	x								
John Low		x	x		x														
Alfred Banz		x			x		x				x								
Roberto Viciado							x		x	x	x								
Brian Chunn																			
Cesar Granados		x	x		x														
Andrew Barthle		x	x	x			x		x	x	x								
Steve Hedge		x					x		x	x	x								
Stephanie Romero		x			x		x			x									
Vincent Krepps						x		x											
Leonard Chiocca						x		x											

29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	NW 17 th Avenue Bridge over Miami River	11	
2	Miami Avenue Twin Bascule Bridges	12	
3	Mathers Bridge over Banana River	13	
4	DW Misc. Structural Projects, Miami-Dade County	14	
5	DW Misc. P.E. Design, Miami-Dade County	15	
6	Parker Bridge (US 1) over the Intracoastal Waterway, North Palm Beach	16	
7	Districtwide Utility Coordination Services, Broward County	17	
8	Districtwide Bridge Engineering Design/CEI Support Services- FDOT District 1	18	
9	Districtwide Bridge Engineering Design/CEI Support Services-On Call - FDOT District 7		
10	Atlantic Boulevard over the Intracoastal Waterway Pompano Beach		

ARCHITECT – ENGINEER QUALIFICATIONS1. SOLICITATION NUMBER (If any)
RFQ # 246-11376**PART II – GENERAL QUALIFICATIONS**

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

2a. FIRM (OR BRANCH OFFICE) NAME Hardesty & Hanover, LLC			3. YEAR ESTABLISHED 1945	4. DUNS NUMBER 05-455-2252
2b. STREET 1000 Sawgrass Corporate Parkway, Suite 544			5. OWNERSHIP	
2c. CITY Sunrise			a. TYPE Corporation	
2d. STATE FL			b. SMALL BUSINESS STATUS No	
2e. ZIP CODE 33323			7. NAME OF FIRM (If block 2a is a branch office) Hardesty & Hanover, LLC	
6a. POINT OF CONTACT NAME AND TITLE Timothy J. Noles, PE / Principal				
6b. TELEPHONE NUMBER 954.835.9119		6c. E-MAIL ADDRESS tnoles@hardesty-hanover.com		
8a. FORMER FIRM NAME(S) (If any) J.A.L. Waddell Waddell & Hardesty			8b. YR. ESTABLISHED 1887 1927	8c. DUNS NUMBER

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees (1) FIRM (2) BRANCH		a. Profile Code	b. Experience	c. Revenue Index Numl (see below)
02	Administrative	34	2	B02	Bridges	9
06	Architect	2	0	C18	Cost Estimating; Cost Engineering and Analysis; Parametric Costing; Forecasting	5
15	Construction Inspectors	15	0	E09	Environmental Impact Studies, Assessments or Statements	4
21	Electrical Engineers	19	2	H01	Harbors; jetties; Piers; Ship Terminal Facilities	2
42	Mechanical Engineers	20	3	H08	Historical Preservation	2
47	Planners	2	0	H12	Hydraulics & Pneumatics	1
55	Soils Engineers	0	0	L06	Lighting (Exteriors; Street; Memorials; Athletic Fields)	2
27	Foundation/Geotechnical Engineer	4	0	T03	Traffic & Transportation Engineering	3
32	Hydraulic Engineers	2	0	T06	Tunnels & Subways	4
56	Specification Writers	3	0	U03	Utilities (Gas and Steam)	4
57	Structural Engineers	118	11	V01	Value Analysis; Life-Cycle Costing	2
08	CAD Operators	13	2		Construction Support	6
60	Transportation Engineers	0	0		Construction Inspection	8
	Highway Engineers	9	6			
	Resident Engineers	7	0			
	Estimators	0	0			
	Other Employees	10	2			
	Total	258	28			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS
(Insert revenue index number shown at right)

a. Federal Work	0
b. Non-Federal Work	9
c. Total Work	9

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

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

12. AUTHORIZED REPRESENTATIVE
The foregoing is a statement of facts.

a. SIGNATURE

b. DATE
2/25/2014c. NAME AND TITLE
Timothy J. Noles, PE - Principal

AUTHORIZED FOR LOCAL REPRODUCTION

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1. SOLICITATION NUMBER (If any)

RFQ # 246-11376

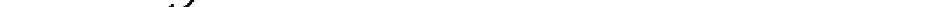
PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (OR BRANCH OFFICE) NAME TIERRA SOUTH FLORIDA, INC.				3. YEAR ESTABLISHED 2003		4. DUNS NUMBER 829296222	
2b. STREET 2765 Vista Parkway, Suite 10				5. OWNERSHIP a. TYPE Corporation b. SMALL BUSINESS STATUS Broward County CBE FDOT DBE and SBE Florida Statewide OSD MBE 7. NAME OF FIRM (If block 2a is a branch office) N/A			
2c. CITY West Palm Beach		2d. STATE FL	2e. ZIP CODE 33411				
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					
8a. FORMER FIRM NAME(S) (If any) N/A				8b. YR. ESTABLISHED N/A		8c. DUNS NUMBER N/A	
9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS			
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)	
		(1) FIRM	(2) BRANCH				
2	Administrative	6	6	S05	Soils and Geologic Studies; Foundations	5	
8	CADD Technician	2	2	T02	Testing and Inspection Services	6	
27	Foundation/Geotechnical Eng	5	5				
58	Technician/Analyst	30	30				
58	Technician/Inspector	6	6				
Total		49	49				
11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER					
a. Federal Work		3		1. Less than \$100,000.		6. \$2 million to less than \$5 million	
b. Non-Federal Work		5		2. \$100,000 to less than \$250,000		7. \$5 million to less than \$10 million	
c. Total Work		6		3. \$250,000 to less than \$500,000		8. \$10 million to less than \$25 million	
				4. \$500,000 to less than \$1 million		9. \$25 million to less than \$50 million	
				5. \$1 million to less than \$2 million		10. \$50 million or greater	

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE February 25, 2014
c. NAME AND TITLE Raj Krishnasamy, P.E. / President and Principal Engineer	

STANDARD FORM 330



Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Parkway Tallahassee, Florida 32399-6500
800HELPTLA (415-7352) or (850) 468-2221

February 24, 2013

MARLIN ENGINEERING INC
2101 NW 97TH AVENUE
MIAMI, FL 33172

SUBJECT: Professional Surveyor and Mapper Business Certificate # LB7211

Your application for renewal as a professional surveyor and mapper business as required by Chapter 472, Florida Statutes, has been received and processed.

The license appears below and is valid through February 24, 2015.

You are required to keep your information with the Board current. Please visit our website at www.BOSonline.com to create your online account. If you have already created your online account, you can use the website to maintain your license. You can also find other valuable information on the website.

If you have any questions, please do not hesitate to call the Division of Consumer Services, Board of Professional Surveyors and Mappers at 800-468-2221 or 850-468-2221.



Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Parkway Tallahassee, Florida 32399-6500
800HELPTLA (415-7352) or (850) 468-2221

January 9, 2013

LAZARO E FLEITAS
16440 NW 91ST CT
MIAMI LAKES, FL 33018-6177

SUBJECT: Professional Surveyor and Mapper License # LS5518

Your application for renewal as a professional surveyor and mapper as required by Chapter 472, Florida Statutes, has been received and processed.

The license appears below and is valid through February 24, 2015.

You are required to keep your information with the Board current. Please visit our website at www.BOSonline.com to create your online account. If you have already created your online account, you can use the website to maintain your license. You can also find other valuable information on the website.

If you have any questions, please do not hesitate to call the Division of Consumer Services, Board of Professional Surveyors and Mappers, at 800-468-2221 or 850-468-2221.



Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers

LS5518

Professional Surveyor and Mapper
LAZARO E FLEITAS

IS LICENSED under the provisions of Chapter 472 FS
Expiration date: February 24, 2015

English



Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Parkway Tallahassee, Florida 32399-6500

License No.: LB7241
Expiration Date: February 24, 2015

Professional Surveyor and Mapper Business License
Under the provisions of Chapter 472, Florida Statutes

MARLIN ENGINEERING INC
2101 NW 97TH AVENUE
MIAMI, FL 33172

Adam H. Putnam
ADAM H. PUTNAM
COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper above named and address shown is licensed in accordance with Chapter 472, Florida Statutes.

English



Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Parkway Tallahassee, Florida 32399-6500

License No.: LS6518
Expiration Date: February 24, 2015

Professional Surveyor and Mapper License
Under the provisions of Chapter 472, Florida Statutes

LAZARO E FLEITAS
16440 NW 91ST CT
MIAMI LAKES, FL 33018-6177

Adam H. Putnam
ADAM H. PUTNAM
COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper above named and address shown is licensed in accordance with Chapter 472, Florida Statutes.



U.S. Department of Transportation
Federal Highway Administration



NATIONAL HIGHWAY INSTITUTE
U.S. Department of Transportation

National Highway Institute Certificate of Training Alexis Rego

has participated in

FHWA-NHI-139001 Underwater Bridge Inspection

sponsored by

Florida Department of Transportation

Date: October 10-13, 2011

Location: Clearwater Florida

Hours of Instruction: 24

Michael Collins
Instructor MICHAEL COLLINS, P.E.
Richard Barish
Instructor RICHARD BARISH, P.E.

Richard Barish
Local Coordinator RICHARD J. BARISH, P.E.
Richard Barish, Director
National Highway Institute

State of Florida

Board of Professional Engineers

Attests that
Timothy J. Noles, P.E.



Is licensed as a Professional Engineer under Chapter 471, Florida Statutes
Expiration: 2/28/2015
Audit No: 228201521990

P.E. Lic. No:
49891

State of Florida

Board of Professional Engineers

Attests that
Hardesty & Hanover, LLC



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: 228201502109

Certificate of Authorization

CA Lic. No:
29741

State of Florida

Board of Professional Engineers

Attests that
Henri Clive Sinson, P.E.



Is licensed as a Professional Engineer under Chapter 471, Florida Statutes
Expiration: 2/28/2015
Audit No: 228201530054

P.E. Lic. No:
62197

State of Florida

Board of Professional Engineers

Attests that
Alfred G. Banz, P.E.



Is licensed as a Professional Engineer under Chapter 471, Florida Statutes
Expiration: 2/28/2015
Audit No: 228201518714

P.E. Lic. No:
51287

State of Florida

Board of Professional Engineers

Attests that
John C. Low, P.E.



Is licensed as a Professional Engineer under Chapter 471, Florida Statutes
Expiration: 2/28/2015
Audit No: 228201504094

P.E. Lic. No:
72784

State of Florida

Board of Professional Engineers

Attests that
Brian Thomas Chunn, P.E.



Is licensed as a Professional Engineer under Chapter 471, Florida Statutes
Expiration: 2/28/2015
Audit No: 228201522614

P.E. Lic. No:
56769

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

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: 228201509774

Certificate of Authorization

CA Lic. No:
28073

State of Florida

Board of Professional Engineers

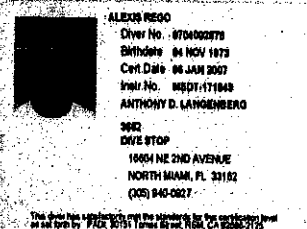
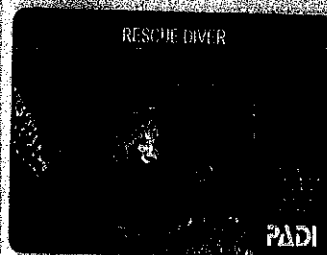
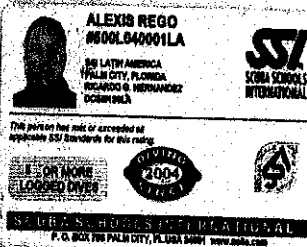
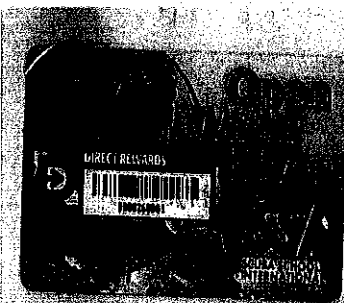
Attests that
Marlin Engineering Inc.



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: 228201501771

Certificate of Authorization

CA Lic. No:
6104





IndieStry MOVIES

February 25, 2014

CHANGING LANDSCAPES WITH THE BEST OF INDIE

BY JEFFREY M. HARRIS

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EDITED BY JEFFREY M. HARRIS

DESIGNED BY JEFFREY M. HARRIS

PRINTED BY JEFFREY M. HARRIS

DISTRIBUTED BY JEFFREY M. HARRIS

ISSN 1080-1009

VOLUME 10 NUMBER 1

2014

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