



**BOARD OF COUNTY COMMISSIONERS**

**DATE:** December 16, 2014

**AGENDA ITEM NO.** 16

**Consent Agenda** ☐

**Regular Agenda** ☒

**Public Hearing** ☐

**County Administrator's Signature:**

**Subject:**

Approval of Ranking and Final Negotiated Agreement – Professional Engineering Consulting Services San Martin Boulevard over Riviera Bay Bridge Replacement and Roadway Improvements (PID No. 001036A) Project Development and Environment (PD&E) Study  
Contract No. 134-0091-NC(RM)

**Department:**

Engineering and Technical Support / Purchasing

**Staff Member Responsible:**

Kevin Becotte / Joe Lauro

**Recommended Action:**

I RECOMMEND THE BOARD OF COUNTY COMMISSIONERS (BOARD) APPROVE THE RANKING OF FIRMS AND FINAL NEGOTIATED AGREEMENT WITH THE NUMBER ONE RANKED FIRM FOR PROFESSIONAL ENGINEERING CONSULTING SERVICES FOR SAN MARTIN BOULEVARD OVER RIVIERA BAY BRIDGE REPLACEMENT AND ROADWAY IMPROVEMENTS (PID 001036A) PD&E STUDY WITH HDR ENGINEERING, INC. (HDR), TAMPA, FLORIDA.

IT IS FURTHER RECOMMENDED THAT THE CHAIRMAN SIGN THE AGREEMENTS AND THE CLERK ATTEST.

**Summary Explanation/Background:**

On January 10, 2014, in accordance with the Consultant Competitive Negotiation Act, the Purchasing Department, on behalf of the Engineering and Technical Support Department, let a Request for Proposal for the purpose of hiring a consulting engineering firm to evaluate the rehabilitation or replacement of the Riviera Bay Bridge (Bridge No. 15437) and San Martin Boulevard roadway improvements.

The bridge is located in St. Petersburg with project limits located approximately one (1) mile east of 4<sup>th</sup> Street North and 1.3 miles south of Gandy Boulevard. In addition to addressing bridge deficiencies and documenting the benefits of each alternative evaluated, this project includes an integral trail connectivity element. More specifically, as a separate component of the project, trail enhancements from Macoma Drive to Gandy Boulevard will be evaluated. It will be necessary for the multi-modal components to be consistent with the following programs:

- City of St. Petersburg Trails Program
- Pinellas County's Bicycle and Pedestrian Master Plan
- Metropolitan Planning Organization's North Bay Trail/Rio Vista Trail Connection priority in the Long Range Transportation Plan

Approval by the Federal Highway Administration is critical to fund future projects. Additionally, the National Environmental Policy Act (NEPA) process for funding approval through the PD&E Study must be followed, specifically the categorical inclusion of the public in the development of the PD&E Study.

The ranking of firms was completed March 24, 2014 and the negotiation and scoping process was concluded in October 2014. The complexity of coordination with the various agencies involved with this project, along with the interconnection with the requirements of the PD&E study, protracted the negotiation process. Meetings were held with the Florida Department of Transportation (District 7) to: review project details and schedule; discuss NEPA process and initiate advance notification. A draft proposal, as well as the revised scope of services, was sent to all stakeholders including the City of St. Petersburg.

After the PD&E Study is completed, and at the County's option, HDR may be requested to provide professional engineering services for design, plans preparation, construction specifications preparation and engineer-of-record construction services. If this option is elected by the County, the corresponding fees will be negotiated and the contract will be amended accordingly.

The final negotiated fee of \$641,431.02 includes a Not to Exceed amount of \$40,000.00 for contingency services. The initial budget estimate was \$850,000.00. The final negotiated lump sum fee is based on a rate structure that is fully burdened. The hourly rates include all labor, direct/indirect overhead, margins/profit, and travel within the Tampa Bay Metropolitan Statistical Area. Travel outside of the Tampa Bay Metropolitan Statistical Area will be reimbursed in accordance with Florida Statutes. There is no markup allowance for sub-consultants and the rates are fixed for the full term of the contract. The contract term is for twenty-four (24) months effective from the commencement date on the Notice to Proceed.

**Fiscal Impact/Cost/Revenue Summary:**

Estimated twenty-four (24) month expenditure not to exceed: \$641,431.02

Funding sources will be provided by the Infrastructure Sales Tax (Penny for Pinellas): Transportation and Traffic Flow, Bridge Rehabilitation Program Allocation.

**Exhibits/Attachments:**

Contract Review

Agreement

Exhibit A Scope of Services, Hourly Rates and Hourly Work Efforts

Ranking Spreadsheet



**PURCHASING DEPARTMENT  
CONTRACT REVIEW TRANSMITTAL**

**CATS  
NO.:**

43813

**PROJECT: CCNA – Professional Consulting Engineering Services – San Martin Blvd over Rivera Bay Bridge and Roadway Improvements (PID 001036A)**

**RFP NUMBER: 134-0091-NC(RM)**

**REQ. NUMBER:**

**TYPE:** ☐ Purchase Contract ☒ Other: CCNA ☐ Construction-Less than \$100,000 ☐ One Time

In accordance with the policy guide for Contract Administration, the attached documents are submitted for review and comment.

Upon completion of review, complete Contract Review Transmittal and forward to next Review Authority listed. Please indicate suggested changes by revising, in RED, the appropriate section of the document reflecting the exact wording of the change.

**RISK MANAGEMENT:** Please enter required liability coverage on pages:

**PRODUCT ONLY** ☐

This is an annual contract.

Estimated Expenditure: \$\_850,000.00

REVIEW SEQUENCE	REVIEW AUTHORITY	REVIEW DATE	REVIEW SIGNATURE	COMMENTS (Attach Separate page if necessary)	COMMENTS INCORPORATED
1.	Purchasing Dept. J. Lauro, Director C. Mancuso, Ass't. Director R. McKenzie PA	12/5/13	<i>[Signature]</i>		
2.	DEI Jorge Quintas, Director Ivan Fernandez <i>[Signature]</i> Tony Hornick Merry Celeste <i>[Signature]</i>	12/6/13 12/6/13	<i>[Signature]</i>		

Using Dept please provide below information:

☐ Yes, funding for this requisition is using grant Funding. ☐ No, funding for this requisition is not using grant Funding.

If grant funding is being used you must provide Purchasing with the exact clauses that need to be on attached document.

Please check attached vendor list. Circle vendors you want RFPs mailed to. Add additional vendors with complete information (Name, Address, Phone and Fax)

3.	Risk Management Director Attn: Virginia E. Holscher (Check applicable box at right)	12/19/13	<i>[Signature]</i>	Pls see changes p 16-17 Scope change p. 19 Email attached to p. 19	HIGH RISK NOT HIGH RISK
4.	BCC Finance Attn: Cassandra Williams	12/19/13	<i>[Signature]</i>		
5.	Legal Attn: Miles Belknap	12/23/13	<i>[Signature]</i>		
6.	Executive Director David Scott	12/10/13	<i>[Signature]</i>		
7.	Asst. County Administrator Attn: M. Woodard	12/30/13	<i>[Signature]</i>		

**RETURN ALL DOCUMENTS TO PURCHASING**

Make all inquiries to: Ruby McKenzie at Extension 4-3795  
In order to meet the following schedule, please return your requirements to Purchasing by: 12/13/2013

**TENTATIVE DATES**

RFP Mail Out: TBD

RFP Opening:

Purchasing Director Approval:

**PROFESSIONAL ENGINEERING SERVICES NON-CONTINUING SERVICES  
AGREEMENT (134-0091-NC)  
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**SECTION 1  
INTENT OF AGREEMENT**

**AGREEMENT FOR PROFESSIONAL ENGINEERING SERVICES FOR**

THIS AGREEMENT, entered into on the \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, between PINELLAS COUNTY, a political subdivision of the State of Florida, hereinafter referred to as the COUNTY, represented by its Board of County Commissioners, and, HDR Engineering, Inc. with offices in Tampa, Florida hereinafter referred to as the CONSULTANT.

WITNESSETH, That:

WHEREAS, Pinellas County, herein referred to as the COUNTY, requires **PROFESSIONAL ENGINEERING SERVICES** associated with support to develop plans and specifications and perform all other professional engineering services as may be required during the construction of Riviera Bay Bridge (Bridge No. 154371) (bridge) replacement and San Martin Boulevard (San Martin Blvd) Roadway Improvements, St. Petersburg, Pinellas County, Florida

WHEREAS, the COUNTY desires the CONSULTANT provide PROFESSIONAL ENGINEERING SERVICES requisite to the development of the PROJECT; and

WHEREAS, the CONSULTANT has expressed the willingness and ability to provide the aforementioned Services; and

NOW THEREFORE, the COUNTY and the CONSULTANT, in consideration of the mutual covenants hereinafter set forth, agree as follows:

## **SECTION 2 SCOPE OF PROJECT**

### **2.1 PROJECT DESCRIPTION AND PROFESSIONAL REQUIREMENTS**

For the purposes of this Agreement the term PROJECT shall include all areas of proposed improvements, all areas that may reasonably be judged to have an impact on the PROJECT, and all PROJECT development phases and the services and activities attendant thereto. It is not the intent of this Agreement to identify the exact limits or details involved in providing satisfactorily completed PROJECT construction documents. The CONSULTANT shall provide the following professional services to prepare construction plans, specifications, and complete applications for and receive all federal, state, and local permits required for construction of the PROJECT. The PROJECT design shall be based on the following data:

Pinellas County Project ID:	<b>PID 001036A/Contract 134-0091-NC</b>
FDOT Financial Project ID:	<b>NA</b>
Work Program Item No.:	<b>NA</b>
Federal Aid Project No.:	<b>TBD</b>
County Section No.:	<b>000000</b>

**Description: Develop a Project Development and Environment (PD&E), including Feasibility Study and other Engineering Services during construction of the Riviera Bay Bridge (Bridge No. 154371) (bridge) replacement, San Martin Boulevard (San Martin Blvd) Roadway Improvements and trail component evaluation located approximately 1.0 miles east of 4<sup>th</sup> Street North and 1.3 miles south of Gandy Boulevard in St. Petersburg, Pinellas County, Florida. Federal grants will be applied for to fund future projects; thus the study will need to meet all National Environmental Policy Act (NEPA) requirements.**

**Bridge No.: 154371**

All required permits shall be obtained by the engineering consultant. Plans shall be prepared in accordance with Civil 3D Pinellas County Requirements. Exhibit A, Scope of Services is attached.

#### **a) Required Deliverables**

- Civil 3D file (eTransmit) of construction plans and for each transmittal phase. The plans shall be provided electronically, plus two (2) paper prints signed and sealed by a Professional Engineer certified in the State of Florida.
- All technical specifications required for construction of project.

b) After the PD&E Study is complete, and at the County's option, the Consultant may be requested to also provide professional engineering services for design, plans preparation, construction specifications preparation and engineer-of-record construction services. If such option is elected by the County, the corresponding additional fees will be negotiated and the contract will be amended accordingly. If such option is elected by the County, there is a potential for additional Insurance Requirements based on the change in the scope of work.

### **2.2 PROJECT PHASES**

All project phases shall be completed on or before the milestone dates provided in the COUNTY approved PROJECT design schedule referenced in 2.3 E.



## **2.3 CONSULTING RESPONSIBILITIES**

- A. It is the intention of the COUNTY that the CONSULTANT is held accountable for its work, including checking and review of plans, and that submittals are complete.
- B. The CONSULTANT shall be responsible for the accuracy of the work and shall promptly correct its errors and omissions without additional compensation. Acceptance of the work by the COUNTY will not relieve the CONSULTANT of the responsibility for subsequent correction of any errors and the clarification of any ambiguities.
- C. The CONSULTANT represents that it has secured or will secure, at its own expense, all personnel necessary to complete this Agreement; none of whom shall be employees of or have any contractual relationship with the COUNTY. Primary liaison with the COUNTY will be through the CONSULTANT'S Project Manager. All of the services required hereunder will be performed by the CONSULTANT or under the CONSULTANT'S supervision, and all personnel engaged in the work shall be fully qualified and shall be authorized or permitted under law to perform such services.
- D. The CONSULTANT shall endorse all reports, calculations, contract plans, and survey data. Services shall be prepared under the direction of an engineer registered in the State of Florida and qualified in the required discipline. Products or services performed or checked shall be signed and sealed by the CONSULTANT'S Florida registered engineer.
- E. The CONSULTANT shall be responsible for the preparation of a PROJECT design schedule, prepared in Microsoft Project 2013 or later, which shows a breakdown of all tasks to be performed, and their relationship in achieving the completion of each phase of work. A bar chart schedule showing overall PROJECT time frames should also be prepared. These schedules must be submitted for COUNTY approval within ten (10) days of the initial PROJECT Notice to Proceed. These schedules will be used to verify CONSULTANT performance in relationship to Fees claimed and to allow the COUNTY'S Project Manager to monitor the CONSULTANT'S efforts. The CONSULTANT shall be responsible for any updates to these schedules and for documenting in writing to the COUNTY any major deviations in the actual versus estimated PROJECT time frames.
- F. The CONSULTANT shall respond, in writing, to all review comments made by the COUNTY, and shall incorporate appropriate design adjustments into the PROJECT, in a timely manner, resulting from the review exchange.

## **2.4 GENERAL DESIGN CONDITIONS**

2.4.1 The CONSULTANT shall coordinate and solicit appropriate input, with the knowledge of the COUNTY.

2.4.2 All design data, plans, and drawings shall be delivered electronically and or on CD ROM formatted to .DXF or .DWG utilizing the latest COUNTY AutoCAD Civil 3D Kit version, as well as providing reproducible hard copies of plans and drawings. All specification and other documents shall be delivered electronically and or on a CD ROM, Microsoft Word & Excel format as required, as well as the reproducible hard copies.

2.4.3 One (1) original and nine (9) copies of all deliverables are required unless specific submittal requirements are specified elsewhere in this Agreement.

2.4.4 The CONSULTANT shall develop acceptable alternates to any and all design recommendations that may be declared unacceptable.

## **2.5 GOVERNING SPECIFICATIONS REGULATIONS AND PERTINENT DOCUMENTS**

The PROJECT shall be designed by the CONSULTANT in accordance with applicable industry standards. The CONSULTANT shall be responsible for utilizing and maintaining current knowledge of any laws, ordinances, codes, rules, regulations, standards, guidelines, special conditions, specifications, or other mandates relevant to the PROJECT or the services to be performed. Refer to Exhibit A for additional requirements.

### **SECTION 3 SERVICES TO BE FURNISHED BY THE CONSULTANT**

#### **3.1 SEE EXHIBIT A – SCOPE OF SERVICES.**

#### **3.2 BIDDING PHASE**

The CONSULTANT shall prepare with the COUNTY'S assistance the necessary bidding information, bidding forms, the conditions of the contract, and the form of agreement between the COUNTY and the Contractor. The CONSULTANT also, shall bear the cost of two (2) complete sets of documents (plans and specifications), two (2) of which shall be signed and sealed by the CONSULTANT as original record sets for the PROJECT. Each sheet in the two (2) construction plans print sets shall be signed, sealed and dated. The title sheet only of the two (2) specifications sets shall be signed, sealed, and dated. Additionally, any required addenda shall be signed, sealed, and dated.

3.2.1 The CONSULTANT, following the COUNTY'S review of the Construction Documents and of the latest Statement of Probable Construction Cost, shall be available to assist the COUNTY in obtaining bids, and in preparing and awarding construction contracts for each bid package. The CONSULTANT shall assist conducting pre-bid conferences, and shall prepare a Bid Tabulation spreadsheet following receipt of bids.

3.2.2 If the Advertisement for bids has not commenced within sixty (60) days after the CONSULTANT submits the approved Construction Documents to the COUNTY, any fixed limit of Construction Cost established as a condition of this Agreement shall be adjusted to reflect any change in the general level of prices which may have occurred during that period of time in construction industry. The adjustment shall reflect changes between the date of submission of the Construction Documents to the COUNTY and the date on which the Advertisement for Bids occurred.

3.2.3 The CONSULTANT shall prepare any required addenda to construction plans and specifications on the PROJECT during the bidding phase affecting the CONSULTANT'S plans and specifications. The CONSULTANT shall also provide any addenda during the Construction Phase in sufficient quantity to distribute to all necessary parties as determined by the COUNTY. Addenda material shall be placed in envelopes by the CONSULTANT for mailing by the COUNTY. The CONSULTANT shall also furnish certified mail receipt material and prepare mailing labels. The COUNTY shall mail all addenda.

#### **3.3 CONSTRUCTION PHASE**

All contact and/or communication from the CONSULTANT to the Contractor shall be coordinated with the knowledge of the COUNTY.

##### **A. Construction Consultation Services**

1. Processing, review, approval and distribution of shop drawings, product data, samples and other submittals required by the Contract Documents.
2. Maintenance of master file of submittals with duplicate for COUNTY.
3. Construction Field Observation Services consisting of visits to the site as frequent as necessary, but not less than once every week, to become generally familiar with the



progress and quality of the work and to determine in general if the work is proceeding in accordance with the Contract Documents and prepare related reports and communications. Provide written report of each visit. This field observation requirement shall include any subconsultants at appropriate construction points.

4. Review for comment or approval any and all proposal requests, supplemental drawings and information and change orders.
5. Review for correctness Contractors pay requests for the COUNTY.
6. Prepare, reproduce and distribute supplemental drawings, specifications and interpretations in response to requests for clarification by the Contractor or the COUNTY as required by construction exigencies. Response to any request must be received by the COUNTY within twenty-four (24) hours of request, or the next available working day when the request is prior to a weekend or holiday.
7. Review, upon notice by the Contractor that work is ready for final inspection and acceptance.
8. Notify the COUNTY of any deficiencies found in follow-up reviews.
9. Evaluate all testing results and make recommendations to the COUNTY.
10. Assist in the establishment by the COUNTY of programs of operation and maintenance of the physical plant and equipment.
11. Arrange for and coordinate instructions on operations and maintenance of equipment in conjunction with manufacturer's representatives.
12. Prepare an operation and maintenance manual for the COUNTY'S use.
13. The CONSULTANT shall visit the project as necessary, but at a minimum of three (3) month, six (6) month and upon construction completion in order to certify that the permit conditions have been met satisfactorily. This shall not relieve the CONSULTANT of other needed visits to the project should specific issues arise.
14. Assistance in the training of the facility operation and maintenance personnel in proper operations, schedules, procedures and maintenance inventory.
15. Prepare as-built record drawings, based on information furnished by the Contractors including significant changes in the work made during construction. The CONSULTANT will provide one (1) set of signed and sealed prints and one (1) CADD disk of the as-built record construction documents.
16. Transmit certified as-built record drawings and general data, appropriately identified, to the COUNTY within thirty (30) days following completion of construction.
17. Consult with, and recommend solutions to, the COUNTY during the duration of warranties in connection with inadequate performance of materials, systems, and equipment under warranty.
18. Review facilities or equipment prior to expiration of warranty period(s) to ascertain adequacy of performance, materials, systems and equipment.
19. Document noted defects or deficiencies and assist the COUNTY in preparing instructions to the Contractor for correction of noted defects.

20. The Contractor shall provide the CONSULTANT with all the required project close out material for CONSULTANT'S use in the warranty period services.
21. The Contractor shall have prime responsibility in the warranty period for all services herein. The CONSULTANT shall assist, consult, observe review and document as noted.

### **3.4 PROVISIONS RELATED TO ALL PHASES**

3.4.1 The CONSULTANT will investigate and confirm in writing to the COUNTY, to the best of the CONSULTANT'S knowledge, conformance with all applicable local public and utility regulations.

3.4.2 The CONSULTANT will coordinate work designed by various disciplines.

3.4.4 The CONSULTANT shall submit to the COUNTY design notes and computations to document the design conclusions reached during the development of the construction plans.

a. Five (5) copies of the design notes and computations shall be submitted to the COUNTY with the design development review plans. When the plans are submitted for final review, the design notes and computations corrected for any COUNTY comments shall be resubmitted. At the PROJECT completion, a final set of the design notes and computations, properly endorsed by the CONSULTANT, shall be submitted with the record set of plans and tracings.

b. The design notes and calculations shall include, but not be limited to, the following data:

- 1) Design criteria used for the PROJECT.
- 2) Roadway geometric calculations
- 3) Structural calculations.
- 4) Drainage calculations.
- 5) Traffic design calculations
- 6) Traffic control calculations
- 7) Calculations as required by provisions of the Florida Energy Conservation Manual (Department of General Services), latest revision.
- 8) Calculations showing probable cost comparisons of various alternatives considered.
- 9) Documentation of decisions reached resulting from meetings, telephone conversations or site visits.
- 10) Other PROJECT-related correspondences as appropriate.

3.4.5 Each set of plans for the PROJECT shall be accurate, legible, complete in design, suitable for bidding purposes and drawn to scales acceptable to the COUNTY. The completed plans shall be furnished on reproducible material and in a format, which is acceptable to the COUNTY.

3.4.6 The CONSULTANT shall make such reviews, visits, attend such meetings and conferences and make such contacts as are necessary for the proper preparation of plans and specifications for the PROJECT.

3.4.7 The COUNTY in no way obligates itself to check the CONSULTANT'S work and further is not responsible for maintaining project schedules.

3.4.8 Other CONSULTANT responsibilities shall be as listed below:

- a. Provide necessary sealed drawings to obtain building permits or any utility permit.
- b. Assist the COUNTY in Contractor claims and/or litigation.
- c. Review the Adequacy and completeness of documents submitted by the Contractor to protect the COUNTY against claims by suppliers or third parties.

3.4.9 The CONSULTANT must be familiar with the intent, thoroughness, safety factors and design assumptions of all structural calculations.

3.4.10 All work prepared and/or submitted shall be reviewed and checked by a CONSULTANT (Architect/Engineer) registered in Florida. All plans shall be signed and sealed by the Professional CONSULTANT in responsible charge.

### **3.5 PERMIT APPLICATIONS AND APPROVALS**

3.5.1 The CONSULTANT shall prepare all permit applications, data and drawings required for submittal BY THE COUNTY for approval of local, state and federal agencies.

3.5.2 The CONSULTANT shall, at no additional cost to the COUNTY, make all reasonable and necessary construction plans revisions required to obtain the necessary permit approvals for construction of the PROJECT.

3.5.3 For the purpose of ensuring the timely approval of all permits necessary for the construction of the PROJECT, the CONSULTANT shall schedule the necessary contacts and liaison with all agencies having permit jurisdiction over the PROJECT, and shall furnish, on a timely basis, such plans, data and information as may be necessary to secure approval of the required permits.

### **3.6 COORDINATION WITH UTILITY SERVICES AND AFFECTED PUBLIC AGENCIES**

3.6.1 The requirements of the various utility services shall be recognized and properly coordinated with the PROJECT design.

3.6.2 Drainage investigations and drainage design shall be coordinated with any city or drainage district that may be affected by or have an effect on the PROJECT.

## **SECTION 4 SERVICES TO BE FURNISHED BY THE COUNTY**

4.1 The COUNTY shall provide the following for the CONSULTANT'S use and guidance:

- A. Copies of existing maps, existing aerial photographs, as-built construction plans and data pertinent to the PROJECT design, which the COUNTY may have in its possession.
- B. Reproduces of the COUNTY Engineering Department Standard Drawings applicable to the PROJECT.
- C. Sample copies of the COUNTY standard contract documents and specifications.
- D. Preparation of legal (front-end) section of the specifications.

## **SECTION 5 PRESENTATIONS, PUBLIC MEETINGS AND TECHNICAL LIAISON**

The following services shall be provided at no additional cost to the COUNTY:

5.1 Prior to the commencement of design activities, the COUNTY will conduct with the CONSULTANT a pre-design conference for the purpose of discussing issues relative to the PROJECT, plans preparation and submittal procedures and to convey to the CONSULTANT such items provided for under Section 4 as may be required and available at that time.

5.2 The CONSULTANT shall make presentations to the COUNTY'S Director of Environment and Infrastructure (DEI) or designee as often as reasonably requested and at any point in the PROJECT development should issues arise which make additional presentations other than those listed elsewhere in this Agreement, in the COUNTY'S best interest.

5.3 The CONSULTANT shall participate in Monthly PROJECT Conferences with COUNTY staff personnel. The meetings will be scheduled by the COUNTY at a location provided by the COUNTY.

5.4 The CONSULTANT shall attend, as technical advisor to the COUNTY all meetings or hearings conducted by permitting agencies or public bodies in connection with any permit required for the construction of the PROJECT, and shall prepare all presentation aids, documents and data required in connection with such meetings or hearings, and at the discretion of the COUNTY, shall either plead the COUNTY'S case or provide engineering and technical assistance to the COUNTY in its pleading of the case.

5.5 The CONSULTANT shall keep accurate minutes of all meetings and distribute copies to all attending. These meetings shall be set up through the COUNTY and appropriate COUNTY staff shall attend.

## **SECTION 6 PAYMENT GUIDELINES AND CATEGORY OF SERVICES**

### **6.1 BASIC SERVICES**

The services described and provided for under Sections 2, 3 and Exhibit A shall constitute the Basic Services to be performed by the CONSULTANT under this Agreement.

### **6.2 OPTIONAL SERVICES**

Services noted in Exhibit A of this Agreement as "Optional" shall constitute the Optional Services to be performed by the CONSULTANT under this Agreement. Optional Services shall be rendered by the CONSULTANT only upon written authorization by the COUNTY's Executive Director of the Department of Environment and Infrastructure, or designee.

### **6.3 CONTINGENCY SERVICES**

When authorized in writing by the COUNTY'S Director of Environment and Infrastructure (DEI) or designee, the CONSULTANT shall furnish services resulting from unforeseen circumstances not anticipated under Basic Services due to minor changes in the PROJECT scope.

Compensation for any Contingency Services assignments shall be negotiated between the COUNTY and the CONSULTANT at the time the need for services becomes known.

### **6.4 ADDITIONAL SERVICES**

When executed by the County Administrator or Board of County Commissioners as an amendment to this Agreement, the CONSULTANT shall provide such additional services as may become necessary because of changes in the Scope of PROJECT. Additional Services shall be classified as any change beyond the Contingency Services upset limit for compensation.

### **6.5 INVOICING**

The CONSULTANT may submit invoices for fees earned on a monthly basis. Such invoicing shall be supported by a Progress Report showing the actual tasks performed and their relationship to the percentage of fee claimed for each phase. Billings within each phase of work shall be for the percentage of work effort completed to date for that phase. The COUNTY shall make payments to the

CONSULTANT for work performed in accordance with the Local Government Prompt Payment Act, Section 218.70 et. seq., F.S.

The following services shall be considered reimbursable services and may be filled in full upon their completion and acceptance. The CONSULTANT shall provide copies of supporting receipts/invoices/billing documentation. Self-performed reimbursable work shall be reimbursed at the firm's standard hourly rates for all related services. A breakdown of man hours and billing rates shall be provided with each invoice. An hourly rate sheet is attached (Exhibit A).

- A. Soil Analysis/Geotechnical Investigations.
- B. Contamination Assessments/Hazardous Material Analysis (if required).
- C. Aerial Photography (if required).
- D. Payment of Permit Fees (if required).
- E. Payment of the Public Information Meeting Advertisements, if required.
- F. Payment of the Court Reporter for public meetings, if required.
- G. Printing and Binding Services.

Should an invoiced amount for fees earned appear to exceed the work effort believed to be completed, the COUNTY may, prior to processing of the invoice for payment, require the CONSULTANT to submit satisfactory evidence to support the invoice.

All progress reports shall be mailed to the attention of the designated Project Manager, Department of Environment & Infrastructure, 14 S. Ft. Harrison Ave, Clearwater, FL 33756.

SUPPLIER shall submit invoices for payment due as provided herein with such documentation as required by Pinellas County and all payments shall be made in accordance with the requirements of Section 218.70 et. seq, Florida Statutes, "The Local Government Prompt Payment Act." Invoices shall be submitted to the address below unless instructed otherwise on the purchase order, or if no purchase order, by the ordering department:

Finance Division Accounts Payable  
Pinellas County Board of County Commissioners  
P. O. Box 2438  
Clearwater, FL 33757

Each invoice shall include, at a minimum, the Supplier's name, contact information and the standard purchase order number. The County may dispute any payments invoiced by SUPPLIER in accordance with the County's Dispute Resolution Process for Invoiced Payments, established in accordance with Section 218.76, Florida Statutes, and any such disputes shall be resolved in accordance with the County's Dispute Resolution Process.

Fees for contingent or additional services authorized shall be invoiced separately, and shall be due and payable in full upon the presentation of satisfactory evidence that the corresponding services have been performed.

## **SECTION 7 COMPENSATION TO THE CONSULTANT**

7.1 For the PD&E Study of the Bridge for BASIC SERVICES provided for in this Agreement, as defined in Section 3.10, the COUNTY agrees to pay the CONSULTANT as follows:

- A Lump Sum Fee of: Forty Three Thousand Nine Hundred Thirty Seven and 27/100 Dollars (\$43,937.27) for the Task 1 – Data Collection Task Phase of the PROJECT.
- A Lump Sum Fee of: One Hundred Two Thousand Nine Hundred Thirty One and 92/100 Dollars (\$102,931.92) for the Task 2 - Design Analysis Task Phase of the PROJECT.
- A Lump Sum Fee of: Fifty Two Thousand Two Hundred Seventy Six and 76/100 Dollars (\$52,276.76) for the Task 3 – Comparative Analysis Task Phase of the PROJECT.
- A Lump Sum Fee of: One Hundred Eight Thousand One Hundred Forty Three and 03/100 Dollars (\$108,143.03) for the Task 4 – Environmental Analysis Task Phase of the PROJECT.
- A Lump Sum Fee of: Five Thousand Three Hundred Ninety Three and 00/100 Dollars (\$5,393.00) for the Task 5 – Environmental Reports Task Phase of the PROJECT.
- A Lump Sum Fee of: One Hundred Five Thousand Six Hundred Ninety and 00/100 Dollars (\$105,690.00) for the Task 6 – Public Involvement Task Phase of the PROJECT.
- A Lump Sum Fee of: Thirty One Thousand Seven Hundred Twenty Four and 00/100 Dollars (\$31,724.00) for the Task 7 – Miscellaneous Services Task Phase of the PROJECT.
- A Lump Sum Fee of: Twenty Six Thousand Four Hundred Twenty Eight and 04/100 Dollars (\$26,428.04) for the Task 8 – Additional Services Task Phase of the PROJECT.

The above fees shall constitute the total not to exceed amount of Four Hundred Seventy Six Thousand Five Hundred Twenty Four and 02/100 (476,524.02) to the CONSULTANT for the performance of the PD&E Study of the Bridge for Basic Services. All man hours are billed per the established and agreed hourly rates. The hourly rates are fully loaded and include all labor, overhead, expenses and profit of any nature including travel within the Tampa Bay Metropolitan Statistical area. Travel outside of that area will be reimbursed in accordance with Section 112.061 F.S.

7.2 For the OPTIONAL SERVICES provided for in the Agreement, as defined in Exhibit A, the COUNTY agrees to pay the CONSULTANT as follows:

- A Lump Sum Fee of: Sixty Eight Thousand Eight Hundred Twenty Six and 00/100 Dollars (\$68,826.00) for the Task 9 of the PROJECT

7.3 For the PD&E Study of the Trail Evaluation Component for BASIC SERVICES provided for in this Agreement, as defined in Section 3.10, the COUNTY agrees to pay the CONSULTANT as follows:

- A Lump Sum Fee of: Nineteen Thousand One Hundred Ninety Four and 00/100 Dollars (\$19,194.00) for the Task 1 – Roadway Analysis and Plans Task Phase of the PROJECT.
- A Lump Sum Fee of: Fifteen Thousand Seven Hundred Eighty One and 00/100 Dollars (\$15,781.00) for the Task 2 - Design Analysis Task Phase of the PROJECT.
- A Lump Sum Fee of: Sixteen Thousand Six Hundred Eighty Four and 00/100 Dollars (\$16,684.00) for the Task 3 – Environmental Permits Task Phase of the PROJECT.
- A Lump Sum Fee of: Four Thousand Four Hundred Twenty Two and 00/100 Dollars (\$4,422.00) for the Task 4 – Alternative Public Meeting Task Phase of the PROJECT.

The above fees shall constitute the total not to exceed amount of Fifty Six Thousand Eighty One and 00/100 Dollars (\$56,081.00) to the CONSULTANT for the performance of the Trail



Evaluation Component for Basic Services. All man hours are billed per the established and agreed hourly rates. The hourly rates are fully loaded and include all labor, overhead, expenses and profit of any nature including travel within the Tampa Bay Metropolitan Statistical area. Travel outside of that area will be reimbursed in accordance with Section 112.061 F.S.

7.4 For any CONTINGENCY SERVICES performed, the COUNTY agrees to pay the CONSULTANT, a negotiated fee based on the assignment, up to a maximum amount not to exceed Forty Thousand and 00/100 Dollars (\$40,000) for all assignments performed.

7.5 Total agreement amount Six Hundred Forty One Thousand Four Hundred Thirty One and 02/100 Dollars (\$641,431.02).

7.6 For any ADDITIONAL SERVICES, the COUNTY agrees to pay the CONSULTANT a negotiated total fee based on the work to be performed as detailed by a written amendment to this Agreement.

7.7 In the event that this Agreement is terminated under the provisions of this contract the total and complete compensation due the CONSULTANT shall be as established by the COUNTY based on the COUNTY'S determination of the percentage of work effort completed to date of termination.

## **SECTION 8 PERFORMANCE SCHEDULE**

Time is of the essence in this Agreement. The CONSULTANT shall plan and execute the performance of all services provided for in this Agreement in such manner as to ensure their proper and timely completion in accordance with the following schedule:

8.1 The services to be rendered by the CONSULTANT shall be commenced upon receipt from the COUNTY of written "NOTICE TO PROCEED."

8.2 All project phases shall be completed on or before the milestone dates provided in the COUNTY approved PROJECT design schedule referenced in 2.3 E.

8.3 The CONSULTANT shall not be held responsible for delays in the completion of the PROJECT design when the COUNTY causes such delays. The COUNTY reviews related to the above submittals shall not exceed twenty-one (21) days.

## **SECTION 9 AUTHORIZATION FOR CONTINGENT OR ADDITIONAL SERVICES**

9.1 The CONTINGENCY services provided for under this Agreement shall be performed only upon prior written authorization from the Director of Environment and Infrastructure (DEI) or designee.

9.2 The ADDITIONAL services provided for under this Agreement shall be performed only upon approval of the County Administrator or Board of County Commissioners.

9.3 The CONSULTANT shall perform no services contemplated to merit compensation beyond that provided for in this Agreement unless such services, and compensation therefore, shall be provided for by appropriate written authorization or amendment(s) to this Agreement.

## **SECTION 10 FIRMS AND INDIVIDUALS PROVIDING SUBCONSULTING SERVICES**

The COUNTY reserves the right to review the qualifications of any and all subconsultants, and to reject any subconsultant in a proper and timely manner, deemed not qualified to perform the services for

which it shall have been engaged. Any subconsultant not listed as part of the prime consultants team at time of award must be approved by the Director of Purchasing prior to performing any service.

#### **SECTION 11 SATISFACTORY PERFORMANCE**

All services to be provided by the CONSULTANT under the provisions of this Agreement, including services to be provided by subcontractors, shall be performed to the reasonable satisfaction of the COUNTY'S Director of Environment and Infrastructure (DEI) or designee.

#### **SECTION 12 RESOLUTION OF DISAGREEMENTS**

12.1 The COUNTY shall reasonably decide all questions and disputes, of any nature whatsoever, that may arise in the execution and fulfillment of the services provided for under this Agreement.

12.2 The decision of the COUNTY upon all claims, questions, disputes and conflicts shall be final and conclusive, and shall be binding upon all parties to this Agreement, subject to judicial review.

#### **SECTION 13 CONSULTANT'S ACCOUNTING RECORDS**

13.1 Records of expenses pertaining to all services performed shall be kept in accordance with generally accepted accounting principles and procedures.

13.2 The CONSULTANT'S records shall be open to inspection and subject to examination, audit, and/or reproduction during normal working hours by the COUNTY'S agent or authorized representative to the extent necessary to adequately permit evaluation and verification of any invoices, payments or claims submitted by the CONSULTANT or any of his payees pursuant to the execution of the Agreement. These records shall include, but not be limited to, accounting records, written policies and procedures, subcontractor files (including proposals of successful and unsuccessful bidders), original estimates, estimating worksheets, correspondence, change order files (including documentation covering negotiated settlements), and any other supporting evidence necessary to substantiate charges related to this Agreement. They shall also include, but not be limited to, those records necessary to evaluate and verify direct and indirect costs (including overhead allocations) as they may apply to costs associated with this Agreement. The COUNTY shall not audit payroll and expense records on task assignments paid by lump sum fee.

13.3 For the purpose of such audits, inspections, examinations and evaluations, the COUNTY'S agent or authorized representative shall have access to said records from the effective date of the Agreement, for the duration of work, and until three (3) years after the date of final payment by the COUNTY to the CONSULTANT pursuant to this Agreement.

13.4 The COUNTY'S agent or authorized representative shall have access to the CONSULTANT'S facilities and all necessary records in order to conduct audits in compliance with this Section. The COUNTY'S agent or authorized representative shall give the CONSULTANT reasonable advance notice of intended inspections, examinations, and/or audits.

#### **SECTION 14 OWNERSHIP OF PROJECT DOCUMENTS**

Upon completion or termination of this Agreement, all records, documents, tracings, plans, specifications, maps, evaluations, reports and other technical data, other than working papers, prepared or developed by the CONSULTANT under this Agreement shall be delivered to and become the property of the COUNTY. The CONSULTANT, at its own expense, may retain copies for its files and internal use. The COUNTY shall not reuse any design plans or specifications to construct another project at the same or a different location without the CONSULTANT'S specific written verification, adaptation or approval.

**SECTION 15  
INSURANCE COVERAGE AND INDEMNIFICATION**

15.1 The Contractor must maintain insurance in at least the amounts required in the Request for Proposal throughout the term of this contract. The contractor must provide a Certificate of Insurance in accordance with Insurance Requirements of the Request for Proposal, evidencing such coverage prior to issuance of a purchase order or commencement of any work under this Contract. See Section C Insurance Requirements – Attached

15.2 If the CONSULTANT is an individual or entity licensed by the state of Florida who holds a current certificate of registration under Chapter 481, Florida Statutes, to practice architecture or landscape architecture, under Chapter 472, Florida Statutes, to practice land surveying and mapping, or under Chapter 471, Florida Statutes, to practice engineering, and who enters into a written agreement with the COUNTY relating to the planning, design, construction, administration, study, evaluation, consulting, or other professional and technical support services furnished in connection with any actual or proposed construction, improvement, alteration, repair, maintenance, operation, management, relocation, demolition, excavation, or other facility, land, air, water, or utility development or improvement, the CONSULTANT will indemnify and hold harmless the COUNTY, and its officers and employees, from liabilities, damages, losses, and costs, including, but not limited to, reasonable attorneys' fees, to the extent caused by the negligence, recklessness, or intentionally wrongful conduct of the CONSULTANT and other persons employed or utilized by the CONSULTANT in the performance of the Agreement.

**SECTION 16  
EQUAL EMPLOYMENT OPPORTUNITY CLAUSE  
FOR CONTRACTS NOT SUBJECT TO EXECUTIVE ORDER 11246**

In carrying out the contract, the CONSULTANT shall not discriminate against employee or applicant for employment because of race, color, religion, sex or national origin.

**SECTION 17  
INDEPENDENT CONTRACTOR STATUS AND COMPLIANCE WITH THE  
IMMIGRATION REFORM AND CONTROL ACT OF 1986**

CONSULTANT acknowledges that it is functioning as an independent contractor in performing under the terms of this Agreement, and it is not acting as an employee of COUNTY. CONSULTANT acknowledges that it is responsible for complying with the provisions of the Immigration Reform and Control Act of 1986, located at 8 U.S.C. Section 1324, et seq., and regulations relating thereto. Failure to comply with the above provisions of this contract shall be considered a material breach and shall be grounds for immediate termination of the contract.

**SECTION 18  
PROHIBITION AGAINST CONTINGENT FEE**

The CONSULTANT warrants that he has not employed or retained any company or person, other than a bona fide employee working solely for the CONSULTANT to solicit or secure this Agreement, and that he has not paid or agreed to pay any person, company, corporation, individual, or firm other than a bona fide employee working solely for the CONSULTANT, any fee, commission, percentage, gift or any other consideration, contingent upon or resulting from the award or making of this Agreement.

**SECTION 19  
TRUTH IN NEGOTIATIONS**

By execution of this Agreement, the CONSULTANT certifies to truth-in-negotiations and that wage rates and other factual unit costs supporting the compensation are accurate, complete and current at the time of contracting. Further, the original contract amount and any additions thereto shall be adjusted to exclude any significant sums where the COUNTY determines the contract price was increased due to inaccurate, incomplete or non-current wage rates and other factual unit costs. Such adjustments must be made within one (1) year following the end of the contract.

**SECTION 20  
SUCCESSORS AND ASSIGNS**

The CONSULTANT shall not assign, sublet, or transfer his interest in this Agreement without the written consent of the COUNTY.

**SECTION 21  
INTEREST ON JUDGMENTS**

In the event of any disputes between the parties to this Agreement, including without limitation thereto, their assignees and/or assigns, arising out of or relating in any way to this Agreement, which results in litigation and a subsequent judgment, award or decree against either party, it is agreed that any entitlement to post judgment interest, to either party and/or their attorneys, shall be fixed by the proper court at the rate of five percent (5%), per annum, simple interest. Under no circumstances shall either party be entitled to pre-judgment interest. The parties expressly acknowledge and, to the extent allowed by law, hereby opt out of any provision of federal or state statute not in agreement with this paragraph.

**SECTION 22  
TERMINATION OF AGREEMENT**

22.1 The COUNTY reserves the right to cancel this Agreement, without cause, by giving thirty (30) days prior written notice to the CONSULTANT of the intention to cancel. Failure of the CONSULTANT to fulfill or abide by any of the terms or conditions specified shall be considered a material breach of contract and shall be cause for immediate termination of the contract at the discretion of COUNTY. Alternatively, at the COUNTY'S discretion, the COUNTY may provide to CONSULTANT thirty (30) days to cure the breach. Where notice of breach and opportunity to cure is given, and CONSULTANT fails to cure the breach within the time provided for cure, COUNTY reserves the right to treat the notice of breach as notice of intent to cancel the Agreement for convenience.

22.2 If COUNTY terminates the Agreement for convenience, other than where the CONSULTANT breaches the Agreement, the CONSULTANT'S recovery against the COUNTY shall be limited to that portion of the CONSULTANT'S compensation earned through date of termination, together with any costs reasonably incurred by the CONSULTANT that are directly attributable to the termination. The CONSULTANT shall not be entitled to any further recovery against the COUNTY, including but not limited to anticipated fees or profit on work not required to be performed.

22.3 Upon termination, the CONSULTANT shall deliver to the COUNTY all original papers, records, documents, drawings, models, and other material set forth and described in this Agreement.

22.4 In the event that conditions arise, such as lack of available funds, which in the COUNTY'S opinion make it advisable and in the public interest to terminate this Agreement, it may do so upon written notice.

**SECTION 23  
AGREEMENT TERM**

This Agreement will become effective on the date of execution first written above and shall remain in effect for Twenty-four (24) consecutive months from the commencement date on the Notice to Proceed unless terminated at an earlier date under other provisions of this agreement, or

unless extended for a longer term by amendment.

#### **SECTION 24 CONFLICT OF INTEREST**

24.1 By accepting award of this Contract, the CONSULTANT, which shall include its directors, officers and employees, represents that it presently has no interest in and shall acquire no interest in any business or activity which would conflict in any manner with the performance of services required hereunder, including as described in the CONSULTANT'S own professional ethical requirements. An interest in a business or activity which shall be deemed a conflict includes but is not limited to direct financial interest in any of the material and equipment manufacturers suppliers, distributors, or contractors who will be eligible to supply material and equipment for the PROJECT for which the CONSULTANT is furnishing its services required hereunder.

24.2 If, in the sole discretion of the County Administrator or designee, a conflict of interest is deemed to exist or arise during the term of the contract, the County Administrator or designee may cancel this contract, effective upon the date so stated in the Written Notice of Cancellation, without penalty to the COUNTY.

#### **SECTION 25 ENTIRE AGREEMENT**

This Agreement represents, together with all Exhibits and Appendices, the entire written Agreement between the COUNTY and the CONSULTANT and may be amended only by written instrument signed by both the COUNTY and the CONSULTANT.

#### **SECTION 26 PUBLIC ENTITY CRIMES**

The CONSULTANT is directed to the Florida Public Entity Crimes Act, Section 287.133, Florida Statutes, specifically section 2(a), and the COUNTY'S requirement that the CONSULTANT comply with it in all respects prior to and during the term of the Contract.

#### **SECTION 27 PUBLIC RECORDS**


Contractor acknowledges that information and data it manages as part of the services may be public records in accordance with Chapter 119, Florida Statutes and Pinellas County public records policies. Contractor agrees that prior to providing services it will implement policies and procedures to maintain, produce, secure, and retain public records in accordance with applicable laws, regulations, and County policies, including but not limited to the Section 119.0701, Florida Statutes. Notwithstanding any other provision of this Agreement relating to compensation, the Contractor agrees to charge the County, and/or any third parties requesting public records only such fees allowed by Section 119.07, Florida Statutes, and County policy for locating and producing public records during the term of this Agreement.

**SECTION 28**  
**GOVERNING LAW AND AGREEMENT EXECUTION**

This Agreement shall be governed by the laws of the State of Florida.

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

PINELLAS COUNTY, by and through its  
Board of County Commissioners

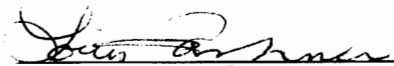
By:   
Print Name: Paul Bowdoin  
Title: Sr. Vice President Date: 11-14-14

By: \_\_\_\_\_  
Name \_\_\_\_\_ Date: \_\_\_\_\_  
Chairman

ATTEST:

ATTEST:

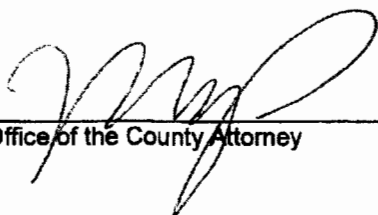
Ken Burke, clerk of the Circuit Court

By:   
Print Name: Louis J. Pachman  
Title: Secretary Date: \_\_\_\_\_

By: \_\_\_\_\_  
Deputy Clerk \_\_\_\_\_ Date: \_\_\_\_\_

(CORPORATE SEAL)

APPROVAL AS TO FORM:

By:   
Office of the County Attorney



**SECTION C- INSURANCE REQUIREMENTS**

**Notice:** The Contractor/Vendor must provide a certificate of insurance and endorsement in accordance with the insurance requirements listed below (Section C) prior to recommendation for award. Failure to provide the required insurance within a ten (10) day period following the determination or recommendation of the highest ranked firm may result in the County to vacate the original determination or recommendation and proceed with recommendation to the second highest ranked firm.

The Contracted vendor shall obtain and maintain, and require any sub-contractors to obtain and maintain, at all times during its performance of the Agreement, insurance of the types and in the amounts set forth. For projects with a Completed Operations exposure, Contractor shall maintain coverage and provide evidence of insurance for two (2) years beyond final acceptance. All insurance policies shall be from responsible companies duly authorized to do business in the State of Florida and have an AM Best rating of A- VIII or better. The Certificate(s) of Insurance shall be signed by authorized representatives of the insurance companies shown on the Certificate(s). **A copy of the endorsement(s) referenced in paragraph four (4) for Additional Insured shall be attached to the certificate(s).**

No work shall commence at any project site unless and until the required Certificate(s) of Insurance are received and approved by the County. Approval by the County of any Certificate of Insurance does not constitute verification by the County that the insurance requirements have been satisfied or that the insurance policy shown on the Certificate of Insurance is in compliance with the requirements of the Agreement. County reserves the right to require a certified copy of the entire insurance policy, including endorsements, at any time during the RFP and/or contract period.

All policies providing liability coverage(s), other than professional liability and worker's compensation policies obtained by the Contractor and any sub-contractors to meet the requirements of the Agreement shall be endorsed to include Pinellas County Board of County Commissioners as an Additional Insured.

If any insurance provided pursuant to the Agreement expires prior to the completion of the Work, renewal Certificates of Insurance and endorsements shall be furnished by the Contractor to the County at least thirty (30) days prior to the expiration date.

Contracted vendor shall also notify County within twenty-four (24) hours after receipt, of any notices of expiration, cancellation, nonrenewal or adverse material change in coverage received by said Contractor from its insurer. Notice shall be given by certified mail to: Pinellas County Purchasing Department, 400 S. Ft. Harrison Avenue, 6th Floor, Clearwater, Florida 33756; and nothing contained herein shall absolve Contractor of this requirement to provide notice.

Should the Contractor, at any time, not maintain the insurance coverages required herein, the County may terminate the Agreement, or at its sole discretion may purchase such coverages necessary for the protection of the County and charge the Contractor for such purchase. The County shall be under no obligation to purchase such insurance, nor shall it be responsible for the coverages purchased or the insurance company or companies used. The decision of the County to purchase such insurance shall in no way be construed to be a waiver of any of its rights under the Agreement.

Each insurance policy shall include the following terms and/or conditions in the policy:

- (1) The Named Insured on the Certificate of Insurance must match the entity's name that responded to the RFP and/or is signing the agreement with the County.
- (2) Companies issuing the insurance policy, or policies, shall have no recourse against County for payment of premiums or assessments for any deductibles which all are at the sole responsibility and risk of Contractor.
- (3) The term "County" or "Pinellas County" shall include all Authorities, Boards, Bureaus, Commissions, Divisions, Departments and Constitutional offices of County and individual members, employees thereof in their official capacities, and/or while acting on behalf of Pinellas County.
- (4) The policy clause "Other Insurance" shall not apply to any insurance coverage currently held by County or any such future coverage, or to County's Self-Insured Retentions of whatever nature.
- (5) All policies shall be written on a primary, non-contributory basis.
- (6) Any certificate of insurance evidencing coverage provided by a leasing company for either workers compensation or commercial general liability shall have a list of covered employees certified by the leasing company attached to the

## SECTION C— INSURANCE REQUIREMENTS

certificate of insurance. The County shall have the right, but not the obligation to determine that the contractor is only using employees named on such list to perform work for the County. Should employees not named be utilized by contractor, the County, at its option may stop work without penalty to the county until proof of coverage or removal of the employee by the contractor occurs, or alternatively find the contractor to be in default and take such other protective measures as necessary.

- (7) Insurance policies, other than Professional Liability, shall include waivers of subrogation in favor of Pinellas County from the both the Contractor and sub-contractor(s).

The insurance requirements for this Agreement, which shall remain in effect throughout its duration and for two (2) years beyond final acceptance for projects with a Completed Operations exposure, are as follows:

(A) Workers' Compensation Insurance

Limit	Florida Statutory
Employers Liability Limits	
Per Employee	\$ 500,000
Per Employee Disease	\$ 500,000
Policy Limit Disease	\$ 500,000

- (B) Commercial General Liability Insurance including, but not limited to, Independent Contractor, Contractual Liability Premises/Operations, Products/Completed Operation and Personal Injury.

Limits	
Combined Single Limit per Occurrence	\$ 1,000,000
Products/Completed Operations Aggregate	\$ 1,000,000
Personal Injury and Advertising Injury	\$ 1,000,000
General Aggregate	\$ 2,000,000

- (C) Business Automobile or Trucker's/Garage Liability Insurance covering owned, hired and non-owned vehicles. Coverage shall be on an "occurrence" basis, such insurance to include coverage for loading and unloading hazards, unless Contractor can show that this coverage exists under the Commercial General Liability policy.

Limit	
Combined Single Limit Per Accident	\$ 1000,000

- (D) Excess or Umbrella Liability Insurance Not Applicable

- (E) Professional Liability Insurance (Errors and Omissions) with at least minimum limits as follows. If "claims made" coverage is provided, "tail coverage" extending three (3) years beyond completion and acceptance of the project with proof of "tail coverage" to be submitted with the invoice for final payment. In lieu of "tail coverage", Contractor may submit annually to the County, for a three (3) year period, a current certificate of insurance providing "claims made" insurance with prior acts coverage in force with a retroactive date no later than commencement date of this contract.

Limits	
Each Occurrence or Claim	\$ 1,000,000
General Aggregate	\$ 1,000,000

For acceptance of Professional Liability coverage included within another policy required herein, a statement notifying the certificate holder must be included on the certificate of insurance and the total amount of said coverage per occurrence must be greater than or equal to the amount of Professional Liability and other coverage combined.

**SECTION C- INSURANCE REQUIREMENTS**

- (F) Pollution Legal/Environmental Legal Liability Insurance Not Applicable
- (G) Cyber Risk Liability (Network Security/Privacy Liability) Not Applicable
- (H) Crime/Fidelity/Financial Institution Insurance Not Applicable
- (I) Property Insurance Contractor will be responsible for all damage to its own property, equipment and/or materials.
- (J) Builders Risk/Installation Floater Insurance Not Applicable

**PLEASE NOTE: IF AFTER THE PD&E STUDY IS COMPLETED AND THE CONSULTANT IS REQUESTED TO PROVIDE PROFESSIONAL ENGINEERING SERVICES FOR DESIGN, PLANS PREPARATION, CONSTRUCTIONS PREPARATION AND ENGINEER-OF-RECORD CONSTRUCTION SERVICES, THERE IS THE POTENTIAL FOR ADDITIONAL INSURANCE REQUIREMENTS BASED ON THE CHANGE IN THE SCOPE OF WORK.**

Exhibit A



Scope and Fee Package

PID 001036A

San Martin Boulevard  
over Riviera Bay Bridge  
Replacement PD&E

134-0091-NC

June 23, 2014


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6. Proposed Rates: Cumbey & Fair, Inc.
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9. Scope of Services: Trail Evaluation
10. Fee and Staff Hours: HDR
11. Fee and Staff Hours: HDR Optional Services
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14. Fee and Staff Hours: KB Environmental Sciences, Inc.
15. Fee and Staff Hours: Tierra, Inc.
16. Fee and Staff Hours: Intera, Inc.

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Proposed Rates:  
HDR Engineering, Inc.

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**HDR Engineering, Inc.**  
**Schedule of Rate Values**

**PID 001036A**

**San Martin Boulevard over Riviera Bay Bridge Replacement PD&E**

**RFP #134-0091-NC**

<b>JOB CLASSIFICATION</b>	<b>2014 PROPOSED LOADED RATE</b>
<b>Project Manager</b>	<b>\$ 198.00</b>
<b>Chief Engineer</b>	<b>\$ 219.00</b>
<b>Senior Planner</b>	<b>\$ 166.00</b>
<b>Senior Engineer</b>	<b>\$ 155.00</b>
<b>Planner</b>	<b>\$ 107.00</b>
<b>Project Engineer</b>	<b>\$ 120.00</b>
<b>Engineering Intern</b>	<b>\$ 89.00</b>
<b>Designer</b>	<b>\$ 96.00</b>
<b>Engineering Technician</b>	<b>\$ 77.00</b>
<b>Chief Scientist</b>	<b>\$ 145.00</b>
<b>Senior Scientist</b>	<b>\$ 120.00</b>
<b>Secretary/Clerical</b>	<b>\$ 64.00</b>

# 2.

Proposed Rates:  
Archaeological  
Consultants, Inc.



# ARCHAEOLOGICAL CONSULTANTS INC.

ARCHAEOLOGICAL  
SURVEYS AND  
EXCAVATIONS

HISTORIC BUILDING  
SURVEYS AND  
EVALUATIONS

ARCHIVAL RESEARCH

CULTURAL RESOURCE  
ASSESSMENTS

NATIONAL REGISTER  
NOMINATIONS

INTERPRETIVE  
DISPLAYS

PRESERVATION  
PLANNING

## 2014 Published Fee Schedule

San Martin Blvd. over Riviera Bay Bridge  
Pinellas County, Florida  
Contract No. 101-0131-NC (AM)

### Job Classifications \* \*

### Loaded Billing Rates

1. Project Manager	\$164.89
2. Principal Investigator	164.89
3. Architectural Historian	59.96
4. Project Archaeologist	77.94
5. GIS/Design Technician	57.53
6. Technician	48.15
7. Clerical	54.71

*Florida's First Choice  
in Cultural Resource  
Management*

### \* \* Equivalent FDOT Staff Classifications:

1. Project Manager	5. GIS Specialist
2. Chief Scientist	6. Archaeologist
3. Scientist	7. Secretary/Clerical
4. Senior Archaeologist	

A MEMBER OF

**ACRA**

American Cultural  
Resource Association

8110 BLAIKIE COURT, SUITE A, SARASOTA, FLORIDA 34240, (941) 379-6206, FAX (941) 379-6216

• TAMPA BAY AREA OFFICE: (727) 588-0056 • TALLAHASSEE AREA OFFICE: (850) 926-9285 • ST. AUGUSTINE AREA OFFICE: (904) 829-9100

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# 3.

Proposed Rates:  
KB Environmental  
Sciences, Inc.



9500 Koger Boulevard  
Suite 211  
St. Petersburg, Florida 33702

T: (727) 578-5152

June 11, 2014

**Reference: San Martin Boulevard Project Development and Environment (PD&E)  
Study - Fully Burdened Hourly Rates**

The “fully burdened” hourly rates below (i.e., rates that include labor, overhead, and profit) were calculated using the raw rates of the staff that will provide traffic noise and air quality services on the referenced project and multipliers that are approved and routinely accepted by the Florida Department of Transportation.

Employee	Job Classification	Fully Burdened Rate	Percent of Classification/ Weighted Rate	Job Classification Rate
Carrol Fowler	Chief Scientist	\$176.12	100%	\$176.12
Lindsay Baumaister	Scientist	\$86.19	50%	\$84.18
Wayne Arner	Scientist	\$82.16	50%	
Michele Hyres	Technician	\$34.26	100%	\$34.26

**KB Environmental Sciences, Inc.**

A handwritten signature in cursive script that reads 'L. Carrol Fowler'.

L. Carrol Fowler  
President



4.

Proposed Rates:  
Tierra, Inc.





	Unit	Unit Price	Total
<b>I. FIELD INVESTIGATION</b>			
Mobilization of Men and Equipment			
Truck-Mounted Equipment	Trip	\$ 324.00	0.00
Specialized ATV/Mudbug	Trip	\$ 649.00	0.00
Support Vehicle	Trip	\$ 145.00	0.00
Cone Penetrometer Equipment	Trip	\$ 340.00	0.00
Barge-Mounted Equipment	Trip	\$ 7138.00	0.00
Barge Equipment with Tug	Day	\$ 2575.00	0.00
Safety Boat	Day	\$ 515.00	0.00
Standard Penetration Test Borings (By Truck-Mounted Equipment)			
Land: 0 - 50 ft depth	L.F.	\$ 12.00	0.00
50 - 100 ft depth	L.F.	\$ 16.00	0.00
100 - 150 ft depth	L.F.	\$ 29.00	0.00
150 - 200 ft depth	L.F.	\$ 43.00	0.00
Standard Penetration Test Borings (By ATV/Mudbug)			
Land: 0 - 50 ft depth	L.F.	\$ 14.00	0.00
50 - 100 ft depth	L.F.	\$ 17.00	0.00
100 - 150 ft depth	L.F.	\$ 30.00	0.00
150 - 200 ft depth	L.F.	\$ 43.00	0.00
Standard Penetration Test Borings (Track-Mounted)			
Land: 0 - 50 ft depth	L.F.	\$ 18.00	0.00
50 - 100 ft depth	L.F.	\$ 24.00	0.00
100 - 150 ft depth	L.F.	\$ 28.00	0.00
150 - 200 ft depth	L.F.	\$ 43.00	0.00
Standard Penetration Test Borings (By Barge-Mounted Equipment)			
0 - 50 ft depth	L.F.	\$ 20.00	0.00
50 - 100 ft depth	L.F.	\$ 26.00	0.00
100 - 150 ft depth	L.F.	\$ 49.00	0.00
150 - 200 ft depth	L.F.	\$ 73.00	0.00
Cone Penetrometer Test Borings			
0 - 100 ft depth	L.F.	\$ 12.00	0.00
100 - 200 ft depth	L.F.	\$ 15.00	0.00
Grout-Seal Boreholes (By Truck-Mounted Equipment)			
Land: 0 - 50 ft depth	L.F.	\$ 5.00	0.00
50 - 100 ft depth	L.F.	\$ 6.00	0.00
100 - 150 ft depth	L.F.	\$ 9.00	0.00
150 - 200 ft depth	L.F.	\$ 12.00	0.00

Grout-Seal Boreholes (By ATV/Mudbug)				
Land: 0 - 50 ft depth	L.F.	\$	6.00	0.00
50 - 100 ft depth	L.F.	\$	7.00	0.00
100 - 150 ft depth	L.F.	\$	9.00	0.00
150 - 200 ft depth	L.F.	\$	11.00	0.00
Grout-Seal Boreholes (Track-Mounted)				
Land: 0 - 50 ft depth	L.F.	\$	7.00	0.00
50 - 100 ft depth	L.F.	\$	9.00	0.00
100 - 150 ft depth	L.F.	\$	14.00	0.00
150 - 200 ft depth	L.F.	\$	18.00	0.00
Grout-Seal Boreholes (By Barge-Mounted Equipment)				
0 - 50 ft depth	L.F.	\$	8.00	0.00
50 - 100 ft depth	L.F.	\$	10.00	0.00
100 - 150 ft depth	L.F.	\$	16.00	0.00
150 - 200 ft depth	L.F.	\$	21.00	0.00
Casing Allowance (By Truck-Mounted Equipment)				
Land: 0 - 50 ft depth	L.F.	\$	8.00	0.00
50 - 100 ft depth	L.F.	\$	9.00	0.00
100 - 150 ft depth	L.F.	\$	11.00	0.00
150 - 200 ft depth	L.F.	\$	14.00	0.00
Casing Allowance (By ATV/Mudbug)				
Land: 0 - 50 ft depth	L.F.	\$	10.00	0.00
50 - 100 ft depth	L.F.	\$	13.00	0.00
100 - 150 ft depth	L.F.	\$	16.00	0.00
150 - 200 ft depth	L.F.	\$	20.00	0.00
Casing Allowance (Track-Mounted)				
Land: 0 - 50 ft depth	L.F.	\$	12.00	0.00
50 - 100 ft depth	L.F.	\$	14.00	0.00
100 - 150 ft depth	L.F.	\$	16.00	0.00
150 - 200 ft depth	L.F.	\$	21.00	0.00
Casing Allowance (By Barge-Mounted Equipment)				
0 - 50 ft depth	L.F.	\$	13.00	0.00
50 - 100 ft depth	L.F.	\$	16.00	0.00
100 - 150 ft depth	L.F.	\$	18.00	0.00
150 - 200 ft depth	L.F.	\$	33.00	0.00
Rock Coring (Structures) (By Truck-Mounted Equipment)				
0 - 50 ft deep	L.F.	\$	34.00	0.00
50 - 100 ft deep	L.F.	\$	47.00	0.00
100 - 150 ft depth	L.F.	\$	57.00	0.00

Rock Coring (Structures)				
(By ATV/Mudbug)				
0 - 50 ft deep	L.F.	\$	41.00	0.00
50 - 100 ft deep	L.F.	\$	48.00	0.00
100 - 150 ft deep	L.F.	\$	62.00	0.00
Rock Coring (Structures)				
(Track-Mounted)				
0 - 50 ft deep	L.F.	\$	40.00	0.00
50 - 100 ft deep	L.F.	\$	53.00	0.00
100 - 150 ft deep	L.F.	\$	72.00	0.00
Rock Coring (Structures)				
(By Barge-Mounted Equipment)				
0 - 50 ft deep	L.F.	\$	44.00	0.00
50 - 100 ft deep	L.F.	\$	58.00	0.00
100 - 150 ft deep	L.F.	\$	77.00	0.00
Field Permeability Tests	Test	\$	270.00	0.00
Flagmen & Barricades (2 man crew)	Day	\$	854.00	0.00
Florida Patrolmen (Traffic Control)	Hour	\$	35.00	0.00
Arrow Rental Sign	Day	\$	71.00	0.00
Permit Costs \$100 per six borings	Day	\$	103.00	0.00
Auger Borings Roadway and Ponds	L.F.	\$	10.00	0.00
Extra Split Spoon Samples	Each	\$	37.00	0.00
Hand Muck Probes (2-man crew)	Day	\$	854.00	0.00
Thin Walled Shelby Tube Samples (Land)	Each	\$	184.00	0.00
2-Inch Piezometer Installation	L.F.	\$	42.00	0.00
Standby/Decontamination (Drill Rig & Crew)	Hour	\$	195.00	0.00
Lee County Permit	Each	\$	103.00	0.00
Double Ring Infiltration Test	Test	\$	497.00	0.00
Organic Vapor Analyzer (OVA)	Day	\$	227.00	0.00
Power Auger Boring (includes steam cleaning to a depth of 25 feet)	L.F.	\$	12.00	0.00
Pavement Cores, Asphalt	Each	\$	95.00	0.00
Concrete Cores	Each	\$	206.00	0.00
Per Diem-Two Man Crew	Day	\$	155.00	0.00

II. LABORATORY TESTING

Visual Examination/Stratify 1 set = 5 feet	Per Set	\$	4.00	0.00
Natural Moisture Content Tests	Test	\$	8.00	0.00
Grain-Size Analysis - Full Gradation	Test	\$	61.00	0.00
Grain-Size Analysis - Single Sieve	Test	\$	39.00	0.00
Organic Content Tests	Test	\$	40.00	0.00
Atterberg Limit Tests	Test	\$	91.00	0.00
Liquid Limit Tests (Only)	Test	\$	56.00	0.00
Plastic Limit Tests (Only)	Test	\$	36.00	0.00
Environmental Tests (pH, sulfates, chlorides, resistivity)	Set	\$	162.23	0.00
Unit Weight Determination	Test	\$	41.00	0.00
a) Consolidation Tests	Test	\$	405.00	0.00
b) Each additional load increment above 4TSF	Each	\$	26.00	0.00
Specific Gravity	Test	\$	58.00	0.00
Triaxial Shear Tests (3 Points)	Test	\$	346.00	0.00
Rock Compression Test	Test	\$	108.00	0.00
Split Tension Test	Test	\$	108.00	0.00
LBR Test	Test	\$	314.00	0.00
Permeability Test	Test	\$	270.00	0.00
Grain-Size with Hydrometer	Test	\$	124.00	0.00
Proctor Test a) Modified	Test	\$	117.00	0.00
b) Standard	Test	\$	110.00	0.00
Concrete Compression	Test	\$	155.00	0.00
Chloride Testing	Test	\$	155.00	0.00
Petrographic Testing	Test	\$	1648.00	0.00
Swell Test	Test	\$	162.00	0.00


Sample Preparation	Hour	\$	74.00	0.00
Direct Shear Strength Test (1 Point)	Test	\$	270.00	0.00
Soil Cement Mix Designs	Each	\$	1051.00	0.00
pH Test	Test	\$	29.00	0.00
Fines Content	Test	\$	43.00	0.00
Extrusion of UD	Test	\$	28.00	0.00
Bitumen Extraction	Test	\$	113.00	0.00
Bitumen Gradation	Test	\$	113.00	0.00
RCRA Metals (Method 6010/7471)	Each	\$	88.00	\$ 0.00
Arsenic (Method 6010/7471)	Each	\$	13.40	\$ 0.00
SPLP/TCLP Metals	Each	\$	198.00	\$ 0.00
Asbestos Samples	Each	\$	25.00	\$ 0.00
<b>III. FIELD ENGINEERING AND TECHNICAL SERVICES</b>				
Site Recon./Utility Coordination/Traffic Control Senior Specialist	Hour	\$	101.00	0.00
Sr. Engineering Technician	Hour	\$	67.00	0.00
Engineering Technician	Hour	\$	57.00	0.00
<b>IIIA. ENGINEERING AND TECHNICAL SERVICES</b>				
Project Manager	Hour	\$	159.00	0.00
Senior Project Engineer	Hour	\$	129.00	0.00
Senior Specialist	Hour	\$	101.00	0.00
Project Engineer	Hour	\$	109.00	0.00
Engineering Intern	Hour	\$	90.00	0.00
Computer Technician	Hour	\$	80.00	0.00
Sr Engineering Technician	Hour	\$	67.00	0.00
Engineering Technician	Hour	\$	57.00	0.00
Secretary/Clerical	Hour	\$	52.00	0.00
Senior Scientist	Hour	\$	76.00	0.00

**Estimated Project Fee**



5.

Proposed Rates:  
Intera, Inc.





**INTERA Incorporated**  
100 SW 75<sup>th</sup> Street, Suite 107  
Gainesville, FL 32607  
Telephone: 352 332 2323  
[mgosselin@intera.com](mailto:mgosselin@intera.com)

May 16, 2014

Mari Albertson-Bonbrest  
Transportation Assistant Marketing Manager  
HDR  
5426 Bay Center Drive, Suite 400  
Tampa, FL 33609

Re: *San Martin Blvd over Riviera Bay Bridge and Roadway Improvements (PID 001036A)*  
*Project Development and Environment Study, Pinellas County Contract 101-0131-NC*  
*(AM)*

Dear Ms. Albertson-Bonbrest,

The table below contains fully burdened hourly labor rates for INTERA Incorporated personnel by standard FDOT labor rate classifications. The rates reflect labor, audited overhead and expense rate, and profit.

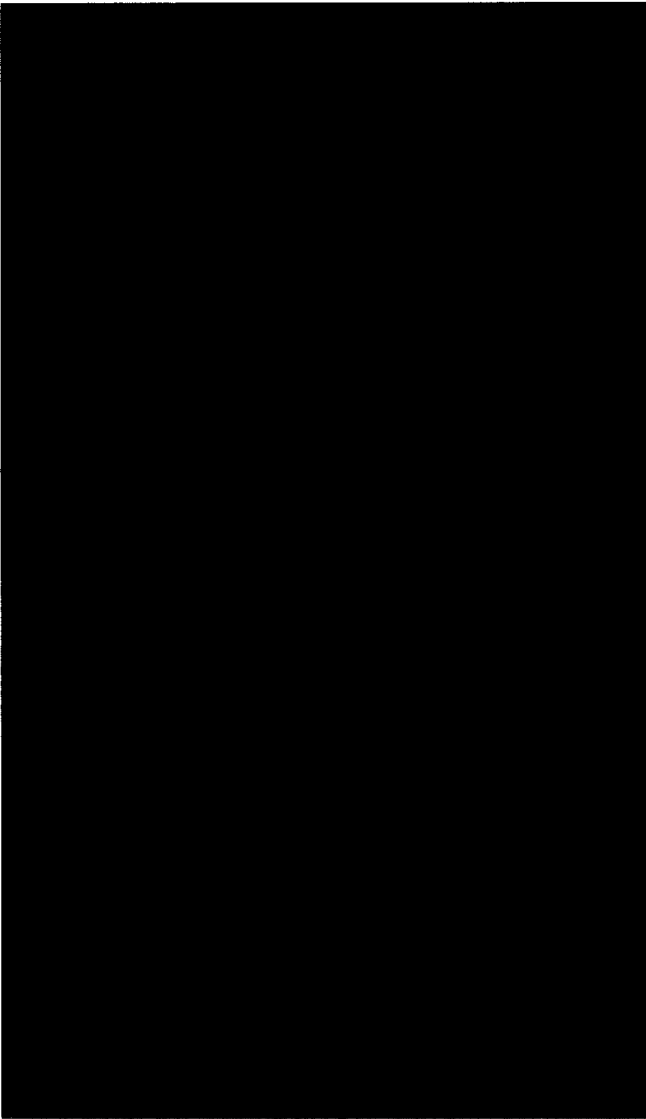


Classification	Fully Burdened Hourly Rate
Chief Engineer	\$ 193.86
Engineer	\$ 100.03
Engineer Intern	\$ 80.20
Project Engineer	\$ 118.16
Project Manager	\$ 173.15
Secretary/Clerical	\$ 50.78
Senior Engineer	\$ 153.28

Please let me know if you need back up documentation for the submitted rates.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Gosselin". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Mark Gosselin, P.E., Ph.D.  
Director of Hydraulics and Coastal Modeling  
INTERA Incorporated

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6.

Proposed Rates:  
Cumbey & Fair, Inc.





# CUMBEY & FAIR, INC.

---

2463 ENTERPRISE ROAD, CLEARWATER, FLORIDA 33762  
(727) 797-8982 Clearwater (813) 223-4333 Tampa (727) 791-8752 Fax WWW.CUMBEYFAIR.COM

## **Schedule of Rate Values – Pinellas County**

Loaded Hourly Billing Rates - 2014

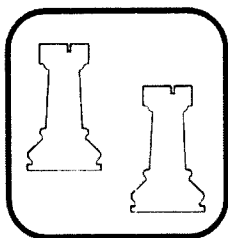
<b><u>Cumbey &amp; Fair, Inc.</u></b>	<b><u>Rate/Hour</u></b>
Project Manager	\$158.00
Secretary/Clerical	\$58.50
Senior Surveyor & Mapper	\$145.00
Surveyor & Mapper	\$115.00
Survey Technician	\$90.00
Senior Utility Coordinator	\$130.00
Utility Coordinator	\$115.00
Utility Locator	\$60.00
Utility Technician	\$50.00
Field Crew Supervisor	\$102.00
Party Chief	\$70.00
Instrument Man	\$45.00
Rod Man/Chain Man	\$35.75



7.

Proposed Rates:  
IF Rooks, Inc.





# I. F. ROOKS & ASSOCIATES, INC.

## PHOTOGRAMMETRY

I. F. Rooks & Associates, Inc. -PINELLAS COUNTY San Martin PD&E							
A. <u>Schedule of Unit Price Fees for Aerial Photography:</u>							
1.	Flying hours from take-off to landing.			(Fixed Wing)	\$600.00	per hour	
	Low Altitude Flight Time (2 hour minimum)			(Helicopter)	\$ 1,500.00	per hour	
	*including aircraft & equipment (Flying hours that are to re-work rejected aerial photography will not be charged).						
2.	Black & white, natural color, color infrared aerial film, processing, annotating, including one (1) contact print per exposure.						
				<u>Black &amp; White</u>	<u>Color</u>	<u>Color IR</u>	
	0 to 50 Exposures			\$12.00	\$17.00	\$ 17.00	
	51 to 70 Exposures			\$11.00	\$15.00	\$ 15.00	
	71 to 100 Exposures			\$10.00	\$14.00	\$ 14.00	
	101 to 125 Exposures			\$9.00	\$13.00	\$ 13.00	
	126 to 150 Exposures			\$8.00	\$12.00	\$ 12.00	
	151 to 200 Exposures			\$7.00	\$10.00	\$ 10.00	
	201 up to full roll (250' roll)			\$7.00	\$10.00	\$ 10.00	
	Additional paper contact prints, as required.						
	Contact Prints 1 (each print)			\$12.00	\$17.00	\$17.00	
	Contact Prints 2 or more (ea. print)			\$9.00	\$11.00	\$12.00	
3.	Black & White Diapositive			\$12.00 each			
4.	Color Diapositives			\$17.00 each			
5.	a. CD					\$9.00	per CD
	b. DVD					\$12.00	per DVD

106 N.W. DRANE STREET • PLANT CITY, FLORIDA 33563  
 PHONE: (813) 752-2113 • TOLL FREE: (800) 495-3240 • FAX: (813) 752-3102

<b>6.</b>	<b>Personal Classifications (Loaded Rates)</b>							
	Project Manager, PSM						\$180.77	Per Hour
	Sr. Surveyor & Mapper						\$87.19	Per Hour
	CADD/Editor						\$85.11	Per Hour
	Ortho Analyst						\$74.74	Per Hour
	Lab Processor						\$62.28	Per Hour
<i>The rates listed above are the customary fees charged to both government and private industry.</i>								
	Isaac Rooks, Jr.						05/16/2014	
	President						Date	



8.

Proposed Rates:  
Adams Traffic, Inc.



# ***Adams Traffic, Inc.***

P.O. Box 997, Plant City, FL 33564  
tel: 813-763-7763 fax: 813-659-8688  
e-mail: adamstraff@aol.com

September 30, 2014

Marlin Register, P.E.  
Project Manager  
HDR, Inc.  
5426 Bay Center Drive, Suite 400  
Tampa, FL 33609

*Re: San Martin Blvd over Riviera Bay Bridge and Roadway Improvements (PID 001036A Project Development and Environment Study, Pinellas County Contract 101-0131-NC (AM))*

Dear Mr. Register,

The table below contains fully burdened hourly rates for Adams Traffic, Inc. personnel by standard FDOT labor rate classifications. The rates reflect labor, audited overhead and expense rate, and profit.

Classification	Fully Burdened Hourly Rate
Senior Engineer	\$213.63
Engineering Technician	\$74.61
Secretary/Clerical	\$63.69

Please let me know if you need any additional information to support these submitted rates.

Sincerely,



Nancy D. Adams, P.E.  
President  
Adams Traffic, Inc.



# 9.

Scope of Services:

PD&E



**SCOPE OF SERVICES**

**PROFESSIONAL SERVICES AGREEMENT  
ENGINEERING CONSULTING SERVICES**

**PROJECT DEVELOPMENT AND ENVIRONMENT (PD&E) STUDY  
FOR  
REHABILITATION OR REPLACEMENT OF SAN MARTIN BLVD.  
BRIDGE OVER RIVIERA BAY**

**County PID: 001036A**

**Prepared for:**

**Pinellas County  
Engineering & Technical Support Division  
14 S. Fort Harrison Avenue  
Clearwater, FL 33756**

**Prepared by:**

**HDR Engineering, Inc.  
5426 Bay Center Drive, Suite 400  
Tampa, FL 33609-3444**

**October 27, 2014**



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## **SCOPE OF SERVICES FOR CONSULTING ENGINEERING SERVICES**

This Exhibit forms an integral part of the agreement between Pinellas County (hereinafter referred to as the COUNTY) and HDR Engineering, Inc. (hereinafter referred to as the CONSULTANT) relative to the transportation facility described as follows:

### **I. PROJECT TITLE**

Professional Engineering Services for the PD&E Study for the Rehabilitation or Replacement of San Martin Blvd. Bridge (Bridge No. 154371) over Riviera Bay.

### **II. OBJECTIVE**

The purpose of this Exhibit is to describe the scope of work and the responsibilities of the CONSULTANT and the COUNTY in connection with the Preliminary Engineering (Conceptual Design), and Environmental Studies necessary to comply with Florida Department of Transportation (FDOT) procedures and to obtain Federal Highway Administration (FHWA) Location and Design Concept Acceptance (LDCA) of proposed replacement of this structure.

The overall objective is to seek the services for rehabilitation/replacement of the San Martin Blvd. Bridge (Bridge No. 154371) over Riviera Bay. A Project Development and Environmental Study shall be completed by the CONSULTANT and accepted by the COUNTY for this project. The services provided are for the performance of engineering services required for the LDCA "type" of studies and determination of a preferred alternative for the development of final construction plans under a future scope of services as directed by the COUNTY.

Except as noted herein, the Project Development Process shall follow the FDOT's publication titled "Project Development and Environment Manual", published 07/01/88 and all subsequent revisions. Throughout this Scope of Services portion of this CONSULTANT Contract, the publication shall be referred to as the "PD&E Manual". All tasks identified in this scope of work shall be done in accordance with the FDOT's PD&E Manual, unless otherwise stated.

The PD&E Manual incorporates all the requirements of the National Environmental Policy Act (NEPA); Federal law and executive orders; applicable Federal regulations included in the Federal Highway Administration Federal-Aid Policy Guide; and applicable State laws and regulations including Chapter 339.155 of the Florida Statutes. The project documentation prepared by the CONSULTANT in accordance with the PD&E Manual shall therefore be in compliance with all applicable State and Federal laws, executive orders, and regulations.

The CONSULTANT shall perform those engineering services required for LDCA studies, including consideration of all social, economic, environmental effects, and mitigation as required by the FHWA as well as other federal and state agencies and/or the Project Development and Environment (PD&E)

Manual, along with the required environmental documents, engineering reports, preliminary plans, public involvement, and right-of-way maps.

Sections I through IV of the Scope of Services shall establish which items of work described in the PD&E Manual are specifically included in this contract, and also which of the items of work shall be the responsibility of the CONSULTANT or the COUNTY.

The COUNTY shall provide contract administration and provide management services and technical reviews of all work associated with the development and preparation of the engineering/environmental study reports for the transportation facility.

### **III. PROJECT DESCRIPTION**

The overall intent of the San Martin Blvd. Bridge (Bridge No. 154371) over Riviera Bay PD&E project is to evaluate alternatives for the rehabilitation or replacement of the San Martin Blvd. Bridge over Riviera Bay. Three general alternatives shall be evaluated as follows:

- No-Build – Maintain Existing Fixed Span Bridge through Rehabilitation
- Replace the bridge with a new Movable Span (Bascule) Bridge
- Replace with a new Fixed Span Bridge

Alternate corridors for the bridge location shall not be evaluated due to the extent of development in the vicinity of the existing bridge. Capacity improvements shall not be considered. The project limits extend along San Martin Blvd. From Tallahassee Drive to Weedon/Ridgeway Drive in Pinellas County.

### **IV. SCOPE OF WORK**

#### **STUDY REQUIREMENTS AND PROVISIONS FOR WORK**

##### **Governing Regulations**

The services performed by the CONSULTANT shall be in compliance with the applicable Manuals and Guidelines. The FDOT'S Manuals and Guidelines incorporate by requirement or reference all applicable State and Federal regulations. The current edition, including updates, of the following FDOT Manuals and Guidelines shall be used in the performance of this work. It is understood that AASHTO criteria shall apply as incipient policy.

- Florida Statutes
- Florida Administrative Codes
- Applicable federal regulations and technical advisories.
- Project Development and Environment Manual
- Public Involvement Handbook
- Pinellas County AutoCAD Civil 3D Kit
- FDOT Roadway Traffic and Design Standards

- Bicycle Facilities Planning and Design Manual
- Right-of-Way Mapping Handbook
- Location Survey Manual
- EFB User Guide
- Drainage Manual
- Outline Specifications - Aerial Surveys/Photogrammetry
- Soils and Foundations Manual
- Structures Manual
- Applicable Tampa Port Authority Criteria
- Applicable U.S. Coast Guard Criteria

### **Liaison Office**

The COUNTY shall designate a Liaison Office and a Project Manager who shall be the representative of the COUNTY for the Project. While it is expected the CONSULTANT shall seek and receive advice from various State, regional, and local agencies, the final direction on all matters of this Project remain with the COUNTY.

### **Key Personnel**

The CONSULTANT'S work shall be performed and directed by the key personnel identified in the proposal presentations by the CONSULTANT. Any changes in the indicated personnel shall be subject to review and approval by the COUNTY.

### **Meetings and Presentations**

The CONSULTANT shall attend a Notice to Proceed Meeting with COUNTY representatives, where relevant project information shall be provided by the COUNTY, along with procedures for administering the contract. The CONSULTANT and his staff shall also be available with no more than a five (5) workday notice to attend meetings or make presentations at the request of the COUNTY. Such meetings and presentations may be held at any hour between 8:00 A.M. and 12:00 midnight on any day of the week. The CONSULTANT may be called upon to provide maps, press releases, advertisements, audiovisual displays and similar material for such meetings.

### **Quality Control**

The CONSULTANT shall be responsible for submitting work products that conform to applicable standards and criteria. This shall be accomplished through an internal Quality Control (QC) process performed by the CONSULTANT. This QC process shall achieve quality through checking, reviewing, and surveillance of work activities by objective and qualified individuals who were not directly responsible for performing the initial work.

Prior to submittal of the first invoice, the CONSULTANT shall submit to the COUNTY'S Project Manager for approval the proposed method or process of providing Quality Control for all work products.

The Quality Control Plan shall identify the products to be reviewed, the personnel who perform the reviews, and the method of documentation.

### **Correspondence**

Copies of all written correspondence between the CONSULTANT and any party pertaining specifically to this study shall be provided to the COUNTY for their records within one (1) week of the receipt of said correspondence.

### **Submittals**

The CONSULTANT shall provide copies of the required documents as listed below. These are the anticipated printing requirements for the project. This tabulation shall be used for estimating purposes, and the Project Manager shall determine the number of copies required prior to each submittal. In addition to hard copies, all reports shall be submitted on a CD in pdf format.

#### Engineering Items:

#### Copies:

First Draft Project Development Summary Report	<i>5 draft, 5 final</i>
Draft Final Project Development Summary Report	<i>5 draft, 10 final</i>
Final Project Development Summary Report (Signed & Sealed)	<i>10</i>
Drainage Technical Memorandum	<i>5 draft, 5 final</i>
Conceptual Design Plan Set	<i>5 draft, 5 final</i>
Geotechnical Technical Memorandum	<i>5 draft, 5 final</i>

#### Environmental Items:

Public Involvement Plan	<i>5 draft, 5 final</i>
Type 1 and Programmatic Categorical Exclusion Checklist	<i>5 draft, 5 final</i>
Noise Study Technical Memorandum	<i>5 draft, 5 final</i>
Air Quality Technical Memorandum	<i>5 draft, 5 final</i>
Contamination Screening Evaluation Tech Memo	<i>5 draft, 5 final</i>
Conceptual Stage Relocation Plan	<i>5 draft, 5 final</i>
Public Hearing Transcript	<i>5 draft, 5 final</i>
Biological Assessment Technical Memorandum	<i>5 draft, 5 final</i>
Wetlands Evaluation/Essential Fish Habitat Technical Memorandum	<i>5 draft, 5 final</i>
Section 106 Determination of Eligibility	<i>5 draft, 5 final</i>
Cultural Resource Assessment Survey Report	<i>5 draft, 5 final</i>
Comments and Coordination Report	<i>3 draft, 3 final</i>

#### NEPA:

<b>Assemble documents into NEPA Report Format</b>	<b><i>5 draft, 5 final</i></b>
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***The Following Items Apply only if required and are considered "Optional Services"***

<i>Summary of Environmental Impacts Checklist for Type 2 CE's</i>	<i>5 draft, 5 final</i>
<i>Section 4(f) Evaluations</i>	<i>5 draft, 5 final</i>
<i>Public Hearing Transcript</i>	<i>5 draft, 5 final</i>
<i>Public Involvement Scrapbook</i>	<i>5 draft, 5 final</i>
<i>Section 106 Case Study Report</i>	<i>5 draft, 5 final</i>
<i>(Section 106) Memorandum of Agreement (MOA)</i>	<i>5 draft, 5 final</i>

Upon completion of the study, the CONSULTANT shall deliver to the COUNTY, in an organized manner, all project files, maps, sketches, worksheets, and other materials used or generated during the study process in the specified digital electronic file format.

### **Computer Automation**

The project shall be developed utilizing Computer Aided Drafting and Design (CADD) systems. The CONSULTANT shall produce and deliver applicable plan drawings using the COUNTY latest AutoCAD Civil 3D Kit version.

All computer disks shall be scanned for viruses prior to submitting to the COUNTY. Failure to scan for viruses may result in a lower Consultant work performance evaluation.

### **Coordination with Other Consultants and Entities**

The CONSULTANT is to coordinate their work with any ongoing and/or planned projects that may affect this study.

The CONSULTANT is to coordinate with local governmental entities to verify that design and right of way requirements for the project are compatible with local public works improvements and right of way activities.

## **ENGINEERING ANALYSIS AND REPORTS**

The CONSULTANT shall coordinate and perform the appropriate level of engineering analysis for this project as outlined in Part 1, Chapter 9 of the PD&E Manual and the appropriate sections.

### **Task 1 DATA COLLECTION**

The CONSULTANT shall immediately begin preliminary assessments of the study corridor from an engineering standpoint. This task is largely of a data gathering nature. This activity consists of collecting various information and materials relative to the performance of engineering analyses within the study area. The information should include all data necessary to perform adequate evaluation of the location and design of the transportation facility (as defined by the project limits in the project description).

- a. Field Review: The CONSULTANT shall conduct all anticipated field trips needed to collect engineering data.

- b. Aerial Photography: Aerial Photography shall be used as a basis for plotting various data necessary for both engineering and environmental analysis, alternative corridor and design studies, and the development of the preliminary plans of conceptual design. Copies of aerial photography are the prime source of information used to convey project considerations to the public at public meetings.

The CONSULTANT shall furnish the necessary aerial photography to be used in the study. Aerial photography shall be prepared for the following uses at the noted ratios:

Overall Project Location Map	1"=1000'
Master Plan	1"=100'
Alternative Plans	1"= 20'

- c. Survey Coordination: This task is for the CONSULTANT to coordinate with the COUNTY Survey Division regarding project requirements, review of survey data, and scheduling.
- d. Existing Roadway Characteristics: The CONSULTANT shall document the existing roadway characteristics.
- e. Existing Structure Characteristics: The CONSULTANT shall document the existing structures' characteristics.
- f. Traffic Data: The most recent traffic counts available from the COUNTY and/or FDOT shall initially be gathered and reviewed. Based upon the review, traffic data shall be collected at those locations where there are no traffic counts available that are less than one (1) year old. Daily counts shall be conducted for up to seventy-two (72) hours and peak hour turning movement counts shall be conducted from 7:00 to 9:00 a.m. and from 4:00 to 6:00 p.m. The traffic count locations are listed as follows:

72 hour bi-directional approach counts:

- 4<sup>th</sup> Street North/83<sup>rd</sup> Avenue North intersection (4 locations)
- 4<sup>th</sup> Street North/Gandy Boulevard (4 locations)
- Gandy Boulevard/San Martin Boulevard (3 locations)
- San Martin Boulevard Bridge over Riviera Bay

4 hour AM and PM turning movement counts:

- 4<sup>th</sup> Street North/83<sup>rd</sup> Avenue North intersection
- 4<sup>th</sup> Street North/Gandy Boulevard
- Gandy Boulevard/San Martin Boulevard
- San Martin Boulevard/Tallahassee Drive

- San Martin Boulevard/Weedon Drive-Ridgeway Drive

In addition, the CONSULTANT shall perform a travel time study for a 2-hour period during the AM and PM hours for a consecutive three-day timeframe. The travel time study shall document operating speeds and travel times assuming current operating conditions, and for a scenario that involves the detour of traffic through the 4<sup>th</sup> Street North / Gandy Boulevard intersection if the San Martin Boulevard Bridge over Riviera Bay was temporarily closed to traffic.

The CONSULTANT shall collect bicycle and pedestrian counts at the bridge locations for two 6 hour periods over weekends to identify recreational traffic levels.

- g. Crash Data: The COUNTY shall provide the CONSULTANT with five (5) years of crash data. The data shall include the number and type of accidents, accident locations, number of fatalities and injuries, and estimates of property damage and economic loss.
- h. The CONSULTANT shall use COUNTY'S Tax Map GIS information as a basis for plotting various right-of-way data for engineering and environment analysis, alternatives and design studies, and the development of the preliminary conceptual design plans.
- i. Utilities: The CONSULTANT shall evaluate potential impacts to utilities within the project limits in accordance with Part 2, Chapter 10 of the PD&E Manual.
- j. Transportation Plans: The CONSULTANT shall obtain plans for all modes of transportation including surface, transit and non-motorized modes.
- k. Soils: The CONSULTANT shall review the United States Department of Agriculture, Geological Survey, Soil Conservation Service Maps and summarize the findings. The geotechnical study will consist of an evaluation of existing technical reports previously performed for the San Martin Boulevard Bridge over Riviera Bay Bridge. The CONSULTANT will perform one additional test boring at the location of the bridge to support the PD&E Study. The CONSULTANT will make recommendations during the PD&E Phase for any additional soil borings that may be necessary to adequately determine foundation needs for the proposed structure. These borings will not be performed during the PD&E Phase but will be performed in the Final Design Phase (unless contingency funds are available during PD&E). The evaluation will consist of preliminary recommendations for deep foundations for the bridge and soil suitability for roadway embankment, bridge embankment, drainage facilities and ponds. The geotechnical engineer will make a field reconnaissance of the site to observe the existing structures and land/water features. A report will be provided that includes a summary of the available data and preliminary recommendations. Potential construction impacts from vibrations and sound will also be provided



1. Base Map: The CONSULTANT shall develop a CADD database that includes existing characteristics. CADD data base information shall be compatible for use on aerial photography used for public hearing presentations, and alternative plans.

Scale: 1"=20'

- m. Safety: The CONSULTANT shall identify needs associated with the safety of the existing facility within the project limits.
- n. Analysis of Existing Conditions: The CONSULTANT shall analyze the existing conditions in order to identify any deficiencies that are to be identified in the Needs Section.
- o. Purpose and Needs Statement: The CONSULTANT shall establish and/or verify the purpose and need for the rehabilitation or replacement of the existing bridge as outlined in Part 2, Chapter 5 of the PD&E Manual.

## **Task 2: DESIGN ANALYSIS**

Utilizing the data collected as part of this scope of work, the CONSULTANT shall perform the engineering analysis necessary to complete the project development process. The task of engineering analysis shall be ongoing throughout the duration of the project and shall be performed with consideration to the results of the environmental impacts analysis.

The CONSULTANT shall develop and evaluate all viable alternatives in order to address the project needs.

- a. Traffic Analysis: The CONSULTANT shall use the latest available version of the Tampa Bay Regional Planning Model (TBRPM) to develop future year daily traffic projections. The TBRPM is based on the Florida Standard Urban Transportation Modeling Structure (FSUTMS) and is recognized by both FDOT District Seven, as well as the Tampa Bay Area Metropolitan Planning Organizations (MPOs) as the accepted travel demand forecasting tool. The TBRPM validation year is 2006 and also includes the cost feasible network and socioeconomic (SE) data sets for the years 2025 and 2035. A subarea model validation shall be employed to refine the TBPRM generated traffic volumes. For modeling purposes of this project, the "Build" alternative shall assume that the bridge is either maintained or replaced.

The SE data for the Opening Year (2018) shall be developed from the linear interpolation of the SE data sets from the 2006 and 2035 models while the SE data for the Design Year (2038) shall be developed by extrapolation of the 2035 data to 2038.

The CONSULTANT shall run the model to obtain an estimate of the future year Peak Season Weekday Average Daily Traffic (PSWADT) volumes that would be expected to be present on the study roadway network in Opening Year (2018) and the Design Year (2038). The CONSULTANT shall convert the PSWADT volumes to Average Annual Daily Traffic (AADT) volumes using the appropriate Model Conversion Factor (MOCF). The AADT volumes shall be multiplied by an annual growth factor to determine the 2038 Design Year volumes. All AADT volumes shall be checked for reasonableness by reviewing the resulting traffic growth rates on a link-by-link basis. Manual adjustments to the traffic assignments and traffic projections may be necessary and shall be properly documented and coordinated with the COUNTY.

The CONSULTANT shall develop a.m. and p.m. peak hour volumes for the Opening Year (2018) and Design Year (2038) using the applicable traffic factors obtained from the traffic counts.

The design traffic shall be prepared in accordance with the Design Traffic Procedure (#525-030-120).

The CONSULTANT shall summarize in graphical and tabular format the AADT, a.m., and p.m. peak hour volumes developed in the Design Traffic Technical Memorandum.

Traffic Operational Analysis: The CONSULTANT shall conduct an analysis of the existing traffic conditions within the study area to provide an existing operational baseline.

The CONSULTANT shall perform intersection and arterial capacity analyses for the Opening Year (2018) and Design Year (2038). Alternatives shall include assessment of potential impacts to those facilities located adjacent to the bridge corridor that may be used in the event of bridge construction (i.e. Maintenance of Traffic conditions) and during permanent removal of the structure.

All traffic analyses shall be conducted using either the Highway Capacity Manual (with the associated Highway Capacity Software) or Synchro Version 7 and shall include major signalized and unsignalized intersections and roadway segments in the study area.

The CONSULTANT shall summarize in graphical and/or tabular format the levels of service and/or delays resulting from all analyses in the Design Traffic Technical Memorandum.

Traffic Detour Analysis: The CONSULTANT shall perform traffic analyses for any proposed detour routes. Consideration shall be given to feasibility of the alternative corridors, length of the detour, effect on travel time and delay, and emergency vehicles access and response time. The volumes used in the analyses shall be obtained from the “No-Build” alternative design traffic. It is anticipated that, at a minimum, the following roadway facilities and intersections shall be analyzed as potential detour routes around the San Martin Blvd./Riviera Bay crossing:

- 83rd Ave. from Tallahassee Drive to 4th St.
- San Martin Blvd. from Weedon Drive/Ridgeway Drive to Gandy Blvd.
- 4th St. from 83rd Ave. to Gandy Blvd.
- Gandy Blvd. from 4th St. to San Martin Blvd.

The CONSULTANT shall coordinate with the FDOT regarding a potential temporary signal being placed at the San Martin Blvd. and Gandy Blvd. intersection to facilitate detour traffic from San Martin Blvd. during construction.

Design Traffic Memo: The CONSULTANT shall prepare a Design Traffic Technical Memorandum. This memorandum shall document traffic volumes and existing traffic operations for existing conditions, the methodology used in developing the traffic demand, the design traffic volumes for Opening (2018) and Design (2038) years, and the results of the traffic operational analyses for the Opening (2018) and Design (2038) Years. The Opening and Design Year traffic projections shall be used during the study of conceptual design alternatives, determination of the detour route and for the analysis of noise impacts and air quality assessments.

- b. Typical Section Analysis: The CONSULTANT shall develop appropriate typical section alternatives for the project giving consideration to minimizing impacts and providing for the needs of the transportation facility including pedestrians, etc. Typical sections shall be prepared and submitted.
- c. Bridge and Roadway Design Alternatives: The CONSULTANT shall develop three (3) alternatives for the project including No-Build/Rehabilitation of the existing bridge, complete replacement of the existing bridge with a movable span (bascule) bridge, and replacement of the existing bridge with a fixed span bridge. For the replacement option the consultant shall evaluate three horizontal alignments including: 1) maintaining the existing alignment along the centerline of San Martin Blvd., 2) shifting the alignment to the left of the existing centerline and 3) shifting the alignment to the right of the existing centerline. The purpose of shifting the alignments shall be to allow phased construction of the bridge. Two vertical alignment alternatives shall be evaluated including: 1) maintaining the existing vertical

- profile and 2) raising the profile to the fullest extent possible without adversely impacting adjacent sidestreet connections at Tallahassee Drive and Weedon Drive-Ridgeway Drive.
- d. Prepare Alternative Concept Plans: The CONSULTANT shall overlay Concept Plans on the base maps. At a minimum, the concept plans should include the horizontal and vertical alignments, the intersection turn lane requirements and access for adjacent development.
  - e. Drainage Analysis: The CONSULTANT shall perform preliminary drainage design in order to determine potential outfall locations and preliminary sizes (volume and area) of required detention and/or retention facilities for storm water treatment or attenuation. The location and size of potential detention/retention areas shall be determined for all viable alternatives. A pre-application meeting with the Southwest Florida Water Management District is required to identify the project stormwater management needs. The CONSULTANT shall notify County staff of the pre-application meeting with adequate advance notice for staff to attend the meeting. The CONSULTANT shall prepare a "Conceptual Drainage Design/Pond Siting Report" for the project in accordance to the FDOT's Stormwater Facilities Handbook and the COUNTY'S Pond Design Criteria. A maximum of three (3) alternative pond locations shall be identified to meet permitting requirements, if required. In accordance with Part 2, Chapter 24 of the PD&E Manual, the CONSULTANT shall prepare a Location Hydraulics Report (LHR). The LHR shall include preliminary wave height determination for the establishment of the bridge minimum low member elevation that does not require compliance with AASHTO's Guide Specifications for Bridges Vulnerable to Coastal Storms. The CONSULTANT will consider potential future sea-level rise in the design of the proposed bridges. The County will provide the value for sea-level rise projection.
  - f. Structures Analysis: The CONSULTANT shall evaluate conceptual structures including economical structure types and vertical and horizontal alignments. The CONSULTANT shall give consideration to the constructability of the proposed bridge and transport of its parts and components. Consideration shall also be given to the method of demolishing the existing structure. The CONSULTANT shall evaluate implementation of one (1) movable bridge option and provide a Life Cycle Cost Analysis for the movable bridge to support the COUNTY's evaluation of the option.
  - g. Access Management: The CONSULTANT shall develop access to all adjacent properties as part of the alternatives development.
  - h. Multi-Modal Accommodations: The CONSULTANT shall incorporate pedestrian and bicycle facilities in the development and evaluation of alternatives. All pedestrian facilities shall comply with the American with Disabilities Act.
  - i. Maintenance of Traffic Analysis: The CONSULTANT shall analyze the design alternatives for constructability, and the ability to maintain traffic. If the analysis indicates that there shall be a substantial cost to maintain traffic, this cost shall be included in the final estimate for that alternative. The CONSULTANT shall evaluate the traffic impacts of providing a detour around the San Martin Blvd. Bridge over Riviera Bay.

- j. Geotechnical Coordination: This task is for the CONSULTANT to coordinate with the geotechnical sub consultant regarding project requirements, review of geotechnical data, and scheduling.
- k. Utilities: Based on the coordination with the utility companies along the project the CONSULTANT shall prepare a Utility Assessment Package as described in Part 2, Chapter 10 of the PD&E Manual.
- l. ADA Features: The CONSULTANT shall analyze and design the intersection improvements to be constructed in a manner that shall comply with the accessibility standards and requirements set forth in the **Americans with Disability Act of 1990 (ADA)**.

**Task 3: COMPARATIVE ANALYSIS OF ALTERNATIVES**

The CONSULTANT is to study the rehabilitation or replacement of the San Martin Blvd. Bridge over Riviera Bay in Pinellas County, Florida. Three (3) alternatives shall be evaluated:

- No-Build - Maintain Existing Fixed Span Bridge
- Replace with a new Movable Span (Bascule) Bridge
- Replace with a new Fixed Span Bridge

Alternate corridors for bridge location shall not be required to be evaluated due to the extent of development in the vicinity of the existing bridge. Capacity improvements shall not be considered. The project limits extend along San Martin Blvd. from Tallahassee Drive to Weedon/Ridgeway Drive in Pinellas County.

The COUNTY shall determine which viable alternative(s) shall be evaluated further through the public involvement process and environmental analysis. The possibility exists that the No-Build alternate may be selected at this point.

- a. Comparative Analysis and Evaluation Matrix: After developing the viable alternatives and costs, the CONSULTANT shall prepare a matrix comparing the impacts and costs of the alternatives evaluated, with a recommendation of the most viable alternative(s). The CONSULTANT shall present their recommendations to the COUNTY for consideration. Purpose and Need Statement: The CONSULTANT shall update and verify the purpose and need for the project.
- b. Selection of Preferred Alternative(s): The CONSULTANT shall recommend a preferred alternative(s) based on a review and analysis of all engineering, environmental, and public involvement issues related to the project.

- c. Conceptual Design Plans: The CONSULTANT shall finalize concept plans for the preferred alternative that include refinements from the COUNTY review and feedback.
- d. Construction Cost Opinions: The CONSULTANT shall develop preliminary opinion of probable construction cost and update for design alternatives.
- e. Right of Way Cost Opinions: As an Optional Service the CONSULTANT shall assist the COUNTY to prepare estimates for right of way acquisition and cost estimates for relocation and business damages if required.
- f. Typical Sections and Design Criteria: The CONSULTANT shall prepare a design criteria memorandum including the typical sections for review and approval by the COUNTY.
- g. Design Exceptions and Variations: The CONSULTANT shall identify design exception and variances for each alternative.
- h. Project Development Summary Report: The CONSULTANT shall prepare a Project Development Summary Report (PDSR) in accordance with Part 1, Chapter 4 of the PD&E Manual.

#### **Task 4: ENVIRONMENTAL ANALYSIS**

The CONSULTANT shall coordinate and perform the appropriate level of environmental analysis for this project as outlined in the PD&E Manual and the following references.

As an Optional Service, the CONSULTANT shall assist the COUNTY in developing and completing a Programming Screen Summary Report based on the use of the Environmental Screening Tool (EST) which is available at <http://www.dot.state.fl.us/emo>. Other appropriate databases may also be used to assist in this effort. Data base information shall be compatible for use on base maps used for public presentations, corridor maps, and alternative plans.

The level of effort for the following work activities shall be commensurate with the level of impact identified in the final Project Summary Report. If the Summary Degree Of Effect from the Final Project Summary Report is "No Involvement", or "None", for an activity, the activity shall be marked N/A in the Scope of Services.

***Sociocultural Effects.*** The CONSULTANT shall collect data regarding the following Sociocultural issues. Pertinent data shall be collected, analyzed and summarized in the appropriate section of the Project Development Summary Report (PDSR). Pertinent data shall also be displayed on the base map, as applicable. These issues shall be analyzed in accordance with Part 2, Chapter 9 of the PD&E Manual and the Sociocultural Effects Evaluation Handbook (available at <http://www.dot.state.fl.us/emo>).

- a. **Land Use Changes.** Issues identified as needing further study include:

- Plan Consistency: consistency with comprehensive plans, growth management plans and policies, future land use plans, proposed developments and Developments of Regional Impact (DRIs).
  - Land Patterns: land uses with aesthetic, recreational, or community use values, open space, potential for sprawl, and the character of the neighborhoods.
- b. **Social.** Issues identified as needing further study include:
- Community Cohesion: identification of physical barriers, traffic pattern changes, social pattern changes, and loss of connectivity to community features and facilities
  - Community Facilities and Focal Points: Schools, churches, parks, emergency facilities, social services, day care facilities, retirement centers, community centers, and retail locations.
  - Safety/Emergency Response: creation of isolated areas, emergency response time changes, location of police, fire, emergency medical services, healthcare facilities, and government offices.
  - Title VI: Location of any Title VI involvement, minority displacement, special populations
- c. **Economic.** Issues identified as needing further study include:
- Commerce: business and/or business district access, visibility, traffic patterns, and parking issues. Input from business interests along the corridor.
- d. **Mobility.** Issues identified as needing further study include:
- Accessibility: transit facilities, intermodal connectivity, transportation disadvantaged access, bicycle and pedestrian issues, walkability, emergency response and evacuation routes, and safety.
- e. **Aesthetics.** In accordance with Part 2, Chapter 15 of the PD&E Manual, the following issues shall be addressed:
- Aesthetics: noise/vibration sensitive sites, view shed, project aesthetics, community character and aesthetic values, landscaping
- f. **Relocation Potential.** Issues identified as needing further study include:
- Displacements: unique facilities, community focal points and
  - Conceptual Stage Relocation Plan: It is not anticipated that any relocations shall result from any viable alternatives. Accordingly, a Conceptual Stage Relocation Plan shall not be prepared for this project.
- g. **Archaeological and Historical Sites.**

The CONSULTANT shall collect data necessary to completely analyze the impacts to all cultural and historic resources by all proposed alternatives and prepare a Cultural Resource Assessment Survey Report as described in Part 2, Chapter 12, of the PD&E Manual. Concurrence with the findings of the report shall be obtained from Florida State Historic Preservation Officer (SHPO).

**Field Work:** The CONSULTANT shall identify any archaeological sites within the project area of potential effect (APE), both previously recorded and newly identified, and excavate the appropriate number of shovel tests. The CONSULTANT shall identify any historic resources (50 years of age or older) within the project APE. A Florida Master Site File (FMSF) form shall be prepared for all surveyed archaeological sites and historic resources, and enough data shall be collected to document the significance of each in terms of eligibility for listing in the National Register of Historic Places (NRHP). All work shall be conducted by a cultural resource professional qualified under the provisions of 36 CFR 61, and be done in compliance with the National Historic Preservation Act of 1966 (Public Law 89-665, as amended) and the implementing regulations (36 CFR 800) as well as with the provisions contained in Chapter 267, Florida Statutes.

**Documentation:** The CRAS shall be prepared with appropriate documentation detailing the results of the survey and the final assessments of resource significance, and including a FMSF form for all identified resources.

If the bridge is determined to be eligible for listing in the NRHP, and an alternative is selected which involves removal or rehabilitation of the existing bridge, the following documents may be required. Proceeding with preparation of these documents shall require authorization from the COUNTY as an Optional Service.

- Section 106 Case Study shall be prepared to document adverse impacts to the historic resource.
- If the San Martin Bridge is determined by SHPO to be NRHP eligible and if SHPO determines that adverse effects shall occur as a result of removal or rehabilitation of the San Martin Bridge, the process required by Section 106 of the National Historic Preservation Act shall be followed to address eligibility, effects and mitigation options. This process shall include the following:
  - If Mitigation is required, a Memorandum of Agreement among the COUNTY, SHPO, USCG and the Federal Transit Administration shall be prepared.



**h. Section 4(f).**

A Section 4(f) Determination of Applicability (DOA) is not anticipated for this project even though the Pinellas County Aquatic Preserve Management Plan states that its significant purposes include a waterfowl and wildlife refuge function and/or a recreation function. FHWA concurred that there was no Section 4(f) involvement on a recent similar project crossing the Pinellas County Aquatic Preserve. Accordingly, it is anticipated that a Section 4(f) DOA shall not be required. If required the Section 4(f) DOA shall be prepared as an "Optional Service".

The CONSULTANT shall prepare a justification for this position to facilitate resolution of this issue with FHWA.

If the San Martin Bridge is determined to be eligible for listing in the NRHP, preparation of a Section 4(f) Evaluation shall be required by the FHWA. It is anticipated that the project shall qualify for a Programmatic Section 4(f) Evaluation. The CONSULTANT shall prepare the Section 4(f) Evaluation in accordance with the FDOT PD&E Manual. This task is considered an "Optional Service".

**i. Wetlands and Essential Fish Habitat.**

**Data Collection – Wetlands**

The CONSULTANT shall collect and review available data pertaining to wetlands in the project area in accordance with Part 2, Chapter 18 of the PD&E Manual. The analysis and results shall be documented in a combined Wetlands Evaluation/Essential Fish Habitat (EFH) Technical Memorandum. This technical memorandum shall be coordinated with resource and regulatory agencies for their input and concurrence.

A Submerged Aquatic Vegetation (SAV) survey shall be conducted to identify potential seagrass in the bridge vicinity.

Wetland jurisdictional boundaries shall be flagged in the field by the CONSULTANT and survey data shall be collected by the COUNTY. Areas of seagrass, if applicable, shall be located with hand held GPS units by the CONSULTANT.

**Data Collection – Essential Fish Habitat**

The CONSULTANT shall conduct an EFH Assessment and coordinate the assessment with the National Marine Fisheries Service in accordance with Part 2, Chapter 11 of the PD&E Manual.

The analysis and results shall be documented in a combined Wetlands Evaluation/ EFH Technical Memorandum.

#### **Conceptual Mitigation Plans**

The CONSULTANT shall identify possible conceptual mitigation plans if required in accordance with Part 2, Chapter 18 of the PD&E Manual. Detailed mitigation plans shall not be prepared as part of this contract.

#### **Analysis & Report – Wetlands/Essential Fish Habitat**

In accordance with Part 2 Chapter 18 of the PD&E Manual. The CONSULTANT shall prepare a combined Wetlands and Essential Fish Habitat Technical Memorandum.

j. **Water Quality**

In accordance with Part 2, Chapter 20 of the PD&E Manual, a Water Quality Impact Evaluation shall be prepared.

k. **Special Designations**

Potential for impacts to special Designations identified for this project shall be evaluated in accordance with Part 2, Chapters 19, 21, and 23, of the PD&E Manual, respectively. Special Designations within the project corridor include:

*Outstanding Florida Waters, Wild and Scenic Rivers, and Aquatic Preserves*

l. **Wildlife and Habitat**

The CONSULTANT shall evaluate the potential for impact to listed wildlife species in accordance with Part 2, Chapter 27 of the PD&E Manual. The analysis and results shall be documented in a Biological Assessment Technical Memorandum. This technical memorandum shall be coordinated with resource and regulatory agencies for their input and concurrence.

m. **Identify Permit Conditions** The CONSULTANT shall identify permit conditions, and type of permits required. This task includes the review of maps and data in order to determine permit related information for the project.

n. **Farmlands - N/A**

## **Physical Impacts**

- o. **Noise.** Alternatives that shall result in a “substantial vertical or horizontal alteration” as defined by Part 2, Chapter 17, Section 17-2 (updated May 25, 2011) of the PD&E Manual shall be evaluated for this study. Accordingly, the project is considered Type 1 and a noise study is required. The CONSULTANT shall conduct a Noise Study and prepare a Noise Study Memorandum in accordance with Part 2, Chapter 17 of the PD&E Manual.
- p. **Air Quality.** In accordance with Part 2, Chapter 16 of the PD&E Manual.
- q. **Construction Impact Analysis.** In accordance with Part 2, Chapter 30 of the PD&E Manual.
- r. **Contamination.** The CONSULTANT shall perform the necessary analysis to complete the Contamination Screening Evaluation for all proposed alternatives as described in Part 2, Chapter 22, of the PD&E Manual. The analysis and results shall be documented in a Contamination Screening Evaluation Technical Memorandum.

National Emissions Standards for Hazardous Air Pollutants (NESHAP) Asbestos and Protective Coatings Survey Report: The CONSULTANT shall perform an asbestos assessment on the bridge structure using the services of a licensed asbestos consultant (LAC) in accordance with FDOT Directive 625-020-020-c, dated July 21, 2009. The structure shall also be evaluated for Class V coatings including Lead Based Paint (LBP).

## **Task 5: ENVIRONMENTAL REPORTS**

The Environmental Documents prepared by the CONSULTANT shall comply with the procedures listed in the PD&E Manual, Part 1, and shall also follow the format and include content described in Part 2 of the PD&E Manual. The task of documentation includes the preparation of draft and interim reports prepared by the CONSULTANT for review and comment by the COUNTY prior to producing final reports and documents.

- a. **Class of Action Determination.**

The CONSULTANT shall explore and determine whether this class of action can be determined to qualify as a Minor Categorical Exclusion (MiCE) if so, then determine the impact on the project alternatives.

- b. **Environmental Assessment – N/A**

- c. **Finding of No Significant Impact – N/A**
- d. **Draft Environmental Impact Statement – N/A**
- e. **Final Environmental Impact Statement – N/A**

**Task 6: PUBLIC INVOLVEMENT**

Public involvement includes communicating to and receiving information from all interested persons, groups, and government organizations information regarding the development of the project. The CONSULTANT shall coordinate and perform the appropriate level of public involvement for this project as outlined in Part I, Chapter 11 of the PD&E Manual and the following sections.

The CONSULTANT shall provide to the COUNTY drafts of all Public Involvement collateral (i.e., newsletters, property owner letters, advertisements, etc.) associated with the following tasks for review and approval at least five (5) business days prior to printing and / or distribution.

**a. Public Involvement Program**

The CONSULTANT shall prepare a public involvement program early in the project and obtain concurrence from the COUNTY prior to implementing the plan.

**b. Public Involvement Data Collection**

The CONSULTANT shall obtain names and addresses for property owners for the area identified to be included in the mailing list from the County Property Appraiser's Office. The Consultant shall prepare and maintain a mailing list of elected and appointed officials, interested citizens, special interest groups, homeowner associations, local media etc. This list shall be used for mailing of newsletters/meeting invitations to the public.

In addition the CONSULTANT shall assist the COUNTY in preparing responses to any public inquiries as a result of the public involvement process.

- c. **Notice of Intent – N/A**
- d. **Advance Notification (AN) – N/A**
- e. **Scheduled Public Meetings**

The CONSULTANT shall provide all support necessary for the COUNTY to hold or participate in various public meetings, which may include but not limited to:

- Elected Officials/Agency Kick-off Meeting – This meeting shall be held at a Pinellas County Board of County Commissioners Meeting. Agency representatives shall be notified of the meeting and invited to attend. The meeting shall consist of a brief presentation to introduce the project, discuss the project need, alternatives to be considered and opportunities for public and local government input.
- Alternatives Public Meeting (only one anticipated and included in project fee.)

A multi-media presentation (Powerpoint) shall be prepared for the Alternatives Public Meeting. This presentation shall address alternative concepts under consideration. The presentation shall be narrated and recorded on a DVD. Computer models for the alternatives considered shall be prepared. The models shall be included in the Powerpoint presentation, displayed in board format and in an interactive format. In addition, the CONSULTANT shall prepare and/or provide:

- Agenda for presentation
- Handouts
- Graphics for presentation
- Script for multi-media presentation
- Meeting equipment set-up and tear-down
- Legal and/or display advertisements. (The COUNTY shall pay the cost of publishing.)
- Letters for notification of elected and appointed officials, property owners and other interested parties. The CONSULTANT shall prepare the letters, insert them in envelopes, and address the envelopes. The CONSULTANT shall pay for first class postage for notification letters
- News releases, for use three (3) to five (5) days prior to meeting
- Summary notes of meetings to be provided to the COUNTY no later than five (5) business days after the meeting
- Briefing and debriefing of COUNTY staff

The CONSULTANT shall investigate potential meeting sites to advise the COUNTY on their suitability. The COUNTY shall pay all costs for meeting site rents and insurance.

The CONSULTANT shall attend the meetings with an appropriate number of personnel to assist the COUNTY'S Project Manager.

**f. Other (Unscheduled) Public and Agency Meetings**

In addition to scheduled public meetings the CONSULTANT may be required to participate in unscheduled meetings with the public, elected officials, or public agencies. The

CONSULTANT'S participation shall be limited to participation during the meeting, note taking, and summarizing the meeting in a memo to the file. It is estimated for this project there shall be ten (10) meetings during the study held at appropriate milestones as directed by the COUNTY. Meetings anticipated are as follows:

- a. City Commission (2)
- b. BCC (3)
- c. MPO Board (2)
- d. MPO Pedestrian and Bicycle Advisory Committee (PBAC) (1)
- e. MPO Technical Coordinating Committee (TCC) (1)
- f. MPO Citizens Advisory Committee (CAC) (1)
- g. Other Stakeholder Group (Four included as an Optional Service to be utilized with written authorization from the COUNTY.)

**g. Public Hearing (Optional Service)**

The CONSULTANT shall provide all the support services listed in Sections 1.2 and 1.5 above, and in addition shall prepare:

- All elements of the multi-media presentation which shall consist of a PowerPoint presentation describing the alternatives developed and evaluated during the process as well as impacts of the Preferred Alternative and all other required information as specified in the FDOT PD&E manual. The presentation shall include the 3-D renderings and video animation described in Section 1.9 Special Public Involvement Requirements below.
- Prepare script for multi-media presentation.
- Prepare script for COUNTY'S Formal Public Hearing Presentation (Introduction to meeting and meeting logistics).
- Graphics depicting the proposed improvements, including access to all adjacent parcels.
- Displays of plans and report(s) for the public display.
- Brochures or handouts.
- Prepare public advertisements.
- Provide Court Reporter.
- Briefing and debriefing of COUNTY staff.

The CONSULTANT shall procure a verbatim transcript of the Public Hearing. The CONSULTANT shall combine the transcript with any letters received by the COUNTY as part of the public hearing record, and affidavits of publication of legal ads, and shall provide copies of the transcript for the COUNTY'S use. The CONSULTANT shall also prepare a Public Hearing Summary if the project shall be processed as a Categorical Exclusion.

**h. Location and Design Concept Acceptance (LDCA) (Optional Service)**

The CONSULTANT shall publish the advertisement in accordance with the PD&E Manual when LDCA is obtained. The COUNTY shall obtain LDCA from the Federal Highway Administration. The CONSULTANT shall assist the FDOT on behalf of the COUNTY as needed.

**i. Special Public Involvement Requirements (Optional Service)**

**Survey of Waterfront Property Owners and Local Boat Owners Depending on Access via the Existing Bridge to Riviera Bay (Optional Service)**

The CONSULTANT shall prepare and distribute a survey to determine the type of boats navigating through/under the San Martin Blvd. Bridge. The survey shall also be designed to obtain input from waterfront property owners and boat owners located west of the bridge concerning vertical height preferences for a possible replacement bridge.

The CONSULTANT shall attempt to follow up with waterfront property owners who do not respond to the survey by visiting the residence and if needed and as necessary leaving a flyer requesting a response.

**Newsletters**

The CONSULTANT shall prepare two (2) newsletters as follows:

- One “kick-off” newsletter to introduce the study early in the project schedule.
- One newsletter prior to the Alternatives Public Meeting. This may serve as an invitation to the Alternatives Pubic Meeting

The CONSULTANT shall pay postage for mailing newsletters.

**Web Site Support**

The CONSULTANT shall provide information to support the COUNTY in maintaining a project web page on the COUNTY’s website. Information to be provided includes public involvement materials distributed at public meetings and digital copies of project documents. Copies of display board materials shall be provided in an approved electronic format for display on the project web page.

## **Videos and Renderings**

### **1. Build a 3D Model of the Proposed Bridge**

The CONSULTANT shall construct a CAD 3D model of the preferred bridge alternative that shall include the new bridge deck, intermediate piers and pedestrian improvements. All necessary details shall be added, such as, retaining walls, pavement striping, signage, lighting, sidewalks, landscaping and railing if the data is available. The final product shall be created in 3D Studio Max.

### **2. Align 3D Model to field photographs**

Photos shall be taken from both adjacent property and roadway views. The proposed designs shall be aligned with the field photographs to show the future conditions for the preferred bridge alternative. Five (5) images of the preferred alternative shall be prepared.

### **3. Render and Print Proposed Images**

Proposed images shall be rendered and or printed for the purpose of verifying accuracy and for in house review by design team and client.

## **Comments and Coordination Memorandum**

A Comments and Coordination Report shall be prepared to document and summarize public involvement activities conducted during the study in accordance with Part 2, Chapter 31 of the PD&E Manual.

## **Task 7: MISCELLANEOUS SERVICES**

### **a. Contract and Project Files**

Project Management efforts for complete setup and maintenance, developing monthly progress reports, schedule updates, work effort to develop and execute sub-consultant agreements etc. Progress reports shall be delivered to the COUNTY in a format as prescribed by the COUNTY and no less than ten (10) days prior to submission of the corresponding invoice. Judgment on whether work of sufficient quality and quantity has been accomplished shall be made by the Project Manager by comparing the reported percent complete against actual work accomplished.



Within ten (10) days after the Notice to Proceed (NTP), the CONSULTANT shall provide a schedule of calendar deadlines. Said schedule shall be prepared in a format prescribed by the COUNTY

**b. Project Management Meetings and Coordination**

The CONSULTANT shall meet with the COUNTY as needed throughout the life of the project. Monthly progress meetings shall be conducted by teleconference and shall include participation by the CONSULTANT'S Project Manager and key technical staff, including subconsultants. Project team workshops shall be held at 14 S. Fort Harrison Ave, Clearwater, Florida, or other prescribed county office, on an as needed basis to coordinate work and plan for public meetings and/or workshops. The CONSULTANT'S Project Manager and key technical staff, including subconsultants that are responsible for the work items to be discussed shall attend project team workshops. The following number of meetings is anticipated:

15	Monthly Progress Meetings
5	Project Team Workshops

**Task 8: Additional Services**

**a. Drainage Analysis**

Surge and Wave Modeling

INTERA will construct a two-dimensional model of the project location. The model will include Riviera Bay, Bayou Grand, portions of Tampa Bay, and the canal system which discharges into the Bay from the west. The two dimensional modeling developed during this task will be directly applicable to the design phase of the project which ultimately results in a cost savings. The model will simulate the 100-year hurricane landfall events to establish the surge elevation and wave climate at the bridge site. From this information, INTERA will calculate the 100-year maximum wave crest elevation. This elevation will assist in the evaluation of alternatives for the replacement bridge. Additionally, this elevation is required for the ultimate design of the structure (if the bridge is rated critical or extremely critical) as outlined in the AASHTO document Guide Specifications for Bridge Vulnerable to Coastal Storms.

Scour Calculation

INTERA will calculate the scour associated with the preferred alternative. Scour calculation will include determination of the aggradation/degradation at the bridge location, examination of the lateral

shifting of the channel thalweg, and calculation of local and contraction scour. Notably, since the modeling efforts only address the 100-year return period hurricane event, the scour estimates will only address the design event and not the check event. INTERA will employ the methodologies outlined in FHWA's HEC-18 as well as FDOT's Scour Manual and Drainage Manual.

#### Documentation

INTERA will prepare a letter report documenting the modeling effort and establishment of the 100-year maximum wave crest elevation. This document will supplement the Location Hydraulics Report. This task includes submittal of a draft and final report which will include incorporation of comments from HDR, Pinellas County, and the FDOT.

#### Quality Assurance/Quality Control and Coordination

INTERA will perform internal QAQC of all work and reporting for this project. Coordination will involve contract administration and regular teleconferences with HDR as well as expected consultation on coastal engineering or bridge hydraulic related issues during the evaluation of the alternatives.

### **TASK 9: OPTIONAL SERVICES**

Optional Services indicated in the scope of services shall be included in the contract and funded as required. Commencement of these services shall require authorization by the COUNTY. (A supplemental agreement/contract shall not be required.)

In the event that budgeted optional services are not required, the funds allocated for these services shall be available for additional services as recommended by the COUNTY or CONSULTANT and approved by the COUNTY.

### **V. COMPENSATION**

The CONSULTANT shall provide the above outline Basic Services for the following fixed fee or estimated amounts.

Task 1	Data Collection	\$ 43,937.27	Lump Sum
Task 2	Design Analysis	\$ 102,931.92	Lump Sum
Task 3	Comparative Analysis	\$ 52,276.76	Lump Sum
Task 4	Environmental Analysis	\$ 108,143.03	Lump Sum
Task 5	Environmental Reports	\$ 5,393.00	Lump Sum
Task 6	Public Involvement	\$ 105,690.00	Lump Sum
Task 7	Miscellaneous Services	\$ 31,724.00	Lump Sum

Task 8	Additional Services	\$ 26,428.04	Lump Sum
Task 9	Optional Services	\$ 68,826.00	Lump Sum

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Total Fee		\$ 545,350.02	Lump Sum
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## VI. SCHEDULE

The CONSULTANT shall also provide a Microsoft Project Schedule with updates to be included with each monthly invoice submittal.

CONSULTANT'S services shall commence upon receipt of written notice to proceed issued by COUNTY. CONSULTANT shall complete the Project Development and Environmental Study in accordance with the following or better project schedule:

### Project Schedule

<u>Milestone</u>	<u>Due Date After receive the NTP</u>
<u>Engineering Items:</u>	270 Calendar Days
First Draft Project Development Summary Report	
Draft Final Project Development Summary Report	
Final Project Development Summary Report (Signed & Sealed)	
Drainage Technical Memorandum	
Conceptual Design Plan Set	
Geotechnical Technical Memorandum	
<u>Environmental Items:</u>	515 Calendar Days
Public Involvement Plan	
Air Quality Technical Memorandum	
Contamination Screening Evaluation Tech Memo	
Conceptual Stage Relocation Plan	
Public Hearing Transcript	
Biological Assessment Technical Memorandum	
Wetlands Evaluation/Essential Fish Habitat Technical Memorandum	
<i>Section 106 Determination of Eligibility</i>	
Cultural Resource Assessment Survey Report	
Comments and Coordination Report	
<u>NEPA Report</u>	565 Calendar Days

COUNTY design review period is twenty-one calendar days from the date of the Draft Preliminary Engineering Report milestone submittal. The CONSULTANT shall also provide responses to comments for the required submittal. Any other delays beyond CONSULTANT'S control shall be documented in writing by CONSULTANT and submitted to COUNTY for consideration to grant a schedule time extension.

The requirements for each design review shall be as specified in the COUNTY'S, "Checklists for Design Review Submittals". CONSULTANT shall continue its design work during the review periods. CONSULTANT shall respond to the COUNTY'S design review comments in writing and by making corresponding revisions to the plans. Written responses and plans revisions are to be included with the next design review submittal. CONSULTANT shall respond to regulatory agencies review comments in the same manner. Design revisions are to be completed by CONSULTANT at no additional time and/or cost unless the revisions result from COUNTY making changes to the horizontal or vertical alignment or other changes or similar impact to the project design. In such cases, COUNTY shall evaluate the CONSULTANT'S request for additional time and/or compensation. COUNTY may require CONSULTANT to make plans revisions and resubmit the plans at the same phase of completion if it is found that the plans do not meet the requirements of the "Checklist for Review Submittals".


## **VII. INVOICES & PROGRESS REPORTS**

CONSULTANT shall submit invoices as work progresses based on the work accomplished. With each invoice, CONSULTANT shall submit a progress report summarizing the work completed during the invoice period.



# 10.

Scope of Services:  
Trail Evaluation



**EXHIBIT C**  
**SCOPE OF SERVICES**  
**FOR**  
**PROJECT DEVELOPMENT AND ENVIRONMENT (PD&E) STUDY**  
**SAN MARTIN BLVD. OVER RIVIERA BAY**  
**TRAIL EVALUATION COMPONENT**  
**PINELLAS COUNTY**

**Prepared For:**

**Pinellas County**  
**Engineering and Technical Support Division**  
**14 S. Ft. Harrison Ave.**  
**Clearwater, FL 33756**

**Prepared by:**  
**HDR Engineering, Inc.**  
**5426 Bay Center Drive**  
**Suite 400**  
**Tampa, FL 33609**

**October 2014**

## **SCOPE OF SERVICES FOR CONSULTING ENGINEERING SERVICES**

This Exhibit forms an integral part of the agreement between Pinellas County (hereinafter referred to as the COUNTY) and HDR Engineering, Inc. (hereinafter referred to as the CONSULTANT) relative the transportation facility describe as follows:

### **I. PROJECT TITLE**

Professional Engineering Services for the Project Development and Environment (PD&E) Study for San Martin Blvd. over Riviera Bay Trail Evaluation Component.

### **II. OBJECTIVE**

The purpose of this Exhibit is to define the responsibilities of the **CONSULTANT** and the **COUNTY** in connection with the Project Development and Environment (PD&E) Study for San Martin Blvd. over Riviera Bay Trail Evaluation Component. The purpose of the evaluation is to assess alternatives for the roadway and proposed trail alignment along San Martin Blvd. in relation to replacing the bridge over Rivera Bay. The project limits extend along San Martin Blvd. from Macoma Drive to Gandy Blvd. in Pinellas County, Florida. Within these limits the segment between Tallahassee Drive and Weedon Drive/Ridgeway Drive is specifically excluded because efforts for this segment are included under the scope of services for the San Martin Blvd. Bridge Replacement over Riviera Bay PD&E Study. The services outlined in the current scope are intended to supplement those outlined in the scope of services for the PD&E study.

### **III. PROJECT DESCRIPTION**

The **CONSULTANT** shall collect data and provide a preliminary alignment analysis to the **COUNTY** with roll plots presenting the corridor trail alignment alternatives, right-of-way lines, adjacent property boundaries, and typical section configurations, etc. After completion of the preliminary alignment analysis the **CONSULTANT** shall attend a preliminary alignment workshop meeting with **COUNTY** staff to review the preliminary alignments. Once a preferred alignment alternative is identified the **CONSULTANT** shall develop plan graphics to facilitate the ability of **COUNTY** staff to present the preferred alternative to the public at the Alternatives Workshop.

### **IV. SCOPE OF WORK**

The design services include:

1. Roadway Analysis and Plans
  - 1.1. Design Documentation
  - 1.2. Typical Section Analysis
  - 1.3. Horizontal and Vertical Alignment Analysis
  - 1.4. Utility Impact Analysis
  - 1.5. Cost Estimates
  - 1.6. Field Review
  - 1.7. Preliminary Alignment Workshop
  - 1.8. Technical Meetings
2. Drainage Analysis
  - 2.1. Drainage Conceptual Analysis
  - 2.2. Permit Review
  - 2.3. Drainage Design Documentation

- 2.4. Field Review
- 2.5. Technical Meetings
- 3. Environmental Permits, Compliance & Clearances
  - 3.1. Preliminary Project Research
  - 3.2. Establish Wetland Jurisdictional Lines and Assessments
  - 3.3. Regulatory Agency Coordination
  - 3.4. Documentation and Mitigation Cost Estimate
- 4. Alternatives Public Meeting Graphics

## 1. ROADWAY ANALYSIS AND PLANS

The **CONSULTANT** is to perform the following task:

### Design Documentation

The **CONSULTANT** shall review the appropriate requirements of the Pinellas County codes, Florida Greenbook and FDOT Plans Preparation Manual and document the appropriate design criteria for the project in the Design Documentation. The documentation shall include any correspondence with agencies in relation to the project.

### Typical Section Analysis:

The **CONSULTANT** shall develop alternative typical sections consistent with the documented design criteria at the following locations:

- Roadway Typical Section south of bridge
- Roadway Typical Section north of bridge
- Shifted Roadway Typical Section north of bridge

### Horizontal and Vertical Alignment Analysis:

The **CONSULTANT** shall investigate three alternatives:

- Placing the trail on the north/west side of San Martin Blvd.
- Placing the trail on the south/east side of San Martin Blvd.
- Shifting the existing roadway to north/west to facilitate placement of the trail

Vertical alignments for the shifted roadway will be evaluated based on maintaining the existing profile.

Each horizontal and vertical alignment shall be developed in consideration of the following elements:

1. Environmental impacts
2. MOT requirements
3. Right-of-way impacts including access considerations
4. Utility impacts
5. Impacts on accessibility to adjacent facilities
6. Constructability
7. Trail Connectivity with North Bay Trail, Weedon Island, Duke Energy Trail, Savora Trail and Friendship Trail

### Utility Impact Analysis:

The **CONSULTANT** shall identify all utilities in the corridor by contacting **COUNTY** Maintenance and performing a Sunshine State One Call. The **CONSULTANT** shall coordinate with all UAO's to confirm their facility type and location within the corridor. Documentation of the correspondence is to be provided in Design Documentation.



Cost Estimates:

The **CONSULTANT** shall develop construction cost estimates for three trail alignment alternatives. Estimates will exclude costs associated with right-of-way impacts and utility relocation costs.

Preliminary Alignment Workshop:

The **CONSULTANT** shall prepare documentation and attend a preliminary alignment workshop with **COUNTY** staff to review each alternative evaluated. The **CONSULTANT** shall furnish for the preliminary alignment workshop meeting with **COUNTY** staff the following information:

- Roll plots of alignment alternatives
- Plots of typical section alternatives
- Design documentation
- Drainage design documentation
- Environmental permit and mitigation documentation

Technical Meetings

The **CONSULTANT** shall attend a meeting with both **COUNTY** and FDOT staff to discuss signalized crossings for the trail at Gandy Blvd. for connection to the Friendship Trail and extension located on the north side of Gandy Blvd.

2. DRAINAGE ANALYSIS

The **CONSULTANT** is to perform the following task:

Drainage Conceptual Analysis:

- Establish existing drainage patterns.
- Evaluate the stormwater management requirements for two roadway typical sections and three alignment alternatives. Consider feasibility of addressing stormwater management needs in the corridor right-of-way. Identify potential pond sites and approximate pond areas, should offsite ponds be required,
- Evaluate the drainage conveyance requirements for the roadway typical section and alignment alternatives.
- Estimate approximate construction costs of drainage conveyance systems for each scenario.
- Estimate construction cost of stormwater management facilities should offsite ponds be required.

Permit Review:

- Research and review existing permits in the project area, including the Gandy Blvd drainage plans.

Drainage Design Documentation:

- Prepare drainage analysis write-up and graphics to be included in the study.

Field Reviews:

The **CONSULTANT** shall perform a field review to verify existing drainage patterns along the corridor.

Technical Meetings:

The **CONSULTANT** shall attend two technical meetings as follows:

- Preliminary Alignment Workshop with **COUNTY** staff
- Alignment Alternatives Workshop with the public

### 3. ENVIRONMENTAL PERMITS, COMPLIANCE & CLEARANCES

#### Preliminary Project Research

The **CONSULTANT** shall obtain aerial photography, soils surveys, topographic maps, wetland and data necessary to create a detailed plan for environmental field investigations and assess the project's environmental opportunities and constraints. The **CONSULTANT** shall perform initial field reconnaissance within the project corridor to determine the applicability of all state and federal permits.

#### Establish Wetland Jurisdictional Lines and Assessments

The **CONSULTANT** shall establish the approximate landward extent of state and federal jurisdictional wetlands and surface waters pursuant to Chapter 62-340 F.A.C. and the *Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Atlantic and Gulf Coastal Plain Region; Version 2.0.* (USACE, 2010). Jurisdictional limits of wetlands and surface waters will be estimated by the **CONSULTANT** by ground-truthing high-resolution aerial photography.

The **CONSULTANT** shall prepare assessments of the value of wetlands and surface waters that may be impacted by the various project alternatives. Assessments will be completed using the Uniform Mitigation Assessment Methodology (UMAM) as required by the Southwest Florida Water Management District (SWFWMD) and the U.S. Army Corps of Engineers (USACE).

#### Documentation and Mitigation Cost Estimate

The **CONSULTANT** shall provide an analysis of environmental field reconnaissance in the study's Design Documentation Report. The **CONSULTANT** shall incorporate wetland jurisdictional lines into the conceptual plans and quantify impacts associated with each design alternative. The **CONSULTANT** shall identify the availability of viable mitigation opportunities, recommend potential mitigation strategies, and provide an estimate of wetland mitigation costs for each design alternative based on the quantity and quality of impacts to aquatic resources.

### 4. ALTERNATIVES PUBLIC MEETING GRAPHICS

It is the intent of Pinellas County to obtain public input regarding the preferred alignment alternative for the trail along San Martin Blvd. from Macoma Drive to Gandy Blvd. To this end the preferred alternative for the typical section and alignment will be prepared and presented to the public for their input as part of the Alternatives Public Meeting held for the San Martin Bridge Replacement PD&E.

The **CONSULTANT** shall provide 11x17" plots of the typical section and alignment line and grade to the **COUNTY** for review prior to any presentations of the materials to the public at a public meeting.

The **CONSULTANT** shall perform services necessary to facilitate the **COUNTY's** ability to allow local residents to review and obtain public input regarding the preferred alternative. Services included are as follows:

- **Workshop Graphics** – The **CONSULTANT** shall prepare presentation boards for the public workshop as follows:
  - Typical Section Board
  - Plan View Board of Preferred Alternative
  - Trail Connectivity Graphic

The **CONSULTANT** shall provide reduced draft plots of all workshop graphics to the **COUNTY** for review prior to the workshop.

## V. COMPENSATION

The **CONSULTANT** shall provide the above outline Basic Services for the following fixed fee or estimated amounts.

Task 1	Roadway Analysis and Plans	\$ 19,194.00	Lump Sum
Task 2	Design Analysis	\$ 15,781.00	Lump Sum
Task 3	Environmental Permits	\$ 16,684.00	Lump Sum
Task 4	Alternative Public Meeting	\$ 4,422.00	Lump Sum
<hr/>			
Total Fee		\$ 56,081.00	Lump Sum

## VI. SCHEDULE

**CONSULTANT** shall complete the services in accordance with the schedule for the Project Development and Environment (PD&E) Study for San Martin Blvd. over Riviera Bay.

### Provisions for Work:

**CONSULTANT** shall complete services in accordance with provisions for the Project Development and Environment (PD&E) Study for San Martin Blvd. over Riviera Bay.

## VII. SERVICES TO BE PERFORMED BY THE COUNTY

The **COUNTY** shall provide the services and materials as set forth below:

- Furnish all future information that may come to the **COUNTY** during the term of the **CONSULTANT's** Agreement that in the opinion of the **COUNTY** is necessary for the completion of the work.
- Provide all field survey and data.
- Provide survey of jurisdictional lines flagged by **CONSULTANT**.
- Provide project data currently on file.
- Furnish available traffic and planning data.
- Provide projected Design Year, including K, D, and T factors.
- Provide existing right-of-way maps.
- Provide all future information that may come to the **COUNTY** pertaining to subdivision plans so that the **CONSULTANT** may take advantage of additional areas that can be utilized as part of the existing right-of-way.
- Approve all contacts with environmental agencies.
- Provide general philosophies and guidelines of the **COUNTY** to be used in the fulfillment of this contract. Objectives, constraints, budgetary limitations, and time constraints shall be completely defined by the Project Manager.
- The appropriate signatures on application forms.
- Pay all permit application fees.
- Identification of the preferred alternative to be presented at the public workshop.
- Reviews of workshop materials.
- Attendance by **COUNTY** staff at public workshop.

- Workshop notifications as required by **COUNTY** requirements outside of mailing provided by the **CONSULTANT**
- Workshop site rental fees if required.
- Provide mailing list with self-adhesive labels for mailout.

## VIII. SUBMITTALS

The **CONSULTANT** shall furnish for a preliminary alignment workshop meeting with **COUNTY** staff the following information:

- Roll plots of alignment alternatives
- Plots of typical section alternatives
- Design documentation
- Drainage design documentation
- Environmental Permit and Mitigation documentation

The **CONSULTANT** shall furnish the workshop materials described below to the **COUNTY** in order to adequately control, coordinate, and approve the project. The **COUNTY** shall have three (3) weeks for review and comment for each submittal.

- *Workshop graphics*
  - Typical Section Board
  - Plan View Board of Preferred Alternative
  - Trail Connectivity Graphic

11.

Fee and Staff Hours:  
HDR

**EXHIBIT B - ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT**

Name of Project: San Martin Blvd. Over Riviera Bay Bridge Repl. PD&E  
 County: Pinellas  
 FPN: 001036A  
 FAP No.: TBD

Consult. Name: HDR Engineering  
 Consult. No. enter consultants proj. number  
 Date: 10/13/2014  
 Estimator: Marlin Register/Matt Wey/Chip Messenkopf/Debra Henupel

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Project Manager	Chief Engineer	Senior Planner	Senior Engineer	Planner	Project Engineer	Engineering Intern	Designer	Engineering Technician	Chief Scientist	Senior Scientist	Secretary/Clerical	SH By Activity	Salary Cost By Activity	Average Rate Per Task
Public Involvement	811	81	24	97	97	105	81	81	81	41	41	41	41	811	\$105,017	\$129.49
Engineering Analysis & Report	1,409	141	70	70	211	141	211	211	211	70	0	0	70	1,409	\$177,077	\$125.68
Environmental Analysis & Reports	522	16	16	63	52	68	78	63	26	26	78	26	10	522	\$67,001	\$128.35
Miscellaneous	213	75	0	32	0	32	21	21	0	0	21	0	11	213	\$31,724	\$148.94
<b>Total Staff Hours</b>	2,955	313	110	262	360	346	391	376	318	137	140	67	135	2,955		
<b>Total Staff Cost</b>		\$61,974.00	\$24,090.00	\$43,492.00	\$55,800.00	\$37,022.00	\$46,920.00	\$43,464.00	\$30,528.00	\$10,549.00	\$20,300.00	\$8,040.00	\$8,640.00		<b>\$380,819.00</b>	<b>\$128.87</b>

Survey Field Days by Subconsultant

4 - Person Crew:

**Notes:**

1. This sheet to be used by Prime Consultant to calculate the Grand Total fee.
2. Manually enter fee from each subconsultant. Unused subconsultant rows may be hidden.

SALARY RELATED COSTS:		\$380,819.00
OVERHEAD:	0.00%	\$0.00
OPERATING MARGIN:	0.00%	\$0.00
FCCM (Facilities Capital Cost Money):	0.00%	\$0.00
EXPENSES:	0.00%	\$0.00
<b>SALARY RELATED SUBTOTAL:</b>		<b>\$380,819.00</b>
Survey (Field - if by Prime)	0.00 4-man crew day 5 - / day	\$0.00
Trail Evaluation Component (See Separate Sheets)		\$56,081.00
<b>SUBTOTAL - PRIME</b>		<b>\$436,900.00</b>
Subconsultant: ACL Inc. (ACL)		\$8,591.25
Subconsultant: KB Environmental, Inc. (KBE)		\$29,166.78
Subconsultant: Tierra, Inc.		\$23,758.46
Subconsultant: Intera, Inc.		\$26,428.04
Subconsultant: Adams Traffic		\$7,760.49
Subconsultant: Sub 7		\$0.00
Subconsultant: Sub 8		\$0.00
Subconsultant: Sub 9		\$0.00
Subconsultant: Sub 10		\$0.00
Subconsultant: Sub 11		\$0.00
Subconsultant: Sub 12		\$0.00

<b>SUBTOTAL ESTIMATED FEE:</b>	<b>\$532,605.02</b>
Optional Services	\$68,826.00
<b>GRAND TOTAL ESTIMATED FEE:</b>	<b>\$601,431.02</b>

## PUBLIC INVOLVEMENT

Estimator:	(HDR) Matt Wey/Debra Hempel					San Martin Blvd. Over Riviera Bay Bridge Repl. PD&E
						001036A
Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
Task 6	Public Involvement					
a.	Public Involvement Program *	L.S.	1	40	40	Prepare Public Involvement Plan per FDOT guidelines
b.	Public Involvement Data Collection	L.S.	1	72	72	Development and maintenance of mailing lists, correspondence, collecting and maintaining news articles and stories, public circulars, and transcripts from radio and TV news clips through the duration of the study. Also includes development and maintenance of Frequently Asked Questions (FAQs) - 12 hrs/ mailing list x (1 kick-off list +1 list update for public meeting) and (4 hrs/mos to maintain data and FAQs x 12 mos)
c.	Notice of Intent *	L.S.	1	0	0	N/A
d.	Advance Notification *	L.S.	1	0	0	N/A
e.	Scheduled Public Meetings	Item total		----->	182	
	Scoping Meeting					N/A
	Set Up/Scoping Package *	L.S.			0	N/A
	Participation	L.S.			0	N/A
	Elected Officials/Agency Kickoff Meeting					
	Set Up *	L.S.	1	34	34	The task includes the preparation of presentation (24 hrs), handouts (4 hrs), set up notification letters (6 hrs).
	Participation and notes	L.S.	1	11	11	2 staff attending x (2 hrs meeting + 1.5 hrs travel time) + note preparation and distribution (4hrs).
	Public Kickoff Meeting					N/A
	Set up *	L.S.			0	N/A
	Participation and notes	L.S.			0	N/A
	Corridor or other Public Meeting					N/A
	Set up *	L.S.			0	N/A
	Participation and notes	L.S.			0	N/A

## PUBLIC INVOLVEMENT

Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
	Alternatives Public Meeting					
	Set up *	L.S.	1	117	117	Preparation of invitations (3 hrs), advertisements (3 hrs), press releases (3 hrs), presentation (36 hrs), handouts (16 hrs), exhibits (32 hrs), site selection (22 hrs), set up (6 hrs), and County staff briefings and notes (16 hrs).
	Participation and notes	L.S.	1	20	20	4 staff attending x (2 hrs meeting + 1.5 hrs travel time) + note preparation and distribution (6hrs).
f.	Other (Unscheduled) Public and Agency Meetings	per meeting	10	13	130	10 meetings x 2 staff attending x (2 hrs meeting + 1.5 hrs travel time) + note preparation and distribution (6hrs).
g.	Public Hearing	Item total		----->	0	OPTIONAL SERVICE
	Invitation / notification / setup / follow-up *	L.S.	1	0	0	OPTIONAL SERVICE
	Participation	L.S.	1	0	0	OPTIONAL SERVICE
h.	Location and Design Concept Acceptance	L.S.	1	4	4	
i.	Special Public Involvement Requirements	Item total		----->	344	
	Waterfront Property Owner Vessel Survey	L.S.	1	0	0	OPTIONAL SERVICE
	General Public Correspondence *	L.S.	1	48	48	Compile/respond to comments (12 mos x 4 hrs/mos)
	News Letters, Preparation / Distribution *	L.S.	1	48	48	2 newsletters (32 hrs kick-off, 16 hrs update for Alternative Public Meeting)
	Web Site Support *	L.S.	1	38	38	County to develop website. Project specific information to be provided to County for inclusion on website.
	Web Site Support*	per month	15	2	30	Provide website support (12 mos x 2 hrs/mos)
	Videos, Renderings, etc. *	L.S.	1	180	180	5 renderings + 3D Interactive model of project site.
		Sub total		----->	772	
	*subject to QC		% QC			
1.10	Quality Assurance / Quality Control	LS	5	%	39	
	<b>PUBLIC INVOLVEMENT TOTAL HOURS</b>			----->	811	



## ENGINEERING ANALYSIS AND REPORT

Estimator:	(HDR) Marlin Register/Matt Wey					San Martin Blvd. Over Riviera Bay Bridge Repl. PD&E 001036A
Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
	ENGINEERING ANALYSIS and REPORTS					
Task 1	DATA COLLECTION					
a.	Field Review	L.S.	1	36	36	3 staff x 2 field reviews x 6 hrs per review
b.	Aerial Photography	L.S.	1	4	4	Collect aerial survey off of FDOT or other public available imagery. Ensure correlation to design survey.
c.	Survey Coordination	L.S.	1	6	6	Coordination with County Survey office for supplemental survey to existing survey information provided by County.
d.	Existing Roadway Characteristics	L.S.	1	24	24	
e.	Existing Structures Characteristics	per structure	1	4	4	
f.	Traffic Data	L.S.	1	30	30	Travel time study 1 pers x 3 days x 6 hrs/day; Weekend ped count 2 days x 6 hrs day
g.	Crash Data	L.S.	1	4	4	4 hrs data request and review
h.	Tax Map GIS Data	L.S.	1	8	8	Collect GIS data from County GIS system.
i.	Utilities and Railroads	per agency	4	2	8	Agencies: City of St. Pete, Duke Energy, Verizon, Knology and TECO Peoples Gas
j.	Transportation Plans	L.S.	1	4	4	Review of multi-modal transportation plans
k.	Soils	L.S.	1	0	0	See Eng. Analysis and Report - Tierra
l.	Base map *	per sheet	1	16	16	Roll Plot format, 1"=80'
	NEEDS					
m.	Safety *	L.S.	1	24	24	Tabulation of crash data 6 hrs, determination of high accident locations 8 hrs, and evaluate safety issues 10 hrs
n.	Analysis of Existing Conditions *	L.S.	1	6	6	Safety analysis of crash data, plus existing vertical and horizontal geometry.
o.	Purpose and Need Statement *	L.S.	1	0	0	Purpose and need statement to be documented in PER
Task 2	DESIGN ANALYSIS					
a.	Corridor Analysis *	L.S.	1	2	2	Document existing corridor as only option.

## ENGINEERING ANALYSIS AND REPORT

Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
a.	Traffic Analysis	Item	total	----->	216	
	Design Traffic *	L.S.	1	72	72	Sub area model validation 24 hrs; design traffic volumes - 3 analysis years (existing, opening and design) x 2 analysis periods (AM and PM) x 2 scenarios (with and without detour) x 4 hrs/analysis scenario
	Traffic Operational Analysis *	L.S.	1	96	96	3 analysis years (existing, opening and design) x 2 analysis periods (AM and PM) x 2 scenarios (with and without detour) x 8 hrs/analysis scenario
	Design Traffic Documentation *	L.S.	1	48	48	Draft Design Traffic Technical Memorandum (DTTM) 36 hrs, and Final DTTM 12 hrs
b.	Typical Section Analysis *	per typ section	2	4	8	Two typical sections - roadway approaches and bridge.
c.	Roadway Design Alternatives *	L.S.	1	80	80	3 alternatives - widening of existing, highest feasible fixed and highest practical movable. 3 shifted alternatives for highest practical left, center, and right -5 alts total.
d.	Prepare Concept Plans *	per sheet	15	6	90	1"=40'; Plan/Profile, 5 alts; 3 sheets per alt.
e.	Drainage and Floodplain Analyses	Item	total	----->	76	
	Drainage and Floodplain Analyses and Pond Siting Report *	per basin	1	40	40	Two basins, meet with the SWFWMD to establish stormwater management requirements (4 hours), prepare memorandum for stormwater management requirements and alternative pond sites 36 hrs.
	Location Hydraulic Report *	L.S.	1	36	36	Prepare Location Hydraulic Report in memorandum format
f.	Structures *	per structure	1	240	240	3 alternatives, rehabilitation/widening of existing, replacement at existing, low level at 40 hours each + 80 hours for Life Cycle Cost Analysis of movable option and rehab option. Includes 40 hours to evaluate feasible substructure alternatives for scour analysis.
g.	Access Management *	L.S.	1	2	2	Documents no issues with highest practical alternatives
h.	Multi-modal Accommodations *	per agency	2	4	8	Coordinate with PSTA and City of St. Pete regarding multmodal accomdations.
i.	Maintenance of Traffic Analysis *	L.S.	1	32	32	MOT analysis of shifted alignments and phase construction.
j.	Geotechnical Coordination	L.S.	1	2	2	Coordination with Tierra, Inc. on geotechnical information.
	Intelligent Transportation Systems *	L.S.	1	0	0	N/A
k.	Utilities and Railroads *	L.S.	1	24	24	Prepare hours utility assessment package.
l.	ADA Features	L.S.	1	0	0	Hours included in design alternatives developed under item c.
	COMPARATIVE ANALYSIS OF ALTERNATIVES					
a.	Comparative Analysis and Evaluation Matrix *	L.S.	1	32	32	3 alternatives - widening of existing, highest feasible fixed and highest practical movable. 3 shifted alternatives for highest practical left, center, and right -5 alts total.

ENGINEERING ANALYSIS AND REPORT

Task No.	Task	Units	# of Units	HOURS	Comments
b.	Selection of Alternative(s) *	L.S.	1	12	12
c.	Conceptual Design Plans (preferred) *	per sheet	3	6	18
	Identify Construction Segments *	L.S.	1	0	0
	Value Engineering	per study	0	0	0
d.	Construction Cost Estimates *	L.S.	1	70	70
e.	Right of Way Cost Estimates	Item total	----->	0	5 alternatives; Initial preparation plus two updates: one after alternatives workshop, and final; 5*10 initial+2*5*2 for updates
	Notes and Maps for Estimate *	L.S.		0	N/A; Additional Service If Req'd
	Preparation Cost Estimate *	L.S.		0	N/A; Additional Service If Req'd
f.	Typical Section Package *	L.S.	1	12	12
g.	Design Exceptions and Variations *	L.S.	1	0	0
h.	Project Development Summary Report	Item total	----->	244	
	First Draft *	L.S.	1	160	160
	Second Draft *	L.S.	1	60	60
	Final *	L.S.	1	24	24
		Sub total	----->	1342	
	*Subject to QC	% QC			
2.40	Quality Control	L.S.	5 %	67	
	<b>ENGINEERING TOTAL HOURS</b>		----->	<b>1409</b>	

ENVIRONMENTAL ANALYSIS AND REPORTS

Estimator: (HDR) Matt Vvey/Chip Messenkopf				San Martin Blvd. Over Riviera Bay Bridge Repl. PD&E 001036A		
Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
Task 4	ENVIRONMENTAL ANALYSIS and REPORTS					
	SOCIAL AND CULTURAL IMPACTS					
a.	Land Use Changes *	L.S.	1	6	6	Document land use types and prepare land use map, no major land use changes expected
b.	Social *	L.S.	1	12	12	Collect data and complete Community Characteristics Inventory (CCI), determine Title VI/VIII involvement, evaluate community cohesion and community services, analyze and evaluate the effects of the project on individual groups, neighborhoods and the community.
c.	Economic *	L.S.	1	4	4	Identifying community service properties and analyze economic effect of project
d.	Mobility *	L.S.	1	8	8	Document the mobility effects of traffic detour related to temporary bridge closure
e.	Aesthetics *	L.S.	1	12	12	Analyze visual impacts of the project and develop aesthetic treatments
f.	Relocation Potential	Item	total	----->	0	
	Concept Stage Relocation Plan *	L.S.			0	N/A; Additional Service If Req'd
	Review and Impact Determination *	L.S.			0	N/A; Additional Service If Req'd
g.	Archaeological and Historical Resources	Item	total	----->	0	See Env. Analysis and Reports - ACI Sheet
	Archaeology	# holes	0	0	0	See Env. Analysis and Reports - ACI Sheet
	Historic Sites	# sites	0	0	0	See Env. Analysis and Reports - ACI Sheet
	Florida Master Site Files *	L.S.			0	See Env. Analysis and Reports - ACI Sheet
	Pond Site Addendum *	L.S.			0	See Env. Analysis and Reports - ACI Sheet
	Cultural Resource Assessment Survey *	L.S.			0	See Env. Analysis and Reports - ACI Sheet
	Determination of Eligibility *	each resource	0	0	0	See Env. Analysis and Reports - ACI Sheet
	Case Study Report *	L.S.			0	See Env. Analysis and Reports - ACI Sheet
	Memorandum of Agreement *	L.S.			0	See Env. Analysis and Reports - ACI Sheet
h.	Section 4(f)	Item	total	----->	3	



ENVIRONMENTAL ANALYSIS AND REPORTS

Task No.	Task	Units	Est Units	Hours/ Unit	HOURS	Comments
	Section 4 (f) Applicability *	L.S.			3	Prepare justification for discussion with FHWA
	Section 4 (f) Evaluation *	L.S.			0	
	NATURAL IMPACTS					
i.	Wetlands and Essential Fish Habitat	Item	total	----->	212	
	Data Collection - Wetlands	L.S.	1	60	60	Review of Agency databases, field investigations and characterizations, flag wetland limits within limits of bridge project, perform seagrass surveys.
	Data Collection - Essential Fish Habitat	L.S.	1	0	0	Activities associated with EFH data collection will be performed in the wetlands data collection task above.
	Conceptual Mitigation Plan *	L.S.	1	32	32	Research potential for on-site and off-site mitigation opportunities, coordination with regulatory agencies and mitigation banks.
	Analysis & Report - Essential Fish Habitat *	L.S.	1	120	120	Assemble Wetland / EFH Technical Memorandum. Includes agency coordination, response to agency comments, and production of Draft and Final versions.
	Evaluation & Report - Wetlands *	L.S.	1	0	0	Activities associated with this task are included in the Analysis & Report for EFH.
j.	Water Quality *	L.S.	1	8	8	Water Quality Impact Evaluation (WQIE)
k.	Special Designations *	L.S.	1	4	4	
l.	Wildlife and Habitat	Item	total	----->	164	
	Data collection	L.S.	1	60	60	Review of Agency databases, field investigations to determine absence / presence of listed species, coordination with wildlife agencies (FWC, USFWS, and NMFS).
	Analysis and report *	L.S.	1	104	104	Production of Biological Assessment Technical Memorandum, agency coordination, respond to agency comments, includes Draft and Final versions.
	Conservation Measures and Mitigation Plan *	L.S.	1	0	0	Conservation Measures and Mitigation Plan will be included in BA Tech Memo.
m.	Identify Permit Conditions *	L.S.	1	24	24	Conduct Pre-Application Meetings with regulatory agencies, production of draft and final meeting minutes and summarize Permit Conditions in Tech Memo.
n.	Farmlands *	L.S.	1	0	0	N/A

ENVIRONMENTAL ANALYSIS AND REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
	PHYSICAL IMPACTS					
o.	Noise	Item	total	----->	0	
	Data collection, and field work	L.S.			0	See Env. Analysis and Reports - KBE Sheet
	Analysis *	L.S.			0	See Env. Analysis and Reports - KBE Sheet
	Report "	L.S.			0	See Env. Analysis and Reports - KBE Sheet
p.	Air Quality	Item	total	----->	0	
	Screening Analysis *	L.S.			0	See Env. Analysis and Reports - KBE Sheet
	Air Quality Modeling *	L.S.			0	See Env. Analysis and Reports - KBE Sheet
q.	Construction Impact Analysis *	L.S.	1	0	0	
r.	Contamination	Item	total	----->	0	
	Field Data	L.S.			0	See Env. Analysis and Reports - Tierra Sheet
	Analysis/Report *	L.S.			0	See Env. Analysis and Reports - Tierra Sheet
Task 5	ENVIRONMENTAL REPORTS					
a.	Class of Action Determination (State Environmental Impact Report) *	L.S.	1	40	40	Complete Type 2 CE COA Determination Form for MICE
b.	Environmental Assessment *	L.S.	1	0	0	N/A
c.	FONSI *	L.S.	1	0	0	N/A
d.	Draft EIS *	L.S.	1	0	0	N/A
e.	Final EIS *	L.S.	1	0	0	N/A
		Sub	total	----->	497	
	* Subject to QC		% QC			
3.24	Quality Control	L.S.	5 %		25	
	<b>ENVIRONMENTAL TOTAL HOURS</b>			----->	<b>522</b>	

MISCELLANEOUS

Estimator: (HDR) Marlin Register						San Martin Blvd. Over Riviera Bay Bridge Repl. PD&E
						001036A
Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
Task 7	MISCELLANEOUS SERVICES					
a.	Contract and Project Files	LS	1	72	72	15 month schedule. 16 hours for initial set-up then 4 hours per month for maintenance
b.	Project Management Meetings and Coordination	LS	1	141	141	15 monthly meetings (2 staff @ 3hrs ea), plus 4 project team workshops (5 staff @ 3 hrs ea)
Task 8	Additional Services	Item	total	----->	0	None identified at this time.
	Additional Services to be performed	L.S.			0	
	4. Roadway Analysis	L.S.			0	
	5. Roadway Plans	L.S.			0	
	6. Drainage Analysis	L.S.			0	
	8. Environmental Permits	L.S.			0	
	27. Survey	L.S.			0	
	28. Photogrammetry	L.S.			0	
	29. Mapping	L.S.			0	
	30. Geotechnical	L.S.			0	
	<b>MISC. TOTAL HOURS</b>				<b>213</b>	
	<b>SUMMARY</b>					

MISCELLANEOUS

Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
	PUBLIC INVOLVEMENT				811	
	ENGINEERING ANALYSIS AND REPORTS				1409	
	ENVIRONMENTAL ANALYSIS AND REPORTS				522	
	MISCELLANEOUS				213	
	<b>PROJECT TOTAL HOURS</b>				<b>2955</b>	



12.

Fee and Staff Hours:

HDR Optional Services

**EXHIBIT B - ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT**  
**OPTIONAL SERVICES**

Name of Project: San Martin Blvd. Over Riviera Bay Bridge Repl. PD&E  
 County: Pinellas  
 FPN: 001036A  
 FAP No.: TBD

Consult. Name: HDR Engineering  
 Consult. No. enter consultants proj. number  
 Date: 10/3/2014  
 Estimator: Marlin Register/Matt Wey/Chip Messenkopf/Debra Hempel

Staff Classification	Total Staff Hours From 'SH Summary - Item'	Project Manager	Chief Engineer	Senior Planner	Senior Engineer	Planner	Project Engineer	Engineering Intern	Designer	Engineering Technician	Chief Scientist	Senior Scientist	Secretary/Clerical	SH By Activity	Salary Cost By Activity	Average Rate Per Task
Public Involvement	378	38	11	45	45	49	38	38	38	19	19	19	19	378	\$48,925	\$129.43
Engineering Analysis & Report	42	4	2	7	6	4	6	6	6	2	0	0	1	42	\$5,160	\$122.86
Environmental Analysis & Reports	116	3	3	14	12	15	17	14	6	6	17	6	3	116	\$14,741	\$127.08
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
<b>Total Staff Hours</b>	536	45	16	61	63	68	61	58	50	27	36	25	26	536		
<b>Total Staff Cost</b>		\$8,910.00	\$3,504.00	\$10,126.00	\$9,765.00	\$7,276.00	\$7,320.00	\$5,162.00	\$4,800.00	\$2,079.00	\$5,220.00	\$3,000.00	\$1,664.00		<b>\$68,826.00</b>	<b>\$128.41</b>

Check = \$68,826.00

Survey Field Days by Subconsultant

4 - Person Crew:

Notes:

1. This sheet to be used by Prime Consultant to calculate the Grand Total fee.
2. Manually enter fee from each subconsultant. Unused subconsultant rows may be hidden.

<b>SALARY RELATED COSTS:</b>			<b>\$68,826.00</b>
OVERHEAD:	0.00%		\$0.00
OPERATING MARGIN:	0.00%		\$0.00
FCCM (Facilities Capital Cost Money):	0.00%		\$0.00
EXPENSES:	0.00%		\$0.00
<b>SALARY RELATED SUBTOTAL:</b>			<b>\$68,826.00</b>
Survey (Field - if by Prime)	0.00	4-man crew day \$ - / day	\$0.00
<b>SUBTOTAL - PRIME</b>			<b>\$68,826.00</b>
Subconsultant: ACL Inc. (ACL)			\$0.00
Subconsultant: KB Environmental, Inc. (KBE)			\$0.00
Subconsultant: Tierra, Inc.			\$0.00
Subconsultant: Intera, Inc.			\$0.00
Subconsultant: Sub 5			\$0.00
Subconsultant: Adams Traffic			\$0.00
Subconsultant: Sub 7			\$0.00
Subconsultant: Sub 8			\$0.00
Subconsultant: Sub 9			\$0.00
Subconsultant: Sub 10			\$0.00
Subconsultant: Sub 11			\$0.00
Subconsultant: Sub 12			\$0.00
<b>SUBTOTAL ESTIMATED FEE:</b>			<b>\$68,826.00</b>
Optional Services			\$0.00
<b>GRAND TOTAL ESTIMATED FEE:</b>			<b>\$68,826.00</b>

## PUBLIC INVOLVEMENT HDR OS

Estimator:	(HDR) Marlin Register/Debra Hempel/Matt Wey					San Martin Blvd. Over Riviera Bay Bridge Repl. PD&E
001036A						
Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
Task 6	Public Involvement					
a.	Public Involvement Program *	L.S.	1	0	0	
b.	Public Involvement Data Collection	L.S.	1	0	0	
c.	Notice of Intent *	L.S.	1	0	0	
d.	Advance Notification *	L.S.	1	0	0	
e.	Scheduled Public Meetings	Item total		---->	0	
	Scoping Meeting					
	Set Up/Scoping Package *	L.S.			0	
	Participation	L.S.			0	
	Elected Officials/Agency Kickoff Meeting					
	Set Up *	L.S.	1	0	0	
	Participation and notes	L.S.	1	0	0	
	Public Kickoff Meeting					
	Set up *	L.S.			0	
	Participation and notes	L.S.			0	
	Corridor or other Public Meeting					
	Set up *	L.S.			0	
	Participation and notes	L.S.			0	

## PUBLIC INVOLVEMENT HDR OS

Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
	Alternatives Public Meeting					
	Set up *	L.S.	1	0	0	
	Participation and notes	L.S.	1	0	0	
f.	Other (Unscheduled) Public and Agency Meetings	per meeting	4	13	52	4 meetings x 2 staff attending x (2 hrs meeting + 1.5 hrs travel time) + note preparation and distribution (6hrs). (At discretion of County)
g.	Public Hearing	Item total	----->		220	OPTIONAL SERVICE
	Invitation / notification / setup / follow-up *	L.S.	1	200	200	Preparation of invitations (6 hrs), advertisements (6 hrs), press releases (6 hrs), presentation (42 hrs), handouts (16 hrs), exhibits (50 hrs), site selection (4 hrs), set up (10 hrs), and County staff briefings (24 hrs), written responses to comments received (12 hrs), legal transcript of the Public Hearing proceedings with errata sheet and certification by PM (24 hrs)
	Participation	L.S.	1	20	20	4 staff attending x (2 hrs meeting + 1.5 hrs travel time) + note preparation and distribution (6hrs).
h.	Location and Design Concept Acceptance	L.S.	1	0	0	
i.	Special Public Involvement Requirements	Item total	----->		88	
	Waterfront Property Owner Vessel Survey	L.S.	1	48	48	OPTIONAL SERVICE: Prepare and distribute a navigation survey (12 hrs). Compile responses and produce report (12 hrs). Attempt to follow up with waterfront property owners who do not respond to the survey by visiting the residence and if needed leave a flyer requesting a response (prepare flyer 8 hrs / door to door follow-up 2 staff x 8 hrs).
	General Public Correspondence *	L.S.	1	40	40	OPTIONAL SERVICE: Comments and Coordination Report (40 hrs)
	News Letters, Preparation / Distribution *	L.S.	1	0	0	
	Web Site Development *	L.S.	1	0	0	
	Web Site Maintenance *	per month	0	0	0	
	Videos, Renderings, etc. *	L.S.	1	0	0	
		Sub total	----->		360	
	*subject to QC	% QC				
1.10	Quality Assurance / Quality Control	LS	5 %		18	
	<b>PUBLIC INVOLVEMENT TOTAL HOURS</b>		----->		<b>378</b>	

## ENGINEERING ANAL HDR OS

Estimator:	(HDR) Marlin Register/Matt Wey					San Martin Blvd. Over Riviera Bay Bridge Repl. PD&E 001036A
Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
	ENGINEERING ANALYSIS and REPORTS					
Task 1	DATA COLLECTION					
a.	Field Review	L.S.	1	0	0	
b.	Aerial Photography	L.S.	1	0	0	
c.	Survey Coordination	L.S.	1	0	0	
d.	Existing Roadway Characteristics	L.S.	1	0	0	
e.	Existing Structures Characteristics	per structure	1	0	0	
f.	Traffic Data	L.S.	1	0	0	
g.	Crash Data	L.S.	1	0	0	
h.	Tax Map GIS Data	L.S.	1	0	0	
i.	Utilities and Railroads	per agency	4	0	0	
j.	Transportation Plans	L.S.	1	0	0	
k.	Soils	L.S.	1	0	0	
l.	Base map *	per sheet	1	0	0	
	NEEDS					
m.	Safety *	L.S.	1	0	0	
n.	Analysis of Existing Conditions *	L.S.	1	0	0	
o.	Purpose and Need Statement *	L.S.	1	0	0	
Task 2	DESIGN ANALYSIS					
a.	Corridor Analysis *	L.S.	1	0	0	

## ENGINEERING ANAL HDR OS

Task No.	Task	Units	# of Units	HOURS	Comments
a.	Traffic Analysis	Item	total	----->	0
	Design Traffic *	L.S.	1	0	0
	Traffic Operational Analysis *	L.S.	1	0	0
	Design Traffic Documentation *	L.S.	1	0	0
b.	Typical Section Analysis *	per typ section	0	0	0
c.	Roadway Design Alternatives *	L.S.	1	0	0
d.	Prepare Concept Plans *	per sheet	15	0	0
e.	Drainage and Floodplain Analyses	Item	total	----->	0
	Drainage and Floodplain Analyses and Pond Siting Report *	per basin	1	0	0
	Location Hydraulic Report *	L.S.	1	0	0
f.	Structures *	per structure	1	0	0
g.	Access Management *	L.S.	1	0	0
h.	Multi-modal Accommodations *	per agency	0	0	0
i.	Maintenance of Traffic Analysis *	L.S.	1	0	0
j.	Geotechnical Coordination	L.S.	1	0	0
	Intelligent Transportation Systems *	L.S.	1	0	0
k.	Utilities and Railroads *	L.S.	1	0	0
l.	ADA Features	L.S.	1	0	0
	COMPARATIVE ANALYSIS OF ALTERNATIVES				
a.	Comparative Analysis and Evaluation Matrix *	L.S.	1	0	0
b.	Selection of Alternative(s) *	L.S.	1	0	0



## ENGINEERING ANAL HDR OS

Task No.	Task	Units	# of Units	Hours/Unit	HOURS	Comments
c.	Conceptual Design Plans (preferred) *	per sheet	0	0	0	
	Identify Construction Segments *	L.S.	1	0	0	
	Value Engineering	per study	0	0	0	
d.	Construction Cost Estimates *	L.S.	1	0	0	
e.	Right of Way Cost Estimates	Item total		----->	40	
	Notes and Maps for Estimate *	L.S.			16	Prepare r/w maps and exhibits for estimates
	Preparation Cost Estimate *	L.S.			24	Prepare r/w cost estimates for 6 parcels @ 4 hrs ea.
f.	Typical Section Package *	L.S.	1	0	0	
g.	Design Exceptions and Variations *	L.S.	1	0	0	
h.	Project Development Summary Report	Item total		----->	0	
	First Draft *	L.S.	1	0	0	
	Second Draft *	L.S.	1	0	0	
	Final *	L.S.	1	0	0	
		Sub total		----->	40	
	*Subject to QC		% QC			
2.40	Quality Control	L.S.	5 %		2	
	<b>ENGINEERING TOTAL HOURS</b>			----->	<b>42</b>	

ENVIRONMENTAL ANALYSIS AND REPORTS

Estimator: (HDR) Matt Wey/Chip Messenkopf		San Martin Blvd. Over Riviera Bay bridge Repl. PD&E				
		001036A				
Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
Task 4	ENVIRONMENTAL ANALYSIS and REPORTS					
	SOCIAL AND CULTURAL IMPACTS					
a.	Land Use Changes *	L.S.	1	0	0	
b.	Social *	L.S.	1	0	0	
c.	Economic *	L.S.	1	0	0	
d.	Mobility *	L.S.	1	0	0	
e.	Aesthetics *	L.S.	1	0	0	
f.	Relocation Potential	Item total		----->	0	
	Concept Stage Relocation Plan *	L.S.	0			
	Review and Impact Determination *	L.S.	0			
g.	Archaeological and Historical Resources	Item total		----->	0	
	Archaeology	# holes	0	0	0	
	Historic Sites	# sites	0	0	0	
	Florida Master Site Files *	L.S.	0			
	Pond Site Addendum *	L.S.	0			
	Cultural Resource Assessment Survey *	L.S.	0			
	Determination of Eligibility *	each resource	0	0	0	
	Case Study Report *	L.S.	0			
	Memorandum of Agreement *	L.S.	0			
h.	Section 4(f)	Item total		----->	60	
	Section 4 (f) Applicability *	L.S.	40			
		Prepare Section 4(f) LCA if required by FHWA.				



ENVIRONMENTAL ANALYSIS AND REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
	Section 4 (f) Evaluation *	L.S.			20	
	NATURAL IMPACTS					
i.	Wetlands and Essential Fish Habitat	Item total		→	0	
	Data Collection - Wetlands	L.S.	1	0	0	
	Data Collection - Essential Fish Habitat	L.S.	1	0	0	
	Conceptual Mitigation Plan *	L.S.	1	0	0	
	Analysis & Report - Essential Fish Habitat *	L.S.	1	0	0	
	Evaluation & Report - Wetlands *	L.S.	1	0	0	
j.	Water Quality *	L.S.	1	0	0	
k.	Special Designations *	L.S.	1	0	0	
l.	Wildlife and Habitat	Item total		→	0	
	Data collection	L.S.	1	0	0	
	Analysis and report *	L.S.	1	0	0	
	Conservation Measures and Mitigation Plan *	L.S.	1	0	0	
m.	Identify Permit Conditions *	L.S.	1	0	0	
n.	Farmlands *	L.S.	1	0	0	N/A

ENVIRONMENTAL ANALYSIS AND REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
	PHYSICAL IMPACTS					
o.	Noise	Item	total	----->	0	
	Data collection, and field work	L.S.			0	
	Analysis *	L.S.			0	
	Report *	L.S.			0	
p.	Air Quality	Item	total	----->	0	
	Screening Analysis *	L.S.			0	
	Air Quality Modeling *	L.S.			0	
q.	Construction Impact Analysis *	L.S.	1	0	0	
r.	Contamination	Item	total	----->	0	
	Field Data	L.S.			0	
	Analysis/Report *	L.S.			0	
Task 5	ENVIRONMENTAL REPORTS					
a.	Class of Action Determination (State Environmental Impact Report) *	L.S.	1	50	50	Optional Service: Provide Assistance to County for ETDM screening.
b.	Environmental Assessment *	L.S.	1	0	0	
c.	FONSI *	L.S.	1	0	0	
d.	Draft EIS *	L.S.	1	0	0	
e.	Final EIS *	L.S.	1	0	0	
		Sub total		----->	110	
	* Subject to QC		% QC			
3.24	Quality Control	L.S.	5 %		6	
	<b>ENVIRONMENTAL TOTAL HOURS</b>			----->	<b>116</b>	

13.

Fee and Staff Hours:  
HDR Trail Evaluation  
Component

**ESTIMATE OF WORK EFFORT AND COST**  
**Trail Evaluation Component**

Name of Project: San Martin Blvd. Bridge Replacement PD&E - Trail Evaluation Component  
 County: Pinellas  
 PID No.: 0001036A  
 FAP No.: NA

Consultant Name: HDR Engineering, Inc.  
 Consultant No.:  
 Date: 6/20/2014  
 Estimator: Marlin Register/Chip Messenkopf

Staff Classification	Total Staff Hours From "SH Summary"	Project Manager	Chief Engineer	Senior Planner	Senior Engineer	Planner	Project Engineer	Engineering Intern	Designer	Engineering Technician	Chief Scientist	Senior Scientist	Secretary/Clerical	SH By Activity	Salary Cost By Activity	Average Rate Per Task
1. Roadway Analysis and Plans	157	8	5	0	35	0	47	31	16	15	0	0	0	157	\$19,194	\$122.25
2. Drainage Analysis	128	0	6	0	38	0	38	19	13	14	0	0	0	128	\$15,781	\$123.29
3. Environmental Permits, Compliance & Clearances	125	0	0	0	0	0	0	0	0	12	88	25	0	125	\$16,684	\$133.47
4. Alternatives Public Meeting Graphics	37	4	0	0	6	0	11	6	4	6	0	0	0	37	\$4,422	\$119.51
<b>Total Staff Hours</b>	<b>447</b>	<b>12</b>	<b>11</b>	<b>0</b>	<b>79</b>	<b>0</b>	<b>96</b>	<b>56</b>	<b>33</b>	<b>47</b>	<b>88</b>	<b>25</b>	<b>0</b>	<b>447</b>		
<b>Total Staff Cost</b>		<b>\$2,376.00</b>	<b>\$2,409.00</b>	<b>\$0.00</b>	<b>\$12,245.00</b>	<b>\$0.00</b>	<b>\$11,520.00</b>	<b>\$4,984.00</b>	<b>\$3,168.00</b>	<b>\$3,619.00</b>	<b>\$12,760.00</b>	<b>\$3,000.00</b>	<b>\$0.00</b>		<b>\$56,081.00</b>	<b>\$125.46</b>

Check = \$56,081.00

Survey Field Days by Subconsultant  
 4 - Person Crew:

**Notes:**

1. This sheet to be used by Prime Consultant to calculate the Grand Total fee.
2. Manually enter fee from each subconsultant. Unused subconsultant rows may be hidden.

SALARY RELATED COSTS:				
OVERHEAD:		0%		\$0.00
OPERATING MARGIN:		0%		\$0.00
FCCM (Facilities Capital Cost Money):		0.00%		\$0.00
EXPENSES:		0.00%		\$0.00
Survey (Field - if by Prime)	0	4-man crew	days @	\$ - day
<b>SUBTOTAL ESTIMATED FEE:</b>				<b>\$56,081.00</b>
Subconsultant: Sub 1				\$0.00
Subconsultant: Sub 2				\$0.00
Subconsultant: Sub 3				\$0.00
Subconsultant: Sub 4				\$0.00
Subconsultant: Sub 5				\$0.00
Subconsultant: Sub 6				\$0.00
Subconsultant: Sub 7				\$0.00
Subconsultant: Sub 8				\$0.00
Subconsultant: Sub 9				\$0.00
Subconsultant: Sub 10				\$0.00
Subconsultant: Sub 11				\$0.00
Subconsultant: Sub 12				\$0.00
<b>SUBTOTAL ESTIMATED FEE:</b>				<b>\$56,081.00</b>
Geotechnical Field and Lab Testing				\$0.00
<b>SUBTOTAL ESTIMATED FEE:</b>				<b>\$56,081.00</b>
Optional Services				\$0.00
<b>GRAND TOTAL ESTIMATED FEE:</b>				<b>\$56,081.00</b>

### Project Activity 1: Roadway Analysis and Plans

Estimator: (HDR) Marlin Register

San Martin Bridge Replacment  
TBD

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
1.1	Design Documentation	LS	1	10	10	40 hours/report*0.25=10 hrs.
1.2	Typical Section Analysis	LS	1	24	24	3 typical sections @ 8 hrs/ea
1.3	Horizontal and Vertical Alignment Analysis	LS	1	72	72	Mid range 250 hrs/mile @ 0.35 miles*0.30*3 alignments+10 hrs for final line and grade of prefered alternative; includes review of connections for North Bay Trail, Weedon Island, Duke Energy Trail, Savora Trail and Friendship Trail
1.5	Utility Impact Analysis	LS	1	6	6	3 3 hrs for coordination with UAO's; 3 hours analysis
1.6	Cost Estimates	LS	1	16	16	3 preliminary alignments @ 4 hours for preliminary + 4 hours final preferred.
1.7	Preliminary Alignment Workshop	LS	1	14	14	Plotting and preparation of graphics; final documentation plus meeting attendance.
<b>Roadway Analysis Technical Subtotal</b>					<b>142</b>	
1.8	Field Reviews	LS	1	0	0	N/A; covered under PD&E.
1.9	Technical Meetings	LS	1	4	4	Meetings are listed below
1.10	Quality Assurance/Quality Control	LS	%	3%	4	
1.1	Supervision	LS	%	3%	4	
<b>Roadway Analysis Nontechnical Subtotal</b>					<b>12</b>	
1.12	Coordination	LS	%	2%	3	
<b>1. Roadway Analysis and Plans Total</b>					<b>157</b>	

#### Technical Meetings

Kickoff	EA	0	0	0	
Utility Coordination	EA	0	0	0	
Other Meetings	EA	1	4	4	FDOT to discuss signalized crossing of Gandy.
<b>Subtotal Technical Meetings</b>				<b>4</b>	
Progress Meetings	EA	0	0	0	
<b>Total Meetings</b>				<b>4</b>	

Carries to 4.8

**Note: Project Manager attendance at progress, phase and field review meetings are manually entered on General Task 3**



### Project Activity 6: Drainage Analysis

Estimator: (HDR) Carlos Lopez

San Martin Bridge Replacment  
TBD

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
2.1a	Drainage Conceptual Analysis (conveyance system)	EA	1	24	24	Conceptual drainage conveyance evaluation associated with the typical sections and cost estimate of drainage systems for the different typical sections. This includes conveyance requirements should a curb and gutter system be proposed.
2.1b	Drainage Conceptual Analysis (stormwater management)		1	48	48	Identify stormwater management needs for the project based on input from the water management district. Assess feasibility of addressing SWM within the corridor R/W and potential offsite pond locations, should this be required. Develop approximate construction costs of anticipated SWM facilities. Assume three basins @ 16 hrs ea..
2.3	Permit Review		1	8	8	Review FDOT and SWFWMD permit information.
2.4	Drainage Design Documentation		1	24	24	Includes tech memo write-up and graphics.
<b>Drainage Analysis Technical Subtotal</b>					<b>104</b>	
2.7	Field Reviews	LS	1	4	4	Field review 2 people 4 hrs ea. = 8 hrs,
2.8	Technical Meetings	LS	1	8	8	Meetings are listed below
2.9	Quality Assurance/Quality Control	LS	%	5%	5	
2.10	Supervision	LS	%	3%	3	
<b>Drainage Analysis Nontechnical Subtotal</b>					<b>20</b>	
2.11	Coordination	LS	%	3%	4	
<b>6. Drainage Analysis Total</b>					<b>128</b>	

### Project Activity 6: Drainage Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
<b>Technical Meetings</b>						
	Pinellas County staff	EA	1	4	4	
	Public hearing	EA	1	4	4	
	Agency	EA	0	0	0	SWFWMD
	Other Meetings	EA	0	0	0	City Council, BOCC
	<b>Subtotal Technical Meetings</b>				<b>8</b>	Pinellas County
	Progress Meetings (if required by FDOT)	EA	0	0	0	
	<b>Total Meetings</b>				<b>8</b>	

Carries to 6.20

**Note: Project Manager attendance at progress, phase and field review meetings are manually entered on General Task 3**

### Project Activity 3: Environmental Permits, Compliance and Clearances

Estimator: (HDR) Chip Messenkopf  
Updated 080818

San Martin Bridge Replacment  
TBD

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
3.1	Preliminary Project Research	LS	1	24	24	Obtain high-resolution aerial photography, soil survey data, topographic data to establish protocols for field reconnaissance.
3.2	Establish Wetland Jurisdictional Lines and Assessments	LS	1	40	40	2 days for 1 person to ground-truth wetlands and surface waters on both sides of roadway. Task includes documentation, UMAM assessments and preparation of aerial maps for report.
3.3	Environmental Documentation in Design Report	LS	1	48	48	Incorporate wetland findings, impact assessment, UMAM assessments, mitigation strategies, and preliminary mitigation cost estimates into Design Documentation Report.
<b>Environmental Permits, Compliance and Clearances Technical Subtotal</b>					<b>112</b>	
3.4	Technical Meetings	LS	1	0	0	Meetings are listed below
3.5	Quality Assurance/Quality Control	LS	%	5%	6	
3.6	Supervision	LS	%	3%	3	
<b>Environmental Permits, Compliance and Clearances Nontechnical Subtotal</b>					<b>9</b>	
8.19	Coordination	LS	%	3%	4	
<b>3. Environmental Permits, Compliance and Clearances Total</b>					<b>125</b>	

#### **Technical Meetings**

WMD	EA	0	0	0
ACOE	EA	0	0	0
USCG	EA	0	0	0
USFWS	EA	0	0	0
FFWCC	EA	0	0	0
FDOT	EA	0	0	0
Other Meetings	EA	0	0	0
<b>Subtotal Technical Meetings</b>				<b>0</b>

Progress Meetings	EA	0	0	0
Phase Review Meetings	EA	0	0	0

**Total Meetings** **0**

Carries to 8.16

**Note: Project Manager attendance at progress, phase and field review meetings are manually entered on General Task 3**



### Project Activity 4: Alternative Public Meeting Graphics

Estimator: (HDR) Marlin Register


San Martin Bridge Replacment  
TBD

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
	<b>General Requirement</b>					
4.1	Workshop Graphics	LS	1	34	34	Typical sections (1 board at 6 hrs each, Plan view graphic @ 24 hours, Trail Connectivity Graphic at 4 hrs)
<b>Structures Subtotal</b>					<b>34</b>	
4.2	Quality Assurance/Quality Control	LS	%	5%	2	
4.3	Supervision	LS	%	3%	1	
<b>4. Alternative Public Meeting Graphics</b>					<b>37</b>	



14.

Fee and Staff Hours:  
Archaeological  
Consultants, Inc.



# ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: San Martin Blvd. Over Riviera Bay Bridge Repl. PD&E  
 County: Pinellas  
 FPN: 001036A  
 FAP No.: TBD

Consult. Name: Archaeological Consultants, Inc. (ACI)  
 Consult. No. B14027  
 Date: 6/20/2014  
 Estimator: Joan Deming, RPA

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Project Manager	Principal Investigator/ Chief Scientist	Architectural Historian/ Scientist	Project/Senior Archaeologist	Design Technician/ GIS Specialist	Technician/ Archaeologist	Clerical	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		\$164.89	\$164.89	\$59.96	\$77.94	\$57.53	\$48.15	\$54.71	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Public Involvement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Engineering Analysis & Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Environmental Analysis & Reports	105	7	11	33	31	8	8	7	0	0	0	0	0	105	\$8,591	\$81.82
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
<b>Total Staff Hours</b>	105	7	11	33	31	8	8	7	0	0	0	0	0	105		
<b>Total Staff Cost</b>		\$1,154.23	\$1,813.79	\$1,978.68	\$2,416.14	\$460.24	\$385.20	\$382.97	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		<b>\$8,591.25</b>	<b>\$81.82</b>

Check = \$8,591.25

Note:

1. This sheet to be used by Subconsultant to calculate its fee.

SALARY RELATED COSTS:		\$8,591.25
OVERHEAD:	0.00%	\$0.00
OPERATING MARGIN:	0.00%	\$0.00
FCCM (Facilities Capital Cost Money):	0.00%	\$0.00
EXPENSES:	0.00%	\$0.00
<b>SALARY RELATED SUBTOTAL:</b>		<b>\$8,591.25</b>
Survey (Field - if by Sub)	0.00 4-man crew day: \$ - / day	\$0.00
<b>SUBTOTAL - SUBCONSULTANT</b>		<b>\$8,591.25</b>
Optional Services		\$0.00
<b>SUBCONSULTANT TOTAL ESTIMATED FEE:</b>		<b>\$8,591.25</b>

ENVIRONMENTAL ANALYSIS AND REPORTS

Estimator:	(ACI) Joan Deming, RPA					San Martin Blvd. Over Riviera Bay Bridge Repl. PD&E 001036A
Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
3.0	ENVIRONMENTAL ANALYSIS and REPORTS					
	SOCIAL AND CULTURAL IMPACTS					
3.1	Land Use Changes *	L.S.	1	0	0	
3.2	Social *	L.S.	1	0	0	
3.3	Economic *	L.S.	1	0	0	
3.4	Mobility *	L.S.	1	0	0	
3.5	Aesthetics *	L.S.	1	0	0	
3.6	Relocation Potential	Item	total	→	0	
	Concept Stage Relocation Plan *	L.S.			0	
	Review and Impact Determination *	L.S.			0	
3.7	Archaeological and Historical Resources	Item	total	→	100	
	Archaeology	# holes	0	0	0	
	Historic Sites	# sites	0	0	0	
	Florida Master Site Files *	L.S.			0	
	Pond Site Addendum *	L.S.			0	
	Cultural Resource Assessment Survey *	L.S.	1	100	100	
	Determination of Eligibility *	each resource	0	0	0	
	Case Study Report *	L.S.			0	
	Memorandum of Agreement *	L.S.			0	

ENVIRONMENTAL ANALYSIS AND REPORTS

Task No.	Task	Units	# of Months	Hours / Unit	HOURS	Comments
3.8	Section 4(f)	Item	total	→	0	
	Section 4 (f) Applicability *	L.S.			0	
	Section 4 (f) Evaluation *	L.S.			0	
	NATURA. IMPACTS					
3.9	Wetlands and Essential Fish Habitat	Item	total	→	0	
	Data Collection - Wetlands	L.S.	0	0	0	
	Data Collection - Essential Fish Habitat	L.S.	0	0	0	
	Conceptual Mitigation Plan *	L.S.	0	0	0	
	Analysis & Report - Essential Fish Habitat *	L.S.	0	0	0	
	Evaluation & Report - Wetlands *	L.S.	0	0	0	
3.10	Water Quality *	L.S.	1	0	0	
3.11	Special Designations *	L.S.	1	0	0	
3.12	Wildlife and Habitat	Item	total	→	0	
	Data collection	L.S.	0	0	0	
	Analysis and report *	L.S.	0	0	0	
	Conservation Measures and Mitigation Plan *	L.S.	0	0	0	
3.13	Identify Permit Conditions *	L.S.	1	0	0	
3.14	Farmlands *	L.S.	1	0	0	
	PHYSICAL IMPACTS					
3.15	Noise	Item	total	→	0	
	Data collection, and field work	L.S.			0	
	Analysis *	L.S.			0	
	Report *	L.S.			0	

ENVIRONMENTAL ANALYSIS AND REPORTS


Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
3.16	Air Quality	Item total		→	0	
	Screening Analysis *	L.S.			0	
	Air Quality Modeling *	L.S.			0	
3.17	Construction Impact Analysis *	L.S.	1	0	0	
3.18	Contamination	Item total		→	0	
	Field Data	L.S.			0	
	Analysis/Report *	L.S.			0	
	ENVIRONMENTAL REPORTS					
3.19	Class of Action Determination (State Environmental Impact Report) *	L.S.	1	0	0	
3.20	Environmental Assessment *	L.S.	1	0	0	
3.21	FONSI *	L.S.	1	0	0	
3.22	Draft EIS *	L.S.	1	0	0	
3.23	Final EIS *	L.S.	1	0	0	
		Sub total		→	100	
	* Subject to QC	% QC				
3.24	Quality Control	L.S.	5	%	5	
	ENVIRONMENTAL TOTAL HOURS			→	105	



15.

Fee and Staff Hours:

KB Environmental  
Sciences, Inc.



# ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: San Martin Blvd. Over Riviera Bay Bridge Repl. PD&E  
 County: Pinellas  
 FPN: 001036A  
 FAP No.: TBD

Consult. Name: KB Environmental Sciences, Inc.  
 Consult. No. enter consultants proj. number  
 Date: 6/20/2014  
 Estimator: Carol Fowler

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Chief Scientist	Scientist	Technician	Staff Classification 4	Staff Classification 5	Staff Classification 6	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		\$176.12	\$84.18	\$34.25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Public Involvement	8	0	8	0	0	0	0	0	0	0	0	0	0	8	\$673	\$84.18
Engineering Analysis & Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Environmental Analysis & Reports	261	78	170	13	0	0	0	0	0	0	0	0	0	261	\$28,493	\$109.17
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
<b>Total Staff Hours</b>	269	78	178	13	0	0	0	0	0	0	0	0	0	269		
<b>Total Staff Cost</b>		\$13,737.36	\$14,984.04	\$445.38	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$29,166.78	\$108.43

Check = \$29,166.78

Note:

1. This sheet to be used by Subconsultant to calculate its fee.

SALARY RELATED COSTS:		\$29,166.78
OVERHEAD:	0.00%	\$0.00
OPERATING MARGIN:	0.00%	\$0.00
FCCM (Facilities Capital Cost Money):	0.00%	\$0.00
EXPENSES:	0.00%	\$0.00
<b>SALARY RELATED SUBTOTAL:</b>		<b>\$29,166.78</b>
Survey (Field - if by Sub)	0.00 4-man crew day: \$ - / day	\$0.00
<b>SUBTOTAL - SUBCONSULTANT</b>		<b>\$29,166.78</b>
Optional Services		\$0.00
<b>SUBCONSULTANT TOTAL ESTIMATED FEE:</b>		<b>\$29,166.78</b>



## PUBLIC INVOLVEMENT - KBE

Estimator:	Name						San Martin Blvd. Over Riviera Bay Bridge Repl. PD&E
							001036A
Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments	
1.0	Public Involvement						
1.1	Public Involvement Program *	L.S.	1	0	0		
1.2	Public Involvement Data Collection	L.S.	1	0	0		
1.3	Notice of Intent *	L.S.	1	0	0		
1.4	Advance Notification *	L.S.	1	0	0		
1.5	Scheduled Public Meetings	Item total	—>		4		
	Scoping Meeting						
	Set Up/Scoping Package *	L.S.	0				
	Participation	L.S.	0				
	Elected Officials/Agency Kickoff Meeting						
	Set Up *	L.S.	1	0	0		
	Participation and notes	L.S.	1	0	0		
	Public Kickoff Meeting						
	Set up *	L.S.	0				
	Participation and notes	L.S.	0				
	Corridor or other Public Meeting						
	Set up *	L.S.	0				
	Participation and notes	L.S.	0				

## PUBLIC INVOLVEMENT - KBE

Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
	Alternatives Public Meeting					
	Set up *	L.S.	1	0	0	
	Participation and notes	L.S.	1	4	4	1 staff member x 2 hours to prepare x 2 hour meeting
1.6	Other (Unscheduled) Public and Agency Meetings	per meeting	0	0	0	
1.7	Public Hearing	Item	total	—>	4	
	Invitation / notification / setup / follow-up *	L.S.	1	0	0	
	Participation	L.S.	1	4	4	1 staff member x 2 hours to prepare x 2 hour meeting
1.8	Location and Design Concept Acceptance	L.S.	1	0	0	
1.9	Special Public Involvement Requirements	Item	total	—>	0	
	Waterfront Property Owner Vessel Survey	L.S.	0	0	0	
	General Public Correspondence *	L.S.	0	0	0	
	News Letters, Preparation / Distribution *	L.S.	0	0	0	
	Web Site Development *	L.S.	0	0	0	
	Web Site Maintenance *	per month	0	0	0	
	Videos, Renderings, etc. *	L.S.			0	
		Sub total	total	—>	8	
	*subject to QC		% QC			
1.10	Quality Assurance / Quality Control	LS	0	%	0	
	<b>PUBLIC INVOLVEMENT TOTAL HOURS</b>			—>	8	

ENVIRONMENTAL ANALYSIS AND REPORTS

Estimator: (KBE) Carrol Fowler			San Martin Blvd. Over Riviera Bay Bridge Repl. PD&E 001036A			
Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
3.0	ENVIRONMENTAL ANALYSIS and REPORTS					
	SOCIAL AND CULTURAL IMPACTS					
3.1	Land Use Changes *	L.S.	1	0	0	
3.2	Social *	L.S.	1	0	0	
3.3	Economic *	L.S.	1	0	0	
3.4	Mobility *	L.S.	1	0	0	
3.5	Aesthetics *	L.S.	1	0	0	
3.6	Relocation Potential	Item	total	——>	0	
	Concept Stage Relocation Plan *	L.S.	0			
	Review and Impact Determination *	L.S.	0			
3.7	Archaeological and Historical Resources	Item	total	——>	0	
	Archaeology	# holes	0	0	0	
	Historic Sites	# sites	0	0	0	
	Florida Master Site Files *	L.S.	0			
	Pond Site Addendum *	L.S.	0			
	Cultural Resource Assessment Survey *	L.S.	1	0	0	
	Determination of Eligibility *	each resource	0	0	0	
	Case Study Report *	L.S.	0			
	Memorandum of Agreement *	L.S.	0			

ENVIRONMENTAL ANALYSIS AND REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
3.8	Section 4(f)	Item	total	→	0	
	Section 4 (f) Applicability *	L.S.			0	
	Section 4 (f) Evaluation *	L.S.			0	
	NATURAL IMPACTS					
3.9	Wetlands and Essential Fish Habitat	Item	total	→	0	
	Data Collection - Wetlands	L.S.	0	0	0	
	Data Collection - Essential Fish Habitat	L.S.	0	0	0	
	Conceptual Mitigation Plan *	L.S.	0	0	0	
	Analysis & Report - Essential Fish Habitat *	L.S.	0	0	0	
	Evaluation & Report - Wetlands *	L.S.	0	0	0	
3.10	Water Quality *	L.S.	1	0	0	
3.11	Special Designations *	L.S.	1	0	0	
3.12	Wildlife and Habitat	Item	total	→	0	
	Data collection	L.S.	0	0	0	
	Analysis and report *	L.S.	0	0	0	
	Conservation Measures and Mitigation Plan *	L.S.	0	0	0	
3.13	Identify Permit Conditions *	L.S.	1	0	0	
3.14	Farmlands *	L.S.	1	0	0	
	PHYSICAL IMPACTS					
3.15	Noise	Item	total	→	249	
	Data collection, and field work	L.S.	1	25	25	Validation (6 hrs x 2 staff members x 2 measurement sites) + 0.5 hrs travel time

ENVIRONMENTAL ANALYSIS AND REPORTS


Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
	Analysis *	L.S.	1	144	144	Six noise sensitive areas x 24 hrs
	Report *	L.S.	1	80	80	Two draft and one final report
3.16	Air Quality	Item	total	→	0	
	Screening Analysis *	L.S.	1	0	0	
	Air Quality Modeling *	L.S.	1	0	0	
3.17	Construction Impact Analysis *	L.S.	1	0	0	
3.18	Contamination	Item	total	→	0	
	Field Data	L.S.			0	
	Analysis/Report *	L.S.			0	
	ENVIRONMENTAL REPORTS					
3.19	Class of Action Determination (State Environmental Impact Report) *	L.S.	1	0	0	
3.20	Environmental Assessment *	L.S.	1	0	0	
3.21	FONSI *	L.S.	1	0	0	
3.22	Draft EIS *	L.S.	1	0	0	
3.23	Final EIS *	L.S.	1	0	0	
		Sub total	→		249	
	* Subject to QC	% QC				
3.24	Quality Control	L.S.	5 %		12	
	ENVIRONMENTAL TOTAL HOURS		→		261	



16.

Fee and Staff Hours:

Tierra, Inc.



# ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: San Martin Blvd. Over Riviera Bay Bridge Repl. PD&E  
 County: Pinellas  
 FPN: 001036A  
 FAP No.: TBD

Consult. Name: Tierra  
 Consult. No. 6511-14-107  
 Date: 10/3/2014  
 Estimator: Larry Moore

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Project Manager	Senior Project Engineer	Senior Specialist	Project Engineer	Engineering Intern	Computer Technician	Senior Engineering Technician	Engineering Technician	Secretary / Clerical	Senior Scientist	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		\$159.00	\$129.00	\$101.00	\$109.00	\$90.00	\$80.00	\$67.00	\$57.00	\$52.00	\$76.00	\$0.00	\$0.00			
Public Involvement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Engineering Analysis & Report	100	10	15	0	30	24	16	0	0	5	0	0	0	100	\$10,495	\$104.95
Environmental Analysis & Reports	80	12	0	16	0	0	8	0	0	4	40	0	0	80	\$7,412	\$92.65
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
<b>Total Staff Hours</b>	180	22	15	16	30	24	24	0	0	9	40	0	0	180		
<b>Total Staff Cost</b>		\$3,498.00	\$1,935.00	\$1,616.00	\$3,270.00	\$2,160.00	\$1,920.00	\$0.00	\$0.00	\$468.00	\$3,040.00	\$0.00	\$0.00		<b>\$17,907.00</b>	<b>\$99.48</b>

Check = \$17,907.00

SALARY RELATED COSTS:		\$17,907.00
OVERHEAD:	0.00%	\$0.00
OPERATING MARGIN:	0.00%	\$0.00
FCCM (Facilities Capital Cost Money):	0.00%	\$0.00
EXPENSES:	0.00%	\$0.00
<b>SALARY RELATED SUBTOTAL:</b>		<b>\$17,907.00</b>
Environmental Field & Laboratory fees		\$2,038.00
Geotechnical Field and Lab Testing		\$3,813.46
<b>SUBTOTAL - SUBCONSULTANT</b>		<b>\$23,758.46</b>
Optional Services		\$0.00
<b>SUBCONSULTANT TOTAL ESTIMATED FEE:</b>		<b>\$23,758.46</b>

Note:

1. This sheet to be used by Subconsultant to calculate its fee.



ENG. ANAL. AND REPORT - TIERRA

Estimator:	(Tierra) Larry Moore					San Martin Blvd. Over Riviera Bay Bridge Repl. PD&E 001036A
Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
	ENGINEERING ANALYSIS and REPORTS					
Task 1	DATA COLLECTION					
a.	Field Review	L.S.	1	0	0	
b.	Aerial Photography	L.S.	1	0	0	
c.	Survey Coordination	L.S.	1	0	0	
d.	Existing Roadway Characteristics	L.S.	1	0	0	
e.	Existing Structures Characteristics	per structure	1	0	0	
f.	Traffic Data	L.S.	1	0	0	
g.	Crash Data	L.S.	1	0	0	
h.	Existing Signage Inventory	L.S.	1	0	0	
i.	Utilities and Railroads	per agency	4	0	0	
j.	Transportation Plans	L.S.	1	0	0	
k.	Soils	L.S.	1	100	100	Review and Analyses of Published and Existing data for the project. Does not include additional soil borings for the project.
l.	Base map *	per sheet	1	0	0	
	NEEDS					
m.	Safety *	L.S.	1	0	0	
n.	Analysis of Existing Conditions *	L.S.	1	0	0	
o.	Purpose and Need Statement *	L.S.	1	0	0	
Task 2	DESIGN ANALYSIS					
a.	Corridor Analysis *	L.S.	1	0	0	



ENG. ANAL. AND REPORT - TIERRA

Task No.	Task	Units	# of Units	HOURS	Comments
a.	Traffic Analysis	Item	total	----->	0
	Design Traffic *	L.S.	0	0	0
	Traffic Operational Analysis *	L.S.	0	0	0
	Design Traffic Documentation *	L.S.	0	0	0
b.	Typical Section Analysis *	per typ section	0	0	0
c.	Roadway Design Alternatives *	L.S.	1	0	0
d.	Prepare Concept Plans *	per sheet	0	0	0
e.	Drainage and Floodplain Analyses	Item	total	----->	0
	Drainage and Floodplain Analyses and Pond Siting Report *	per basin	0	0	0
	Location Hydraulic Report *	L.S.		0	
f.	Structures *	per structure	0	0	0
g.	Access Management *	L.S.	1	0	0
h.	Multi-modal Accommodations *	per agency	0	0	0
i.	Maintenance of Traffic Analysis *	L.S.	1	0	0
j.	Geotechnical Coordination	L.S.	1	0	0
	Intelligent Transportation Systems *	L.S.	1	0	0
k.	Utilities and Railroads *	L.S.	1	0	0
l.	Other Engineering Services *	L.S.	1	0	0
	COMPARATIVE ANALYSIS OF ALTERNATIVES				
a.	Comparative Analysis and Evaluation Matrix *	L.S.	1	0	0
b.	Selection of Alternative(s) *	L.S.	1	0	0

ENG. ANAL. AND REPORT - TIERRA

Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
c.	Conceptual Design Plans (preferred) *	per sheet	0	0	0	
	Identify Construction Segments *	L.S.	1	0	0	
	Value Engineering	per study	0	0	0	
d.	Construction Cost Estimates *	L.S.	1	0	0	
e.	Right of Way Cost Estimates	Item total		----->	0	
	Notes and Maps for Estimate *	L.S.			0	
	Preparation Cost Estimate *	L.S.			0	
f.	Typical Section Package *	L.S.	1	0	0	
g.	Design Exceptions and Variations *	L.S.	1	0	0	
h.	Preliminary Engineering Report (PER)	Item total		----->	0	
	First Draft *	L.S.	1	0	0	
	Second Draft *	L.S.	1	0	0	
	Final *	L.S.	1	0	0	
		Sub total		----->	100	
	*Subject to QC		% QC			
2.40	Quality Control	L.S.	0	0 %	0	
	<b>ENGINEERING TOTAL HOURS</b>			----->	<b>100</b>	

ENVIRONMENTAL ANALYSIS AND REPORTS

Estimator:	(Tierra) Don Polanis						San Martin Blvd. Over Riviera Bay Bridge Repl. PD&E
							001036A
Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments	
Task 4	ENVIRONMENTAL ANALYSIS and REPORTS						
	SOCIAL AND CULTURAL IMPACTS						
a.	Land Use Changes *	L.S.	1	0	0		
b.	Social *	L.S.	1	0	0		
c.	Economic *	L.S.	1	0	0		
d.	Mobility *	L.S.	1	0	0		
e.	Aesthetics *	L.S.	1	0	0		
f.	Relocation Potential	Item	total	----->	0		
	Concept Site Relocation Plan *	L.S.			0		
	Review and Impact Determination *	L.S.			0		
g.	Archaeological and Historical Resources	Item	total	----->	0		
	Archaeology	# holes	0	0	0		
	Historic Sites	# sites	0	0	0		
	Florida Master Site Files *	L.S.			0		
	Pond Site Addendum *	L.S.			0		
	Cultural Resource Assessment Survey *	L.S.	1	0	0		
	Determination of Eligibility *	each resource	0	0	0		
	Case Study Report *	L.S.			0		
	Memorandum of Agreement *	L.S.			0		

## ENVIRONMENTAL ANALYSIS AND REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
h.	Section 4(f)	Item	total	----->	0	
	Section 4 (f) Applicability *	L.S.			0	
	Section 4 (f) Evaluation *	L.S.			0	
	NATURAL IMPACTS					
i.	Wetlands and Essential Fish Habitat	Item	total	----->	0	
	Data Collection - Wetlands	L.S.	0	0	0	
	Data Collection - Essential Fish Habitat	L.S.	0	0	0	
	Conceptual Mitigation Plan *	L.S.	0	0	0	
	Analysis & Report - Essential Fish Habitat *	L.S.	0	0	0	
	Evaluation & Report - Wetlands *	L.S.	0	0	0	
j.	Water Quality *	L.S.	1	0	0	
k.	Special Designations *	L.S.	1	0	0	
l.	Wildlife and Habitat	Item	total	----->	0	
	Data collection	L.S.	0	0	0	
	Analysis and report *	L.S.	0	0	0	
	Conservation Measures and Mitigation Plan *	L.S.	0	0	0	
m.	Identify Permit Conditions *	L.S.	1	0	0	
n.	Farmlands *	L.S.	1	0	0	
	PHYSICAL IMPACTS					
o.	Noise	Item	total	----->	0	
	Data collection, and field work	L.S.	1	0	0	
	Analysis *	L.S.	1	0	0	

ENVIRONMENTAL ANALYSIS AND REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
	Report *	L.S.	1	0	0	
p.	Air Quality	Item	total	----->	0	
	Screening Analysis *	L.S.	1	0	0	
	Air Quality Modeling *	L.S.	1	0	0	
q.	Construction Impact Analysis *	L.S.	1	0	0	
r.	Contamination	Item	total	----->	80	Level I CSER Tech Memo per Chapter 22 (Siquita Dr to Osceola Ct) 40 MH
	Field Data	L.S.			20	Asbestos & LBP on Bridge survey 40 MH
	Analysis/Report *	L.S.			60	
Task 5	ENVIRONMENTAL REPORTS					
a.	Class of Action Determination (State Environmental Impact Report) *	L.S.	1	0	0	
b.	Environmental Assessment *	L.S.	1	0	0	
c.	FONSI *	L.S.	1	0	0	
d.	Draft EIS *	L.S.	1	0	0	
e.	Final EIS *	L.S.	1	0	0	
			Sub total	----->	80	
	* Subject to QC		% QC			
3.24	Quality Control	L.S.	0 %		0	
	<b>ENVIRONMENTAL TOTAL HOURS</b>			----->	<b>80</b>	

	Unit		Unit Price	Total
<b>I. FIELD INVESTIGATION</b>				
Mobilization of Men and Equipment				
Truck-Mounted Equipment	Trip	0	\$ 324.00	0.00
Specialized ATV/Mudbug	Trip	1	\$ 649.00	649.00
Support Vehicle	Trip	2	\$ 145.00	290.00
Cone Penetrometer Equipment	Trip	0	\$ 340.00	0.00
Barge-Mounted Equipment	Trip	0	\$ 7138.00	0.00
Barge Equipment with Tug	Day	0	\$ 2575.00	0.00
Safety Boat	Day	0	\$ 515.00	0.00
Standard Penetration Test Borings (By Truck-Mounted Equipment)				
Land: 0 - 50 ft depth	L.F.	0	\$ 12.00	0.00
50 - 100 ft depth	L.F.	0	\$ 16.00	0.00
100 - 150 ft depth	L.F.	0	\$ 29.00	0.00
150 - 200 ft depth	L.F.	0	\$ 43.00	0.00
Standard Penetration Test Borings (By ATV/Mudbug)				
Land: 0 - 50 ft depth	L.F.	70	\$ 14.00	980.00
50 - 100 ft depth	L.F.	0	\$ 17.00	0.00
100 - 150 ft depth	L.F.	0	\$ 30.00	0.00
150 - 200 ft depth	L.F.	0	\$ 43.00	0.00
Standard Penetration Test Borings (Track-Mounted)				
Land: 0 - 50 ft depth	L.F.	0	\$ 18.00	0.00
50 - 100 ft depth	L.F.	0	\$ 24.00	0.00
100 - 150 ft depth	L.F.	0	\$ 28.00	0.00
150 - 200 ft depth	L.F.	0	\$ 43.00	0.00
Standard Penetration Test Borings (By Barge-Mounted Equipment)				
0 - 50 ft depth	L.F.	0	\$ 20.00	0.00
50 - 100 ft depth	L.F.	0	\$ 26.00	0.00
100 - 150 ft depth	L.F.	0	\$ 49.00	0.00
150 - 200 ft depth	L.F.	0	\$ 73.00	0.00
Cone Penetrometer Test Borings				
0 - 100 ft depth	L.F.	0	\$ 12.00	0.00
100 - 200 ft depth	L.F.	0	\$ 15.00	0.00
Grout-Seal Boreholes (By Truck-Mounted Equipment)				
Land: 0 - 50 ft depth	L.F.	0	\$ 5.00	0.00
50 - 100 ft depth	L.F.	0	\$ 6.00	0.00
100 - 150 ft depth	L.F.	0	\$ 9.00	0.00
150 - 200 ft depth	L.F.	0	\$ 12.00	0.00

Grout-Seal Boreholes  
(By ATV/Mudbug)

Land: 0 - 50 ft depth	L.F.	70	\$	6.00	420.00
50 - 100 ft depth	L.F.	0	\$	7.00	0.00
100 - 150 ft depth	L.F.	0	\$	9.00	0.00
150 - 200 ft depth	L.F.	0	\$	11.00	0.00

Grout-Seal Boreholes  
(Track-Mounted)

Land: 0 - 50 ft depth	L.F.	0	\$	7.00	0.00
50 - 100 ft depth	L.F.	0	\$	9.00	0.00
100 - 150 ft depth	L.F.	0	\$	14.00	0.00
150 - 200 ft depth	L.F.	0	\$	18.00	0.00

Grout-Seal Boreholes  
(By Barge-Mounted Equipment)

0 - 50 ft depth	L.F.	0	\$	8.00	0.00
50 - 100 ft depth	L.F.	0	\$	10.00	0.00
100 - 150 ft depth	L.F.	0	\$	16.00	0.00
150 - 200 ft depth	L.F.	0	\$	21.00	0.00

Casing Allowance  
(By Truck-Mounted Equipment)

Land: 0 - 50 ft depth	L.F.	0	\$	8.00	0.00
50 - 100 ft depth	L.F.	0	\$	9.00	0.00
100 - 150 ft depth	L.F.	0	\$	11.00	0.00
150 - 200 ft depth	L.F.	0	\$	14.00	0.00

Casing Allowance  
(By ATV/Mudbug)

Land: 0 - 50 ft depth	L.F.	30	\$	10.00	300.00
50 - 100 ft depth	L.F.	0	\$	13.00	0.00
100 - 150 ft depth	L.F.	0	\$	16.00	0.00
150 - 200 ft depth	L.F.	0	\$	20.00	0.00

Casing Allowance  
(Track-Mounted)

Land: 0 - 50 ft depth	L.F.	0	\$	12.00	0.00
50 - 100 ft depth	L.F.	0	\$	14.00	0.00
100 - 150 ft depth	L.F.	0	\$	16.00	0.00
150 - 200 ft depth	L.F.	0	\$	21.00	0.00

Casing Allowance  
(By Barge-Mounted Equipment)

0 - 50 ft depth	L.F.	0	\$	13.00	0.00
50 - 100 ft depth	L.F.	0	\$	16.00	0.00
100 - 150 ft depth	L.F.	0	\$	18.00	0.00
150 - 200 ft depth	L.F.	0	\$	33.00	0.00

Rock Coring (Structures)  
(By Truck-Mounted Equipment)

0 - 50 ft deep	L.F.	0	\$	34.00	0.00
50 - 100 ft deep	L.F.	0	\$	47.00	0.00
100 - 150 ft depth	L.F.	0	\$	57.00	0.00

Rock Coring (Structures) (By ATV/Mudbug)					
0 - 50 ft deep	L.F.	0	\$	41.00	0.00
50 - 100 ft deep	L.F.	0	\$	48.00	0.00
100 - 150 ft deep	L.F.	0	\$	62.00	0.00
Rock Coring (Structures) (Track-Mounted)					
0 - 50 ft deep	L.F.	0	\$	40.00	0.00
50 - 100 ft deep	L.F.	0	\$	53.00	0.00
100 - 150 ft deep	L.F.	0	\$	72.00	0.00
Rock Coring (Structures) (By Barge-Mounted Equipment)					
0 - 50 ft deep	L.F.	0	\$	44.00	0.00
50 - 100 ft deep	L.F.	0	\$	58.00	0.00
100 - 150 ft deep	L.F.	0	\$	77.00	0.00
Field Permeability Tests	Test	0	\$	270.00	0.00
Flagmen & Barricades (2 man crew)	Day	0	\$	854.00	0.00
Florida Patrolmen (Traffic Control)	Hour	0	\$	35.00	0.00
Arrow Rental Sign	Day	0	\$	71.00	0.00
Permit Costs \$100 per six borings	Day	0	\$	103.00	0.00
Auger Borings Roadway and Ponds	L.F.	0	\$	10.00	0.00
Extra Split Spoon Samples	Each	0	\$	37.00	0.00
Hand Muck Probes (2-man crew)	Day	0	\$	854.00	0.00
Thin Walled Shelby Tube Samples (Land)	Each	0	\$	184.00	0.00
2-Inch Piezometer Installation	L.F.	0	\$	42.00	0.00
Standby/Decontamination (Drill Rig & Crew)	Hour	0	\$	195.00	0.00
Lee County Permit	Each	0	\$	103.00	0.00
Double Ring Infiltration Test	Test	0	\$	497.00	0.00
Organic Vapor Analyzer (OVA)	Day	0	\$	227.00	0.00
Power Auger Boring (includes steam cleaning to a depth of 25 feet)	L.F.	0	\$	12.00	0.00
Pavement Cores, Asphalt	Each	0	\$	95.00	0.00
Concrete Cores	Each	0	\$	206.00	0.00
Per Diem-Two Man Crew	Day	0	\$	155.00	0.00



II. LABORATORY TESTING

Visual Examination/Stratify 1 set = 5 feet	Per Set	0	\$	4.00	0.00
Natural Moisture Content Tests	Test	4	\$	8.00	32.00
Grain-Size Analysis - Full Gradation	Test	4	\$	61.00	244.00
Grain-Size Analysis - Single Sieve	Test	8	\$	39.00	312.00
Organic Content Tests	Test	2	\$	40.00	80.00
Atterberg Limit Tests	Test	2	\$	91.00	182.00
Liquid Limit Tests (Only)	Test	0	\$	56.00	0.00
Plastic Limit Tests (Only)	Test	0	\$	36.00	0.00
Environmental Tests (pH, sulfates, chlorides, resistivity)	Set	2	\$	162.23	324.46
Unit Weight Determination	Test	0	\$	41.00	0.00
a) Consolidation Tests	Test	0	\$	405.00	0.00
b) Each additional load increment above 4TSF	Each	0	\$	26.00	0.00
Specific Gravity	Test	0	\$	58.00	0.00
Triaxial Shear Tests (3 Points)	Test	0	\$	346.00	0.00
Rock Compression Test	Test	0	\$	108.00	0.00
Split Tension Test	Test	0	\$	108.00	0.00
LBR Test	Test	0	\$	314.00	0.00
Permeability Test	Test	0	\$	270.00	0.00
Grain-Size with Hydrometer	Test	0	\$	124.00	0.00
Proctor Test a) Modified	Test	0	\$	117.00	0.00
b) Standard	Test	0	\$	110.00	0.00
Concrete Compression	Test	0	\$	155.00	0.00
Chloride Testing	Test	0	\$	155.00	0.00
Petrographic Testing	Test	0	\$	1648.00	0.00
Swell Test	Test	0	\$	162.00	0.00

Sample Preparation	Hour	0	\$	74.00	0.00
Direct Shear Strength Test (1 Point)	Test	0	\$	270.00	0.00
Soil Cement Mix Designs	Each	0	\$	1051.00	0.00
pH Test	Test	0	\$	29.00	0.00
Fines Content	Test	0	\$	43.00	0.00
Extrusion of UD	Test	0	\$	28.00	0.00
Bitumen Extraction	Test	0	\$	113.00	0.00
Bitumen Gradation	Test	0	\$	113.00	0.00
RCRA Metals (Method 6010/7471)	Each	0	\$	88.00	\$ 0.00
Arsenic (Method 6010/7471)	Each	0	\$	13.40	\$ 0.00
SPLP/TCLP Metals	Each	0	\$	198.00	\$ 0.00
Asbestos Samples	Each	0	\$	25.00	\$ 0.00

**III. FIELD ENGINEERING AND TECHNICAL SERVICES**

Site Recon./Utility Coordination/Traffic Control Senior Specialist	Hour	0	\$	101.00	0.00
Sr. Engineering Technician	Hour	0	\$	67.00	0.00
Engineering Technician	Hour	0	\$	57.00	0.00

**IIIA. ENGINEERING AND TECHNICAL SERVICES**

Project Manager	Hour	10	\$	159.00	1,590.00
Senior Project Engineer	Hour	15	\$	129.00	1,935.00
Senior Specialist	Hour	0	\$	101.00	0.00
Project Engineer	Hour	30	\$	109.00	3,270.00
Engineering Intern	Hour	24	\$	90.00	2,160.00
Computer Technician	Hour	16	\$	80.00	1,280.00
Sr Engineering Technician	Hour	0	\$	67.00	0.00
Engineering Technician	Hour	0	\$	57.00	0.00
Secretary/Clerical	Hour	5	\$	52.00	260.00
Senior Scientist	Hour	0	\$	76.00	0.00

**Estimated Project Fee** 14,308.46

	Unit		Unit Price	Total
<b>I. FIELD INVESTIGATION</b>				
Mobilization of Men and Equipment				
Truck-Mounted Equipment	Trip	0	\$ 324.00	0.00
Specialized ATV/Mudbug	Trip	0	\$ 649.00	0.00
Support Vehicle	Trip	2	\$ 145.00	290.00
Cone Penetrometer Equipment	Trip	0	\$ 340.00	0.00
Barge-Mounted Equipment	Trip	0	\$ 7138.00	0.00
Barge Equipment with Tug	Day	0	\$ 2575.00	0.00
Safety Boat	Day	0	\$ 515.00	0.00
 Standard Penetration Test Borings (By Truck-Mounted Equipment)				
Land: 0 - 50 ft depth	L.F.	0	\$ 12.00	0.00
50 - 100 ft depth	L.F.	0	\$ 16.00	0.00
100 - 150 ft depth	L.F.	0	\$ 29.00	0.00
150 - 200 ft depth	L.F.	0	\$ 43.00	0.00
 Standard Penetration Test Borings (By ATV/Mudbug)				
Land: 0 - 50 ft depth	L.F.	0	\$ 14.00	0.00
50 - 100 ft depth	L.F.	0	\$ 17.00	0.00
100 - 150 ft depth	L.F.	0	\$ 30.00	0.00
150 - 200 ft depth	L.F.	0	\$ 43.00	0.00
 Standard Penetration Test Borings (Track-Mounted)				
Land: 0 - 50 ft depth	L.F.	0	\$ 18.00	0.00
50 - 100 ft depth	L.F.	0	\$ 24.00	0.00
100 - 150 ft depth	L.F.	0	\$ 28.00	0.00
150 - 200 ft depth	L.F.	0	\$ 43.00	0.00
 Standard Penetration Test Borings (By Barge-Mounted Equipment)				
0 - 50 ft depth	L.F.	0	\$ 20.00	0.00
50 - 100 ft depth	L.F.	0	\$ 26.00	0.00
100 - 150 ft depth	L.F.	0	\$ 49.00	0.00
150 - 200 ft depth	L.F.	0	\$ 73.00	0.00
 Cone Penetrometer Test Borings				
0 - 100 ft depth	L.F.	0	\$ 12.00	0.00
100 - 200 ft depth	L.F.	0	\$ 15.00	0.00
 Grout-Seal Boreholes (By Truck-Mounted Equipment)				
Land: 0 - 50 ft depth	L.F.	0	\$ 5.00	0.00
50 - 100 ft depth	L.F.	0	\$ 6.00	0.00
100 - 150 ft depth	L.F.	0	\$ 9.00	0.00
150 - 200 ft depth	L.F.	0	\$ 12.00	0.00

Grout-Seal Boreholes  
(By ATV/Mudbug)

Land: 0 - 50 ft depth	L.F.	0	\$	6.00	0.00
50 - 100 ft depth	L.F.	0	\$	7.00	0.00
100 - 150 ft depth	L.F.	0	\$	9.00	0.00
150 - 200 ft depth	L.F.	0	\$	11.00	0.00

Grout-Seal Boreholes  
(Track-Mounted)

Land: 0 - 50 ft depth	L.F.	0	\$	7.00	0.00
50 - 100 ft depth	L.F.	0	\$	9.00	0.00
100 - 150 ft depth	L.F.	0	\$	14.00	0.00
150 - 200 ft depth	L.F.	0	\$	18.00	0.00

Grout-Seal Boreholes  
(By Barge-Mounted Equipment)

0 - 50 ft depth	L.F.	0	\$	8.00	0.00
50 - 100 ft depth	L.F.	0	\$	10.00	0.00
100 - 150 ft depth	L.F.	0	\$	16.00	0.00
150 - 200 ft depth	L.F.		\$	21.00	0.00

Casing Allowance  
(By Truck-Mounted Equipment)

Land: 0 - 50 ft depth	L.F.	0	\$	8.00	0.00
50 - 100 ft depth	L.F.	0	\$	9.00	0.00
100 - 150 ft depth	L.F.	0	\$	11.00	0.00
150 - 200 ft depth	L.F.	0	\$	14.00	0.00

Casing Allowance  
(By ATV/Mudbug)

Land: 0 - 50 ft depth	L.F.	0	\$	10.00	0.00
50 - 100 ft depth	L.F.	0	\$	13.00	0.00
100 - 150 ft depth	L.F.	0	\$	16.00	0.00
150 - 200 ft depth	L.F.	0	\$	20.00	0.00

Casing Allowance  
(Track-Mounted)

Land: 0 - 50 ft depth	L.F.	0	\$	12.00	0.00
50 - 100 ft depth	L.F.	0	\$	14.00	0.00
100 - 150 ft depth	L.F.	0	\$	16.00	0.00
150 - 200 ft depth	L.F.	0	\$	21.00	0.00

Casing Allowance  
(By Barge-Mounted Equipment)

0 - 50 ft depth	L.F.	0	\$	13.00	0.00
50 - 100 ft depth	L.F.	0	\$	16.00	0.00
100 - 150 ft depth	L.F.	0	\$	18.00	0.00
150 - 200 ft depth	L.F.	0	\$	33.00	0.00

Rock Coring (Structures)  
(By Truck-Mounted Equipment)

0 - 50 ft deep	L.F.	0	\$	34.00	0.00
50 - 100 ft deep	L.F.	0	\$	47.00	0.00
100 - 150 ft depth	L.F.	0	\$	57.00	0.00

Rock Coring (Structures) (By ATV/Mudbug)					
0 - 50 ft deep	L.F.	0	\$	41.00	0.00
50 - 100 ft deep	L.F.	0	\$	48.00	0.00
100 - 150 ft deep	L.F.	0	\$	62.00	0.00
Rock Coring (Structures) (Track-Mounted)					
0 - 50 ft deep	L.F.	0	\$	40.00	0.00
50 - 100 ft deep	L.F.	0	\$	53.00	0.00
100 - 150 ft deep	L.F.	0	\$	72.00	0.00
Rock Coring (Structures) (By Barge-Mounted Equipment)					
0 - 50 ft deep	L.F.	0	\$	44.00	0.00
50 - 100 ft deep	L.F.	0	\$	58.00	0.00
100 - 150 ft deep	L.F.	0	\$	77.00	0.00
Field Permeability Tests	Test	0	\$	270.00	0.00
Flagmen & Barricades (2 man crew)	Day	0	\$	854.00	0.00
Florida Patrolmen (Traffic Control)	Hour	0	\$	35.00	0.00
Arrow Rental Sign	Day	0	\$	71.00	0.00
Permit Costs \$100 per six borings	Day	0	\$	103.00	0.00
Auger Borings Roadway and Ponds	L.F.	0	\$	10.00	0.00
Extra Split Spoon Samples	Each	0	\$	37.00	0.00
Hand Muck Probes (2-man crew)	Day	0	\$	854.00	0.00
Thin Walled Shelby Tube Samples (Land)	Each	0	\$	184.00	0.00
2-Inch Piezometer Installation	L.F.	0	\$	42.00	0.00
Standby/Decontamination (Drill Rig & Crew)	Hour	0	\$	195.00	0.00
Lee County Permit	Each	0	\$	103.00	0.00
Double Ring Infiltration Test	Test	0	\$	497.00	0.00
Organic Vapor Analyzer (OVA)	Day	0	\$	227.00	0.00
Power Auger Boring (includes steam cleaning to a depth of 25 feet)	L.F.	0	\$	12.00	0.00
Pavement Cores, Asphalt	Each	0	\$	95.00	0.00
Concrete Cores	Each	0	\$	206.00	0.00
Per Diem-Two Man Crew	Day	0	\$	155.00	0.00

II. LABORATORY TESTING

Visual Examination/Stratify 1 set = 5 feet	Per Set	0	\$	4.00	0.00
Natural Moisture Content Tests	Test	0	\$	8.00	0.00
Grain-Size Analysis - Full Gradation	Test	0	\$	61.00	0.00
Grain-Size Analysis - Single Sieve	Test	0	\$	39.00	0.00
Organic Content Tests	Test	0	\$	40.00	0.00
Atterberg Limit Tests	Test	0	\$	91.00	0.00
Liquid Limit Tests (Only)	Test	0	\$	56.00	0.00
Plastic Limit Tests (Only)	Test	0	\$	36.00	0.00
Environmental Tests (pH, sulfates, chlorides, resistivity)	Set	0	\$	162.23	0.00
Unit Weight Determination	Test	0	\$	41.00	0.00
a) Consolidation Tests	Test	0	\$	405.00	0.00
b) Each additional load increment above 4TSF	Each	0	\$	26.00	0.00
Specific Gravity	Test	0	\$	58.00	0.00
Triaxial Shear Tests (3 Points)	Test	0	\$	346.00	0.00
Rock Compression Test	Test	0	\$	108.00	0.00
Split Tension Test	Test	0	\$	108.00	0.00
LBR Test	Test	0	\$	314.00	0.00
Permeability Test	Test	0	\$	270.00	0.00
Grain-Size with Hydrometer	Test	0	\$	124.00	0.00
Proctor Test a) Modified	Test	0	\$	117.00	0.00
b) Standard	Test	0	\$	110.00	0.00
Concrete Compression	Test	0	\$	155.00	0.00
Chloride Testing	Test	0	\$	155.00	0.00
Petrographic Testing	Test	0	\$	1648.00	0.00
Swell Test	Test	0	\$	162.00	0.00

EDR REPORT	Each	1	\$	500.00	500.00
Direct Shear Strength Test (1 Point)	Test	0	\$	270.00	0.00
Soil Cement Mix Designs	Each	0	\$	1051.00	0.00
pH Test	Test	0	\$	29.00	0.00
Fines Content	Test	0	\$	43.00	0.00
Extrusion of UD	Test	0	\$	28.00	0.00
Bitumen Extraction	Test	0	\$	113.00	0.00
Bitumen Gradation	Test	0	\$	113.00	0.00
RCRA Metals (Method 6010/7471)	Each	4	\$	88.00	\$ 352.00 LBP samples
Arsenic (Method 6010/7471)	Each	0	\$	13.40	\$ 0.00
SPLP/TCLP Metals	Each	2	\$	198.00	\$ 396.00 LBP samples
Asbestos Samples	Each	20	\$	25.00	\$ 500.00 bridge samples

**III. FIELD ENGINEERING AND TECHNICAL SERVICES**

Site Recon./Utility Coordination/Traffic Control Senior Specialist	Hour	0	\$	101.00	0.00
Sr. Engineering Technician	Hour	0	\$	67.00	0.00
Engineering Technician	Hour	0	\$	57.00	0.00

**IIIA. ENGINEERING AND TECHNICAL SERVICES**

Project Manager	Hour	12	\$	159.00	1,908.00
Senior Project Engineer	Hour	0	\$	129.00	0.00
Senior Specialist	Hour	16	\$	101.00	1,616.00
Project Engineer	Hour	0	\$	109.00	0.00
Engineering Intern	Hour	0	\$	90.00	0.00
Computer Technician	Hour	8	\$	80.00	640.00
Sr Engineering Technician	Hour	0	\$	67.00	0.00
Engineering Technician	Hour	0	\$	57.00	0.00
Secretary/Clerical	Hour	4	\$	52.00	208.00
Senior Scientist	Hour	40	\$	76.00	3,040.00

**Estimated Project Fee** 9,450.00

17.

Fee and Staff Hours:

Intera, Inc.



# ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: San Martin Blvd. Over Riviera Bay Bridge Repl. PD&E  
 County: Pinellas  
 FPN: 001036A  
 FAP No.: TBD

Consult. Name: INTERA Incorporated  
 Consult. No. enter consultants proj. number  
 Date: 10/13/2014  
 Estimator: Mark Gosselin, Ph.D., P.E.

Staff Classification	Total Staff Hours From "SH Summary Form"	Project Manager	Senior Engineer	Engineer	Engineer Intern	Staff Classification 5	Staff Classification 6	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
Public Involvement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Engineering Analysis & Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Environmental Analysis & Reports	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Miscellaneous	212	24	80	68	40	0	0	0	0	0	0	0	0	212	\$26,428	\$124.66
<b>Total Staff Hours</b>	212	24	80	68	40	0	0	0	0	0	0	0	0	212		
<b>Total Staff Cost</b>		\$4,155.60	\$12,262.40	\$6,802.04	\$3,208.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		<b>\$26,428.04</b>	<b>\$124.66</b>

Check = \$26,428.04

SALARY RELATED COSTS:		\$26,428.04
OVERHEAD:	0.00%	\$0.00
OPERATING MARGIN:	0.00%	\$0.00
FCCM (Facilities Capital Cost Money):	0.00%	\$0.00
EXPENSES:	0.00%	\$0.00
<b>SALARY RELATED SUBTOTAL:</b>		<b>\$26,428.04</b>
Survey (Field - if by Sub)	0.00 4-man crew day 5 - / day	\$0.00
<b>SUBTOTAL - SUBCONSULTANT</b>		<b>\$26,428.04</b>
Optional Services		\$0.00
<b>SUBCONSULTANT TOTAL ESTIMATED FEE:</b>		<b>\$26,428.04</b>

Note:

- This sheet to be used by Subconsultant to calculate its fee.

MISCELLANEOUS - INTERA

Estimator: Mark Gosselin, Ph.D., P.E.						San Martin Blvd. Over Riviera Bay Bridge Repl. PD&E
						001036A
Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
4.0	MISCELLANEOUS SERVICES					
4.1	Contract and Project Files	LS	1	0	0	
4.2	Project Management Meetings and Coordination	LS	1	24	24	One meeting, regularly scheduled teleconferences, and general consultation on bridge hydraulic issues.
4.3	Additional Services	Item total		----->	188	
	Additional Services to be performed	L.S.	1	188	0	
	4. Roadway Analysis	L.S.			0	
	5. Roadway Plans	L.S.			0	
	6. Drainage Analysis	L.S.			188	Task involves developing the 100-year surge and wave climate at the bridge to establish the maximum 100-year wave crest elevation via two dimensional modeling. The model and mesh can be directly applied during the design phase. Work also includes development of scour associated with the 100-year event for one alternative. Deliverable for this task will include a letter report to provide supplemental documentation for the Location Hydraulics Report. Task also includes hours for QAQC activities.
	8. Environmental Permits	L.S.			0	
	27. Survey	L.S.			0	
	28. Photogrammetry	L.S.			0	
	29. Mapping	L.S.			0	
	30. Geotechnical	L.S.			0	
	<b>MISC. TOTAL HOURS</b>				<b>212</b>	

MISCELLANEOUS - INTERA

Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
	<b>SUMMARY</b>					
	PUBLIC INVOLVEMENT				0	
	ENGINEERING ANALYSIS AND REPORTS				0	
	ENVIRONMENTAL ANALYSIS AND REPORTS				0	
	MISCELLANEOUS				0	
	<b>PROJECT TOTAL HOURS</b>				0	



18.

Fee and Staff Hours:

Adams Traffic, Inc.



# ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: San Martin Blvd. Over Riviera Bay Bridge Repl. PD&E  
 County: Pinellas  
 FPN: 001036A  
 FAP No.: TBD

Consult. Name: Adams Traffic  
 Consult. No. enter consultants proj. number  
 Date: 10/3/2014  
 Estimator: Nancy Adams

Staff Classification	Total Staff Hours from "SH Summary - Firm"	Senior Engineer	Engineering Technician	Secretary/ Clerical	Staff Classification 4	Staff Classification 5	Staff Classification 6	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		\$218.63	\$71.61	\$65.69	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Public Involvement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Engineering Analysis & Report	97	4	90	-	0	0	0	0	0	0	0	0	0	97	\$7,760	\$80.01
Environmental Analysis & Reports	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
<b>Total Staff Hours</b>	97	4	90	-	0	0	0	0	0	0	0	0	0	97		
<b>Total Staff Cost</b>		\$854.52	\$6,714.90	\$191.67	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		<b>\$7,760.49</b>	<b>\$80.01</b>

Check: \$7,760.49

Note:

- This sheet to be used by Subconsultant to calculate its fee.

SALARY RELATED COSTS:		\$7,760.49
OVERHEAD:	0.00%	\$0.00
OPERATING MARGIN:	0.00%	\$0.00
FCCM (Facilities Capital Cost Money):	0.00%	\$0.00
EXPENSES:	0.00%	\$0.00
<b>SALARY RELATED SUBTOTAL:</b>		<b>\$7,760.49</b>
Survey (Field - if by Sub)	0.00 4-man crew day 5 - / day	\$0.00
<b>SUBTOTAL - SUBCONSULTANT</b>		<b>\$7,760.49</b>
Optional Services		\$0.00
<b>SUBCONSULTANT TOTAL ESTIMATED FEE:</b>		<b>\$7,760.49</b>

## ENGINEERING ANAL - Adams

Estimator:	(HDR) Marlin Register/Matt Wey					San Martin Blvd. Over Riviera Bay Bridge Repl. PD&E 001036A
Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
	ENGINEERING ANALYSIS and REPORTS					
Task 1	DATA COLLECTION					
a.	Field Review	L.S.	1	0	0	
b.	Aerial Photography	L.S.	1	0	0	
c.	Survey Coordination	L.S.	1	0	0	
d.	Existing Roadway Characteristics	L.S.	1	0	0	
e.	Existing Structures Characteristics	per structure	1	0	0	
f.	Traffic Data	L.S.	1	97	97	72 hour bi-directional approach counts (51 hours); 4 hr turning movement count (46 hrs)
g.	Crash Data	L.S.	1	0	0	
h.	Tax Map GIS Data	L.S.	1	0	0	
i.	Utilities and Railroads	per agency	0	0	0	
j.	Transportation Plans	L.S.	1	0	0	
k.	Soils	L.S.	1	0	0	
l.	Base map *	per sheet	1	0	0	
	NEEDS					
m.	Safety *	L.S.	1	0	0	
n.	Analysis of Existing Conditions *	L.S.	1	0	0	
o.	Purpose and Need Statement *	L.S.	1	0	0	
Task 2	DESIGN ANALYSIS					
a.	Corridor Analysis *	L.S.	1	0	0	

## ENGINEERING ANAL - Adams

Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
a.	Traffic Analysis	Item	total	----->	0	
	Design Traffic *	L.S.	1	0	0	
	Traffic Operational Analysis *	L.S.	1	0	0	
	Design Traffic Documentation *	L.S.	1	0	0	
b.	Typical Section Analysis *	per typ section	2	0	0	
c.	Roadway Design Alternatives *	L.S.	1	0	0	
d.	Prepare Concept Plans *	per sheet	15	0	0	
e.	Drainage and Floodplain Analyses	Item	total	----->	0	
	Drainage and Floodplain Analyses and Pond Siting Report *	per basin	1	0	0	
	Location Hydraulic Report *	L.S.	1	0	0	
f.	Structures *	per structure	1	0	0	
g.	Access Management *	L.S.	1	0	0	
h.	Multi-modal Accommodations *	per agency	2	0	0	
i.	Maintenance of Traffic Analysis *	L.S.	1	0	0	
j.	Geotechnical Coordination	L.S.	1	0	0	
	Intelligent Transportation Systems *	L.S.	1	0	0	
k.	Utilities and Railroads *	L.S.	1	0	0	
l.	ADA Features	L.S.	1	0	0	
	COMPARATIVE ANALYSIS OF ALTERNATIVES					
a.	Comparative Analysis and Evaluation Matrix *	L.S.	1	0	0	
b.	Selection of Alternative(s) *	L.S.	1	0	0	

## ENGINEERING ANAL - Adams

Task No.	Task	Units	# of Units	Hours / Unit	HOURS	Comments
c.	Conceptual Design Plans (preferred) *	per sheet	3	0	0	
	Identify Construction Segments *	L.S.	1	0	0	
	Value Engineering	per study	0	0	0	
d.	Construction Cost Estimates *	L.S.	1	0	0	
e.	Right of Way Cost Estimates	Item total		----->	0	
	Notes and Maps for Estimate *	L.S.			0	
	Preparation Cost Estimate *	L.S.			0	
f.	Typical Section Package *	L.S.	1	0	0	
g.	Design Exceptions and Variations *	L.S.	1	0	0	
h.	Project Development Summary Report	Item total		----->	0	
	First Draft *	L.S.	1	0	0	
	Second Draft *	L.S.	1	0	0	
	Final *	L.S.	1	0	0	
		Sub total		----->	97	
	*Subject to QC		% QC			
2.40	Quality Control	L.S.	0 %		0	
	<b>ENGINEERING TOTAL HOURS</b>			----->	<b>97</b>	



**PINELLAS COUNTY RANKING**

**RFP TITLE: Professional Consulting Engineering Services San Martin Blvd over Riviera Bay Bridge and  
Roadway Improvements PID 001036A PD & E Study**

**RFP # 134-0091 -NC(RM) Oral Presentation and Final Combined Scores**

<b>Company Name</b>	<b>Point Total</b>	<b>Ranking</b>
HDR Engineering Inc.	1744.00	1
H W Lochner Inc.	1648.00	2
T Y Lin International	1612.00	3