


CENTRAL FLORIDA EXPRESSWAY AUTHORITY

MEMORANDUM

TO: Authority Board Members

FROM: Claude Miller 
Director of Procurement

DATE: July 28, 2015

RE: Award of Contract to Parsons Brinckerhoff, Inc.
Design Services for S.R. 528/Econlockhatchee River Bridge Replacement
Contract No. 001098

At its meeting on June 11, 2015, the Board approved the final ranking of the firms for the referenced project and authorized staff to enter negotiations with Parsons Brinckerhoff, Inc. (PB), the firm ranked first. Those negotiations have been completed and Board award of the contract to PB in the amount of \$1,200,000.00 is requested.

AGREEMENT

**CENTRAL FLORIDA EXPRESSWAY AUTHORITY
AND
PARSONS BRINCKERHOFF, INC.**

**S.R. 528/ECONLOCKHATCHEE RIVER BRIDGE
REPLACEMENT**

CONTRACT NO. 001098

**CONTRACT DATE: AUGUST 13, 2015
CONTRACT AMOUNT: \$1,200,000.00**

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

**AGREEMENT, SCOPE OF SERVICES, METHOD
OF COMPENSATION, DETAILS OF COSTS AND
FEES, PROJECT ORGANIZATIONAL CHART,
PROJECT LOCATION MAP, AND SCHEDULE**

**AGREEMENT, SCOPE OF SERVICES, METHOD OF COMPENSATION, DETAILS
OF COSTS AND FEES, PROJECT ORGANIZATIONAL CHART, PROJECT
LOCATION MAP, AND SCHEDULE**

FOR

S.R. 528/ECONLOCKHATCHEE RIVER BRIDGE REPLACEMENT

CONTRACT NO. 001098

AUGUST 2015

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Members of the Board

Welton Cadwell, Chairman
Scott Boyd, Vice-Chairman
Brenda Carey, Secretary/Treasurer
Buddy Dyer, Member
Fred Hawkins, Jr., Member
Teresa Jacobs, Member
Walter A. Ketcham Jr., Member
Jay Madara, Member
S. Michael Scheeringa, Member
Diane Guitierrez- Scaccetti, Non-Voting Advisor

Executive Director

Laura Kelley

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**CENTRAL FLORIDA EXPRESSWAY AUTHORITY
AGREEMENT FOR PROFESSIONAL SERVICES**

THIS AGREEMENT, made and entered into this 13th day of August, 2015, by and between the CENTRAL FLORIDA EXPRESSWAY AUTHORITY, a corporate body and agency of the State of Florida, created by Chapter 63-573 Laws of Florida, 1963, (Chapter 348, Part V, Florida Statutes) hereinafter called the "AUTHORITY" and PARSONS BRINCKERHOFF, INC., hereinafter called "CONSULTANT", carrying on professional practice in engineering with offices located at 420 South Orange Avenue, Orlando, Florida 32801.

That the AUTHORITY did determine that the CONSULTANT is fully qualified to render the services contracted.

WITNESSETH:

1.0 The AUTHORITY does hereby retain the CONSULTANT to furnish certain services in connection with the design of the S.R. 528/Econlockhatchee River Bridge identified as Contract No. 001098.

2.0 The CONSULTANT and the AUTHORITY mutually agree to furnish, each to the other, the respective services, information and items as described in Exhibit "A", Scope of Services, attached hereto and made a part hereof.

Before any additions or deletions to the work described in Exhibit "A", and before undertaking any changes or revisions to such work, the parties shall negotiate any necessary cost changes and shall enter into a Supplemental Amendment covering such modifications and the compensation to be paid therefore.

Reference herein to this Agreement shall be considered to include any Supplemental Agreement thereto.

Reference herein to Director shall mean the AUTHORITY's Executive Director.

Reference herein to the Project Manager shall mean the AUTHORITY's Director of Engineering or his authorized designee. The Project Manager shall provide the management and technical direction for this Agreement on behalf of the AUTHORITY. All technical and administrative provisions of this Agreement shall be managed by the Project Manager and the CONSULTANT shall comply with all of the directives of the Project Manager that are within the purview of this Agreement. Decisions concerning Agreement amendments and adjustments, such as time extensions and supplemental agreements shall be made by the Project Manager.

This Agreement is considered a non-exclusive Agreement between the parties.

3.0 TERM OF AGREEMENT AND RENEWALS

Unless otherwise provided herein or by Supplemental Agreement, the provisions of this Agreement will remain in full force and effect for a five-year term from the date of the Notice to Proceed for the required project services as detailed in Exhibit "A". An extension of the five-year term may be approved by the AUTHORITY at its sole discretion.

The CONSULTANT agrees to commence the scheduled project services to be rendered within ten (10) calendar days from the date specified in the written Notice to Proceed from the Project Manager, which Notice to Proceed will become part of this Agreement. The CONSULTANT shall complete scheduled project services within the timeframe(s) specified in Exhibit "A", or as may be modified by subsequent Supplemental Agreement.

4.0 PROJECT SCHEDULE

The CONSULTANT agrees to provide Project Schedule progress reports in a format acceptable to the AUTHORITY and at intervals established by the AUTHORITY. The AUTHORITY will be entitled at all times to be advised, at its request, as to the status of work being done by the CONSULTANT and of the details thereof. Coordination shall be maintained by the CONSULTANT with representatives of the AUTHORITY, or of other agencies interested in the project on behalf of the AUTHORITY. Either party to the Agreement may request and be granted a conference.

In the event there are delays on the part of the AUTHORITY as to the approval of any of the materials submitted by the CONSULTANT or if there are delays occasioned by circumstances beyond the control of the CONSULTANT, which delay the scheduled project completion date, the AUTHORITY may grant to the CONSULTANT by "Letter of Time Extension" an extension of the scheduled project completion date equal to the aforementioned delays. The letter will be for time only and will not include any additional compensation.

It shall be the responsibility of the CONSULTANT to ensure at all times that sufficient time remains within the project schedule within which to complete the services on the project. In the event there have been delays which would affect the scheduled project completion date, the CONSULTANT shall submit a written request to the AUTHORITY which identifies the reason(s) for the delay, the amount of time related to each reason and specific indication as to whether or not the delays were concurrent with one another. The AUTHORITY will review the request and make a determination as to granting all or part of the requested extension.

In the event the scheduled project completion date is reached and the CONSULTANT has not requested, or if the AUTHORITY has denied, an extension of the completion date, partial

progress payments will be stopped when the scheduled project completion date is met. No further payment for the project will be made until a time extension is granted or all work has been completed and accepted by the AUTHORITY.

5.0 PROFESSIONAL STAFF

The CONSULTANT shall maintain an adequate and competent professional staff to enable the CONSULTANT to timely perform under this Agreement. The CONSULTANT shall continue to be authorized to do business within the State of Florida. In the performance of these professional services, the CONSULTANT shall use that degree of care and skill ordinarily exercised by other similar professionals in the field under similar conditions in similar localities. The CONSULTANT shall use due care in performing in a design capacity and shall have due regard for acceptable standards of design principles. The CONSULTANT may associate with it such specialists, for the purpose of its services hereunder, without additional cost to the AUTHORITY, other than those costs negotiated within the limits and terms of this Agreement. Should the CONSULTANT desire to utilize specialists, the CONSULTANT shall be fully responsible for satisfactory completion of all subcontracted work. The CONSULTANT, however, shall not sublet, assign or transfer any work under this Agreement to other than the associate consultants listed below without the written consent of the AUTHORITY. It is understood and agreed that the AUTHORITY will not, except for such services so designated herein, permit or authorize the CONSULTANT to perform less than the total contract work with other than its own organization.

Antillian Engineering Associates, Inc. (Class 2)
Geotechnical and Environmental Consultants. Inc. (Class 2)
Vanasse Hangen Brustlin, Inc.
WBQ Design and Engineering, Inc.
McKim and Creed, Inc. (Class 2)

CONSULTANT shall not further sublet, sell, transfer, assign, delegate, subcontract, or otherwise dispose of this Contract or any portion thereof, or of the CONSULTANT's right, title, or interest therein without the written consent of the AUTHORITY, which may be withheld in the AUTHORITY'S sole and absolute discretion. Any attempt by CONSULTANT to dispose of this Contract as described above, in part or in whole, without AUTHORITY'S written consent shall be null and void and shall, at AUTHORITY's option, constitute a default under the Contract.

If, during the term of the Contract, CONSULTANT desires to subcontract any portion(s) of the work to a subconsultant that was not disclosed by the CONSULTANT to the AUTHORITY at the time that the Contract was originally awarded, and such subcontract would, standing alone or aggregated with prior subcontracts awarded to the proposed subconsultant, equal or exceed twenty five thousand dollars (\$25,000.00), the CONSULTANT shall first submit a request to the AUTHORITY's Director of Procurement for authorization to enter into such subcontract. Except in the case of an emergency, as determined by the Executive Director or his/her designee, no such subcontract shall be executed by the CONSULTANT until it has been approved by the AUTHORITY Board. In the event of a designated emergency, the CONSULTANT may enter into such a subcontract with the prior written approval of the Executive Director or his/her designee, but such subcontract shall contain a provision that provides that it shall be automatically terminated if not approved by the AUTHORITY Board at its next regularly scheduled meeting.

6.0 SERVICES TO BE PROVIDED

The work covered by this Agreement includes the preparation of construction plans for one construction project. If the work is divided into more than one construction project by the AUTHORITY's Project Manager, then the CONSULTANT shall supply construction plans for each project. A Supplemental Agreement will be required for the additional work.

All construction plans, documents, reports, studies and other data prepared by the CONSULTANT shall bear the endorsement of a person in the full employ of the CONSULTANT and duly registered by the State of Florida in the appropriate professional category.

After the AUTHORITY's acceptance of construction plans and documents for the project, the original set of CONSULTANT's drawings, tracings, plans, maps and CADD files shall be provided to the AUTHORITY, along with one record set of the final plans. The CONSULTANT shall signify, by affixing an endorsement (seal/signature, as appropriate) on every sheet of the record set, that the work shown on the endorsed sheets was produced by the CONSULTANT. With the tracings and the record set of prints, the CONSULTANT shall submit a final set of design computations. The computations shall be bound in an 8-1/2 x 11" format and shall be endorsed (seal/signature, as appropriate) by the CONSULTANT. Refer to Exhibit "A" for the computation data required for this Agreement.

The CONSULTANT shall submit a final set of reports and studies which shall be endorsed (seal/signature) by the CONSULTANT.

The CONSULTANT shall not be liable for use by the AUTHORITY of said plans, documents, reports, studies or other data for any purpose other than intended by the terms of this Agreement.

7.0 COMPENSATION

The AUTHORITY agrees to pay the CONSULTANT compensation as detailed in Exhibit "B", Method of Compensation, attached hereto and made a part hereof, in the amount of \$1,200,000.00. Bills for fees or other compensation for services or expenses shall be submitted to the AUTHORITY in detail sufficient for a proper pre-audit and post audit thereof.

The CONSULTANT may be liable for AUTHORITY costs resulting from errors or deficiencies in designs furnished under this Agreement. The AUTHORITY may enforce such liability and collect the amount due if the recoverable cost will exceed the administrative cost involved or is otherwise in the AUTHORITY's best interest.

Records of costs incurred by the CONSULTANT under terms of this Agreement shall be maintained and made available upon request to the AUTHORITY at all times during the period of this Agreement and for three years after final payment is made. Copies of these documents and records shall be furnished to the AUTHORITY upon request. The CONSULTANT agrees to incorporate the provisions of this paragraph in any subcontract into which it might enter with reference to the work performed.

Records of costs incurred includes the CONSULTANT's general accounting records and the project records, together with supporting documents and records, of the CONSULTANT and all subconsultants performing work on the project, and all other records of the CONSULTANT and subconsultants considered necessary by the AUTHORITY for a proper audit of project costs.

The general cost principles and procedures for the negotiation and administration, and the determination or allowance of costs under this Agreement shall be as set forth in the Code of Federal Regulations, Titles 23, 48, 49, and other pertinent Federal and State Regulations, as applicable, with the understanding that there is no conflict between State and Federal regulations in that the more restrictive of the applicable regulations will govern. Whenever travel costs are included in Exhibit "B", the provisions of Section 112.061, Florida Statutes, shall govern as to reimbursable costs.

8.0 DOCUMENT OWNERSHIP AND RECORDS

All plans, documents, reports, studies, and/or other data prepared or obtained under this Agreement shall be considered instruments made for services and shall become the property of the AUTHORITY without restriction or limitation on their use on this project; and shall be made available, upon request, to the AUTHORITY at any time. The AUTHORITY will have the right to visit the site for inspection of the work and the drawings of the CONSULTANT at any time. Unless changed by written agreement of the parties, said site shall be 420 South Orange Avenue, Orlando, Florida 32801.

The CONSULTANT shall allow public access to all documents, papers, letters, or other material as approved and authorized by the AUTHORITY and subject to the provisions of Chapter 119, Florida Statutes, and made or received by the CONSULTANT in conjunction with this Agreement. Failure by the CONSULTANT to grant such public access shall be grounds for immediate unilateral cancellation of this Agreement by the AUTHORITY.

9.0 COMPLIANCE WITH LAWS

The CONSULTANT shall comply with all federal, state and local laws and ordinances applicable to the work or payment for work thereof, and shall not discriminate on the grounds of race, color, religion, sex, or national origin in the performance of work under this contract.

The CONSULTANT shall keep fully informed regarding and shall fully and timely comply with all current laws and future laws that may affect those engaged or employed in the performance of this Agreement.

10.0 WAGE RATES AND TRUTH-IN-NEGOTIATIONS CERTIFICATE

The CONSULTANT hereby certifies, covenants and warrants that wage rates and other factual unit costs as shown in attached Exhibit "C", Details of Costs and Fees, supporting the

compensation are accurate, complete and current as of the date of this Agreement. It is further agreed that said price shall be adjusted to exclude any significant sums where the AUTHORITY shall determine the price was increased due to inaccurate, incomplete or non-current wage rates and other factual unit costs. All such adjustments shall be made within one year following the date of final billing or acceptance of the work by the AUTHORITY, whichever is later.

11.0 TERMINATION

The AUTHORITY may terminate this Agreement in whole or in part at any time the interest of the AUTHORITY requires such termination.

If the AUTHORITY determines that the performance of the CONSULTANT is not satisfactory, the AUTHORITY shall have the option of (a) immediately terminating the Agreement or (b) notifying the CONSULTANT of the deficiency with a requirement that the deficiency be corrected within a specified time, otherwise the Agreement will be terminated at the end of such time.

If the AUTHORITY requires termination of the Agreement for reasons other than unsatisfactory performance of the CONSULTANT, the AUTHORITY shall notify the CONSULTANT in writing of such termination, not less than seven (7) calendar days as to the effective date of termination or specify the stage of work at which the Agreement is to be terminated.

If the AUTHORITY abandons the work or subtracts from the work, suspends, or terminates the Agreement as presently outlined, the CONSULTANT shall be compensated on the basis of the percentage completion ratio of the fixed fee shown in attached Exhibit "B", plus actual costs as determined in Exhibit "B". In determining the percentage of work completed, the AUTHORITY shall consider the work performed by the CONSULTANT prior to abandonment or termination to the total amount of work contemplated by this Agreement. The ownership of all

engineering documents completed or partially completed at the time of such termination or abandonment, shall be retained by the AUTHORITY.

The AUTHORITY reserves the right to cancel and terminate this Agreement in the event the CONSULTANT or any employee, servant, or agent of the CONSULTANT is indicted or has a direct information issued against him for any crime arising out of or in conjunction with any work being performed by the CONSULTANT for or on behalf of the AUTHORITY, without penalty. It is understood and agreed that in the event of such termination, all tracings, plans, specifications, maps, and data prepared or obtained under this Agreement shall immediately be turned over to the AUTHORITY. The CONSULTANT shall be compensated for its services rendered up to the time of any such termination in accordance with Paragraph 11.0 hereof. The AUTHORITY also reserves the right to terminate or cancel this Agreement in the event the CONSULTANT shall be placed in either voluntary or involuntary bankruptcy or an assignment be made for the benefit of creditors. The AUTHORITY further reserves the right to suspend the qualifications of the CONSULTANT to do business with the AUTHORITY upon any such indictment or direct information. In the event that any such person against whom any such indictment or direct information is brought shall have such indictment or direct information dismissed or be found not guilty, such suspension on account thereof may be lifted by the AUTHORITY's Project Manager.

12.0 ADJUSTMENTS

All services shall be performed by the CONSULTANT to the reasonable satisfaction of the Project Manager who shall decide all questions, difficulties and dispute of any nature whatsoever that may arise under or by reason of this Agreement, the prosecution and fulfillment of the services hereunder and the character, quality, amount and value thereof. Adjustments of compensation and term of the Agreement, because of any major changes in the work that may become

necessary or desirable as the work progresses, shall be left to the absolute discretion of the Director and Supplemental Agreement(s) of such a nature as required may be entered into by the parties in accordance herewith. Disputes between the Project Manager and the CONSULTANT that cannot be resolved shall be referred to the Director whose decision shall be final.

In the event that the CONSULTANT and the AUTHORITY are not able to reach an agreement as to the amount of compensation to be paid to the CONSULTANT for supplemental work desired by the AUTHORITY, the CONSULTANT shall be obligated to proceed with the supplemental work in a timely manner for the amount determined by the AUTHORITY to be reasonable. In such event, the CONSULTANT will have the right to file a claim with the AUTHORITY for such additional amounts as the CONSULTANT deems reasonable; however, in no event will the filing of the claim or the resolution or litigation thereof, through administrative procedures or the courts, relieve the CONSULTANT from the obligation to timely perform the supplemental work.

13.0 CONTRACT LANGUAGE AND INTERPRETATION

All words used herein in the singular form shall extend to and include the plural. All words used in the plural form shall extend to and include the singular. All words used in any gender shall extend to and include all genders.

References to statutes or regulations shall include all statutory or regulatory provisions consolidating, amending, or replacing the statute or regulation referred to. Words not otherwise defined that have well known technical or industry meanings, are used in accordance with such recognized meanings. References to persons include their respective functions and capacities.

If the CONSULTANT discovers any material discrepancy, deficiency, ambiguity, error, or omission in this Agreement, or is otherwise in doubt as to the meaning of any provision of

the Agreement, the CONSULTANT shall immediately notify the AUTHORITY and request clarification of the AUTHORITY's interpretation of this Agreement.

The Agreement shall not be more strictly construed against either party hereto by reason of the fact that one party may have drafted or prepared any or all of the terms and provisions hereof.

14.0 HOLD HARMLESS AND INDEMNIFICATION

The CONSULTANT shall indemnify and hold harmless the AUTHORITY and all of its officers and employees from any liabilities, losses, damages, costs, including, but not limited to reasonable attorneys' fee, arising out of any negligent act, error, omission by the CONSULTANT, its agents, employees, or subcontractors during the performance of the Agreement, except that neither the CONSULTANT, its agents, employees nor any of its subconsultants will be liable under this paragraph for any claim, loss, damage, cost, charge or expense arising solely out of any act, error, omission or negligent act by the AUTHORITY or any of its officers, agents or employees during the performance of the Agreement.

When the AUTHORITY receives a notice of claim for damages that may have been caused by the CONSULTANT in the performance of services required by the CONSULTANT under this Agreement, the AUTHORITY will immediately forward the notice of claim to the CONSULTANT. The CONSULTANT and the AUTHORITY will evaluate the notice of claim and report their findings to each other within fourteen working days.

In the event a lawsuit is filed against the AUTHORITY alleging negligence or wrongdoing by the CONSULTANT, the AUTHORITY and the CONSULTANT will jointly discuss options in defending the lawsuit. After reviewing the lawsuit, the AUTHORITY will determine whether to request the participation of the CONSULTANT in the defense of the lawsuit or to request

that the CONSULTANT defend the AUTHORITY in such lawsuit as described in this section. The AUTHORITY's failure to notify the CONSULTANT of a notice of claim will not release the CONSULTANT from any of the requirements of this section upon subsequent notification by the AUTHORITY to the CONSULTANT of the notice of claim or filing of a lawsuit. The AUTHORITY and the CONSULTANT will pay their own cost for the evaluation, settlement negotiations and trial, if any. However, if only one party participates in the defense of the claim at trial, that party is responsible for all of its costs, but if the verdict determines that there is joint responsibility, the costs of defense and liability for damages will be shared in the same percentage as that judicially established. Nothing herein shall be construed to waive the sovereign immunity damages limitations afforded the AUTHORITY pursuant to F.S. 768.28.

The parties agree that 1% of the total compensation to the CONSULTANT for performance of this Agreement is the specific consideration from the AUTHORITY to the CONSULTANT for the CONSULTANT's indemnity agreement.

The CONSULTANT shall pay all royalties and assume all costs arising from the use of any invention, design, process materials, equipment, product or device which is the subject of patent rights or copyrights. The CONSULTANT shall, at its expense, hold harmless and defend the AUTHORITY against any claim, suit or proceeding brought against the AUTHORITY which is based upon a claim, whether rightful or otherwise, that the goods or services, or any part thereof, furnished under this Agreement, constitute an infringement of any patent or copyright of the United States. The CONSULTANT shall pay all damages and costs awarded against the AUTHORITY.

15.0 THIRD PARTY BENEFICIARY

The CONSULTANT warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for the CONSULTANT to solicit or secure

this Agreement, and that the CONSULTANT has not paid or agreed to pay any person, company, corporation, individual or firm any fee, commission, percentage, gift or any other consideration, contingent upon or resulting from the award or making of this Agreement. It is understood and agreed that the term "fee" shall also include brokerage fee, however denoted. For the breach or violation of this paragraph, the AUTHORITY shall have the right to terminate this Agreement without liability, and, at its discretion, to deduct from the contract price, or otherwise recover, the full amount of such fee, commission percentage, gift or consideration.

16.0 INSURANCE

The CONSULTANT, at its own expense, shall keep in force and at all times maintain during the term of this Agreement all insurance of the types and to the limits specified herein.

The CONSULTANT shall require and ensure that each of its subconsultants providing services hereunder procures and maintains, until the completion of the services, insurance of the requirements, types and to the limits specified herein. Upon request from the AUTHORITY, the CONSULTANT shall furnish copies of certificates of insurance evidencing coverage of each subconsultant.

The CONSULTANT shall require all insurance policies in any way related to the work and secured and maintained by the CONSULTANT to include clauses stating each underwriter shall waive all rights of recovery, under subrogation or otherwise, against the AUTHORITY. The CONSULTANT shall require of subconsultants, by appropriate written agreements, similar waivers each in favor of all parties enumerated in this section. When required by the insurer, or should a policy condition not permit an endorsement, the CONSULTANT agrees to notify the insurer and request that the policy(ies) be endorsed with a Waiver of Transfer of Rights of Recovery Against Others, or an equivalent endorsement. This Waiver of Subrogation requirement shall not apply to any

policy, which includes a condition that specifically prohibits such an endorsement or voids coverage should the CONSULTANT enter into such an agreement on a pre-loss basis. At the CONSULTANT's expense, all limits must be maintained.

16.1 Commercial General Liability coverage shall be on an occurrence form policy for all operations including, but not limited to, Contractual, Products and Completed Operations, and Personal Injury. The limits shall be not less than One Million Dollars (\$1,000,000) per occurrence, Combined Single Limits (CSL) or its equivalent. The general aggregate limit shall apply separately to this Agreement (with the ISO CG 25 01 or insurer's equivalent endorsement provided to the AUTHORITY) or the general aggregate limit shall be twice the required occurrence limit. The AUTHORITY shall be listed as an additional insured. The CONSULTANT further agrees coverage shall not contain any endorsement(s) excluding or limiting Product/Completed Operations, Independent Consultants, Broad Form Property Damage, X-C-U Coverage, Contractual Liability, or Severability of Interests. The Additional Insured Endorsement included on all such insurance policies shall state that coverage is afforded the additional insured with respect to claims arising out of operations performed by or on behalf of the insured. If the additional insureds have other insurance which is applicable to the loss, such other insurance shall be excess to any policy of insurance required herein. The amount of the insurer's liability shall not be reduced by the existence of such other insurance.

16.2 Business Automobile Liability coverage shall be on an occurrence form policy for all owned, non-owned and hired vehicles issued on ISO form CA 00 01 or its equivalent. The limits shall be not less than One Million Dollars (\$1,000,000) per occurrence, Combined Single Limits (CSL) or its equivalent. In the event the CONSULTANT does not own automobiles the CONSULTANT shall maintain coverage for hired and non-owned auto liability, which may be

satisfied by way of endorsement to the Commercial General Liability policy or separate Business Auto Liability policy.

Each of the above insurance policies shall include the following provisions: (1) The standard severability of interest clause in the policy and when applicable the cross liability insurance coverage provision which specifies that the inclusion of more than one insured shall not operate to impair the rights of one insured against another insured, and the coverages afforded shall apply as though separate policies had been issued to each insured; (2) The stated limits of liability coverage for Commercial/Comprehensive General Liability, and Business Automobile Liability, assumes that the standard "supplementary payments" clause will pay in addition to the applicable limits of liability and that these supplementary payments are not included as part of the insurance policies limits of liability.

16.3 Workers' Compensation and Employer's Liability Insurance shall be provided as required by law or regulation (statutory requirements). Employer's Liability insurance shall be provided in amounts not less than \$100,000 per accident for bodily injury by accident, \$100,000 per employee for bodily injury by disease, and \$500,000 policy limit by disease. The Workers' Compensation policy shall be endorsed with a waiver of subrogation in favor of the AUTHORITY for all work performed by the CONSULTANT, its employees, agents and subconsultants.

16.4 Professional Liability Coverage shall have limits of not less than One Million Dollars (\$1,000,000) Combined Single Limit (CSL) or its equivalent, protecting the selected firm or individual against claims of the AUTHORITY for negligence, errors, mistakes or omissions in the performance of services to be performed and furnished by the CONSULTANT.

The CONSULTANT shall provide the AUTHORITY with Certificate(s) of Insurance with required endorsements on all the policies of insurance and renewals thereof in a form(s)

acceptable to the AUTHORITY. The AUTHORITY shall be notified in writing of any reduction, cancellation or substantial change of policy or policies at least thirty (30) days prior to the effective date of said action.

All insurance policies shall be issued by responsible companies who are acceptable to the AUTHORITY and licensed to do business under the laws of the State of Florida. Each Insurance company shall minimally have an A.M. Best rating of A-:VII. If requested by the AUTHORITY, the AUTHORITY shall have the right to examine copies and relevant provisions of the insurance policies required by this Agreement, subject to the appropriate confidentiality provisions to safeguard the proprietary nature of CONSULTANT manuscript policies.

Any deductible or self-insured retention must be declared to and approved by the AUTHORITY. At the option of AUTHORITY, either the insurer shall reduce or eliminate such deductibles or self-insured retentions as requests the AUTHORITY, or the CONSULTANT shall procure a bond guaranteeing payment of losses and related investigations, claim administration and defense expenses.

All such insurance required by the CONSULTANT shall be primary to, and not contribute with, any insurance or self-insurance maintained by the AUTHORITY.

Compliance with these insurance requirements shall not relieve or limit the CONSULTANT's liabilities and obligations under this Agreement. Failure of the AUTHORITY to demand such certificate or evidence of full compliance with these insurance requirements or failure of the AUTHORITY to identify a deficiency from evidence provided will not be construed as a waiver of the CONSULTANT's obligation to maintain such insurance.

The acceptance of delivery by the AUTHORITY of any certificate of insurance evidencing the required coverage and limits does not constitute approval or agreement by the

AUTHORITY that the insurance requirements have been met or the insurance policies shown in the certificates of insurance are in compliance with the requirements.

17.0 COMMUNICATIONS, PUBLIC RELATIONS, AND USE OF LOGOS

The CONSULTANT agrees that it shall make no statements, press releases or publicity releases concerning this Agreement or its subject matter or otherwise disclose or permit to be disclosed any of the data or other information obtained or furnished in compliance with this Agreement, or any particulars thereof, during the period of the Agreement, without first notifying the AUTHORITY and securing its consent in writing. The CONSULTANT also agrees that it shall not publish, copyright or patent any of the data furnished in compliance with this Agreement, it being understood that, under Paragraph 8.00 hereof, such data or information is the property of the AUTHORITY.

Regarding the use of logos, printed documents and presentations produced for the AUTHORITY shall not contain the name of logo of the CONSULTANT unless approved by the AUTHORITY's Director of Public Affairs and Communication or his/her designee. If a copy of the AUTHORITY logo is to be used in a document or presentation, the logo shall not be altered in any way. The width and height of the logo shall be of equal proportions. The proper presentation of the AUTHORITY logo is of utmost importance to the AUTHORITY. Any questions regarding the use of the AUTHORITY logo shall be directed to the Director of Public Affairs and Communication or his/her designee.

18.0 STANDARD OF CONDUCT

The CONSULTANT covenants and agrees that it and its employees shall be bound by the standards of conduct provided in Florida Statutes 112.313 as it relates to work performed under this Agreement, which standards will by reference be made a part of this Agreement as though set

forth in full. The CONSULTANT agrees to incorporate the provisions of this paragraph in any subcontract into which it might enter with reference to the work performed.

The CONSULTANT acknowledges that it has read the AUTHORITY's Code of Ethics and to the extent applicable to the CONSULTANT agrees to abide with such policy.

19.0 DOCUMENTED ALIENS

The CONSULTANT warrants that all persons performing work for the AUTHORITY under this Agreement, regardless of the nature or duration of such work, shall be United States citizens or properly authorized and documented aliens. The CONSULTANT shall comply with all federal, state and local laws and regulations pertaining to the employment of unauthorized or undocumented aliens at all times during the performance of this Agreement and shall indemnify and hold the AUTHORITY harmless for any violations of the same. Furthermore, if the AUTHORITY determines that CONSULTANT has knowingly employed any unauthorized alien in the performance of this Agreement, the AUTHORITY may immediately and unilaterally terminate this Agreement for cause.

20.0 CONFLICT OF INTEREST

The CONSULTANT shall not knowingly enter into any other contract with the AUTHORITY during the term of this Agreement which would create or involve a conflict of interest with the services provided herein. Likewise, subconsultants shall not knowingly enter into any other contract with the AUTHORITY during the term of this Agreement which would create or involve a conflict of interest with the service provided herein and as described below. Questions regarding potential conflicts of interest shall be addressed to the Director for resolution. During the term of this Agreement, the CONSULTANT is not eligible to pursue any advertised construction engineering and inspection projects of the AUTHORITY as either a prime or subconsultant where the CONSULTANT participated in the oversight of the projects or for any project which the

CONSULTANT prepared plans and/or specifications. Subconsultants are also ineligible to pursue construction engineering and inspection projects where they participated in the oversight of the projects or for any project which the subconsultant was involved in the preparation of plans and/or specifications.

21.0 SEVERABILITY

The invalidity or non-enforceability of any portion or provision of this Agreement shall not affect the validity or enforceability of any other portion or provision. Any invalid or unenforceable portion or provision shall be deemed severed from this Agreement and the balance hereof shall be construed and enforced as if this Agreement did not contain such invalid or unenforceable portion or provision.

22.0 GOVERNING LAW AND VENUE

This Agreement is accepted and entered into in Florida and any question regarding its validity, construction, enforcement, or performance shall be governed by Florida law. The parties consent to the exclusive jurisdiction of the courts located in Orange County, Florida.

23.00 ATTACHMENTS

Exhibit “A”, Scope of Services

Exhibit “B”, Method of Compensation

Exhibit “C”, Details of Cost and Fees

Exhibit “D”, Project Organization Chart

Exhibit “E”, Project Location Map

Exhibit “F”, Schedule

IN WITNESS WHEREOF, the CONSULTANT and the AUTHORITY have caused this instrument to be signed by their respective duly authorized officials, as of the day and year first above written. This Contract was awarded by the Authority's Board of Directors at its meeting on August 13, 2015.

PARSONS BRINCKERHOFF, INC.

**CENTRAL FLORIDA
EXPRESSWAY AUTHORITY**

BY: _____
Authorized Signature

BY: _____
Director of Procurement

Print Name: _____

Print Name: _____

Title: _____

ATTEST: _____ (Seal)
Secretary or Notary

Approved as to form and execution, only.

General Counsel for the AUTHORITY

EXHIBIT A

SCOPE OF SERVICES

Exhibit A

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SCOPE OF SERVICES

FOR

**S.R. 528 BRIDGE REPLACEMENT OVER THE
ECONLOCKHATCHEE RIVER**

PROJECT NO. 528-131

IN ORANGE COUNTY, FLORIDA

July, 2015

Exhibit A

SCOPE OF SERVICES

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1.0 GENERAL

1.01 Location

- A. See EXHIBIT "E", Project Location Map.

1.02 Description

The services to be provided under this contract will include final design, preparation of construction drawings and specifications for the replacement of the S.R. 528 twin bridges over the Econlockhatchee River. The existing bridges will be replaced with twin three lane bridges with standard 10 foot inside and outside shoulders (ultimately expandable to four lane bridges).

The PGL for the new bridges will be approximately 4 feet higher than the existing to conform with the future profile adjustment planned to improve the drainage and maintainability of the roadside ditches. This requires reconstruction of 1200 feet the roadway on either side of the bridge to tie into the existing. Construction of the roadway diversion to maintain traffic plus a little milling and resurfacing will extend another 1200 feet resulting project limits that extend a total of 2400 feet on either side of the River. Final horizontal geometry for the roadway will be dependent upon the bridge alternative selected by the Authority.

Additional elements include surveying, bridge hydraulics and scour analysis, drainage evaluation and design, permitting, lighting, signing and pavement markings, maintenance of traffic, fiber optic network, utility design and coordination, geotechnical analysis, scheduling and project control, progress reporting and any other incidental items necessary for the proposed design project.

1.03 Purpose

- A. The purpose of this Exhibit is to describe the scope of work and responsibilities required in connection with Final Engineering and Final Construction Drawings and Documents for the proposed S.R. 528 Bridge Replacement over the Econlockhatchee River.
- B. The Consultant shall perform those engineering services required for final roadway plans, final bridge plans, and the preparation of a complete environmental resource application including 100% storm water management, final lighting plans, final traffic control plans, final utility, final fiber optic network plans and final signing and pavement marking plans.
- C. The Authority's Project Manager will provide contract administration, management services and technical reviews of all work associated with the preliminary and final designs.

- D. It is understood that references throughout this document to items of work and services to be performed are the responsibility of the Consultant unless otherwise expressly stated as the responsibility of others.

1.04 Organization

- A. The Authority's Project Manager will administer the Consultant services detailed in this scope. The following sections define the duties and obligations of the Authority and the Consultant.

1.05 Term of Agreement for Design Services

- A. The term of the Agreement to perform the required design services shall be nine (9) months from notice to proceed, including all reviews.
- B. The Consultant may continue the design efforts while design submittals are being reviewed. Doing so, however, in no way relieves the Consultant of the responsibility to incorporate review comments into the design, nor does it entitle the Consultant to any additional design fees as a result of making changes due to review comments.

1. Project Milestones:

The Consultant will prepare a tabulation of major project milestones.

2. Project Schedule:

The Consultant shall include a schedule of major design tasks.

2.0 STANDARDS

A. The applicable design and construction standards and policies of the Florida Department of Transportation, Federal Highway Administration (FHWA), American Association of State Highway and Transportation Officials (AASHTO), Transportation Research Board (TRB), Standard Building Code, the Authority's Design Practices and Standard Notes and the Authority's Guidelines for Preparation of Signing and Pavement Marking Plans shall be followed throughout the design and construction of the project unless specifically stated otherwise. The editions of the applicable standards and policies in effect at the time of Contract execution shall be used except as follows:

1. Division II, Construction Details, and Division III, Materials, of the FDOT Standard Specifications for Road and Bridge Construction, 2015 edition, and updates, shall be used for this project.
2. The FDOT Design Standards (Index Drawings), latest edition and subsequent interim indexes and updates, shall be used for this project.
3. The FDOT Plans Preparation Manual, latest edition, shall be used for this project.
4. The FDOT Basis of Estimates Handbook, latest edition, shall be used for this project.
5. The AASHTO Policy on Geometric Design of Highway and Streets (Green Book), 2004 edition, shall be used for this project.
6. The FHWA Manual on Uniform Traffic Control Devices (MUTCD), 2009 edition, as amended, shall be used for this project.
7. The CFX ITS Design Standard Details for Design, Construction, Maintenance and Utility Operations on the State Highway System, July 2014, shall be used for this project.

3.0 DESIGN CRITERIA

3.01 General

Design of this project will be guided by the basic design criteria listed below.

- A. The design criteria listed in this section and Project Design Directives, provided by the Authority during the course of the project, may supplement the Project Design Guidelines.
- B. Design year – 2037
- C. Design vehicle – WB-62FL
- D. Along with the 30% design submittal, the Consultant shall provide a tabulation of all applicable drainage and stormwater management criteria from Federal, State and local agencies and indicated which will be used for all segments and portions of the project. Unless otherwise directed by the Authority, the Consultant shall use the most restrictive or conservative criteria applicable.

3.02 Geometry

The following criteria are to be incorporated into the design:

DESIGN ELEMENT	EXPRESSWAY		CROSSROADS/ COLLECTORS
	MAINLINE	RAMPS	
<u>Design Speed, MPH</u>	70 mph	30 mph (Loop) 50 mph (Diamond) 50 mph (Directional)	30 Local 45 Urban 50 Rural
<u>Horizontal Alignment</u>			
a. Max. Curve, Degrees	3° 30'	24° 45' Loop 8° 15' Diamond 8° 15' Directional	20°
b. Max. Superelevation, ft/ft.	0.10	0.10	0.05 Urban 0.10 Rural
c. Lane Drop Tapers	70:1	50:1	
d. Transitions	Use spirals for curves > 1° 30'	Use spirals for curves > 1° 30'	Use spirals for curves > 1° 30'
<u>Vertical Alignment</u>			
a. Max. Grade	3%	5% to 7% (30 mph) 3% to 5% (50 mph)	5% Arterial Rural 7% Collector Rural
b. Vertical Curvature (K) (K=Len./%grade change) Crest	506 FDOT 290 to 540 AASHTO	31 (30 mph) 136 (50 mph) 110 to 160 Other (AASHTO)	31 to 136
Sag	206 FDOT 150 to 200 AASHTO	31 (30 mph) 136 (50 mph) 90 to 110 Other (AASHTO)	37 to 96
c. Decision Sight Dist., ft.	Refer to AASHTO	N/A	N/A
<u>Cross Sections</u>			
a. Lane Widths, ft.	12	12 dual lanes 15 min. single lane	12 inner lanes 12-16 outer lanes
b. Shoulder width, ft. Right Left	<u>4-Lane</u> 12 (10 paved) 8 (4 paved)	<u>Single Lane</u> 6 (4 paved) 6 (2 paved)	8 (4*paved) 8 (2 paved) * min. 5' paved FDOT

DESIGN ELEMENT	EXPRESSWAY		CROSSROADS/ COLLECTORS
	MAINLINE	RAMPS	
Right	<u>6-Lane</u> 12 (10 paved)	<u>Dual Lane</u> 10* (8* paved)	
Left	12 (10 paved)	8 (4 paved) (* add 2' for interstate)	
<u>Bridges, ft.</u>	<u>4-Lane</u>	<u>Single-Lane</u>	
Right	10	6	
Left	6	6	
	<u>6-Lane</u>	<u>Dual Lane</u>	
Right	10	10	
Left	10	6	
c. Cross Slopes			
1. Traffic Lanes	2% (4-lane) 3% or tbd (6-lane)	2%	
2. Bridge Lanes	2% typ. (no break)		
3. Left Shoulder	5%	5%	5%
4. Right Shoulder	6%	6%	6%
d. Median Width (4-lane), ft. (E.O.P./E.O.P.)	64' (typical) 26' (with barrier)	N/A	22' or 40'
<u>Horizontal Clearance</u>	PPM 1-2.11	PPM 1-2.11	PPM 1-2.11
<u>Vertical Clearance, ft.</u>			
a. Over Roadway*	16.5	16.5	16.5
b. Overhead Signs	17.5	17.5	17.5
c. Over Railroad	23.5	23.5	N/A

Ramp Operations

- Two thousand (2,000) ft. between entrance and exit terminals – full freeways
- Six hundred (600) ft. between exit and entrance terminals
- Single Lane Entrance Ramp Parallel
- Exit Ramp Taper of 550 ft. (3° – divergence)

Right of Way

- a. Ten (10) ft. from back of walls or limit of construction.
- b. Two (2) ft. from back of sidewalk on frontage roads.
- c. Drainage and construction easements as required
- d. Limited access right-of-way limits per Index 450
- e. Right of way limits for ramps is based upon limit of construction plus 10 feet.

3.03 Bridge and Other Structures

- A. All plans and designs shall be prepared in accordance with the latest standard specifications adopted by AASHTO, FDOT Structures Design Guidelines (Manual), FDOT Structures Detailing Manual, FDOT Plans Preparation Manual, FDOT Standard Drawings, FDOT Indices, etc., except as otherwise directed by the Authority.

4.0 WORK PERFORMED BY CONSULTANT

The Consultant shall be responsible for the work outlined in this Section. The work shall conform to the standards, criteria, and requirements of this Scope of Services.

4.01 Design Features

A. The work required for this project includes preparation of final construction drawings and specifications as well as the preparation of a complete environmental resource application.

B. Major elements of the work include the following:

The services to be provided under this contract will include final design, preparation of construction drawings and specifications for the replacement of the S.R. 528 twin bridges over the Econlockhatchee River. The existing bridges will be replaced with twin three lane bridges with standard 10 foot inside and outside shoulders (ultimately expandable to four lane bridges).

Additional elements include surveying, bridge hydraulics and scour analysis, drainage evaluation and design, permitting, lighting, signing and pavement markings, maintenance of traffic, fiber optic network, utility design and coordination, geotechnical analysis, scheduling and project control, progress reporting and any other incidental items necessary for the proposed design project.

4.02 Governmental Agencies

A. The Consultant shall coordinate with and assist in securing the approval of all interested agencies involved. These agencies may include, but are not necessarily limited to FDEP, ACOE and applicable Water Management District(s).

4.03 Preliminary Design Report - Review

A. The Consultant shall review the project concept for proposed alternatives with regard to proposed design criteria, maintenance of traffic and construction feasibility.

At the completion of this review, the Consultant shall submit to the Authority a written list of recommendations and proposed revisions, if any, to the basic layout. A conference will be scheduled by the Authority's Project Manager with the Consultant to resolve any outstanding differences and agree upon a final layout for the project.

4.04 Surveys and Mapping

- A. All Surveying and Mapping shall be performed under the direction of a Surveyor and Mapper properly licensed with the Florida Board of Professional Surveyors and Mappers, under Chapter 472, Florida Statutes. The Consultant shall review data provided by the Authority and provide complete field surveys suitable for contract document preparation.

Survey activities shall be coordinated with the Consultant's design team including roadway, drainage, structures, geotechnical, and other disciplines as required.

Field surveys shall be performed with minimal disruption of the normal traffic flow for the project. Field personnel shall use safety devices such as warning signs, traffic cones, warning lights, and safety vests at all times, according to the Florida Department of Transportation requirements. Advanced warning signs required when survey crews are working on the Authority's system shall be made with 3M Scotchlite Diamond Grade Fluorescent orange roll up sign sheeting.

B.

B. Survey

Horizontal Project Control (HPC). *Utilizing control provided by CFX (AAF information); Set 8 control points (@ 600' intervals) for Project Control. Includes control to perform topo and channel survey within 300' x 600' (2) drainage R/W's.*

Vertical PC / Bench Line. *Vertical PC / Bench Line. 3 wire bench run thru points set in 27.1. Utilizing control provided by CFX (AAF information) Vertical PC / Bench Line. 3 wire bench run thru points set in 27.1.*

Alignment and Existing R/W Lines. *Utilizing control provided by CFX (AAF information) Alignment and Existing R/W Lines. Research and field locate corners along SR 528 centerline/existing R/W to substantiate the R/W limits for the area (includes generating BL of Survey and regenerating AAF info in dgn format). Paint 100' stations on EB shoulder*

Topography/DTM (3D). *Topo/DTM survey will be performed from 2000' west of the existing Econ river bridge, east to the gore (EB & WB) at the Dallas Blvd exit. 25' outside R/W to 25' outside R/W. (1 mile)*

Drainage Survey. *Survey/Detail 3 drainage structures*

Bridge Survey. Bridge Survey of Existing 528 Bridge over Econ. Sufficient Detail to show existing pile and superstructure outline only. Bridge is to be removed

Channel Survey. Channel Survey of Econ from R/W to R/W (950'), includes survey within 300' x 600' (2) drainage R/W's. Additional cross section at 100' beyond R/W north and 100' & 300' beyond R/W south

Pond Site Survey. flood compensation area. Triangular infield area at NE quad of Dallas Interchange.

Jurisdictional Line Survey. Wetland line survey (as staked by others). Assume 0.5 mile

Geotechnical Support. Geotechnical Support, locate 30 boring locations (N,E,Z). Geotech to utilize painted stations for reference.

Line Cutting. approx. 7920' of line cutting along alignment and within 300' x 600' (2) drainage R/W's

Work Zone Safety. MOT as appropriate to maintain safe work zone to traveling public and field survey crew.

Document Research. Research, Review AAF R/W and control information

Field Reviews. 2 field reviews (at 3 Hours per)

Technical Meetings.

QA/QC

Supervision

Coordination

4.05 Geotechnical Investigation

- A. The Consultant shall perform a geotechnical investigation of the project in accordance with the requirements of the Authority.
- B. Investigations shall be performed with minimal disruption of the normal traffic flow for the project. Field personnel shall use safety devices such as warning signs, traffic cones, warning lights, and safety vests at all times, according to Authority requirements. The Consultant shall adhere to all traffic control requirements when taking samples on existing roadways. A

traffic control plan and permit may be required. Any advanced warning signs required when crews are working on the Authority system shall be made with 3M Scotchlite Diamond Grade Fluorescent orange roll up sign sheeting.

- C. The work includes, but is not limited to, identifying roadway structural section requirements, LBR testing, design methods for the selected foundation, external stability evaluation at proprietary retaining walls, groundwater and estimated seasonal high groundwater level, estimate of the maximum rate of pumping that will be required at sites that dewatering is anticipated, certification of all under drain and pond draw down times, pH and resistivity conditions requiring design considerations, soil shrinkage/swell characteristics, slope stability and benching in embankment/excavation locations, recommendation for methods of rock excavation, potential imported borrow sites and availability of structural section materials, location and depths of unsuitable material (muck), and design alternatives based on geotechnical findings; design values for active, at rest, and passive soil pressures; allowable design loads or pressures for each foundation type, corrosion testing for structures and design of foundations for sign structures.
- D. The results of the geotechnical investigation shall be contained in a Geotechnical Report which shall be submitted to the Authority's Project Manager for approval. The geotechnical investigation shall include all necessary laboratory testing of materials.
- E. Upon approval of the Geotechnical Report, the Consultant shall proceed with preparation of the pavement and foundation designs.
- F. Boring profiles shall be included on cross-section sheets in the contract plans and include the boring number, station, offset, soil legend, observed water table, design high water elevation and geotechnical consultant's address. A boring number and target symbol shall be shown at the appropriate location on the roadway and bridge plans.
- G. Roadway core samples shall be taken to determine the existing pavement section. The Consultant shall submit a plan to the Authority for location approval.

4.06 Contamination Impact Analysis

- A. The Consultant shall perform a contamination impact analysis of the project in accordance with the applicable rules and regulations of the FDOT Project Development and Environment Guidelines, Chapter 22, the Florida

Department of Environmental Protection (FDEP), and all other pertinent State or Federal agencies having jurisdiction, and the requirements of the Authority.

- B. At a minimum, the Consultant shall conduct a windshield survey along the project corridor to identify any new sources of environmental contamination not reported in the referenced document(s).
- C. The testing of any sites including the use of ground penetrating radar, if required to complete the design and/or construction of the project, will be added to the Scope of Services by Supplemental Agreement.

4.07 Pavement Design

- A. The Consultant shall prepare the pavement design as appropriate in accordance with the requirements of the FDOT for mainline and ramps.
- B. The proposed pavement design recommendation, resulting from the Consultant's analysis of the various alternatives, shall be contained in a Pavement Design Summary.

4.08 Borrow Pits

- A. The Consultant's geotechnical investigation may include the investigation of current borrow pits. The location and testing of any new borrow pits if required to complete the construction of the project shall be added to the Scope of Services by Supplemental Agreement. The analysis and test results shall be contained in a separate report submitted not later than the preliminary submittal.

4.09 Governmental Agency and Public Meetings

- A. Except as may be provided elsewhere in this Scope of Services, the Consultant shall have appropriate representatives present at such meetings, conferences or hearings as the Authority may direct to secure necessary approvals and/or support of the project by county, municipal, or other governmental agencies. If so directed, the Consultant shall also have appropriate representatives present at meetings or conferences of the Authority, its Chairman or staff.
- B. The Consultant shall assist the Authority in presentations to various parties. The Consultant shall prepare exhibits pertaining to basic roadway and noise wall elements. The Authority will prepare exhibits pertaining to aesthetic

treatments and other design issues if applicable. This scope assumes presentations at one meeting with adjacent property owners.

4.10 Environmental Permits

- A. The Authority's Project Manager will review, coordinate and submit the applications for all environmental permits, including EPA's NPDES General Permits for Stormwater Discharges from Construction Sites. The Consultant shall provide all information, permit applications and data relating to Stormwater Management and Floodplain Impacts required for the permits to the Authority. (The Authority will be responsible for preparing all of the Wetlands and Protected Species analysis and documentation required for the permits.) The Consultant shall:
1. Attend the pre-application meetings and site visits with the Authority and regulatory agencies.
 2. Provide additional information requested at the pre-application by regulatory agencies for permits.
 3. Provide aerial maps at a 1"=400' scale which include SCS soils data, 100-year floodplain limits and proposed project.
 4. Provide all plans, calculations, sketches and reports required for permits except as described above.
 5. Provide copies of all drainage calculation, including pond routing nodal diagrams, for the project.
 6. Assist the Authority in responding to any requests for additional information made by regulatory agencies after the permit application is submitted.
 7. Incorporate any changes required by changes in regulatory agency requirements during the course of the project. If this requires additional work by the Consultant a Supplemental Agreement will be prepared.
 8. Prepare a list of adjacent landowners along with address and nine-digit zip code at all wetland encroachment sites.
 9. Provide all permit application material in .pdf format and 7 hard copies.
 10. The Consultant will provide dredge and fill sketched as required by

the permitting agencies if applicable. Mitigation plans, if required, may be added as a supplemental service.

11. Determine extent of floodplain impacts, if any, and provide compensatory flood stages as required.

4.11 Utilities

A. Location

The Consultant shall obtain available utility mapping and information and identify all utilities within the general project limits to determine potential conflicts and relocations. Where a potential conflict exists, the Consultant may need to arrange to probe or expose ("pothole") the utility and survey the horizontal and vertical location of the utility line. The Consultant shall coordinate this effort with involved utility companies. All existing utilities shall be shown on appropriate preliminary construction plans. The Consultant's notes shall include the name and telephone number of contact persons for the construction contractor's use.

B. Utility Coordination

1. The Consultant shall prepare reproducible utility adjustments plans based on information provided by respective utility companies.
2. Private utilities will prepare design plans for the relocation of their facilities. If a utility cannot or will not prepare these design plans, the work shall be added to the scope by Supplemental Agreement and the Consultant shall prepare design plans for utility relocation for approval of the utility and review by the Authority.
3. Where utility conflicts occur which require utility relocation agreements between the affected utility and Authority, the Consultant shall prepare the necessary data/plans required for the agreements. The Consultant shall advise the Authority seven days in advance of meetings with utility companies/agencies scheduled to discuss utility relocations.
4. The preparation and negotiation of the agreement will be performed by the Authority's Project Manager. After approval of the agreement by the utility and Authority, the Consultant shall prepare reproducible utility adjustment sheets identifying proposed relocations with respect to the construction plans.
5. The Consultant shall prepare a utility conflict matrix to assist in

identifying and resolving conflicts between utilities and proposed construction prior to completion of the plans.

6. The Consultant shall obtain utility work schedules from the utility companies.
7. The Consultant shall prepare the Utility Certification Letter certifying that all utility negotiations (full execution of each agreement, approved utility work schedule, technical special provisions written, etc.) have been completed with arrangements made for utility work to be undertaken and completed as required.

4.12 Roadway Design

- A. A Typical Section Package will not be prepared for this project. Rather, typical sections will be prepared as part of the 15% submittal and submitted to the Authority for review and approval.
- B. The Consultant shall design the geometrics for this project using the design standards included in the scope. The design elements shall include, but not be limited to, the horizontal and vertical alignments, cross section template development, lane width, shoulder widths, cross slopes, borders, sight distance, side slopes, lane transitions, superelevations, features of intersections, ramp terminal details, interchanges, and limited access points.
- C. The Consultant shall prepare designs and contract documents for the roadway improvements, including, but not necessarily limited to:
 1. Cover sheet (key sheet)
 2. Summary of Pay Items
 3. General notes
 4. Summary Quantities sheets
 5. Project Layout
 6. Typical roadway sections
 7. Plans and profiles (plans at 1"=50' scale)
 8. Cross-sections (with pattern plan) (1" = 20' horiz.) (1" = 5' vert.)
 9. Earthwork quantities

10. Traffic Control Sheets
11. Utility Adjustment Sheets
12. Details
13. Special provisions
14. Special specifications

4.13 Structures Design

- A. Prior to commencement of final design, the consultant shall prepare a Bridge Concept Memorandum which documents a limited range of structural alternatives and identifies preferred alternatives. Specifically, the alternatives to be examined include beam type, wall type / configuration and foundation pile type.
- B. The Consultant shall prepare designs and contract documents for structural design including, but not necessarily limited to the following items.
 1. Complete Bridge designs will be provided for all bridges.
 2. Retaining walls
 3. Box Culverts
 4. Slope protection
 5. Approach slabs
 6. Details
 7. Summary quantity tables
 8. Special provisions and specifications
 9. Stage construction-sequencing details (if applicable).
 10. Sign\Signal structures.
 11. Sound walls.
 12. The Consultant shall perform Load Rating Analysis per FDOT criteria

for any box culverts and bridges at the 90% design phase. The Load Rating Analysis packages shall be submitted to FDOT for their review and approval.

4.14 Drainage Design

- A. As part of the drainage design requirements, the Consultant shall:
 - 1. Perform all drainage design in accordance with the approved criteria from Section 3.01C.
 - 2. Finalize the pond design at the 30% submittal.
 - 3. Have its chief drainage engineer available at the scheduled (bi-weekly/monthly) team meetings to review progress and discuss problems.
 - 4. Notify the Authority's Project Manager immediately if any deviation from approved design criteria is anticipated.
 - 5. Provide drainage/contour maps used in the development of the drainage design to the Authority for use in scheduled reviews. These maps will be returned to the Consultant along with review comments at the end of the review process.
 - 6. Provide copies of its internal quality control comments and calculations at the scheduled reviews.

Critical duration analysis is not included in this effort and, if required, shall be added to the scope by Supplemental Agreement. A pond siting report is not required.

- B. The Consultant shall prepare designs and contract documents for drainage features including, but not necessarily limited to:
 - 1. Connector pipes
 - 2. Drainage structure details
 - 3. Storm drain and culvert profiles and/or drainage cross-sections
 - 4. Lateral ditches/channels
 - 5. Outfall ditches/channels

6. Retention/detention ponds/exfiltration system

4.15 Roadway Lighting

- A. If required, the Consultant shall provide a complete set of final roadway lighting documents in accordance with FDOT and Authority design criteria. The work shall include coordination with the local utility to provide electrical service. Plan sheet scale shall be at 1"=50' scale.
- B. If required, the Authority will provide a cut sheet for the type of lighting fixtures to be used for this project.

4.16 Traffic Engineering

- A. Traffic Data will be furnished by the Authority.
- B. Maintenance of Traffic Plans
 - 1. The Consultant shall prepare maintenance of traffic plans at scale of 1"=100' to safely and effectively move vehicular and pedestrian traffic during all phases of construction. The designs shall include construction phasing of roadways ingress and egress to existing property owners and businesses, routing, signing and pavement markings, and detour quantity tabulations. Special consideration shall be given to the construction of the drainage system when developing the construction phases. Positive drainage must be maintained at all times.
 - 2. The Consultant shall investigate the need for temporary traffic signals, signs, alternative detour roads, arrow boards, flagging operations, and the use of materials such as sheet pilings in the analysis. A certified designer who has completed the FDOT training course shall prepare the maintenance of traffic plan.
 - 3. Traffic shall be maintained during all phases of project construction at all locations determined by the Authority and other governmental agencies. This includes meeting with the governmental agencies which may be impacted by the maintenance of traffic plans.

4.17 Signing Plans

- A. The Consultant shall prepare designs and contract documents for final signing plans including layouts showing the locations of ground mounted and overhead signs, special sign details, lighting, and any structural or foundation requirements in accordance with applicable design standards. Any requirements for electric service shall be coordinated with the local electric

utility.

- B. The Authority will provide conceptual signing plans for the project.
- C. The Authority will provide preliminary aesthetic input for the architectural modification of standard FDOT details for sign structures.
- D. Plan sheets will be developed at a scale of 1"=50' (11"x17" format).
- F. Propose to relocate and reuse existing structures if they meet current wind load criteria.

4.18 Pavement Marking Plans

- A. The Consultant shall prepare designs and contract documents for final pavement marking plans, including striping, crosswalks, intersection details, reflective pavement markers and traffic delineators.
- B. The pavement marking design will be shown on the same plan sheets as the signing design.

4.19 Right-of-Way Surveys

- A. No additional right-of-way is anticipated for this project.

4.20 Cost Estimates

- A. The Consultant shall prepare and submit to the Authority construction cost estimates at the 60%, 90%, 100%, Pre-Bid and Bid Set submittals outlined herein. The estimate shall be based on the current unit prices as applied to the latest concept of the proposed construction.

4.21 Special Provisions and Specifications

- A. The Consultant shall prepare and submit at the 90% level special provisions, special specifications, and technical special provisions for items, details and procedures not adequately covered by the Authority's Technical Specifications.

4.22 Fiber Optic Network (FON)

- A. Fiber Optic Infrastructure Plans
 - 1. The site construction plans shall be developed at a scale of 1" equals 50 feet. These plans shall include the relocation of all existing fiber optic

ductbanks, cables, manholes, and pull boxes in areas where the existing locations conflict with construction. The Consultant shall identify existing physical features and utilities that will impact the construction and installation of the equipment. The Consultant shall review and modify standard FON details as necessary.

This scope has assumed that two and one half (2.5) miles of ITS relocation will be required consisting of one and one quarter (1.25) miles of relocations on each side of SR 528. Existing fiber optic conduit and cabling will be replaced along the relocation distance and spliced to existing fiber optic cabling in existing splice vaults at the relocation limits. New fiber optic drop cabling will be provided to ITS devices within the relocation area.

2. Fiber optic network (FON) plans shall include the following:
 - a. Roadway geometry
 - b. Rights-of-Way
 - c. Existing utilities within the right-of-way including the Authority's FON
 - d. Physical features affecting construction/installation (sign structures, light poles, fences, etc.)
 - e. Manhole/Pull box locations and stub-out details (standard details provided)
 - f. Device layout
 - g. Device installation details
 - h. Conduit installation details (standard details provided)
 - i. Fiber optic cable route marker detail (standard details provided)
 - j. Fiber count per conduit
 - k. Communications interconnect
 - l. Connectivity with the FON backbone conduits
 - m. Fiber cable design to include link loss budget calculations, per Corning standard recommended procedure
 - n. Fiber cable routing summaries, fiber cable allocation charts, and splice details and tables
 - o. Controller cabinet, CCTV pole, and foundation details
 - p. Power interconnect, calculations to support conductor size, and details. Power conductors to each device location shall be sized to the capacity of the main breaker in the cabinet.
 - q. Grounding

- r. Table of quantities
 - s. Special notes
 - t. Maintenance of fiber operations (protection of existing FON through all phases of construction and cutover phasing to ensure continuous operation of existing ITS devices)
 - u. All existing and proposed FON to be included and shown with roadway cross sections and drainage cross sections
 - v. Relocation or replacement of existing CCTV sites are anticipated under this contract
 - w. Relocation of existing data collection sensor (DCS) sites and any necessary structures, foundations, attachment details, power service, fiber optic connections, and cabinets (standard details provided), in the event existing DCS would not survive project construction.
 - x. Relocation or replacement of existing DMS sites are anticipated under this contract to account for vertical and/or horizontal alignment changes.
 - y. Conversion of any existing ITS devices within the project limits from point-to-point fiber optic modems to gigabit Ethernet field switches, relocation of video encoders from the mainline toll plazas to the CCTV cabinets, and upgrading other cabinet equipment as needed to meet current Authority ITS equipment standards.
3. The Consultant shall take the following information into consideration when developing the site construction plans:
- a. Minimize utility conflicts and adjustments.
 - b. Minimize traffic impact.
 - c. Accessibility and ease of equipment maintenance.
 - d. Safety of equipment maintenance personnel and the traveling public.
 - e. Maintain the existing FON system through all phases of construction.
 - f. Environmental conditions.
 - g. Concurrent/future Authority projects.
 - h. Compatibility with existing and proposed ITS infrastructure (e.g. Authority enhanced grounding standards for ITS devices, Authority transient voltage surge suppression (TVSS) standards for ITS devices, etc.)
 - i. Leased conduits in the Authority FON duct bank that are occupied by the fiber optic cable of other agencies or entities.

B. Splice and Cable Routing Details

1. The Consultant shall provide splicing detail diagrams to document fiber optic splices within and between manholes, ITS devices, tollbooths, and other junction points.
2. Splicing tables shall include ITS device connectivity, fiber use, drop cable fiber identification, drop cable identification, backbone cable identification, translateral cable identification, backbone into mainline cable identification, and toll plaza patch panel jack.
3. The Consultant shall provide cable routing diagrams and fiber allocation charts in the Authority's standard format to document the functional connectivity between fiber optic conduit and all splices.

C. Maintenance Of Fiber Operations

1. The Consultant shall provide a plan of action to ensure existing fiber optic network is not disrupted during construction operations.
2. The Consultant shall determine the sequence of fiber optic cable splices to minimize disruption to communications.

D. Inside Plant Plans

1. The Consultant shall be responsible for any data collection necessary to complete its design.
2. All equipment shown on the inside-plant construction plans shall be clearly delineated as existing, proposed, or by-others. The Consultant shall be responsible for identifying and detailing on the inside-plant construction plans with notes and drawings any make-ready work required. The Consultant shall also provide a table of quantities for all materials and equipment specified in the inside-plant construction plans.
3. The Consultant shall sign and seal final inside-plant construction plans by a licensed professional Electrical Engineer registered in the state of Florida. The inside-plant construction plans shall be subject to the review and approval of the Authority.

Quantities And General Notes

4. Standard notes shall be included to provide direction to the contractor and provide pay item descriptions as necessary.

E. Standard Authority specifications will be provided to the Consultant. The

Consultant shall review the specifications and modify them as necessary.

4.23 Toll Plazas

- A. This proposal does not include modifications and/or improvements to any of the existing toll plazas, including any associated equipment and gantry systems.

4.24 Post-Design Services

- A. Services shall begin after authorization by the Authority. The Consultant compensation for post-design services may be added by Supplemental Agreement and shall be at an hourly rate, inclusive of overhead, profit and expenses, and exclusive of travel. No compensation will be made for correction of errors and omissions.
- B. The Consultant shall support the post design process as follows:
 - a. Answer questions relative to the plans, typical sections, quantities and special provisions.
 - b. Make any necessary corrections to the plans, typical sections, quantities, notes, etc., as may be required.
 - c. Attend pre-award meeting with construction contractor, the Authority, and the Authority's CEI.
- C. The Consultant shall, prior to the pre-bid conference, be prepared to walk the project with the Authority's CEI to discuss the plans and details. The Consultant shall be prepared to attend the pre-bid conference and respond to questions related to the plans, details, and special provisions.
- D. The Consultant shall prepare any addenda required to clarify the work included in the construction contract documents. Addenda may be required based on the project inspection with the CEI, or questions developed in the pre-bid conference, or conditions discovered by bidders during the bid period.
- E. The Consultant shall be available to respond to questions in the field that may arise relative to the plans, details or special provisions during construction. The Consultant shall periodically visit the project site to observe the progress of construction on the project. This visit will not replace the formal construction inspection by the Authority. It is intended to provide the opportunity of the design team to observe whether the work is being performed in general conformance with the project plans. Written memos of all such field trips shall be submitted to the Authority within five working days of the trip.
- F. The Consultant shall review and approve shop drawings for structural,

lighting, signing, traffic signal elements, and toll plaza shop drawings. This work will include the erection procedure plans, review proposals for substitutions, develop supplemental agreements, and provide other engineering services required to facilitate construction of the project. Reviews will be conducted and returned within two weeks from receipt of information.

- G. The Consultant shall appoint a responsible member of the firm to be the contact person for all post-design services. The person should be continually available during the course of construction for review of design plans.
- H. The Consultant shall make every reasonable effort to process any material presented for review in a prompt manner recognizing a construction contract is underway.
- I. The Consultant shall attend partnering meetings as requested by the Authority's Project Manager. The Consultant shall also attend progress/coordination meetings as requested by the Authority's Project Manager including, but not limited to, the Notice to Proceed meeting.
- J. Approved design bridge load ratings were obtained by the Consultant under the final design phase of this contract. The Contractor shall be responsible for revising and resubmitting the load ratings if changes to the bridge design occur during construction. Otherwise, the Consultant shall provide written correspondence to FDOT when construction is complete that the bridges were constructed in accordance with the plans and the design load ratings still apply.
- K. The Consultant shall provide geotechnical engineering services as needed by the Authority, relative to pile driving, earthwork, embankment and MSE wall construction.
- L. The Consultant shall provide utility consulting services as needed by the Authority, relative to proposed utility adjustments within the project limits.
- M. The Consultant shall prepare Record Drawings in electronic format following completion of the construction phase. The Authority shall provide all As-Built drawings from the Contractor / CEI to the Consultant for their use in preparation of the Record Drawings.

5.0 MATERIALS FURNISHED BY THE AUTHORITY OR ITS DESIGNEE

5.01 Record Documents

- A. The Authority will provide the Consultant, within ten working days of a written request, the following items:
 - 1. Available record drawings of existing conditions
 - 2. Available right-of-way plans of existing conditions
 - 3. Current list available to the Authority of owners of all affected properties within the section.
 - 4. Sample plans to be used as guidelines for format, organization and content.
 - 5. Title searches of all affected properties for use by the Consultant in the preparation of the right-of-way maps.
 - 6. Contract unit prices from latest Authority construction projects.

5.02 Traffic Data

- A. The Authority will provide the following design traffic data:
 - 1. Current and design year ADT
 - 2. Current and design year peak hour volumes
 - 3. Turning movements at each intersection/interchange
 - 4. K, D and T factors
 - 5. Design speed - See Section 3.02, Geometry.
 - 6. AVI Percentages

5.03 Other

- 1. Utility designates for the FON and roadway lighting within CFX right-of-way.

6.0 WORK PERFORMED BY THE AUTHORITY OR ITS DESIGNEE

6.01 Right-of-Way Acquisition

- A. If necessary, the Authority, or its designee, will review all right-of-way plans, parcel sketches and legal descriptions prepared by the Consultant. The Authority will handle all appraisals, negotiations, relocations, condemnation, and property settlements.

6.02 Utility Agreements

- A. The Authority will support, as necessary, the Consultant's acquisition of information required for utility agreements.

6.03 Public Involvement

- A. The Authority will provide a moderator for all required public meetings and provide guidelines for the Public Involvement aspects of the project. The need for public meetings or public hearings will be determined by the Authority. The Authority will be responsible for mailings and advertisements for the public meetings.

6.04 Contracts and Specifications Services

- A. The Authority will prepare the necessary bid documents for the construction contract using plans, technical special provisions, and special specifications prepared by the Consultant.

6.05 Post-Design Services

- A. The Authority will be the principal initial contact for post-design questions and answer questions on a limited scope.

6.06 Environmental Permits

- A. The Authority will review and submit the environmental permit applications and coordinate with the Consultant on requests for additional information from the regulatory agencies.
- B. The Authority will stake wetland lines and coordinate agency site visits. The Authority will also prepare the wetland and wildlife analysis and documentation for the permits.

6.07 Conceptual Specialty Design

- A. The Authority will provide a conceptual major guide signing plan.
- B. The Authority will provide conceptual aesthetics design and treatments for structures.

7.0 ADMINISTRATION

7.01 Central Florida Expressway Authority

- A. The Authority's Project Manager will administer the Consultant services detailed in this scope.
- B. All contractual payments and changes shall be reviewed and approved by the Authority's Project Manager.

7.02 Authority's Project Manager

The Authority's Project Manager will:

- A. Conduct ongoing reviews of the Consultant's progress in performing the work and furnish technical comments in a timely manner.
- B. Review the Consultant's billings.
- C. Review and evaluate the Consultant's requests for extension of time and supplemental agreements and recommend appropriate action.
- D. Review all correspondence with public agencies prior to the Consultant's mailing of any correspondence except for requests for information.
- E. Coordinate the distribution of public information.
- F. Coordinate the data (including documentation of prior rights, cost estimates and plans) necessary for the Authority to prepare and execute all utility and railroad agreements.
- G. Conduct an introductory meeting to deliver relevant information and explain the administration process.
- H. Review the Consultant's Quality Control program and the Consultant's conformance to the Quality Control Program.
- I. Provide a focal point contact for all questions, requests, and submittals.
- J. Provide a system to monitor the Consultant's schedule, progress and key milestone submittal dates.

7.03 Consultant

- A. The Consultant has total responsibility for the accuracy and completeness of the construction contract documents and related design prepared under this project and shall check all such material accordingly. The plans will be reviewed by Authority for conformity with the Authority procedures and the terms of the Contract, as well as coordination with adjacent design contracts. Review by the Authority does not include detailed review or checking of design of major components and related details or the accuracy with which such designs are depicted on the plans. The responsibility for accuracy and completeness of such items remains solely that of the Consultant. The Consultant shall:
1. Establish, furnish and maintain suitable office facilities to serve as the project office for the duration of the project at a location acceptable to the Authority.
 2. Maintain an adequate staff of qualified support personnel to perform the work necessary to complete the project.
 3. Establish internal accounting methods and procedures for documenting and monitoring project costs.
 4. Establish and maintain contract administration procedures, which will include supplemental agreements, time extensions and subcontracts.

7.04 Project Control

- A. The Consultant shall provide data for the Authority's Management Information System to monitor costs and manpower, and report progress. This project control system may include features to:
1. Determine and highlight critical path work from initial plans as work progresses.
 2. Identify progress against schedule for each identified work item.
 3. Forecast completion dates from current progress.
 4. Highlight rescheduled work in any area which is out of required sequence.

5. Highlight rescheduling that has overloaded any physical area that requires more resources than originally allocated.
6. Forecast future conflicts in any area.

7.05 Work Progress

- A. The Consultant shall meet with the Authority's Project Manager on a bi-weekly basis (or more often if necessary) and provide written progress reports which describe the work performed on each task. The dates and times of these meetings will be established by the Authority. Two working days prior to each progress meeting, the Consultant shall provide the Authority's Project Manager with a draft copy of the Progress Report and a typewritten agenda for the meeting. The Consultant shall prepare typewritten meeting minutes and submit them to the Authority's Project Manager within five working days after the meeting. The minutes shall indicate issues discussed and the resolution or action required to resolve any issues.

7.06 Schedule

- A. Within twenty (20) calendar days after receipt of the Notice to Proceed, the Consultant shall provide a schedule of calendar deadlines in a format prescribed by the Authority.

7.07 Project Related Correspondence

- A. The Consultant shall furnish copies of all written correspondence between the Consultant and any party pertaining specifically to this project to the Authority for its records within one (1) week of the receipt or mailing of said correspondence. The Consultant shall record and distribute the minutes of all meetings pertaining to this project.

7.08 Quality Control

- A. The Consultant has total responsibility for the accuracy and completeness of the plans and related designs prepared under this project and shall check all such material accordingly. Consultant shall have a quality control plan in effect during the entire time work is being performed under the Contract. The plan shall establish a process whereby calculations are independently checked, plans checked, corrected and back checked. All plans, calculations, and documents submitted for review shall be clearly marked as being fully checked by a qualified individual other than the originator. The FDOT plan review checklist shall be attached and appropriate items checked.

- B. The Consultant's quality control plan shall be submitted to the Authority within fifteen (15) working days of receipt of written notice to proceed.

7.09 Consultant Personnel

- A. The Consultant's work shall be performed and/or directed by the key personnel identified in Exhibit "D". Any changes in the indicated key personnel or the Consultant's office in charge of the work shall be subject to review and approval by the Authority.

7.10 Site Visit

- A. The Consultant shall arrange a site visit within ten (10) calendar days of receipt of written Notice to Proceed. Consultant personnel assigned to perform the work on the project shall attend. Authority representatives will be present. Within seven calendar days of the site visit, the Consultant shall issue to the Authority a brief written report including observations, discussions, and any questions pertaining to the scope or level of effort of the project. The purpose of this visit is to acquaint key personnel with the details and features of the project to facilitate the design process.

7.11 Acceptability of the Work

- A. The plans, design, calculations, reports and other documents furnished under this Scope of Services shall conform to the "standards-of-the industry" quality as acceptable to the Authority. The criteria for acceptance shall be a product of neat appearance, well organized, accurate and complete, technically and grammatically correct, checked in accordance with the approved Quality Control program, and have the maker and checker identified. The minimum standard of appearance, organization and content of drawings shall be similar to the type produced by the Florida Department of Transportation and the Authority.

7.12 Design Documentation

- A. The Consultant shall submit any design notes, sketches, worksheets, and computations to document the design conclusions reached during the development of the construction contract documents to the Authority for review.

- B. The design notes and computations shall be recorded on 8-1/2" x 11" computation sheets, appropriately titled, numbered, dated, indexed and signed by the designer and checker. Computer output forms and other oversized sheets shall be folded or legibly reduced to 8-1/2" x 11" size. The data shall be bound in a hard-back folder for submittal to the Authority.
- C. Three copies of the design notes and computations shall be submitted to Authority with each review submittal. When the plans are submitted for 90% review, the design notes and computations corrected for any Authority comments shall be resubmitted. At the project completion (bid set), a final set of the design notes and computations, sealed by a Professional Engineer, registered in the State of Florida, shall be submitted with the record set of plans and tracings.
- D. Design notes and calculations shall include, but are not necessarily limited to, the following data:
 - 1. Field survey notes and computations.
 - 2. Design criteria used for the project.
 - 3. Geometric design calculations for horizontal alignment.
 - 4. Vertical geometry calculations.
 - 5. Right-of-way calculations.
 - 6. Drainage computations.
 - 7. Structural design calculations.
 - 8. Geotechnical report.
 - 9. Hydraulics Report for each bridged stream crossing.
 - 10. Earthwork calculations not included in the quantity computation booklet.
 - 11. Calculations showing cost comparisons of various alternatives considered.
 - 12. Calculations of quantities.
 - 13. Documentation of decisions reached resulting from meetings,

telephone conversations or site visits.

14. Lighting and voltage drop calculations.
15. Lighting service letter from the power company stating the following: service voltage, type of service (overhead or underground), location of power company service point, and any other power company requirements.

7.13 Reviews and Submittals

- A. Review and coordination of the Consultant's work by the Authority shall continue through the project development process
- B. Formal submittals for review shall be made to the Authority when the plans have been developed to the following levels of completion:
 1. Preliminary Engineering (Memorandum) (3 sets and 1 .PDF required)
 2. 30% Roadway Plans (6 sets and 1 .PDF CD/DVD required)
 3. 30% Bridge and Structural Plans (6 sets and 1 .PDF CD/DVD required)
 4. 60% Roadway and specifications, Geotechnical Report (6, 6, and 3 sets and 1 .PDF CD/DVD required)
 5. 60% Bridge Plans required only on Category 2 bridges.
 6. 90% Bridge and Structural Plans (6 sets and 1 .PDF CD/DVD required)
 7. 90% Roadway and specifications (6 and 6 sets and 1 .PDF CD/DVD required)
 8. 100% Roadway, Bridge and specifications, Geotechnical Report (6, 6, 6 and 3 sets and 1 .PDF CD/DVD required))
 9. Pre-Bid Plans (3 sets and 1 .PDF CD/DVD required)
 10. Bid Set (1 set signed and sealed plans, 1 set "clean" plans, 1 set signed and sealed reports and 1 .PDF of all plans and reports)

- C. Formal review submittals shall include copies as listed above. 8-1/2" x 11" and 11" x 17" documents do not require reproducible copies.
- D. Preparation and distribution of roadway and ROW plans to other than the Authority will not be made until approved by the Authority.
- E. The format of review submittal plans shall conform to the FDOT Plans Preparation Manual, except as amended by the Authority.
- F. Due to the compact schedule of the design, review and construction process, any modification to the agreed submittal dates will require a letter from the Consultant to the Authority giving:
 - 1. The reason for the delay.
 - 2. The design components impacted.
 - 3. Proposed methods to maintain submittal dates.
- G. The Consultant shall submit all CADD files, including GEOPAK files, use in the preparation of the plans and right of way mapping on compact disk with the final submittal.

7.14 30% Roadway Plan Submittal

- A. At the completion of this phase, design and plan development should be approximately 30 percent complete except stormwater pond designs. The designs of the stormwater ponds shall be at 90% complete. The following material shall be developed and submitted for review:
 - 1. Key Map Prepared
 - a) Location map shown complete with destinations, ranges and townships.
 - b) Beginning and ending stations shown.
 - c) Any equations on project shown.
 - d) Project numbers and title shown.
 - e) Index shown.

2. Drainage Map Prepared
 - a) Existing culvert sizes and elevations.
 - b) Horizontal alignment shown.
 - c) Drainage areas and flow arrows shown.
 - d) High water information shown.
 - e) Beginning and end stations shown along with any equations on project.
 - f) Interchange supplemental maps prepared.
3. Typical Section Sheets
 - a) Ramp typical sections developed.
 - b) Pavement structure shown.
 - c) Special details developed.
 - d) General notes shown.
4. Plan and Profile Sheets
 - a) Centerline plotted.
 - b) Reference points and bench marks shown.
 - c) Existing topography.
 - d) Base line of surveys, curve data, bearings, etc. shown.
 - e) Beginning and end stations (project and construction).
 - f) Geometric dimensions.
 - g) Proposed and existing limited access right-of-way lines.
 - h) Existing ground line.
 - i) Proposed profile grade.

- j) Type, size and horizontal location of existing utilities.
 - k) Drainage structures and numbers are shown
 - l) Drainage ponds are shown.
5. Cross Sections
- a) Existing ground line.
 - b) Preliminary templates at critical locations (not to exceed 500 feet).
 - c) Existing utilities shown.
6. Interchange Layout and Ramp Profiles
- a) Geometric dimensions.
 - b) Proposed profile grades.
7. Right-of-Way Control Survey
8. Signing and Pavement Markings
- a) Striping layout.
 - b) Sign structure locations.

7.15 30% Bridge and Structural Plan Submittal

- A. At completion of this phase, design and plan development should be approximately 30 percent complete. The Consultant shall refer to FDOT Structural Design Guidelines for plan contents and submittal requirements. Preliminary geotechnical results and recommendations should also be included with this submittal.

7.16 60% Roadway Plan Submittal

- A. At completion of this phase, design and plan development should be approximately 60 percent complete except stormwater pond designs. The designs of the stormwater ponds shall be at 100% complete. The following material shall be developed and submitted for review:

1. Key Map
 - a) Project description and number shown.
 - b) Equations, exceptions and bridge stations shown.
 - c) North arrow and scale included.
 - d) Consultant and Authority sign-off included.
 - e) Contract set index complete.
 - f) Index of sheets updated.
2. Drainage Maps
 - a) Flood data shown.
 - b) Cross drains and storm sewer shown.
 - c) Bridges shown with beginning and ending stations.
 - d) Interchange supplemental sheets updated.
3. Typical Section Sheets
 - a) All required typical sections are included.
 - b) Limited access right-of-way lines are shown.
 - c) Design speed and traffic are shown.
 - d) Special details have been completed.
 - e) Station limits of each typical section are shown.
4. Plan and Profile Sheets
 - a) Match lines shown.
 - b) Limited access right-of-way lines shown.
 - c) Stations and offset shown for all fence corners and angles.

- d) All work shown should be within right-of-way or proposed easement.
- e) Drainage structures and numbers are shown.
- f) Drainage ponds shown.
- g) Curve data and superelevation included.
- h) Pavement edges, shoulders and dimensions shown.
- i) Project and construction limits shown.
- j) Bridges shown with beginning and ending stations.
- k) General Notes.

5. Drainage Structures

- a) Drainage structures plotted and numbered.
- b) Station location and offsets identified.

6. Cross Sections

- a) Templates are shown at all stations.
- b) Limited access right-of-way lines are shown.
- c) Cross section pattern sheet included.
- d) Miscellaneous notes included.
- e) Boring profiles.

7. Interchange Layouts, Ramp Profiles and Intersection Details

- a) Geometric data shown.
- b) Profiles finalized.
- c) Coordinate data shown.

- d) Limited access right-of-way lines shown.
- e) Curve data shown.
- f) Bearings and bridges shown.
- g) Cross roads, frontage roads, and access roads shown.
- h) Intersection details shown.

8. Traffic Control Plans

9. Utility Adjustments

10. Signing and Pavement Marking Plans

11. Highway Lighting Plans

12. Selective Clearing and Grubbing (if required)

7.17 90 % Bridge and Structure Plan Submittal

- A. At completion of this phase, design and plan development should be approximately 90 percent complete. The Consultant shall refer to FDOT Structural Design Guidelines for plan contents and submittal requirements.

7.18 90% Roadway Plan Submittal

- A. At completion of this phase, design and plan development should be approximately 90 percent complete. The following material shall be developed and submitted for review:

1. Key Map

- a) Length of Project with exceptions shown.
- b) Index of sheets updated.

2. Drainage Maps

- a) Drainage divides, areas and flow arrows shown.
- b) Elevation datum and design high water information shown.

- c) Disclaimer and other appropriate notes added.
- 3. Typical Section Sheets
- 4. Plan and Profile Sheets
 - a) Curve Control Points (P.C., P.I., P.T.) flagged and labeled.
 - b) Limits of side road construction.
 - c) Angle and stationing for intersections.
 - d) Treatment for non-standard superelevation transitions diagramed.
 - e) General notes shown.
 - f) Special ditches profiled.
- 5. Drainage Structures
 - a) Existing structures requiring modifications are shown.
 - b) Existing and proposed utilities are shown.
- 6. Soil Borings
 - a) Soils data and estimated high seasonal groundwater table shown.
- 7. Cross Section Sheets
 - a) Scale and special ditch grades shown.
 - b) Utilities plotted.
 - c) Sub-excavation shown.
 - d) Volumes computed and shown.
- 8. Utility Relocation Plans
 - a) Utility relocation plans prepared.

- 9. Traffic Control Plans
 - 10. Signing and Pavement Marking Plans
 - 11. Highway Lighting Plans
 - 12. Selective Clearing and Grubbing (if required)
- 7.19 100% Roadway, Bridge, Structural and Right-of-Way Plans
- A. At the completion of this phase, the design plans and special provisions shall be 100 percent complete.
- 7.20 Pre-Bid Plans
- 7.21 Bid Set

EXHIBIT B

METHOD OF COMPENSATION

EXHIBIT "B"
METHOD OF COMPENSATION

1.00 PURPOSE:

This Exhibit describes and defines the limits of compensation to be made to the CONSULTANT for the services set forth in Exhibit "A" of this Agreement and the method by which payments shall be made.

2.00 AMOUNT OF COMPENSATION:

2.10 The AUTHORITY agrees to pay the CONSULTANT for the performance of services described in Exhibit "A" an amount not to exceed a Total Maximum Limiting Amount of \$1,200,000.00.

2.11 The Total Maximum Limiting Amount for the project assigned under this Agreement shall include:

- A Limiting Amount for Salary Related Costs consisting of the sum of actual salary and wages and the applicable administrative overhead and payroll burden (fringe benefits) costs;
- A Fixed Fee as the Operating Margin or profit paid for the professional services described in this Agreement;
- A Lump Sum Amount for Expenses;
- A Limiting Amount for Subconsultants (as identified in paragraph 5.0 of the Agreement for Professional Services);
- An Allowance Amount for the AUTHORITY to utilize as necessary.

2.12 The Total Maximum Limiting Amount for the project assigned under this Agreement shall consist of the following:

Parsons Brinckerhoff

Total Activity Salary Costs	\$227,063.29
(a) Overhead Additives	
(1) Combined (153.94%)	<u>349,541.23</u>
Subtotal (Salary + Overhead)	576,604.52
(b) Lump Sum for Operating Margin (12.00%)	<u>69,192.54</u>
Subtotal (Salary Related)	645,797.06
(c) Direct Expenses - Lump Sum (Prime)	<u>4,887.59</u>
BASIC FEE	650,684.65
(d) Subcontracts (Limiting Amount)	493,654.56
(e) Allowance	<u>55,660.79</u>
TOTAL MAXIMUM LIMITING AMOUNT	\$1,200,000.00

2.13 It shall be the responsibility of the CONSULTANT to ensure at all times that sufficient funding remains within the Total Maximum Limiting Amount stated above in Section 2.12 to complete the services for the project. Changes in the Total Maximum Limiting Amount for the project shall require execution of a Supplemental Agreement. The CONSULTANT is obligated to complete project services within the Total Maximum Limiting Amount established herein.

3.00 ALLOWABLE COSTS:

The AUTHORITY shall reimburse the CONSULTANT for all reasonable allocable and allowable costs. The reasonableness, allocability and allowability of reimbursements sought under this Agreement are expressly made subject to the terms of (1) this Agreement (2) Federal Acquisition Regulations sub-part 31-2 (3) Office of Management and Budget (OMB) Circular A-87 (46FR9548, January 28, 1981) and A-102 (45FR55086, August 18, 1980) and (4) other pertinent federal and state regulations. By reference hereto, said sub-part of Federal Acquisition Regulations and OMB circulars are hereby incorporated in and made a part of this Agreement. Allowable Costs and Fees are defined as follows:

3.10 Direct Salaries and Wages: All direct salaries and wages of the CONSULTANT and Subconsultants (as identified in paragraph 5.0 of the Agreement for Professional Services) for time expended by personnel in the performance of the work (exclusive of unit price based work performed by Class 2 Subconsultants); however, this shall specifically exclude salaries and payroll burden of Corporate Officers and Principals when expended in the performance of indirect functions.

Direct Salaries and Wages (salary costs) include both straight time payments and all overtime payments made for an employee's services on a project. Straight time costs shall be the hourly rate paid for an employee based on a forty (40) hour work week. Overtime costs shall be the salary costs paid for an employee for work exceeding a forty (40) hour work week. Overtime costs shall be paid as either Straight Overtime costs or Premium Overtime costs.

- Straight Overtime: Straight overtime shall be the portion of overtime compensation paid for employees at the straight time hourly rate and shall be burdened with overhead and fringe benefits.
- Premium Overtime: Premium overtime costs shall be the portion of overtime compensation paid in excess of the straight time hourly rate and shall not be burdened with overhead and fringe benefits.
- Payment of Overtime: Straight Overtime or Premium Overtime shall be paid in accordance with the CONSULTANT'S overtime policies and practices, provided that such compensation plan or practice is so consistently followed, in effect, to imply an equitable treatment of overtime to all the CONSULTANT'S clients.

Premium Overtime is not authorized unless approved in writing by the AUTHORITY'S DIRECTOR.

3.11 Indirect Charges: Administrative overhead and payroll burden costs not to exceed a combined maximum rate of 153.94% when applied to the CONSULTANT'S chargeable salaries and wages. Administrative overhead and payroll burden costs for Subconsultants shall be as established in Exhibit "C".

3.12 Expenses: A Lump Sum Amount shall be paid to the CONSULTANT and all subconsultants for miscellaneous and out-of-pocket expenses as established in Exhibit "C".

3.13 Class 2 Subconsultants: Compensation shall be based on a unit price basis not to exceed the limiting amount established herein. The unit prices acceptable for this agreement shall be at the unit prices established in Exhibit "C".

3.14 Field Survey by subconsultant: Compensation shall be based on a unit price basis not to exceed the limiting amount established herein. The unit prices acceptable for this agreement shall be at the unit prices established in Exhibit "C".

3.15 Fixed Fee: Fixed Fee is the operating margin paid to the CONSULTANT and the Subconsultants for the professional services described in this Agreement (exclusive of unit price based work performed by Class 2 Subconsultants). The fixed fee shall remain fixed regardless of the relation of the actual salary related costs to the estimated salary related costs and regardless of any extension of contract time granted pursuant to paragraph 4.0 of the Agreement for Professional Services. Salary related costs are defined as the sum of direct salaries and wages and the applicable administrative overhead and payroll burden costs.

4.00 METHOD OF PAYMENT:

No more than the Total Maximum Limiting Amount provided for in Section 2.00 shall be paid by the AUTHORITY to the CONSULTANT as follows, subject to the provisions of Section 3.00:

4.10 The CONSULTANT shall be reimbursed monthly for authorized services performed. Payment to the CONSULTANT shall be in an amount to cover costs incurred during the preceding month for actual direct salary and wages, a provisional allowance for the administrative overhead and payroll burden, a portion of Lump Sum expenses and Subconsultant Costs, plus an allowance for Fixed Fee (Operating Margin), less retainage.

The basis for all CONSULTANT and Class 1 Subconsultant (as defined in Section 5.0 in the Agreement for Professional Services) invoices shall be the actual employee salary and wages at the time work was performed on the project by such employee. Staff classification maximum rates have been established in Exhibit "C" for the CONSULTANT and all Class 1 Subconsultants. It is understood that the staff classification maximum rates shall not be exceeded without prior written approval from the AUTHORITY. It is further understood that the staff classification average rates used to generate the Total Maximum Limiting Amount in Exhibit "C" will not be revised throughout the term of the Agreement. All future Supplemental Agreements executed as part of this Agreement shall be based on the negotiated staff classification average rates detailed in Exhibit "C". Class 2 Subconsultants shall prepare their invoices in accordance with the provisions of Section 3.13.

4.11 The combined provisional allowance for administrative overhead and payroll burden, expressed as a percentage of salary related costs, for the CONSULTANT is 153.94 percent.

The provisional allowance for administrative overhead and fringe benefits established herein will be adjusted, as necessary, upon completion of an interim audit during the term of the project, or a post audit following project completion, subject to the following limitations:

- The combined allowance for administrative overhead and fringe benefits shall not exceed 153.94%; and
- Adjustments to the combined allowance for administrative overhead and fringe benefits shall not increase the compensation to the CONSULTANT beyond the Total Maximum Limiting Amount.

4.12 The Fixed Fee (Operating Margin) approved by the AUTHORITY to be paid to the CONSULTANT for the services set forth in this Agreement is established as shown in Section 2.12 of this Exhibit "B".

The CONSULTANT shall earn monthly a portion of its approved fixed fee at 12.00 percent of actual approved salary related costs. Accumulated fixed fee earnings are subject to the aforementioned fixed fee amount. When project services have been satisfactorily completed, the difference between the approved and previously earned fixed fee shall be due and payable to the CONSULTANT and Subconsultants (exclusive of unit price based work performed by Class 2 Subconsultants).

4.13 The CONSULTANT shall earn a portion of its established Lump Sum expense cost in the amount equal to such Lump Sum equally distributed over the project's anticipated duration. Any balance due the CONSULTANT upon completion of a project shall be paid in the final invoice.

4.14 The CONSULTANT shall be compensated for Subconsultant Services in accordance with Section 3.00 of this Exhibit "B" for actual work performed.

4.15 Payments to the CONSULTANT shall be subject to retainage. Retainage shall be calculated as a percent of the sum of salary costs, administrative overhead and payroll burden, and operating margin. No retainage shall be withheld on expenses or Subconsultant Services.

The AUTHORITY shall withhold from monthly payments a retainage of ten percent (10%) until fifty percent (50%) of the work is completed, and five percent (5%) thereafter until all work is completed. Retainage withheld at project completion shall be released to the CONSULTANT upon satisfactory completion of all services and acceptance of all deliverables by the AUTHORITY.

4.16 The CONSULTANT shall be responsible for the consolidation and submittal of one (1) original monthly invoice, in the form and detail established or approved by the AUTHORITY. All payments on such invoices are conditional and subject to adjustment as a result of a final audit as to the allowability of costs in accordance with this Agreement. Invoices shall include an itemization and substantiation of costs incurred. The itemization must include the amount budgeted, current amount billed, total billed to date and amount to complete.

4.17 The CONSULTANT shall promptly pay all subconsultants their proportionate share of payments received from the AUTHORITY.

4.18 The AUTHORITY reserves the right to withhold payment or payments in whole or in part, and to continue to withhold any such payments for work not completed, completed unsatisfactorily, work that is behind schedule or work that is otherwise performed in an inadequate or untimely fashion as determined by the AUTHORITY. Any and all such payment previously withheld shall be released and paid to CONSULTANT promptly when the work is subsequently satisfactorily performed notwithstanding paragraph 4.0 of the Agreement for Professional Services.

5.00 PROJECT CLOSEOUT:

5.10 Final Audit: The CONSULTANT shall permit the AUTHORITY to perform or have performed an audit of the records of the CONSULTANT and any or all subconsultants to support the compensation paid the CONSULTANT. The audit will be performed as soon as practical after completion and acceptance of the contracted services. In the event funds paid to the CONSULTANT under this Agreement are subsequently properly disallowed by the AUTHORITY because of accounting errors or charges not in conformity with this Agreement, the CONSULTANT agrees that such disallowed amounts are due to the AUTHORITY upon demand. Further, the AUTHORITY shall have the right to deduct from any payment due the CONSULTANT under any other contract between the AUTHORITY and the CONSULTANT an amount sufficient to satisfy any amount due and owing the AUTHORITY by the CONSULTANT under this Agreement. Final payment to the CONSULTANT shall be adjusted for audit results.

5.11 Certificate of Completion: Subsequent to the completion of the final audit, a Certificate of Completion will be prepared for execution by both parties stating the total compensation due the CONSULTANT, the amount previously paid, and the difference.

Upon execution of the Certificate of Completion, the CONSULTANT shall either submit a termination invoice for an amount due or refund to the AUTHORITY for the overpayment, provided the net difference is not zero.

EXHIBIT C

DETAILS OF COSTS AND FEES

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: 0
 County: 0
 FPN: 0
 FAP No.: 3011-029-P

Consultant Name: Parsons Brinckerhoff
 Consultant No.: enter consultants proj. number
 Date: 7/29/2015
 Estimator: insert name

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Manager	Senior Engineer	Engineer	Designer	CADD Support	Structures Manager	Senior Struct Eng	Struct Proj Engineer	Struct Engineer	Engineer Intern	Structures Designer	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
3. Project General and Project Common Tasks	190	95	95	0	0	0	0	0	0	0	0	0	0	190	\$14,091	\$74.17
4. Roadway Analysis	1,349	81	242	351	337	337	0	0	0	0	0	0	0	1,348	\$88,740	\$50.99
5. Roadway Plans	784	47	140	204	196	196	0	0	0	0	0	0	0	783	\$39,911	\$50.97
6. Drainage Analysis	548	33	98	142	137	137	0	0	0	0	0	0	0	547	\$27,887	\$50.98
7. Utilities	8	0	0	2	2	2	0	0	0	0	0	0	0	8	\$266	\$0.00
8. Environmental Permits, Compliance & Clearances	268	16	49	69	67	67	0	0	0	0	0	0	0	268	\$13,678	\$51.04
9. Structures - Misc. Tasks, Dwg, Non-Tech	317	19	0	0	0	0	0	70	0	228	0	0	0	317	\$14,890	\$46.97
10. Structures - Bridge Development Report	152	9	0	0	0	0	0	34	0	109	0	0	0	152	\$7,149	\$47.03
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
13. Structures - Medium Span Concrete Bridge	728	44	0	0	0	0	0	159	0	523	0	0	0	728	\$34,080	\$46.94
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
17. Structures - Retaining Walls	60	4	0	0	0	0	0	13	0	43	0	0	0	60	\$2,827	\$47.12
18. Structures - Miscellaneous	52	3	0	0	0	0	0	12	0	37	0	0	0	52	\$2,454	\$47.20
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
30. Geotechnical	20	1	0	19	0	0	0	0	0	0	0	0	0	20	\$1,089	\$0.00
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0.00
Total Staff Hours	4,472	352	624	787	739	739	0	288	0	940	0	0	0	4,469		
Total Staff Cost		\$27,864.32	\$43,162.08	\$41,821.18	\$33,461.92	\$25,806.35	\$0.00	\$20,010.24	\$0.00	\$35,137.20	\$0.00	\$0.00	\$0.00		\$227,063.29	\$50.81

Check = \$227,063.29

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: 153.94% \$227,063.29
 OPERATING MARGIN: 12% \$349,541.23
 FCCM (Facilities Capital Cost Money): 0.00% \$69,192.54
 LUMP SUM EXPENSES: \$4,887.59

Survey (Field - If by Prime) 0 4-man crew
 days @ \$ - / day
SUBTOTAL ESTIMATED FEE: \$650,684.65

Subconsulta Antillian \$64,224.78
 Subconsulta GEC \$126,773.18
 Subconsulta VHB \$104,907.23
 Subconsulta WBQ \$175,980.00
 Subconsulta McKim and Creed \$21,769.37

SUBTOTAL SUBCONSULTANTS: \$493,654.66

GRAND TOTAL ESTIMATED FEE: \$1,144,339.21

REIMBURSEABLE OUT-OF-POCKET EXPENSES

Consultant: Parsons Brinckerhoff PB Project No: _____
 Description: CFX Project No 528-131 - SR 528 Bridge Replacement Over The Econlockhatchee River
 Solicitation No (s): _____

PHOTOGRAPHY

Film & Development - Color 24 exposure 0 rolls x \$8.00 per roll = \$0.00

PHOTOGRAPHY TOTAL: \$0.00

REPRODUCTION

Number of sets required>>(See Note 1 Below)	Sheet Count	Color Plot 24x36	B&W Plot 24x36	Phase Review 11x17	B&W Drawing/Tab	Color Drawing/Tab
Task Description						
PLAN SHEETS						
Roadway Plans	60	0	20	2142	0	0
Signing & Marking Plans	14	0	0	357	0	0
Structures Plans	33	0	0	842	0	0
Lighting Plans	14	0	0	357	0	0
ITS Plans	61	0	0	1556	0	0
Plans for QC	182	0	0	1820	0	0
REPORTS						
Roadway	0	0	0	0	0	0
Bridge	40	0	0	0	540	72
BHR	40	0	0	0	540	72
Drainage	200	36	0	0	4500	600
Geotechnical	200	36	0	0	4500	600
Lighting / ITS	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
Subtotal	844	72	20	7074	10080	1344
Working Copies (10% of Subtotal)		7	2	707	1008	134
UNIT TOTALS:		79	22	7781	11088	1478
UNIT COSTS:		\$0.50	\$1.00	\$0.15	\$0.08	\$0.30
TOTAL COSTS:		\$39.50	\$22.00	\$1,167.15	\$887.04	\$443.40

REPRODUCTION TOTAL: \$2,559.09

OTHER MATERIALS / SERVICES

<u>30</u>	Plan Binding	x	\$ <u>2.60</u>	per copy =	<u>\$78.00</u>
<u>100</u>	Report Binding	x	\$ <u>5.00</u>	per copy =	<u>\$500.00</u>
<u>5</u>	Boards	x	\$ <u>35.00</u>	per sht =	<u>\$175.00</u>
<u>12</u>	CD	x	\$ <u>15.00</u>	per sht =	<u>\$180.00</u>

OTHER MATERIALS TOTAL: \$933.00

TRAVEL EXPENSES

Per Diem:	trips x	<u>1</u>	people	x	<u>0</u>	days x	<u>\$21.00</u>	per day =	<u>\$0.00</u>
Hotel:	trips x	<u>1</u>	nites/trip	x	\$ <u>72.15</u>	per nite		=	<u>\$0.00</u>
Rental Car:	trips x	<u>0</u>	days	x	\$ <u>37.31</u>	per day		=	<u>\$0.00</u>
Airfare:	trips x	<u>1</u>	people	x	\$ <u>103.50</u>	per trip		=	<u>\$0.00</u>

Per Diem:	trips x	<u>1</u>	people	x	<u>0</u>	days x	<u>\$21.00</u>	per day =	<u>\$0.00</u>
Hotel:	trips x	<u>1</u>	people	x	<u>0</u>	nites/trip x	\$ <u>72.15</u>	per nite =	<u>\$0.00</u>
Rental Car:	trips x	<u>1</u>	days	x	\$ <u>37.31</u>	per day		=	<u>\$0.00</u>
Airfare:	trips x	<u>1</u>	people	x	\$ <u>103.50</u>	per trip		=	<u>\$0.00</u>

Mileage:	<u>20</u>	trips x	<u>70</u>	miles	x	<u>\$0.445</u>	per mile	=	<u>\$623.00</u>
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Mileage:	<u>10</u>	trips x	<u>10</u>	miles	x	<u>\$0.445</u>	per mile	=	<u>\$44.50</u>
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Mileage:	<u>10</u>	trips x	<u>40</u>	miles	x	<u>\$0.445</u>	per mile	=	<u>\$178.00</u>
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TOTAL TRAVEL EXPENSES: \$845.50

MONTHLY SHIPPING COSTS

Shipping & Telephone Costs: 8 months x \$50.00 = \$400.00

MISCELLANEOUS EXPENSES

Submittal Package Delivery	<u>10</u>	EA	x	<u>\$15.00</u>	=	<u>\$150.00</u>
					=	<u>\$0.00</u>
					=	<u>\$0.00</u>

TOTAL OUT-OF-POCKET EXPENSES: \$4,887.59

Note 1: Total number of plan sheets and reports required for phase reviews based on Phase 1=50% of total sheets, Phase 2=75%, Phase III, Phase IV, and Final Plans =100%. Plan submittals require 6 sets, Reports 3 sets, plus 2 sets of of plans and drainage for permitting

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: SR 528 Econlockhatchee Bridge Widening
 County: Orange
 FPN: 528-131
 FAP No.: N/A

Consultant Name: PB/ANTILLIAN Engineering Associates, Inc.
 Consultant No.: enter consultants proj. number
 Date: 7/29/2015
 Estimator: PGS

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Chief Eng	Senior Eng	Project Eng	Eng Intern	Sr. Eng Tech	CADD	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
3. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
9. Structures - Misc. Tasks, Dwg, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	320	0	77	210	0	0	33	0	0	0	0	0	0	320	\$41,195	\$128.74
Total Staff Hours	320	0	77	210	0	0	33	0	0	0	0	0	0	320		
Total Staff Cost		\$0.00	\$10,443.51	\$28,009.80	\$0.00	\$0.00	\$2,741.97	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$41,195.28	\$128.74

Survey Field Days by Subconsultant
 4 - Person Crew:

Notes:

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

135.63485	133.37182	0	0	83.08553
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SALARY RELATED COSTS:

OVERHEAD:	1,000	\$41,195.28
PROFIT		\$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	\$0.00
SUBTOTAL ESTIMATED FEE:		\$41,195.28
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
SUBTOTAL ESTIMATED FEE:		\$41,195.28
Geotechnical Field and Lab Testing		\$23,029.50
SUBTOTAL ESTIMATED FEE:		\$64,224.78
Optional Services		\$0.00
GRAND TOTAL ESTIMATED FEE:		\$64,224.78

SUMMARY GEOTECHNICAL & CONTAMINATION SERVICES**PROJECT:** SR 528 Econlockhatchee Bridge Widening**FPID:****FEE SCHEDULE:** 2015**PREPARED BY:** PGS**DATE:** 7/29/2015

Item	Description	Unit	Unit Price	No of Units	Cost
01.00.00	GEOTECHNICAL FIELD EXPLORATION				
01.01.00	Crew & Equipment Mobilization:				
01.01.01	Truck Rig Mobilization	EA	\$450.00	0	\$ -
01.01.02	Mudbug Mobilization	EA	\$500.00	2	\$ 1,000.00
01.01.03	Track Rig Mobilization	EA	\$3,000.00	0	\$ -
01.01.04	Barge (small) Mobilization	EA	\$8,500.00	0	\$ -
01.01.05	Barge (offshore) Mobilization	EA	N/A	0	\$ -
01.01.06	CPT Rig Mobilization	EA	\$500.00	0	\$ -
01.01.07	Support Boat Mobilization	EA	\$200.00	0	\$ -
01.01.08	Pavement Coring Equipment Mobilization	EA	\$250.00	0	\$ -
01.01.09	Soil Survey/Coring/GPR Crew Mobilization	EA	\$250.00	0	\$ -
01.01.10	Tri Pod Rig Mobilization	EA	\$2,500.00	0	\$ -
01.01.11	Low Clearance Rig Mobilization	EA	N/A	0	\$ -
01.01.12	Drill Rig Remobilization	EA	\$150.00	0	\$ -
01.02.00	Auger Borings (ASTM D-1452):				
01.02.01	Truck Auger Borings	LF	\$9.00	0	\$ -
01.02.02	Mudbug Auger Borings	LF	\$11.25	810	\$ 9,112.50
01.02.03	Track Auger Borings	LF	\$13.50	0	\$ -
01.03.00	Standard Penetration Test Borings (ASTM D-1586):				
01.03.01	SPT - Truck/MB:				
01.03.01A	SPT - Truck/MB: 0-50 FT	LF	\$12.00	180	\$ 2,160.00
01.03.01B	SPT - Truck/MB: 50-100 FT	LF	\$14.00	0	\$ -
01.03.01C	SPT - Truck/MB: 100-150 FT	LF	\$21.00	0	\$ -
01.03.01D	SPT - Truck/MB: 150-200 FT	LF	\$28.00	0	\$ -
01.03.01E	SPT - Truck/MB: 200-250 FT	LF	\$38.00	0	\$ -
01.03.01F	SPT - Truck/MB: 250-300 FT	LF	N/A	0	\$ -
01.03.02	SPT - B/T/A:				
01.03.02A	SPT- B/T/A: 0-50 FT	LF	N/A	0	\$ -
01.03.02B	SPT- B/T/A: 50-100 FT	LF	N/A	0	\$ -
01.03.02C	SPT- B/T/A: 100-150 FT	LF	N/A	0	\$ -
01.03.02D	SPT- B/T/A: 150-200 FT	LF	N/A	0	\$ -

SUMMARY GEOTECHNICAL & CONTAMINATION SERVICES**FEE SCHEDULE:** 2015**PROJECT:** SR 528 Econlockhatchee Bridge Widening**PREPARED BY:** PGS**FPID:****DATE:** 7/29/2015

Item	Description	Unit	Unit Price	No of Units	Cost
01.03.02E	SPT- B/T/A: 200-250 FT	LF	N/A	0	\$ -
01.03.02F	SPT- B/T/A: 250-300 FT	LF	N/A	0	\$ -
01.04.00	Cone Penetration Test Soundings (ASTM D-3441):				
01.04.01	CPT - Truck/MB:				
01.04.01A	CPT - Truck/MB: 0-50 FT	LF	\$11.50	0	\$ -
01.04.01B	CPT - Truck/MB: 50-100 FT	LF	\$11.50	0	\$ -
01.04.01C	CPT - Truck/MB: 100-150 FT	LF	\$12.50	0	\$ -
01.04.01D	CPT - Truck/MB: 150-200 FT	LF	N/A	0	\$ -
01.04.01E	CPT - Truck/MB: 200-250 FT	LF	N/A	0	\$ -
01.04.01F	CPT - Truck/MB: 250-300 FT	LF	N/A	0	\$ -
01.04.02	CPT - B/T/A:				
01.04.02A	CPT - B/T/A: 0-50 FT	LF	N/A	0	\$ -
01.04.02B	CPT - B/T/A: 50-100 FT	LF	N/A	0	\$ -
01.04.02C	CPT - B/T/A: 100-150 FT	LF	N/A	0	\$ -
01.04.02D	CPT - B/T/A: 150-200 FT	LF	N/A	0	\$ -
01.04.02E	CPT - B/T/A: 200-250 FT	LF	N/A	0	\$ -
01.04.02F	CPT - B/T/A: 250-300 FT	LF	N/A	0	\$ -
01.05.00	Rock Coring - HW Barrel (ASTM D-2113):				
01.05.01	Rock Coring - Truck/MB:				
01.05.01A	Rock Coring - Truck/MB: 0-50 FT	LF	\$35.00	0	\$ -
01.05.01B	Rock Coring - Truck/MB: 50-100 FT	LF	\$38.00	0	\$ -
01.05.01C	Rock Coring - Truck/MB: 100-150 FT	LF	\$43.00	0	\$ -
01.05.01D	Rock Coring - Truck/MB: 150-200 FT	LF	\$48.00	0	\$ -
01.05.01E	Rock Coring - Truck/MB: 200-250 FT	LF	\$55.00	0	\$ -
01.05.01F	Rock Coring - Truck/MB: 250-300 FT	LF	N/A	0	\$ -
01.05.02	Rock Coring - B/T/A:				
01.05.02A	Rock Coring - B/T/A: 0-50 FT	LF	N/A	0	\$ -
01.05.02B	Rock Coring - B/T/A: 50-100 FT	LF	N/A	0	\$ -
01.05.02C	Rock Coring - B/T/A: 100-150 FT	LF	N/A	0	\$ -
01.05.02D	Rock Coring - B/T/A: 150-200 FT	LF	N/A	0	\$ -
01.05.02E	Rock Coring - B/T/A: 200-250 FT	LF	N/A	0	\$ -

SUMMARY GEOTECHNICAL & CONTAMINATION SERVICES**FEE SCHEDULE:** 2015**PROJECT:** SR 528 Econlockhatchee Bridge Widening**PREPARED BY:** PGS**FPID:****DATE:** 7/29/2015

Item	Description	Unit	Unit Price	No of Units	Cost
01.05.02F	Rock Coring - B/T/A: 250-300 FT	LF	N/A	0	\$ -
01.06.00	Grout Seal Boreholes:				
01.06.01	Grout Boreholes - Truck/MB:				
01.06.01A	Grout - Truck/MB: 0-50 FT	LF	\$4.50	180	\$ 810.00
01.06.01B	Grout - Truck/MB: 50-100 FT	LF	\$5.00	0	\$ -
01.06.01C	Grout - Truck/MB: 100-150 FT	LF	\$5.50	0	\$ -
01.06.01D	Grout - Truck/MB: 150-200 FT	LF	\$6.00	0	\$ -
01.06.01E	Grout - Truck/MB: 200-250 FT	LF	\$6.50	0	\$ -
01.06.01F	Grout - Truck/MB: 250-300 FT	LF	N/A	0	\$ -
01.06.02	Grout Boreholes - B/T/A:				
01.06.02A	Grout - B/T/A: 0-50 FT	LF	N/A	0	\$ -
01.06.02B	Grout - B/T/A: 50-100 FT	LF	N/A	0	\$ -
01.06.02C	Grout - B/T/A: 100-150 FT	LF	N/A	0	\$ -
01.06.02D	Grout - B/T/A: 150-200 FT	LF	N/A	0	\$ -
01.06.02E	Grout - B/T/A: 200-250 FT	LF	N/A	0	\$ -
01.06.02F	Grout - B/T/A: 250-300 FT	LF	N/A	0	\$ -
01.07.00	Temporary Casing:				
01.07.01	3" Temp. Casing - Truck/MB:				
01.07.01A	3" Casing - Truck/MB: 0-50 FT	LF	\$9.00	25	\$ 225.00
01.07.01B	3" Casing - Truck/MB: 50-100 FT	LF	\$10.00	0	\$ -
01.07.01C	3" Casing - Truck/MB: 100-150 FT	LF	\$12.00	0	\$ -
01.07.01D	3" Casing - Truck/MB: 150-200 FT	LF	\$14.00	0	\$ -
01.07.01E	3" Casing - Truck/MB: 200-250 FT	LF	\$16.00	0	\$ -
01.07.01F	3" Casing - Truck/MB: 250-300 FT	LF	N/A	0	\$ -
01.07.02	3" Temp. Casing - B/T/A:				
01.07.02A	3" Casing - B/T/A: 0-50 FT	LF	N/A	0	\$ -
01.07.02B	3" Casing - B/T/A: 50-100 FT	LF	N/A	0	\$ -
01.07.02C	3" Casing - B/T/A: 100-150 FT	LF	N/A	0	\$ -
01.07.02D	3" Casing - B/T/A: 150-200 FT	LF	N/A	0	\$ -
01.07.02E	3" Casing - B/T/A: 200-250 FT	LF	N/A	0	\$ -
01.07.02F	3" Casing - B/T/A: 250-300 FT	LF	N/A	0	\$ -

SUMMARY GEOTECHNICAL & CONTAMINATION SERVICES**FEE SCHEDULE:** 2015**PROJECT:** SR 528 Econlockhatchee Bridge Widening**PREPARED BY:** PGS**FPID:****DATE:** 7/29/2015

Item	Description	Unit	Unit Price	No of Units	Cost
01.07.03	4" Temp. Casing - Truck/MB:				
01.07.03A	4" Casing - Truck/MB: 0-50 FT	LF	\$10.00	0	\$ -
01.07.03B	4" Casing - Truck/MB: 50-100 FT	LF	\$12.00	0	\$ -
01.07.03C	4" Casing - Truck/MB: 100-150 FT	LF	\$14.00	0	\$ -
01.07.03D	4" Casing - Truck/MB: 150-200 FT	LF	\$16.00	0	\$ -
01.07.03E	4" Casing - Truck/MB: 200-250 FT	LF	\$18.00	0	\$ -
01.07.03F	4" Casing - Truck/MB: 250-300 FT	LF	N/A	0	\$ -
01.07.04	4" Temp. Casing - B/T/A:				
01.07.04A	4" Casing - B/T/A: 0-50 FT	LF	N/A	0	\$ -
01.07.04B	4" Casing - B/T/A: 50-100 FT	LF	N/A	0	\$ -
01.07.04C	4" Casing - B/T/A: 100-150 FT	LF	N/A	0	\$ -
01.07.04D	4" Casing - B/T/A: 150-200 FT	LF	N/A	0	\$ -
01.07.04E	4" Casing - B/T/A: 200-250 FT	LF	N/A	0	\$ -
01.07.04F	4" Casing - B/T/A: 250-300 FT	LF	N/A	0	\$ -
01.08.00	Extra SPT Samples:				
01.08.01	Extra SPT Samples - Truck/MB:				
01.08.01A	Extra SPT Samples - Truck/MB: 0-50 FT	EA	\$35.00	0	\$ -
01.08.01B	Extra SPT Samples - Truck/MB: 50-100 FT	EA	\$37.00	0	\$ -
01.08.01C	Extra SPT Samples - Truck/MB: 100-150 FT	EA	\$75.00	0	\$ -
01.08.01D	Extra SPT Samples - Truck/MB: 150-200 FT	EA	\$90.00	0	\$ -
01.08.01E	Extra SPT Samples - Truck/MB: 200-250 FT	EA	\$105.00	0	\$ -
01.08.01F	Extra SPT Samples - Truck/MB: 250-300 FT	EA	N/A	0	\$ -
01.08.02	Extra SPT Samples - B/T/A:				
01.08.02A	Extra SPT Samples - B/T/A: 0-50 FT	EA	N/A	0	\$ -
01.08.02B	Extra SPT Samples - B/T/A: 50-100 FT	EA	N/A	0	\$ -
01.08.02C	Extra SPT Samples - B/T/A: 100-150 FT	EA	N/A	0	\$ -
01.08.02D	Extra SPT Samples - B/T/A: 150-200 FT	EA	N/A	0	\$ -
01.08.02E	Extra SPT Samples - B/T/A: 200-250 FT	EA	N/A	0	\$ -
01.08.02F	Extra SPT Samples - B/T/A: 250-300 FT	EA	N/A	0	\$ -
01.09.00	Undisturbed Samples (ASTM D-1587):				
01.09.01	Undisturbed Samples - Truck/MB:				

SUMMARY GEOTECHNICAL & CONTAMINATION SERVICES**FEE SCHEDULE:** 2015**PROJECT:** SR 528 Econlockhatchee Bridge Widening**PREPARED BY:** PGS**FPID:****DATE:** 7/29/2015

Item	Description	Unit	Unit Price	No of Units	Cost
01.09.01A	Undisturbed Samples - Truck/MB: 0-50 FT	EA	\$120.00	0	\$ -
01.09.01B	Undisturbed Samples - Truck/MB: 50-100 FT	EA	\$140.00	0	\$ -
01.09.01C	Undisturbed Samples - Truck/MB: 100-150 FT	EA	\$240.00	0	\$ -
01.09.01D	Undisturbed Samples - Truck/MB: 150-200 FT	EA	\$300.00	0	\$ -
01.09.02	Undisturbed Samples - B/T/A:				
01.09.02A	Undisturbed Samples - B/T/A: 0-50 FT	EA	N/A	0	\$ -
01.09.02B	Undisturbed Samples - B/T/A: 50-100 FT	EA	N/A	0	\$ -
01.09.02C	Undisturbed Samples - B/T/A: 100-150 FT	EA	N/A	0	\$ -
01.09.02D	Undisturbed Samples - B/T/A: 150-200 FT	EA	N/A	0	\$ -
01.10.00	Drill Rig and Crew (Clearing/Difficult Access)				
01.10.01	Drill Rig and 2-Man Crew - Truck/MB	HR	\$200.00	8	\$ 1,600.00
01.10.02	Drill Rig and 2-Man Crew - B/T/A	HR	\$300.00	0	\$ -
01.10.03	Drill Rig and 3-Man Crew - Truck/MB	HR	\$250.00	4	\$ 1,000.00
01.10.04	Drill Rig and 3-Man Crew - B/T/A	HR	\$375.00	0	\$ -
01.11.00	Drill Mud Contain/Disposal				
01.11.01	Drill Mud Contain/Disposal - Truck/MB	EA	\$200.00	0	\$ -
01.11.02	Drill Mud Contain/Disposal - B/T/A	EA	\$400.00	0	\$ -
01.12.00	Hand Probing/Wash Borings				
01.12.01	Hand Probing/Wash Borings - 2 Person Crew	HR	\$125.00	8	\$ 1,000.00
01.12.02	Hand Probing/Wash Borings - 3 Person Crew	HR	\$175.00	0	\$ -
01.13.00	Field Permeability Test				
01.13.01	Field Permeability Test (0-10')	EA	\$300.00	0	\$ -
01.13.02	Field Permeability Test (10-25')	EA	\$400.00	0	\$ -
01.14.00	Temporary Piezometer				
01.14.01	Temporary Piezometer (0-50')	LF	\$25.00	0	\$ -
01.14.02	Temporary Piezometer Locking Assembly	EA	N/A	0	\$ -
01.15.00	Pavement Cores (Excluding MOT)				
01.16.00	Ground Surface D.R.I	EA	\$500.00	0	\$ -
01.17.00	Field Vane Shear Strength	EA	\$400.00	0	\$ -
01.18.00	Dilatometer Sounding	HR	\$240.00	0	\$ -
01.19.00	Ground Penetrating Radar Crew - 2 Person	HR	\$250.00	0	\$ -

SUMMARY GEOTECHNICAL & CONTAMINATION SERVICES**FEE SCHEDULE:** 2015**PROJECT:** SR 528 Econlockhatchee Bridge Widening**PREPARED BY:** PGS**FPID:****DATE:** 7/29/2015

Item	Description	Unit	Unit Price	No of Units	Cost
01.20.00	CPT Data Reduction	EA	N/A	0	\$ -
01.21.00	Maintenance of Traffic				
01.21.01	MOT - Barricades	DAY	\$50.00	0	\$ -
01.21.02	MOT - Flashing Arrowboard	DAY	\$125.00	0	\$ -
01.21.03	MOT - Law Enforcement Officer	DAY	\$400.00	0	\$ -
01.21.04	MOT - Crash Truck	DAY	\$1,500.00	0	\$ -
01.21.05	MOT - Support Vehicle	DAY	\$40.00	0	\$ -
01.21.06	MOT - Signs	DAY	\$40.00	8	\$ 320.00
01.21.07	MOT - Certified Traffic Control Specialist	HR	\$75.00	0	\$ -
01.22.00	Other Support Services				
01.22.01	Support Vehicle	DAY	\$50.00	0	\$ -
01.22.02	Support Boat	DAY	\$200.00	0	\$ -
01.22.03	Heavy Equipment	DAY	N/A	0	\$ -
01.22.04	GPS Unit	DAY	\$45.00	0	\$ -
02.00.00	GEOTECHNICAL LABORATORY TESTING SERVICES				
02.01.00	Grain Size Analysis:				
02.01.01	Full Gradation	EA	\$60.00	41	\$ 2,460.00
02.01.02	Single Sieve	EA	\$36.00	10	\$ 360.00
02.02.00	Hydrometer (FM 1-T 88)	EA	\$150.00	0	\$ -
02.03.00	Organic Content (FM 1-T 267)	EA	\$40.00	9	\$ 360.00
02.04.00	Atterberg Limits:				
02.04.01	Atterberg - Liquid Limit	EA	\$38.00	14	\$ 532.00
02.04.02	Atterberg - Plastic Limit	EA	\$38.00	14	\$ 532.00
02.05.00	Natural Moisture Content (FM 1-T 265)	EA	\$11.00	23	\$ 253.00
02.06.00	Unit Weight	EA	\$40.00	0	\$ -
02.07.00	Consolidation (FM 1-T 216)	EA	\$450.00	0	\$ -
02.08.00	Permeability (FM 1-T 215/5-513)	EA	\$250.00	0	\$ -
02.09.00	Corrosion Series (pH, Sulfate, Chloride, Resistivity)	EA	\$145.00	9	\$ 1,305.00
02.11.00	Unconfined Compression:				
02.11.01	Unconfined Comp. - Soil	EA	\$225.00	0	\$ -
02.11.02	Unconfined Comp. - Rock	EA	\$150.00	0	\$ -

SUMMARY GEOTECHNICAL & CONTAMINATION SERVICES**FEE SCHEDULE:** 2015**PROJECT:** SR 528 Econlockhatchee Bridge Widening**PREPARED BY:** PGS**FPID:****DATE:** 7/29/2015

Item	Description	Unit	Unit Price	No of Units	Cost
02.12.00	Limerock Bearing Ratio (FM 5-515)	EA	\$330.00	0	\$ -
02.13.00	Specific Gravity (FM 1-T 100)	EA	\$55.00	0	\$ -
02.14.00	Bitumen Extraction (FM 1-T 164)	EA	\$90.00	0	\$ -
02.15.00	Aggregate Gradation (FM 1-T 30)	EA	\$60.00	0	\$ -
02.16.00	Direct Shear (ASTM D-3080)	EA	\$230.00	0	\$ -
02.17.00	Shrinkage Factor (FM 1-T 092)	EA	\$50.00	0	\$ -
02.18.00	Swell Potential (ASTM D-4546)	EA	\$50.00	0	\$ -
02.19.00	Proctor Compaction (FM 5-521/525)	EA	\$100.00	0	\$ -
02.20.00	Splitting Tensile (ASTM D-3967)	EA	\$150.00	0	\$ -
03.00.00	GEOTECHNICAL ENGINEERING AND TECHNICAL SERVICES				
03.01.00	Senior Engineer	HR	\$135.63	77	\$ 10,443.51
03.03.00	Project Engineer	HR	\$133.38	210	\$ 28,009.80
03.04.00	CADD/Computer Technician	HR	\$83.09	33	\$ 2,741.97
	GEOTECHNICAL MAN HOUR TOTAL	320	GEOTECHNICAL TOTAL		\$ 64,224.78
04.00.00	CONTAMINATION FIELD EXPLORATION				
	CONTAMINATION MAN HOUR TOTAL	0	CONTAMINATION TOTAL		\$ -
			AFP ADJUSTMENT		\$ -
	PROPOSAL MAN HOUR TOTAL	320	PROPOSAL TOTAL		\$ 64,224.78



**Geotechnical
and
Environmental
Consultants, Inc.**

At the very foundation of our community

June 17, 2015

Revised June 23, 2015

Revised June 30, 2015

Revised July 27, 2015

Parsons Brinckerhoff
420 S. Orange Avenue
Suite 400
Orlando, Florida 32801

Attention: Mr. Greg Smith, P.E.

Subject: Proposal for Geotechnical Engineering and
Contamination Evaluation Services
SR 528 ECONLOCKHATCHEE RIVER BRIDGE REPLACEMENT
Orange County, Florida
CFX Project No. 528-131
GEC Proposal No. 8323GE

Dear Mr. Smith:

Geotechnical and Environmental Consultants, Inc. (GEC) is pleased to provide this proposal for the above-referenced project. This proposal is based on our understanding of the project scope of services and our review of available existing geotechnical information along the project corridor. The purpose of this investigation will be to explore soil and groundwater conditions at the existing SR 528 Bridge over the Econlockhatchee River and provide geotechnical engineering recommendations for the design and construction of the proposed bridge replacement. This investigation also includes a limited contamination evaluation of the alignment and adjacent properties. Geotechnical services for roadway and miscellaneous structure improvements associated with the project are to be provided by Antillian Engineering.

This proposal presents our understanding of the project, GEC's recommended scope of services and a cost and schedule for providing those services. Please refer to Antillian's separate Proposal for Geotechnical Engineering Services for a summary of their scope of services and a cost for providing those services.

Site Description and Project Summary

The project alignment includes the existing SR 528 Bridge over the Econlockhatchee River in Orange County, Florida. The existing SR 528 is a 4-lane divided highway. We understand the bridge will be replaced and roadway improvements are proposed 1,100 feet on both sides of the bridge.

Proposed project elements associated with the SR 528 Bridge over the Econlockhatchee River include the following:

- ◆ Milling and resurfacing of the existing SR 408 roadway pavements from 1,100 feet east and west of the bridge.
- ◆ Replacing existing bridges with twin three-span bridges that are each 80 feet wide. Each span is proposed to be 90 feet.

Scope of Services

Our recommended scope of geotechnical services for the bridge replacement and contamination services for the CSER includes the following:

- ◆ Stake boring locations at the site.
- ◆ Clear utilities at the boring locations.
- ◆ Mobilize amphibious-mounted (swamp-monster) drilling equipment and personnel and associated support boat.
- ◆ Perform 6 Standard Penetration Test (SPT) borings for the SR 528 bridge replacement to an average depth of 150 feet each.
- ◆ Perform routine laboratory soil classification tests to aid in visual soil classification. This includes corrosion series testing of shallow soils and water.
- ◆ Submit a Geotechnical Memorandum for Preliminary Bridge Foundation Design to assist with cost estimates and a Geotechnical Data Report for Structures. The Geotechnical Memorandum for Preliminary Bridge Foundation Design will include a

preliminary evaluation of bridge foundation alternatives and preliminary recommendations for bridge foundation design.

- ◆ Submit a Final Report of Geotechnical Engineering Investigation for the Bridge Replacement as part of the 60%, 90% and 100% structural plans submittals.
- ◆ Perform a Limited Contamination Screening Evaluation of adjacent properties and conduct research and reconnaissance in accordance with the Florida Department of Transportation (FDOT) Project Development and Environment (PD&E) Manual.
- ◆ Obtain up to 70 samples from the existing bridges to evaluate if any asbestos containing materials are present.
- ◆ Issue a Limited Contamination Screening Evaluation Report (CSER) signed and sealed by a geologist licensed in Florida. The CSER will rank the contamination risk potential for each adjacent site as No, Low, Medium or High. Sites ranked with a Medium or High contamination risk potential may require Level 2 Contamination Impact Assessments to verify the presence of contaminated subsurface media and further evaluate the potential for impacts to the project.

Estimated Fee and Schedule

Our estimated fee to provide the described scope of services is a Total Upset Limit Fee of \$126,773.18. Attachment 1 presents a breakdown of our Upset Limit Fee and a summary of our fee is provided below:

Upset Limit Fee (See attached Cost Breakdown)

Geotechnical Engineering Services Fee	\$117,087.52
Contamination Services Fee	\$6,245.66
Asbestos Assessment Fee	<u>\$3,440.00</u>
Total Upset Limit Fee	\$126,773.18

GEC will provide all reports 2 weeks prior to the plans deliverable date indicated in the project schedule. If requested, advanced verbal recommendations can be provided after the field work is completed.

Limitations

This proposal is subject to the following limitations: 1) the site will be accessible to the drilling equipment assumed above. If other types of drilling equipment become necessary due to site and/or weather conditions, appropriate adjustments to the actual fees will be necessary and 2) we assume no responsibility to damage to underground utilities and/or structures that are not located by the owner or through Sunshine State One-Call.

Closure

GEC appreciates the opportunity to work with you on this project. If you have any questions regarding this proposal, or if we can be of further assistance, please contact us.

Very truly yours,

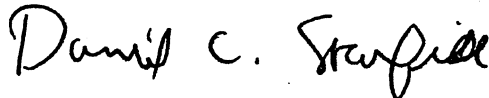
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC.



Richard P. McCormick, P.G.
Senior Geologist



Craig G. Ballock, P.E.
Senior Geotechnical Engineer



Daniel C. Stanfill, P.E.
Senior Vice President

RPM/CGB/DCS/tdg

SUMMARY GEOTECHNICAL & CONTAMINATION SERVICES**PROJECT:** SR 528 Econlockhatchee River Bridge Replacement**FPID:** ---**FEE SCHEDULE:** GEC15**PREPARED BY:** DCS**DATE:** 6/9/2015

Item	Description	Unit	Unit Price	No of Units	Cost
01.00.00	GEOTECHNICAL FIELD EXPLORATION				
01.01.00	Crew & Equipment Mobilization:				
01.01.01	Truck Rig Mobilization	EA	\$500.00	0	\$ -
01.01.02	Mudbug Mobilization	EA	\$600.00	0	\$ -
01.01.03	Track Rig Mobilization	EA	\$4,000.00	0	\$ -
01.01.04	Barge (small) Mobilization	EA	\$10,000.00	1	\$ 10,000.00
01.01.05	Barge (offshore) Mobilization	EA	N/A	0	\$ -
01.01.06	CPT Rig Mobilization	EA	\$500.00	0	\$ -
01.01.07	Support Boat Mobilization	EA	\$250.00	1	\$ 250.00
01.01.08	Pavement Coring Equipment Mobilization	EA	\$250.00	0	\$ -
01.01.09	Soil Survey/Coring/GPR Crew Mobilization	EA	\$250.00	0	\$ -
01.01.10	Tri Pod Rig Mobilization	EA	N/A	0	\$ -
01.01.11	Low Clearance Rig Mobilization	EA	N/A	0	\$ -
01.01.12	Drill Rig Remobilization	EA	N/A	0	\$ -
01.02.00	Auger Borings (ASTM D-1452):				
01.02.01	Auger Borings - Hand/Truck	LF	\$11.50	0	\$ -
01.02.02	Auger Borings - Mudbug	LF	\$14.38	0	\$ -
01.02.03	Auger Borings - Track	LF	\$17.25	0	\$ -
01.03.00	Standard Penetration Test Borings (ASTM D-1586):				
01.03.01	SPT - Truck/MB:				
01.03.01A	SPT - Truck/MB: 0-50 FT	LF	\$15.00	0	\$ -
01.03.01B	SPT - Truck/MB: 50-100 FT	LF	\$19.00	0	\$ -
01.03.01C	SPT - Truck/MB: 100-150 FT	LF	\$25.00	0	\$ -
01.03.01D	SPT - Truck/MB: 150-200 FT	LF	\$32.00	0	\$ -
01.03.01E	SPT - Truck/MB: 200-250 FT	LF	\$42.00	0	\$ -
01.03.01F	SPT - Truck/MB: 250-300 FT	LF	\$54.00	0	\$ -
01.03.02	SPT - B/T/A:				
01.03.02A	SPT- B/T/A: 0-50 FT	LF	\$22.50	300	\$ 6,750.00
01.03.02B	SPT- B/T/A: 50-100 FT	LF	\$28.50	300	\$ 8,550.00
01.03.02C	SPT- B/T/A: 100-150 FT	LF	\$37.50	300	\$ 11,250.00
01.03.02D	SPT- B/T/A: 150-200 FT	LF	\$48.00	0	\$ -

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Item	Description	Unit	Unit Price	No of Units	Cost
01.03.02E	SPT- B/T/A: 200-250 FT	LF	\$63.00	0	\$ -
01.03.02F	SPT- B/T/A: 250-300 FT	LF	\$81.00	0	\$ -
01.04.00	Cone Penetration Test Soundings (ASTM D-3441):				
01.04.01	CPT - Truck/MB:				
01.04.01A	CPT - Truck/MB: 0-50 FT	LF	\$14.00	0	\$ -
01.04.01B	CPT - Truck/MB: 50-100 FT	LF	\$14.00	0	\$ -
01.04.01C	CPT - Truck/MB: 100-150 FT	LF	\$15.00	0	\$ -
01.04.01D	CPT - Truck/MB: 150-200 FT	LF	\$15.00	0	\$ -
01.04.01E	CPT - Truck/MB: 200-250 FT	LF	\$17.00	0	\$ -
01.04.01F	CPT - Truck/MB: 250-300 FT	LF	\$19.00	0	\$ -
01.04.02	CPT - B/T/A:				
01.04.02A	CPT - B/T/A: 0-50 FT	LF	\$21.00	0	\$ -
01.04.02B	CPT - B/T/A: 50-100 FT	LF	\$21.00	0	\$ -
01.04.02C	CPT - B/T/A: 100-150 FT	LF	\$22.50	0	\$ -
01.04.02D	CPT - B/T/A: 150-200 FT	LF	\$22.50	0	\$ -
01.04.02E	CPT - B/T/A: 200-250 FT	LF	\$25.50	0	\$ -
01.04.02F	CPT - B/T/A: 250-300 FT	LF	\$28.50	0	\$ -
01.05.00	Rock Coring - HW Barrel (ASTM D-2113):				
01.05.01	Rock Coring - Truck/MB:				
01.05.01A	Rock Coring - Truck/MB: 0-50 FT	LF	\$38.00	0	\$ -
01.05.01B	Rock Coring - Truck/MB: 50-100 FT	LF	\$42.00	0	\$ -
01.05.01C	Rock Coring - Truck/MB: 100-150 FT	LF	\$46.00	0	\$ -
01.05.01D	Rock Coring - Truck/MB: 150-200 FT	LF	\$52.00	0	\$ -
01.05.01E	Rock Coring - Truck/MB: 200-250 FT	LF	\$58.00	0	\$ -
01.05.01F	Rock Coring - Truck/MB: 250-300 FT	LF	\$65.00	0	\$ -
01.05.02	Rock Coring - B/T/A:				
01.05.02A	Rock Coring - B/T/A: 0-50 FT	LF	\$57.00	0	\$ -
01.05.02B	Rock Coring - B/T/A: 50-100 FT	LF	\$63.00	0	\$ -
01.05.02C	Rock Coring - B/T/A: 100-150 FT	LF	\$69.00	0	\$ -
01.05.02D	Rock Coring - B/T/A: 150-200 FT	LF	\$78.00	0	\$ -
01.05.02E	Rock Coring - B/T/A: 200-250 FT	LF	\$87.00	0	\$ -

SUMMARY GEOTECHNICAL & CONTAMINATION SERVICES**FEE SCHEDULE:** GEC15**PROJECT:** SR 528 Econlockhatchee River Bridge Replacement**PREPARED BY:** DCS**FPID:** ---**DATE:** 6/9/2015

Item	Description	Unit	Unit Price	No of Units	Cost
01.05.02F	Rock Coring - B/T/A: 250-300 FT	LF	\$97.50	0	\$ -
01.06.00	Grout Seal Boreholes:				
01.06.01	Grout Boreholes - Truck/MB:				
01.06.01A	Grout - Truck/MB: 0-50 FT	LF	\$5.00	0	\$ -
01.06.01B	Grout - Truck/MB: 50-100 FT	LF	\$6.00	0	\$ -
01.06.01C	Grout - Truck/MB: 100-150 FT	LF	\$8.00	0	\$ -
01.06.01D	Grout - Truck/MB: 150-200 FT	LF	\$10.00	0	\$ -
01.06.01E	Grout - Truck/MB: 200-250 FT	LF	\$12.00	0	\$ -
01.06.01F	Grout - Truck/MB: 250-300 FT	LF	\$14.00	0	\$ -
01.06.02	Grout Boreholes - B/T/A:				
01.06.02A	Grout - B/T/A: 0-50 FT	LF	\$7.50	300	\$ 2,250.00
01.06.02B	Grout - B/T/A: 50-100 FT	LF	\$9.00	300	\$ 2,700.00
01.06.02C	Grout - B/T/A: 100-150 FT	LF	\$12.00	300	\$ 3,600.00
01.06.02D	Grout - B/T/A: 150-200 FT	LF	\$15.00	0	\$ -
01.06.02E	Grout - B/T/A: 200-250 FT	LF	\$18.00	0	\$ -
01.06.02F	Grout - B/T/A: 250-300 FT	LF	\$21.00	0	\$ -
01.07.00	Temporary Casing:				
01.07.01	3" Temp. Casing - Truck/MB:				
01.07.01A	3" Casing - Truck/MB: 0-50 FT	LF	\$10.00	0	\$ -
01.07.01B	3" Casing - Truck/MB: 50-100 FT	LF	\$11.00	0	\$ -
01.07.01C	3" Casing - Truck/MB: 100-150 FT	LF	\$13.00	0	\$ -
01.07.01D	3" Casing - Truck/MB: 150-200 FT	LF	\$15.00	0	\$ -
01.07.01E	3" Casing - Truck/MB: 200-250 FT	LF	\$17.00	0	\$ -
01.07.01F	3" Casing - Truck/MB: 250-300 FT	LF	\$20.00	0	\$ -
01.07.02	3" Temp. Casing - B/T/A:				
01.07.02A	3" Casing - B/T/A: 0-50 FT	LF	\$15.00	300	\$ 4,500.00
01.07.02B	3" Casing - B/T/A: 50-100 FT	LF	\$16.50	0	\$ -
01.07.02C	3" Casing - B/T/A: 100-150 FT	LF	\$19.50	0	\$ -
01.07.02D	3" Casing - B/T/A: 150-200 FT	LF	\$22.50	0	\$ -
01.07.02E	3" Casing - B/T/A: 200-250 FT	LF	\$25.50	0	\$ -
01.07.02F	3" Casing - B/T/A: 250-300 FT	LF	\$30.00	0	\$ -

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Item	Description	Unit	Unit Price	No of Units	Cost
01.07.03	4" Temp. Casing - Truck/MB:				
01.07.03A	4" Casing - Truck/MB: 0-50 FT	LF	\$11.00	0	\$ -
01.07.03B	4" Casing - Truck/MB: 50-100 FT	LF	\$13.00	0	\$ -
01.07.03C	4" Casing - Truck/MB: 100-150 FT	LF	\$15.00	0	\$ -
01.07.03D	4" Casing - Truck/MB: 150-200 FT	LF	\$17.00	0	\$ -
01.07.03E	4" Casing - Truck/MB: 200-250 FT	LF	\$23.00	0	\$ -
01.07.03F	4" Casing - Truck/MB: 250-300 FT	LF	\$30.00	0	\$ -
01.07.04	4" Temp. Casing - B/T/A:				
01.07.04A	4" Casing - B/T/A: 0-50 FT	LF	\$16.50	0	\$ -
01.07.04B	4" Casing - B/T/A: 50-100 FT	LF	\$19.50	0	\$ -
01.07.04C	4" Casing - B/T/A: 100-150 FT	LF	\$22.50	0	\$ -
01.07.04D	4" Casing - B/T/A: 150-200 FT	LF	\$25.50	0	\$ -
01.07.04E	4" Casing - B/T/A: 200-250 FT	LF	\$34.50	0	\$ -
01.07.04F	4" Casing - B/T/A: 250-300 FT	LF	\$45.00	0	\$ -
01.08.00	Extra SPT Samples:				
01.08.01	Extra SPT Samples - Truck/MB:				
01.08.01A	Extra SPT Samples - Truck/MB: 0-50 FT	EA	\$40.00	0	\$ -
01.08.01B	Extra SPT Samples - Truck/MB: 50-100 FT	EA	\$55.00	0	\$ -
01.08.01C	Extra SPT Samples - Truck/MB: 100-150 FT	EA	\$80.00	0	\$ -
01.08.01D	Extra SPT Samples - Truck/MB: 150-200 FT	EA	\$100.00	0	\$ -
01.08.01E	Extra SPT Samples - Truck/MB: 200-250 FT	EA	\$120.00	0	\$ -
01.08.01F	Extra SPT Samples - Truck/MB: 250-300 FT	EA	\$150.00	0	\$ -
01.08.02	Extra SPT Samples - B/T/A:				
01.08.02A	Extra SPT Samples - B/T/A: 0-50 FT	EA	\$60.00	0	\$ -
01.08.02B	Extra SPT Samples - B/T/A: 50-100 FT	EA	\$82.50	0	\$ -
01.08.02C	Extra SPT Samples - B/T/A: 100-150 FT	EA	\$120.00	0	\$ -
01.08.02D	Extra SPT Samples - B/T/A: 150-200 FT	EA	\$150.00	0	\$ -
01.08.02E	Extra SPT Samples - B/T/A: 200-250 FT	EA	\$180.00	0	\$ -
01.08.02F	Extra SPT Samples - B/T/A: 250-300 FT	EA	\$225.00	0	\$ -
01.09.00	Undisturbed Samples (ASTM D-1587):				
01.09.01	Undisturbed Samples - Truck/MB:				

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Item	Description	Unit	Unit Price	No of Units	Cost
01.09.01A	Undisturbed Samples - Truck/MB: 0-50 FT	EA	\$160.00	0	\$ -
01.09.01B	Undisturbed Samples - Truck/MB: 50-100 FT	EA	\$200.00	0	\$ -
01.09.01C	Undisturbed Samples - Truck/MB: 100-150 FT	EA	\$260.00	0	\$ -
01.09.01D	Undisturbed Samples - Truck/MB: 150-200 FT	EA	\$320.00	0	\$ -
01.09.02	Undisturbed Samples - B/T/A:				
01.09.02A	Undisturbed Samples - B/T/A: 0-50 FT	EA	\$240.00	4	\$ 960.00
01.09.02B	Undisturbed Samples - B/T/A: 50-100 FT	EA	\$300.00	0	\$ -
01.09.02C	Undisturbed Samples - B/T/A: 100-150 FT	EA	\$390.00	0	\$ -
01.09.02D	Undisturbed Samples - B/T/A: 150-200 FT	EA	\$480.00	0	\$ -
01.10.00	Drill Rig and Crew (Clearing/Difficult Access)				
01.10.01	Drill Rig and 2-Man Crew - Truck/MB	HR	\$220.00	0	\$ -
01.10.02	Drill Rig and 2-Man Crew - B/T/A	HR	N/A	0	\$ -
01.10.03	Drill Rig and 3-Man Crew - Truck/MB	HR	\$300.00	0	\$ -
01.10.04	Drill Rig and 3-Man Crew - B/T/A	HR	\$450.00	16	\$ 7,200.00
01.11.00	Drill Mud Contain/Disposal				
01.11.01	Drill Mud Contain/Disposal - Truck/MB	EA	N/A	0	\$ -
01.11.02	Drill Mud Contain/Disposal - B/T/A	EA	N/A	0	\$ -
01.12.00	Soil Survey/Coring Crew				
01.12.01	Soil Survey/Coring Crew - 2 Person	HR	\$150.00	0	\$ -
01.12.02	Soil Survey/Coring Crew - 3 Person	HR	\$210.00	0	\$ -
01.13.00	Field Permeability Test				
01.13.01	Field Permeability Test (0-10')	EA	\$350.00	0	\$ -
01.13.02	Field Permeability Test (10-25')	EA	\$400.00	0	\$ -
01.14.00	Temporary Piezometer				
01.14.01	Temporary Piezometer (0-50')	LF	\$25.00	0	\$ -
01.14.02	Temporary Piezometer Locking Assembly	EA	N/A	0	\$ -
01.15.00	Pavement Cores (Night Including MOT)				
01.16.00	Ground Surface D.R.I	EA	\$600.00	0	\$ -
01.17.00	Field Vane Shear Strength	EA	\$400.00	0	\$ -
01.18.00	Dilatometer Sounding	HR	N/A	0	\$ -
01.19.00	Ground Penetrating Radar Crew - 2 Person	HR	\$250.00	0	\$ -

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Item	Description	Unit	Unit Price	No of Units	Cost
01.20.00	CPT Data Reduction	EA	N/A	0	\$ -
01.21.00	Maintenance of Traffic				
01.21.01	MOT - Barricades	DAY	N/A	0	\$ -
01.21.02	MOT - Flashing Arrowboard	DAY	N/A	0	\$ -
01.21.03	MOT - Law Enforcement Officer	DAY	N/A	0	\$ -
01.21.04	MOT - Crash Truck	DAY	N/A	0	\$ -
01.21.05	MOT - Support Vehicle	DAY	N/A	0	\$ -
01.21.06	MOT - Signs	DAY	N/A	0	\$ -
01.21.07	MOT - Certified Traffic Control Specialist	HR	N/A	0	\$ -
01.22.00	Other Support Services				
01.22.01	Support Vehicle	DAY	\$60.00	0	\$ -
01.22.02	Support Boat	DAY	\$200.00	8	\$ 1,600.00
01.22.03	Heavy Equipment	DAY	N/A	0	\$ -
01.22.04	GPS Unit	DAY	\$75.00	1	\$ 75.00
02.00.00	GEOTECHNICAL LABORATORY TESTING SERVICES				
02.01.00	Grain Size Analysis:				
02.01.01	Full Grain Size Analysis	EA	\$60.00	6	\$ 360.00
02.01.02	Percent Fines	EA	\$40.00	36	\$ 1,440.00
02.02.00	Hydrometer Analysis	EA	\$120.00	0	\$ -
02.03.00	Organic Content	EA	\$50.00	18	\$ 900.00
02.04.00	Atterberg Limits:				
02.04.01	Atterberg - Liquid Limit	EA	\$47.50	18	\$ 855.00
02.04.02	Atterberg - Plastic Limit	EA	\$47.50	18	\$ 855.00
02.05.00	Natural Moisture Content	EA	\$15.00	36	\$ 540.00
02.06.00	Unit Weight	EA	\$50.00	3	\$ 150.00
02.07.00	Consolidation with Rebound	EA	\$600.00	3	\$ 1,800.00
02.08.00	Permeability	EA	\$300.00	0	\$ -
02.09.00	Corrosion Series	EA	\$160.00	4	\$ 640.00
02.10.00	Triaxial Compression:				
02.10.01	Triaxial - Unconsolidated/Undrained	EA	\$500.00	0	\$ -
02.10.02	Triaxial - Consolidated/Undrained	EA	\$550.00	0	\$ -

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Item	Description	Unit	Unit Price	No of Units	Cost
02.10.03	Triaxial - Consolidated/Drained	EA	\$650.00	0	\$ -
02.11.00	Unconfined Compression:				
02.11.01	Unconfined Comp. - Soil	EA	\$225.00	0	\$ -
02.11.02	Unconfined Comp. - Rock	EA	\$150.00	0	\$ -
02.12.00	Limerock Bearing Ratio	EA	\$350.00	0	\$ -
02.13.00	Specific Gravity	EA	\$75.00	3	\$ 225.00
02.14.00	Bitumen Extraction	EA	\$100.00	0	\$ -
02.15.00	Aggregate Gradation	EA	\$60.00	0	\$ -
02.16.00	Direct Shear	EA	\$280.00	0	\$ -
02.17.00	Shrinkage Factor	EA	\$70.00	0	\$ -
02.18.00	Swell Potential	EA	\$100.00	0	\$ -
02.19.00	Proctor Compaction	EA	N/A	0	\$ -
02.20.00	Splitting Tensile - Rock	EA	\$175.00	0	\$ -
03.00.00	GEOTECHNICAL ENGINEERING AND TECHNICAL SERVICES				
03.01.00	Chief Engineer	HR	\$233.68	12	\$ 2,804.16
03.02.00	Senior Engineer	HR	\$204.48	40	\$ 8,179.20
03.03.00	Project Engineer	HR	\$155.22	196	\$ 30,423.12
03.04.00	Engineering Intern	HR	\$87.83	0	\$ -
03.05.00	CADD/GIS Technician	HR	\$111.79	24	\$ 2,682.96
03.06.00	Secretary/Clerical	HR	\$89.33	16	\$ 1,429.28
03.07.00	Senior Engineering Technician	HR	\$102.97	40	\$ 4,118.80
03.08.00	Engineering Technician	HR	\$64.23	0	\$ -
03.09.00	---	HR	N/A	0	\$ -
03.10.00	---	HR	N/A	0	\$ -
03.11.00	---	HR	N/A	0	\$ -
	GEOTECHNICAL MAN HOUR TOTAL	328	GEOTECHNICAL TOTAL		\$ 117,087.52
04.00.00	CONTAMINATION FIELD EXPLORATION				
04.01.00	Crew & Equipment Mobilization:				
04.01.01	Direct Push Rig Mobilization	EA	\$500.00	0	\$ -
04.01.02	Direct Push Rig	DAY	\$1,500.00	0	\$ -
04.01.03	Direct Push Well Materials	LF	\$25.00	0	\$ -

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Item	Description	Unit	Unit Price	No of Units	Cost
04.01.04	Organic Vapor Analyzer	DAY	\$160.00	0	\$ -
04.01.05	Multi-Parameter Water Quality	DAY	\$125.00	0	\$ -
04.01.06	Support Vehicle - Truck	DAY	\$60.00	0	\$ -
04.01.07	Support Vehicle - Boat	DAY	\$200.00	0	\$ -
04.01.08	GPS Unit	DAY	\$75.00	0	\$ -
04.01.09	Ground Penetrating Radar Crew - 2 Person	HR	\$250.00	0	\$ -
04.01.10	Heavy Equipment Mobilization	DAY	N/A	0	\$ -
04.01.11	Rig Remobilization	EA	N/A	0	\$ -
04.02.00	Drill Rig and Crew (Clearing/Difficult Access)				
04.02.01	Drill Rig and Crew - Truck	HR	\$220.00	0	\$ -
04.03.00	Monitoring Well				
04.03.01	Monitoring Well (0-50')	LF	\$35.00	0	\$ -
04.03.02	Monitoring Well (50-100')	LF	\$45.00	0	\$ -
04.03.03	Well Completion (flush mount)	EA	\$250.00	0	\$ -
04.03.04	Well Completion (aboveground)	EA	\$350.00	0	\$ -
04.04.00	100 FT Water Level Meter	DAY	\$40.00	0	\$ -
04.05.00	Lamotte Turbidity Meter	DAY	\$50.00	0	\$ -
04.06.00	Dissolved Oxygen Meter	DAY	\$50.00	0	\$ -
04.07.00	pH Meter w/ Calibration Kit	DAY	\$50.00	0	\$ -
04.08.00	Miscellaneous Supplies	DAY	\$50.00	0	\$ -
04.09.00	Maintenance of Traffic				
04.09.01	MOT - Barricades	DAY	N/A	0	\$ -
04.09.02	MOT - Flashing Arrowboard	DAY	N/A	0	\$ -
04.09.03	MOT - Law Enforcement Officer	DAY	N/A	0	\$ -
04.09.04	MOT - Crash Truck	DAY	N/A	0	\$ -
04.09.05	MOT - Support Vehicle	DAY	N/A	0	\$ -
04.09.06	MOT - Signs	DAY	N/A	0	\$ -
04.09.07	MOT - Certified Traffic Control Specialist	HR	N/A	0	\$ -
05.00.00	CONTAMINATION LABORATORY TESTING SERVICES				
05.01.00	RCRA Metals				
05.01.01	RCRA Metals - Soil	EA	\$125.00	0	\$ -

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Item	Description	Unit	Unit Price	No of Units	Cost
05.01.02	RCRA Metals - Water	EA	\$125.00	0	\$ -
05.02.00	Herbicide/Pesticide (EPA Method 8081, 8141, 8151)				
05.02.01	Herbicide/Pesticide - Soil	EA	\$450.00	0	\$ -
05.02.02	Herbicide/Pesticide - Water	EA	\$450.00	0	\$ -
05.03.00	Table B: Gasoline/Kerosene				
05.03.01	Table B: Gasoline/Kerosene - Soil	EA	\$350.00	0	\$ -
05.03.02	Table B: Gasoline/Kerosene - Water	EA	\$400.00	0	\$ -
05.04.00	Table C: Used Oil/Unknown				
05.04.01	Table C: Used Oil/Unknown - Soil	EA	\$755.00	0	\$ -
05.04.02	Table C: Used Oil/Unknown - Water	EA	\$815.00	0	\$ -
05.05.00	EPA 8260 Full				
05.05.01	EPA 8260 Full - Soil	EA	N/A	0	\$ -
05.05.02	EPA 8260 Full - Water	EA	N/A	0	\$ -
06.00.00	CONTAMINATION MAP AND DATABASE SEARCHES				
06.01.00	Contamination Database Report	EA	N/A	1	\$ 250.00
06.02.00	Fire Insurance Map Coverage Database	EA	N/A	0	\$ -
06.03.00	Fire Insurance Map Search Abstract with Documen.	EA	N/A	0	\$ -
06.04.00	Area Search - 50\$/Sq. Mile after initial Sq. Mile	EA	N/A	0	\$ -
06.05.00	Linear/Corridor Search - 50\$/Sq. Mile after initial 3 Miles	EA	N/A	0	\$ -
06.06.00	Historic Topographic Maps (all available)	EA	N/A	0	\$ -
07.00.00	CONTAMINATION ENGINEERING AND TECHNICAL SERVICES				
07.01.00	Chief Engineer	HR	\$233.68	4	\$ 934.72
07.02.00	Senior Engineer	HR	\$204.48	0	\$ -
07.03.00	Senior Scientist	HR	\$125.19	34	\$ 4,256.46
07.04.00	Scientist	HR	\$69.99	0	\$ -
07.05.00	CADD/GIS Technician	HR	\$111.79	4	\$ 447.16
07.06.00	Secretary/Clerical	HR	\$89.33	4	\$ 357.32
07.07.00	Senior Engineering Technician	HR	\$102.97	0	\$ -
07.08.00	Engineering Technician	HR	\$64.23	0	\$ -
CONTAMINATION MAN HOUR TOTAL		46	CONTAMINATION TOTAL		\$ 6,245.66
AFP ADJUSTMENT					\$ -

SUMMARY GEOTECHNICAL & CONTAMINATION SERVICES**FEE SCHEDULE:** GEC15**PROJECT:** SR 528 Econlockhatchee River Bridge Replacement**PREPARED BY:** DCS**FPID:** ---**DATE:** 6/9/2015

Item	Description	Unit	Unit Price	No of Units	Cost
PROPOSAL MAN HOUR TOTAL		374		PROPOSAL TOTAL	\$ 123,333.18

COMPUTATION OF GEOTECHNICAL COSTS**Subject:** Bridge Replacement**Project:** SR 528 Econlockhatchee River Bridge Replacement**FPN:** ---**Prepared By:** DCS**Date:** 6/9/2015

		Unit	Unit Price	No. Units	Cost	Notes
01.00.00	GEOTECHNICAL FIELD EXPLORATION					
01.01.00	Crew & Equipment Mobilization:					
01.01.01	Truck Rig Mobilization	EA	\$500.00	0	\$0.00	
01.01.02	Mudbug Mobilization	EA	\$600.00	0	\$0.00	
01.01.03	Track Rig Mobilization	EA	\$4,000.00	0	\$0.00	
01.01.04	Barge (small) Mobilization	EA	\$10,000.00	1	\$10,000.00	
01.01.05	Barge (offshore) Mobilization	EA	N/A	0	\$0.00	
01.01.06	CPT Rig Mobilization	EA	\$500.00	0	\$0.00	
01.01.07	Support Boat Mobilization	EA	\$250.00	1	\$250.00	
01.01.08	Pavement Coring Equipment Mobilization	EA	\$250.00	0	\$0.00	
01.01.09	Soil Survey/Coring/GPR Crew Mobilization	EA	\$250.00	0	\$0.00	
01.01.10	Tri Pod Rig Mobilization	EA	N/A	0	\$0.00	
01.01.11	Low Clearance Rig Mobilization	EA	N/A	0	\$0.00	
01.01.12	Drill Rig Remobilization	EA	N/A	0	\$0.00	
01.02.00	Auger Borings (ASTM D-1452):					
01.02.01	Auger Borings - Hand/Truck	LF	\$11.50	0	\$0.00	
	0 Borings to 0 ft					
	0 Borings to 0 ft					
	0 Borings to 0 ft					
	0 Borings to 0 ft					
	0 Borings to 0 ft					
	0 Borings to 0 ft					
01.02.02	Auger Borings - Mudbug	LF	\$14.38	0	\$0.00	
	0 Borings to 0 ft					
	0 Borings to 0 ft					
	0 Borings to 0 ft					
	0 Borings to 0 ft					
	0 Borings to 0 ft					
	0 Borings to 0 ft					
01.02.03	Auger Borings - Track	LF	\$17.25	0	\$0.00	
	0 Borings to 0 ft					
	0 Borings to 0 ft					
	0 Borings to 0 ft					
	0 Borings to 0 ft					
	0 Borings to 0 ft					
	0 Borings to 0 ft					
01.03.00	Standard Penetration Test Borings (ASTM D-1586):					
01.03.01	SPT - Truck/MB:					
	0 Borings to 0 ft					
	0 Borings to 0 ft					
	0 Borings to 0 ft					
	0 Borings to 0 ft					
	0 Borings to 0 ft					
	0 Borings to 0 ft					
01.03.01A	SPT - Truck/MB: 0-50 FT	LF	\$15.00	0	\$0.00	
01.03.01B	SPT - Truck/MB: 50-100 FT	LF	\$19.00	0	\$0.00	
01.03.01C	SPT - Truck/MB: 100-150 FT	LF	\$25.00	0	\$0.00	
01.03.01D	SPT - Truck/MB: 150-200 FT	LF	\$32.00	0	\$0.00	
01.03.01E	SPT - Truck/MB: 200-250 FT	LF	\$42.00	0	\$0.00	
01.03.01F	SPT - Truck/MB: 250-300 FT	LF	\$54.00	0	\$0.00	
01.03.02	SPT - B/T/A:					

	6	Borings to	150	ft				
	0	Borings to	0	ft				
	0	Borings to	0	ft				
	0	Borings to	0	ft				
	0	Borings to	0	ft				
	0	Borings to	0	ft				
01.03.02A		SPT- B/T/A: 0-50 FT	LF	\$22.50	300		\$6,750.00	
01.03.02B		SPT- B/T/A: 50-100 FT	LF	\$28.50	300		\$8,550.00	
01.03.02C		SPT- B/T/A: 100-150 FT	LF	\$37.50	300		\$11,250.00	
01.03.02D		SPT- B/T/A: 150-200 FT	LF	\$48.00	0		\$0.00	
01.03.02E		SPT- B/T/A: 200-250 FT	LF	\$63.00	0		\$0.00	
01.03.02F		SPT- B/T/A: 250-300 FT	LF	\$81.00	0		\$0.00	
01.04.00	Cone Penetration Test Soundings (ASTM D-3441):							
01.04.01	CPT - Truck/MB:							
	0	Borings to	0	ft				
	0	Borings to	0	ft				
	0	Borings to	0	ft				
	0	Borings to	0	ft				
01.04.01A		CPT - Truck/MB: 0-50 FT	LF	\$14.00	0		\$0.00	
01.04.01B		CPT - Truck/MB: 50-100 FT	LF	\$14.00	0		\$0.00	
01.04.01C		CPT - Truck/MB: 100-150 FT	LF	\$15.00	0		\$0.00	
01.04.01D		CPT - Truck/MB: 150-200 FT	LF	\$15.00	0		\$0.00	
01.04.01E		CPT - Truck/MB: 200-250 FT	LF	\$17.00	0		\$0.00	
01.04.01F		CPT - Truck/MB: 250-300 FT	LF	\$19.00	0		\$0.00	
01.04.02	CPT - B/T/A:							
	0	Borings to	0	ft				
	0	Borings to	0	ft				
	0	Borings to	0	ft				
	0	Borings to	0	ft				
01.04.02A		CPT - B/T/A: 0-50 FT	LF	\$21.00	0		\$0.00	
01.04.02B		CPT - B/T/A: 50-100 FT	LF	\$21.00	0		\$0.00	
01.04.02C		CPT - B/T/A: 100-150 FT	LF	\$22.50	0		\$0.00	
01.04.02D		CPT - B/T/A: 150-200 FT	LF	\$22.50	0		\$0.00	
01.04.02E		CPT - B/T/A: 200-250 FT	LF	\$25.50	0		\$0.00	
01.04.02F		CPT - B/T/A: 250-300 FT	LF	\$28.50	0		\$0.00	
01.05.00	Rock Coring - HW Barrel (ASTM D-2113):							
01.05.01	Rock Coring - Truck/MB:							
	0	Borings from	0	ft	to	0	ft	
	0	Borings from	0	ft	to	0	ft	
	0	Borings from	0	ft	to	0	ft	
	0	Borings from	0	ft	to	0	ft	
01.05.01A		Rock Coring - Truck/MB: 0-50 FT	LF	\$38.00	0		\$0.00	
01.05.01B		Rock Coring - Truck/MB: 50-100 FT	LF	\$42.00	0		\$0.00	
01.05.01C		Rock Coring - Truck/MB: 100-150 FT	LF	\$46.00	0		\$0.00	
01.05.01D		Rock Coring - Truck/MB: 150-200 FT	LF	\$52.00	0		\$0.00	
01.05.01E		Rock Coring - Truck/MB: 200-250 FT	LF	\$58.00	0		\$0.00	
01.05.01F		Rock Coring - Truck/MB: 250-300 FT	LF	\$65.00	0		\$0.00	
01.05.02	Rock Coring - B/T/A:							
	0	Borings from	0	ft	to	0	ft	
	0	Borings from	0	ft	to	0	ft	
	0	Borings from	0	ft	to	0	ft	
	0	Borings from	0	ft	to	0	ft	
01.05.02A		Rock Coring - B/T/A: 0-50 FT	LF	\$57.00	0		\$0.00	
01.05.02B		Rock Coring - B/T/A: 50-100 FT	LF	\$63.00	0		\$0.00	
01.05.02C		Rock Coring - B/T/A: 100-150 FT	LF	\$69.00	0		\$0.00	
01.05.02D		Rock Coring - B/T/A: 150-200 FT	LF	\$78.00	0		\$0.00	

01.05.02E	Rock Coring - B/T/A: 200-250 FT	LF	\$87.00	0	\$0.00
01.05.02F	Rock Coring - B/T/A: 250-300 FT	LF	\$97.50	0	\$0.00
01.06.00	Grout Seal Boreholes:				
01.06.01	Grout Boreholes - Truck/MB:				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
01.06.01A	Grout - Truck/MB: 0-50 FT	LF	\$5.00	0	\$0.00
01.06.01B	Grout - Truck/MB: 50-100 FT	LF	\$6.00	0	\$0.00
01.06.01C	Grout - Truck/MB: 100-150 FT	LF	\$8.00	0	\$0.00
01.06.01D	Grout - Truck/MB: 150-200 FT	LF	\$10.00	0	\$0.00
01.06.01E	Grout - Truck/MB: 200-250 FT	LF	\$12.00	0	\$0.00
01.06.01F	Grout - Truck/MB: 250-300 FT	LF	\$14.00	0	\$0.00
01.06.02	Grout Boreholes - B/T/A:				
	6 Borings to 150 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
01.06.02A	Grout - B/T/A: 0-50 FT	LF	\$7.50	300	\$2,250.00
01.06.02B	Grout - B/T/A: 50-100 FT	LF	\$9.00	300	\$2,700.00
01.06.02C	Grout - B/T/A: 100-150 FT	LF	\$12.00	300	\$3,600.00
01.06.02D	Grout - B/T/A: 150-200 FT	LF	\$15.00	0	\$0.00
01.06.02E	Grout - B/T/A: 200-250 FT	LF	\$18.00	0	\$0.00
01.06.02F	Grout - B/T/A: 250-300 FT	LF	\$21.00	0	\$0.00
01.07.00	Temporary Casing:				
01.07.01	3" Temp. Casing - Truck/MB:				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
01.07.01A	3" Casing - Truck/MB: 0-50 FT	LF	\$10.00	0	\$0.00
01.07.01B	3" Casing - Truck/MB: 50-100 FT	LF	\$11.00	0	\$0.00
01.07.01C	3" Casing - Truck/MB: 100-150 FT	LF	\$13.00	0	\$0.00
01.07.01D	3" Casing - Truck/MB: 150-200 FT	LF	\$15.00	0	\$0.00
01.07.01E	3" Casing - Truck/MB: 200-250 FT	LF	\$17.00	0	\$0.00
01.07.01F	3" Casing - Truck/MB: 250-300 FT	LF	\$20.00	0	\$0.00
01.07.02	3" Temp. Casing - B/T/A:				
	6 Borings to 50 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
01.07.02A	3" Casing - B/T/A: 0-50 FT	LF	\$15.00	300	\$4,500.00
01.07.02B	3" Casing - B/T/A: 50-100 FT	LF	\$16.50	0	\$0.00
01.07.02C	3" Casing - B/T/A: 100-150 FT	LF	\$19.50	0	\$0.00
01.07.02D	3" Casing - B/T/A: 150-200 FT	LF	\$22.50	0	\$0.00
01.07.02E	3" Casing - B/T/A: 200-250 FT	LF	\$25.50	0	\$0.00
01.07.02F	3" Casing - B/T/A: 250-300 FT	LF	\$30.00	0	\$0.00

01.07.03	4" Temp. Casing - Truck/MB:				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
01.07.03A	4" Casing - Truck/MB: 0-50 FT	LF	\$11.00	0	\$0.00
01.07.03B	4" Casing - Truck/MB: 50-100 FT	LF	\$13.00	0	\$0.00
01.07.03C	4" Casing - Truck/MB: 100-150 FT	LF	\$15.00	0	\$0.00
01.07.03D	4" Casing - Truck/MB: 150-200 FT	LF	\$17.00	0	\$0.00
01.07.03E	4" Casing - Truck/MB: 200-250 FT	LF	\$23.00	0	\$0.00
01.07.03F	4" Casing - Truck/MB: 250-300 FT	LF	\$30.00	0	\$0.00
01.07.04	4" Temp. Casing - B/T/A:				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
01.07.04A	4" Casing - B/T/A: 0-50 FT	LF	\$16.50	0	\$0.00
01.07.04B	4" Casing - B/T/A: 50-100 FT	LF	\$19.50	0	\$0.00
01.07.04C	4" Casing - B/T/A: 100-150 FT	LF	\$22.50	0	\$0.00
01.07.04D	4" Casing - B/T/A: 150-200 FT	LF	\$25.50	0	\$0.00
01.07.04E	4" Casing - B/T/A: 200-250 FT	LF	\$34.50	0	\$0.00
01.07.04F	4" Casing - B/T/A: 250-300 FT	LF	\$45.00	0	\$0.00
01.08.00	Extra SPT Samples:				
01.08.01	Extra SPT Samples - Truck/MB:				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
01.08.01A	Extra SPT Samples - Truck/MB: 0-50 FT	EA	\$40.00	0	\$0.00
01.08.01B	Extra SPT Samples - Truck/MB: 50-100 FT	EA	\$55.00	0	\$0.00
01.08.01C	Extra SPT Samples - Truck/MB: 100-150 FT	EA	\$80.00	0	\$0.00
01.08.01D	Extra SPT Samples - Truck/MB: 150-200 FT	EA	\$100.00	0	\$0.00
01.08.01E	Extra SPT Samples - Truck/MB: 200-250 FT	EA	\$120.00	0	\$0.00
01.08.01F	Extra SPT Samples - Truck/MB: 250-300 FT	EA	\$150.00	0	\$0.00
01.08.02	Extra SPT Samples - B/T/A:				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
	0 Borings to 0 ft				
01.08.02A	Extra SPT Samples - B/T/A: 0-50 FT	EA	\$60.00	0	\$0.00
01.08.02B	Extra SPT Samples - B/T/A: 50-100 FT	EA	\$82.50	0	\$0.00
01.08.02C	Extra SPT Samples - B/T/A: 100-150 FT	EA	\$120.00	0	\$0.00
01.08.02D	Extra SPT Samples - B/T/A: 150-200 FT	EA	\$150.00	0	\$0.00
01.08.02E	Extra SPT Samples - B/T/A: 200-250 FT	EA	\$180.00	0	\$0.00
01.08.02F	Extra SPT Samples - B/T/A: 250-300 FT	EA	\$225.00	0	\$0.00
01.09.00	Undisturbed Samples (ASTM D-1587):				
01.09.01	Undisturbed Samples - Truck/MB:				
01.09.01A	Undisturbed Samples - Truck/MB: 0-50 FT	EA	\$160.00	0	\$0.00
01.09.01B	Undisturbed Samples - Truck/MB: 50-100 FT	EA	\$200.00	0	\$0.00
01.09.01C	Undisturbed Samples - Truck/MB: 100-150 FT	EA	\$260.00	0	\$0.00
01.09.01D	Undisturbed Samples - Truck/MB: 150-200 FT	EA	\$320.00	0	\$0.00
01.09.02	Undisturbed Samples - B/T/A:				

01.09.02A	Undisturbed Samples - B/T/A: 0-50 FT	EA	\$240.00	4	\$960.00
01.09.02B	Undisturbed Samples - B/T/A: 50-100 FT	EA	\$300.00	0	\$0.00
01.09.02C	Undisturbed Samples - B/T/A: 100-150 FT	EA	\$390.00	0	\$0.00
01.09.02D	Undisturbed Samples - B/T/A: 150-200 FT	EA	\$480.00	0	\$0.00
01.10.00	Drill Rig and Crew (Clearing/Difficult Access)				
01.10.01	Drill Rig and 2-Man Crew - Truck/MB	HR	\$220.00	0	\$0.00
01.10.02	Drill Rig and 2-Man Crew - B/T/A	HR	N/A	0	\$0.00
01.10.03	Drill Rig and 3-Man Crew - Truck/MB	HR	\$300.00	0	\$0.00
01.10.04	Drill Rig and 3-Man Crew - B/T/A	HR	\$450.00	16	\$7,200.00
01.11.00	Drill Mud Contain/Disposal				
01.11.01	Drill Mud Contain/Disposal - Truck/MB	EA	N/A	0	\$0.00
01.11.02	Drill Mud Contain/Disposal - B/T/A	EA	N/A	0	\$0.00
01.12.00	Soil Survey/Coring Crew				
01.12.01	Soil Survey/Coring Crew - 2 Person	HR	\$150.00	0	\$0.00
01.12.02	Soil Survey/Coring Crew - 3 Person	HR	\$210.00	0	\$0.00
01.13.00	Field Permeability Test				
01.13.01	Field Permeability Test (0-10')	EA	\$350.00	0	\$0.00
01.13.02	Field Permeability Test (10-25')	EA	\$400.00	0	\$0.00
01.14.00	Temporary Piezometer				
01.14.01	Temporary Piezometer (0-50')	LF	\$25.00	0	\$0.00
	0 Piezos to 0 ft				
	0 Piezos to 0 ft				
	0 Piezos to 0 ft				
	0 Piezos to 0 ft				
01.14.02	Temporary Piezometer Locking Assembly	EA	N/A	0	\$0.00
01.15.00	Pavement Cores (Night Including MOT)	EA	\$400.00	0	\$0.00
01.16.00	Ground Surface D.R.I	EA	\$600.00	0	\$0.00
01.17.00	Field Vane Shear Strength	EA	\$400.00	0	\$0.00
01.18.00	Dilatometer Sounding	HR	N/A	0	\$0.00
01.19.00	Ground Penetrating Radar Crew - 2 Person	HR	\$250.00	0	\$0.00
01.20.00	CPT Data Reduction	EA	N/A	0	\$0.00
01.21.00	Maintenance of Traffic				
01.21.01	MOT - Barricades	DAY	N/A	0	\$0.00
01.21.02	MOT - Flashing Arrowboard	DAY	N/A	0	\$0.00
01.21.03	MOT - Law Enforcement Officer	DAY	N/A	0	\$0.00
01.21.04	MOT - Crash Truck	DAY	N/A	0	\$0.00
01.21.05	MOT - Support Vehicle	DAY	N/A	0	\$0.00
01.21.06	MOT - Signs	DAY	N/A	0	\$0.00
01.21.07	MOT - Certified Traffic Control Specialist	HR	N/A	0	\$0.00
01.22.00	Other Support Services				
01.22.01	Support Vehicle	DAY	\$60.00	0	\$0.00
01.22.02	Support Boat	DAY	\$200.00	8	\$1,600.00
01.22.03	Heavy Equipment	DAY	N/A	0	\$0.00
01.22.04	GPS Unit	DAY	\$75.00	1	\$75.00
	Engineering Field Services				
03.03.00	Project Engineer	HR	\$155.22	8	\$1,241.76
03.07.00	Senior Engineering Technician	HR	\$102.97	24	\$2,471.28
03.08.00	Engineering Technician	HR	\$64.23	0	\$0.00
03.10.00	---	HR	N/A	0	\$0.00

Field Exploration Total Fee: \$63,398.04
Field Fee Percentage: 54.1%

02.00.00 GEOTECHNICAL LABORATORY TESTING SERVICES

02.01.00	Grain Size Analysis:				
02.01.01	Full Grain Size Analysis	EA	\$60.00	6	\$360.00
02.01.02	Percent Fines	EA	\$40.00	36	\$1,440.00

02.02.00	Hydrometer Analysis	EA	\$120.00	0	\$0.00
02.03.00	Organic Content	EA	\$50.00	18	\$900.00
02.04.00	Atterberg Limits:				
02.04.01	Atterberg - Liquid Limit	EA	\$47.50	18	\$855.00
02.04.02	Atterberg - Plastic Limit	EA	\$47.50	18	\$855.00
02.05.00	Natural Moisture Content	EA	\$15.00	36	\$540.00
02.06.00	Unit Weight	EA	\$50.00	3	\$150.00
02.07.00	Consolidation with Rebound	EA	\$600.00	3	\$1,800.00
02.08.00	Permeability	EA	\$300.00	0	\$0.00
02.09.00	Corrosion Series	EA	\$160.00	4	\$640.00
02.10.00	Triaxial Compression:				
02.10.01	Triaxial - Unconsolidated/Undrained	EA	\$500.00	0	\$0.00
02.10.02	Triaxial - Consolidated/Undrained	EA	\$550.00	0	\$0.00
02.10.03	Triaxial - Consolidated/Drained	EA	\$650.00	0	\$0.00
02.11.00	Unconfined Compression:				
02.11.01	Unconfined Comp. - Soil	EA	\$225.00	0	\$0.00
02.11.02	Unconfined Comp. - Rock	EA	\$150.00	0	\$0.00
02.12.00	Limerock Bearing Ratio	EA	\$350.00	0	\$0.00
02.13.00	Specific Gravity	EA	\$75.00	3	\$225.00
02.14.00	Bitumen Extraction	EA	\$100.00	0	\$0.00
02.15.00	Aggregate Gradation	EA	\$60.00	0	\$0.00
02.16.00	Direct Shear	EA	\$280.00	0	\$0.00
02.17.00	Shrinkage Factor	EA	\$70.00	0	\$0.00
02.18.00	Swell Potential	EA	\$100.00	0	\$0.00
02.19.00	Proctor Compaction	EA	N/A	0	\$0.00
02.20.00	Splitting Tensile - Rock	EA	\$175.00	0	\$0.00
	Engineering Laboratory Services				
03.03.00	Project Engineer	HR	\$155.22	8	\$1,241.76
03.07.00	Senior Engineering Technician	HR	\$102.97	16	\$1,647.52
03.08.00	Engineering Technician	HR	\$64.23	0	\$0.00
03.10.00	---	HR	N/A	0	\$0.00

Laboratory Testing Services Total Fee: \$10,654.28

Lab Fee Percentage: 9.1%

03.00.00 GEOTECHNICAL ENGINEERING AND TECHNICAL SERVICES

03.01.00	Chief Engineer	HR	\$233.68	12	\$2,804.16
03.02.00	Senior Engineer	HR	\$204.48	40	\$8,179.20
03.03.00	Project Engineer	HR	\$155.22	180	\$27,939.60
03.04.00	Engineering Intern	HR	\$87.83	0	\$0.00
03.05.00	CADD/GIS Technician	HR	\$111.79	24	\$2,682.96
03.06.00	Secretary/Clerical	HR	\$89.33	16	\$1,429.28
03.07.00	Senior Engineering Technician	HR	\$102.97	0	\$0.00
03.08.00	Engineering Technician	HR	\$64.23	0	\$0.00
03.09.00	---	HR	N/A	0	\$0.00
03.10.00	---	HR	N/A	0	\$0.00
03.11.00	---	HR	N/A	0	\$0.00

Engineering and Technical Services Totals: 328 \$43,035.20

Engineering Fee Percentage: 36.8%

TOTAL FEE: \$117,087.52

COMPUTATION OF CONTAMINATION COSTS

Subject: Contamination Screening Evaluation
Project: SR 528 Econlockhatchee River Bridge Replacement
FPN: —

Prepared By: DCS
Date: 6/9/2015

	Unit	Unit Price	No. Units	Cost	Notes
04.00.00 CONTAMINATION FIELD EXPLORATION					
04.01.00 Crew & Equipment Mobilization:					
04.01.01 Direct Push Rig Mobilization	EA	\$500.00	0	\$0.00	
04.01.02 Direct Push Rig	DAY	\$1,500.00	0	\$0.00	
04.01.03 Direct Push Well Materials	LF	\$25.00	0	\$0.00	
04.01.04 Organic Vapor Analyzer	DAY	\$160.00	0	\$0.00	
04.01.05 Multi-Parameter Water Quality	DAY	\$125.00	0	\$0.00	
04.01.06 Support Vehicle - Truck	DAY	\$60.00	0	\$0.00	
04.01.07 Support Vehicle - Boat	DAY	\$200.00	0	\$0.00	
04.01.08 GPS Unit	DAY	\$75.00	0	\$0.00	
04.01.09 Ground Penetrating Radar Crew - 2 Person	HR	\$250.00	0	\$0.00	
04.01.10 Heavy Equipment Mobilization	DAY	N/A	0	\$0.00	
04.01.11 Rig Remobilization	EA	N/A	0	\$0.00	
04.02.00 Drill Rig and Crew (Clearing/Difficult Access)					
04.02.01 Drill Rig and Crew - Truck	HR	\$220.00	0	\$0.00	
04.03.00 Monitoring Well					
04.03.01 Monitoring Well (0-50')	LF	\$35.00	0	\$0.00	
04.03.02 Monitoring Well (50-100')	LF	\$45.00	0	\$0.00	
04.03.03 Well Completion (flush mount)	EA	\$250.00	0	\$0.00	
04.03.04 Well Completion (aboveground)	EA	\$350.00	0	\$0.00	
04.04.00 100 FT Water Level Meter	DAY	\$40.00	0	\$0.00	
04.05.00 Lamotte Turbidity Meter	DAY	\$50.00	0	\$0.00	
04.06.00 Dissolved Oxygen Meter	DAY	\$50.00	0	\$0.00	
04.07.00 pH Meter w/ Calibration Kit	DAY	\$50.00	0	\$0.00	
04.08.00 Miscellaneous Supplies	DAY	\$50.00	0	\$0.00	
04.09.00 Maintenance of Traffic					
04.09.01 MOT - Barricades	DAY	N/A	0	\$0.00	
04.09.02 MOT - Flashing Arrowboard	DAY	N/A	0	\$0.00	
04.09.03 MOT - Law Enforcement Officer	DAY	N/A	0	\$0.00	
04.09.04 MOT - Crash Truck	DAY	N/A	0	\$0.00	
04.09.05 MOT - Support Vehicle	DAY	N/A	0	\$0.00	
04.09.06 MOT - Signs	DAY	N/A	0	\$0.00	
04.09.07 MOT - Certified Traffic Control Specialist	HR	N/A	0	\$0.00	
Field Exploration Total Fee:				\$0.00	
Field Fee Percentage:				0.0%	

COMPUTATION OF CONTAMINATION COSTS

Subject: Contamination Screening Evaluation
Project: SR 528 Econlockhatchee River Bridge Replacement
FPN: ---

Prepared By: DCS
Date: 6/9/2015

	Unit	Unit Price	No. Units	Cost	Notes
05.00.00 CONTAMINATION LABORATORY TESTING SERVICES					
05.01.00	RCRA Metals				
05.01.01	RCRA Metals - Soil	EA	\$125.00	0	\$0.00
05.01.02	RCRA Metals - Water	EA	\$125.00	0	\$0.00
05.02.00	Herbicide/Pesticide (EPA Method 8081, 8141, 8151)				
05.02.01	Herbicide/Pesticide - Soil	EA	\$450.00	0	\$0.00
05.02.02	Herbicide/Pesticide - Water	EA	\$450.00	0	\$0.00
05.03.00	Table B: Gasoline/Kerosene				
05.03.01	Table B: Gasoline/Kerosene - Soil	EA	\$350.00	0	\$0.00
05.03.02	Table B: Gasoline/Kerosene - Water	EA	\$400.00	0	\$0.00
05.04.00	Table C: Used Oil/Unknown				
05.04.01	Table C: Used Oil/Unknown - Soil	EA	\$755.00	0	\$0.00
05.04.02	Table C: Used Oil/Unknown - Water	EA	\$815.00	0	\$0.00
05.05.00	EPA 8260 Full				
05.05.01	EPA 8260 Full - Soil	EA	N/A	0	\$0.00
05.05.02	EPA 8260 Full - Water	EA	N/A	0	\$0.00
				Laboratory Testing Services Total Fee:	\$0.00
				Lab Fee Percentage:	0.0%
06.00.00 CONTAMINATION MAP AND DATABASE SEARCHES					
06.01.00	Contamination Database Report	EA	N/A	1	\$250.00
06.02.00	Fire Insurance Map Coverage Database	EA	N/A	0	\$0.00
06.03.00	Fire Insurance Map Search Abstract with Documen	EA	N/A	0	\$0.00
06.04.00	Area Search - 50\$/Sq. Mile after initial Sq. Mile	EA	N/A	0	\$0.00
06.05.00	Linear/Corridor Search - 50\$/Sq. Mile after initial 3	EA	N/A	0	\$0.00
06.06.00	Historic Topographic Maps (all available)	EA	N/A	0	\$0.00
				Map and Database Search Total Fee:	\$250.00
				Map/Database Fee Percentage:	4.0%
07.00.00 CONTAMINATION ENGINEERING AND TECHNICAL SERVICES					
07.01.00	Chief Engineer	HR	\$233.68	4	\$934.72
07.02.00	Senior Engineer	HR	\$204.48	0	\$0.00
07.03.00	Senior Scientist	HR	\$125.19	34	\$4,256.46
07.04.00	Scientist	HR	\$69.99	0	\$0.00
07.05.00	CADD/GIS Technician	HR	\$111.79	4	\$447.16
07.06.00	Secretary/Clerical	HR	\$89.33	4	\$357.32
07.07.00	Senior Engineering Technician	HR	\$102.97	0	\$0.00
07.08.00	Engineering Technician	HR	\$64.23	0	\$0.00
			Engineering and Technical Services Totals:	46	\$5,995.66
			Engineering Fee Percentage:		96.0%
				TOTAL FEE:	\$6,245.66

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project:
County:
FPN:
FAP No.:

CFX Project No 528-131 - SR 528 Bridge Replacement Over The Econoblockatchee River
Orange
0
10/1900

Consultant Name: VHB
enter consultants proj. number
Consultant No.: 7292016
Date: 7/29/2016
Estimator: Erik Spillmann

Staff Classification	Total Staff Hours From Summary - FPM	Principal Engineer	Project Manager	Sr. Designer	Specialist	Engineering Intern	Clerical	Sr. Engineer	Project Engineer	Staff Classification 5	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
3. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
8. Environmental Permit, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
9. Structures - Misc. Tasks, Drgs, Mtn Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
16. Structures - Mobile Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
23. Lighting Analysis	211	6	42	0	0	42	10	57	53	0	0	0	0	210	\$9,073	\$43.20
24. Lighting Plans	50	1	11	0	0	10	3	14	13	0	0	0	0	52	\$2,232	\$42.92
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	334	10	67	100	73	50	33	0	0	0	0	0	0	333	\$14,608	\$43.87
34. Intelligent Transportation Systems Plans	240	5	48	58	60	48	24	0	0	0	0	0	0	241	\$10,048	\$41.68
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	835	22	168	158	133	148	70	71	68	0	0	0	0	838	\$35,865.56	\$43.01

Check = \$35,865.56

SALARY RELATED COSTS:

OVERHEAD: 157.95%

OPERATING MARGIN: 12%

FCM (Facilities Capital Cost Money):

EXPENSES: See Expense Estimate Sheet

Survey (Field - if by Prime) 0 4-man crew \$ / day

SUBTOTAL ESTIMATED FEE:

Subconsultant: Elder Name Sub 1

Subconsultant: Sub 2

Subconsultant: Sub 3

Subconsultant: Sub 4

Subconsultant: Sub 5

Subconsultant: Sub 6

Subconsultant: Sub 7

Subconsultant: Sub 8

Subconsultant: Sub 9

Subconsultant: Sub 10

Subconsultant: Sub 11

Subconsultant: Sub 12

SUBTOTAL ESTIMATED FEE:

Geotechnical Field and Lab Testing

SUBTOTAL ESTIMATED FEE:

Optional Services

GRAND TOTAL ESTIMATED FEE:

\$104,907.23

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

Survey Field Days by Subconsultant

4 - Person Crew:

ATTACHMENT B-4
REIMBURSEABLE OUT-OF-POCKET EXPENSES

Consultant: VHB VHB Project No: _____
Description: CFX Project No 528-131 - SR 528 Bridge Replacement Over The Econolockhatchee River
Solicitation No (s): _____

PHOTOGRAPHY

Film & Development - Color 24 exposure	0	rolls	x	\$8.00	per roll =	\$0.00
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PHOTOGRAPHY TOTALS:	\$0.00
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REPRODUCTION

Number of sets required>>

[illegible]

REPRODUCTION TOTALS:	\$515.60
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PRESENTATION MATERIALS

report copies	x	\$ 1.05	per copy =	\$0.00
boards	x	\$ 32.62	per sht =	\$0.00
mailings	x	\$ 0.38	per sht =	\$0.00

PRESENTATION MTLs TOTALS: **\$0.00**

TRAVEL EXPENSES

TO Orlando Office						FROM Orlando Office				
Per Diem:	<u> </u>	trips x	<u> 1 </u>	people	x	<u> 0 </u>	days x	<u>\$21.00</u>	per day =	<u>\$0.00</u>
Hotel:	<u> </u>	trips x	<u> 1 </u>	nites/trip	x	<u> \$ 72.15 </u>	per nite		=	<u>\$0.00</u>
Rental Car:	<u> </u>	trips x	<u> 0 </u>	days	x	<u> \$ 37.31 </u>	per day		=	<u>\$0.00</u>
Airfare:	<u> </u>	trips x	<u> 1 </u>	people	x	<u> \$ 103.50 </u>	per trip		=	<u>\$0.00</u>
TO Orlando Office						FROM Orlando Office				
Per Diem:	<u> </u>	trips x	<u> 1 </u>	people	x	<u> 0 </u>	days x	<u>\$21.00</u>	per day =	<u>\$0.00</u>
Hotel:	<u> </u>	trips x	<u> 1 </u>	people	x	<u> 0 </u>	nites/trip x	<u> \$ 72.15 </u>	per nite =	<u>\$0.00</u>
Rental Car:	<u> </u>	trips x	<u> 1 </u>	days	x	<u> \$ 37.31 </u>	per day		=	<u>\$0.00</u>
Airfare:	<u> </u>	trips x	<u> 1 </u>	people	x	<u> \$ 103.50 </u>	per trip		=	<u>\$0.00</u>
TO Orlando Office						FROM Orlando Office				
Mileage:	<u> 8 </u>	trips x	<u> 16 </u>	miles	x	<u> \$0.445 </u>	per mile		=	<u>\$56.96</u>
TO Meeting Location						FROM Orlando Office				
Mileage:	<u> 3 </u>	trips x	<u> 10 </u>	miles	x	<u> \$0.445 </u>	per mile		=	<u>\$13.35</u>
TO Meeting/Other Location						FROM Orlando Office				
Mileage:	<u> 4 </u>	trips x	<u> 20 </u>	miles	x	<u> \$0.445 </u>	per mile		=	<u>\$35.60</u>

TOTAL TRAVEL EXPENSES:	\$105.91
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MONTHLY SHIPPING COSTS

Shipping & Telephone Costs:

<u>8</u>	months	x	<u>\$50.00</u>	=	\$400.00
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MISCELLANEOUS EXPENSES

1	LS	x	\$0.00	=	\$0.00
				=	\$0.00
				=	\$0.00

TOTAL OUT-OF-POCKET EXPENSES: **\$1,021.51**

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

6/24/2015
SR 528 Bridge over the Econ
County: Orange
FPM: 528-131
FAP No.: N/A

Consultant Name: WBO
Consultant No.:
Date: 7/28/2015
Estimator: WBO

Staff Classification	Principal	Project Manager	Chief Engineer	Sr. Utility Coordinator	Sr. Project Engineer	Project Engineer	Contract Coordinator	Sr. Surveyor & Mapper	Surveyor & Mapper	Survey Technician	SH By Activity	Salary Cost By Activity	Average Rate Per Task
3. Project General and Project Common Tasks	\$56.56	\$72.96	\$52.25	\$52.02	\$43.72	\$32.67	\$24.24	\$48.25	\$30.87	\$22.00	20	\$1,458	\$72.96
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6a. Drainage Analysis	1	5	12	10	12	5	0	0	0	0	45	\$2,407	\$3,480
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
8. Environmental Permits, Compliance & Clearances	138	0	0	69	0	69	0	0	0	0	138	\$5,844	\$42.35
9. Structures - Misc. Tasks, Dwg. Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
16. Structures - Mobile Span	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
19. Signing & Pavement Marking Analysis	237	5	59	57	64	28	0	0	0	0	237	\$12,535	\$52.89
20. Signing & Pavement Marking Plans	119	2	12	30	32	14	0	0	0	0	119	\$6,281	\$52.78
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey (Field & Office Support)	178	0	0	0	0	0	0	14	89	75	178	\$5,073	\$28.50
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
32. Noise Barrier Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	738	8	61	101	108	116	0	14	89	75	737	\$33,988.00	\$45.68
Total Staff Cost	\$692.48	\$4,450.56	\$9,207.25	\$9,563.30	\$4,721.76	\$3,789.72	\$0.00	\$975.50	\$2,747.43	\$1,650.00	Check =	\$33,988.00	\$45.68

SALARY RELATED COSTS:	182.4500%
OVERHEAD RATE:	11.2400%
PROFIT	4-man crew days @ 10 hr days
SUBTOTAL ESTIMATED FEE:	\$ 1,902.73 10 hours / day
SURVEY (Field - If by Prime)	37
SUBTOTAL ESTIMATED FEE:	\$176,860.00
Subcontract: Sub 1	\$0.00
Subcontract: Sub 2	\$0.00
Subcontract: Sub 3	\$0.00
Subcontract: Sub 4	\$0.00
Subcontract: Sub 5	\$0.00
Subcontract: Sub 6	\$0.00
Subcontract: Sub 7	\$0.00
Subcontract: Sub 8	\$0.00
Subcontract: Sub 9	\$0.00
Subcontract: Sub 10	\$0.00
Subcontract: Sub 11	\$0.00
Subcontract: Sub 12	\$0.00
SUBTOTAL ESTIMATED FEE:	\$176,860.00
Geotechnical Field and Lab Testing	\$0.00
SUBTOTAL ESTIMATED FEE:	\$176,860.00
Optional Services	\$0.00
GRAND TOTAL ESTIMATED FEE:	\$176,860.00

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

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: CFX SR 528 ECON BRIDGE 528-131
 County: 0
 FPN: 0
 FAP No.: 1/0/1900

Consultant Name: McKim & Creed, Inc.
 Consultant No.: enter consultants proj. number
 Date: 7/29/2015
 Estimator: insert name

Staff Classification	Total Staff Hours From "SH Summary Firm"	Sr Utility Coordinator	Surveyor	Survey Tech	Utility Coordinator	Utility Locator	Utility Tech	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
3. Project General and Project Common Tasks	0	0	0	\$84.85	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0	#DIV/0!
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
9. Structures - Misc. Tasks, Dwg, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey (Field & Office Support)	36.75	11.03	7.35	18.38	0	0	0	0	0	0	0	0	0	36.78	\$4,413	\$120.06
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	36.75	11.03	7.35	18.38	0	0	0	0	0	0	0	0	0	36.78		
Total Staff Cost		\$1,842.23	\$1,011.51	\$1,559.54	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$4,413.28	\$120.06

Check = \$4,413.28

Notes:

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

SALARY RELATED COSTS:

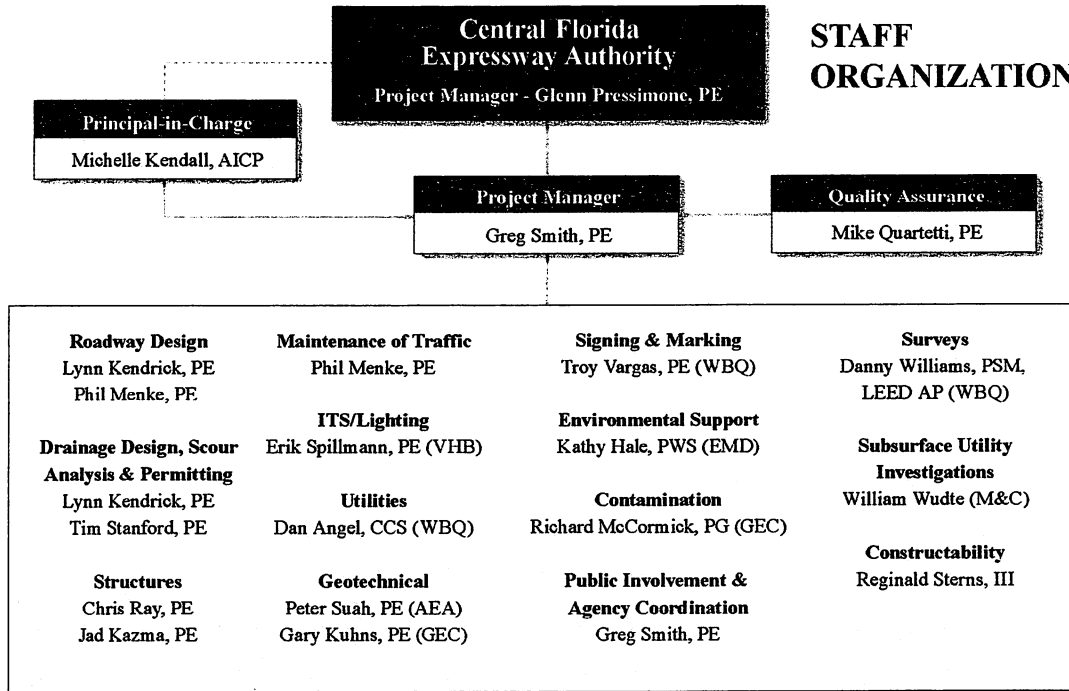
OVERHEAD:	0%	\$4,413.28
OPERATING MARGIN:	0%	\$0.00
FCCM (Facilities Capital Cost Money):	0.00%	\$0.00
EXPENSES:	0.00%	\$0.00
SUBTOTAL ESTIMATED FEE:		\$4,413.28
Survey (Field)	4.20000 3 Man Designate Crew	\$ 1,741.76 / day
Survey (Field)	3.37500 4 Man Locate Crew	\$ 2,126.72 / day
Survey (Field)	1.64375 3 Man Survey Crew	\$ 1,741.76 / day
Geotechnical Field and Lab Testing		\$0.00
SUBTOTAL ESTIMATED FEE:		\$21,769.37
Optional Services		\$0.00
GRAND TOTAL ESTIMATED FEE:		\$21,769.37

EXHIBIT D

PROJECT ORGANIZATIONAL CHART

S.R. 528 ECONLOCKHATCHEE RIVER BRIDGE REPLACEMENT DESIGN SERVICES

Project No. 528-131 / Contract No. 001098 / Orange County



THE 528 DESIGN TEAM



Greg Smith, PE



Mike Quartetti, PE



Lynn Kendrick, PE



Tim Stanford, PE



Phil Menke, PE



Jad Kazma, PE



Chris Ray, PE



Reginald Sterns, III

Subconsultants

AEA - Antillian Engineering Associates, Inc. (MBE)
 EMD - Environmental Management & Design, Inc. (WBE)
 GEC - Geotechnical and Environmental Consultants, Inc. (SBE)
 M&C - McKim & Creed, Inc.
 VHB - VHB, Inc.
 WBQ - WBQ Design & Engineering, Inc. (MBE, SBE)

EXHIBIT E

PROJECT LOCATION MAP

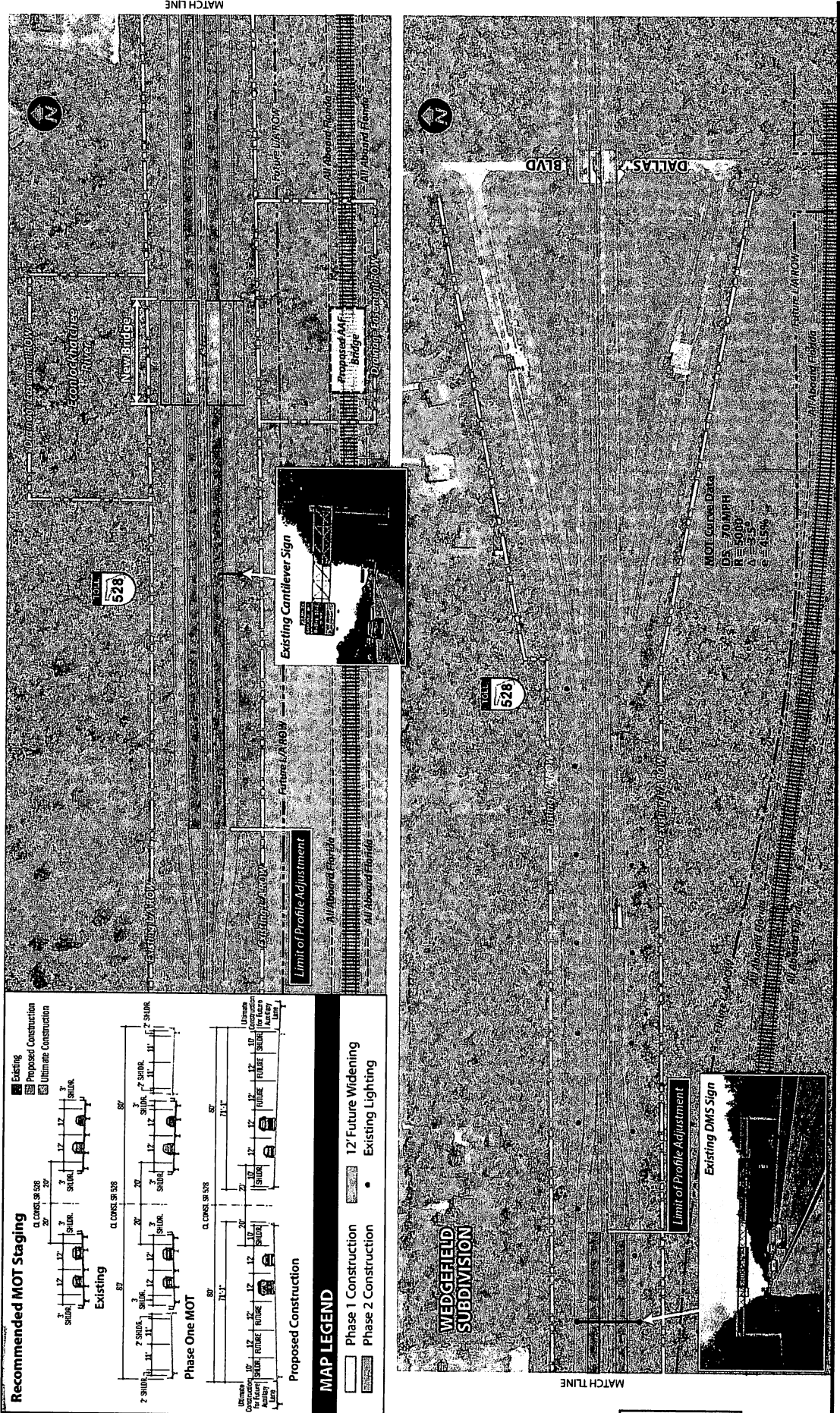


EXHIBIT F
SCHEDULE

CENTRAL FLORIDA EXPRESSWAY **S.R. 528 BRIDGE REPLACEMENT OVER THE ECONLOCKHATCHEE RIVER PROJECT SCHEDULE**

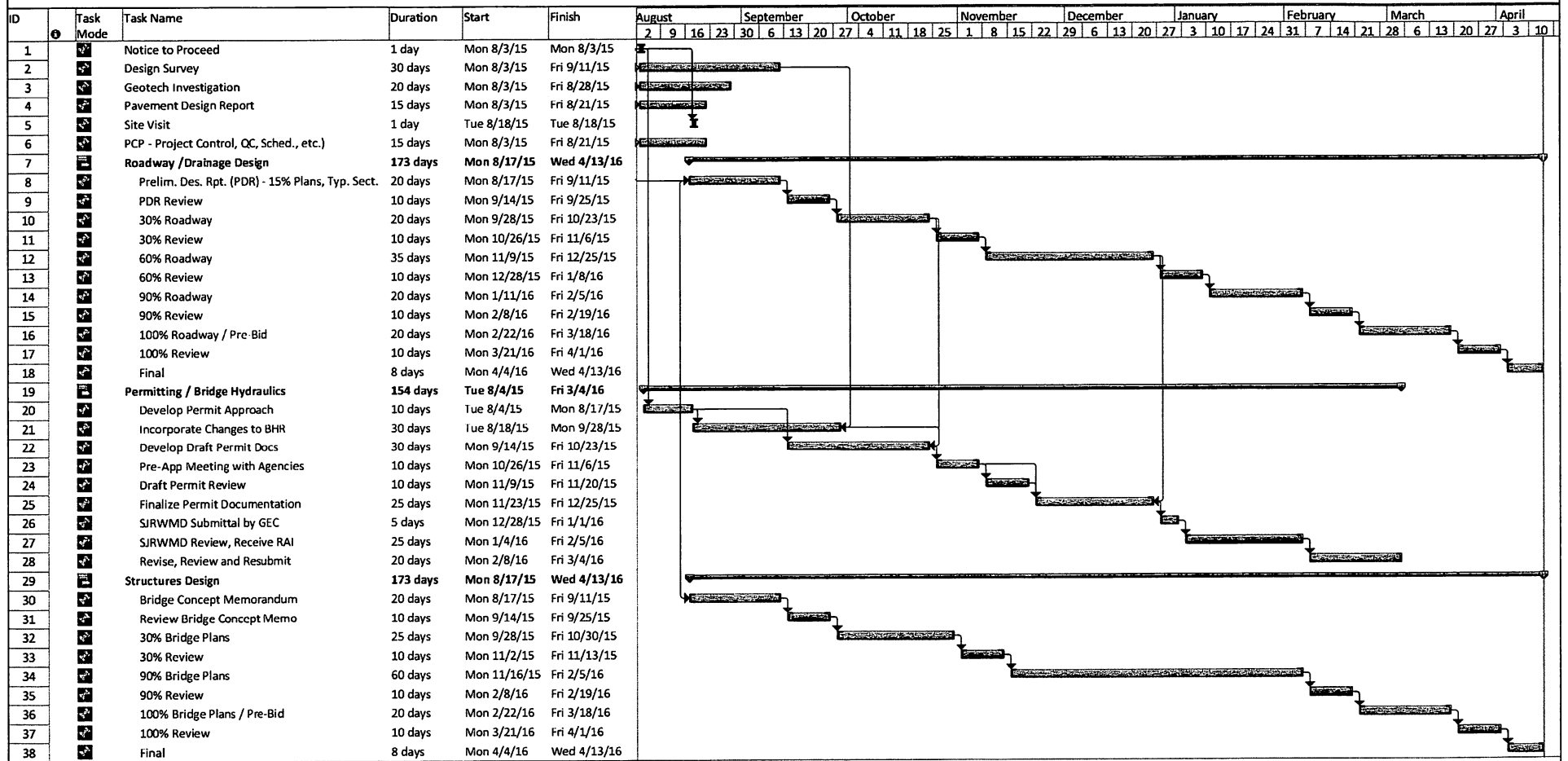


EXHIBIT F

Prepared by: Parsons Brinckerhoff
SR 528 Econ River Bridge Replacement-Schedule-6-17-15
Date: Wed 6/24/15

Task

Split

Milestone

Summary

Project Summary

External Tasks

External Milestone

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

Deadline

Progress