


# CENTRAL FLORIDA EXPRESSWAY AUTHORITY

## MEMORANDUM

TO: CFX Board Members

FROM: Aneth O. Williams   
Director of Procurement

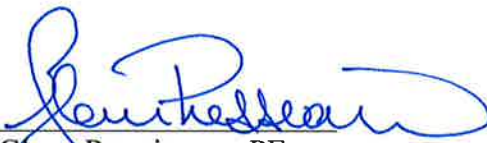

DATE: February 21, 2017

SUBJECT: Award of Contract to CH2M Hill, Inc., for the Concept, Feasibility & Mobility Study for the Osceola Parkway Extension  
Project 599-221, Contract No. 001248 - AMENDED

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The Board approved on January 12, 2017, the final ranking and authorization to negotiate with firms for the Concept, Feasibility & Mobility Studies of the Osceola County Expressway Authority Master Plan Projects. Negotiations with CH2M Hill, Inc. for the study of the Osceola Parkway Extension have been completed. Board award of the contract to CH2M Hill, Inc. is requested in the not-to-exceed amount of \$1,141,000.00.

Reviewed by:

  
Glenn Pressimone, PE  
Director of Engineering  


# **AGREEMENT FOR PROFESSIONAL SERVICES**

**CENTRAL FLORIDA EXPRESSWAY AUTHORITY  
AND  
CH2M HILL, INC.**

**CONCEPT, FEASIBILITY AND MOBILITY STUDY FOR  
THE OSCEOLA PARKWAY EXTENSION**

**CONTRACT NO. 001248, PROJECT NO. 599-221**

**CONTRACT DATE: March 9, 2017**

**CONTRACT AMOUNT: \$1,141,000.00**

**CENTRAL FLORIDA EXPRESSWAY AUTHORITY**

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

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

THIS AGREEMENT, made and entered into this 9<sup>th</sup> day of March, 2017, by and between the CENTRAL FLORIDA EXPRESSWAY AUTHORITY, a corporate body and agency of the State of Florida, created by Chapter 2014-171, Laws of Florida, which is codified in Chapter 348, Part III of the Florida Statutes, hereinafter "CFX," and CH2M Hill, Inc., hereinafter called "CONSULTANT," registered and authorized to conduct business in the State of Florida, carrying on professional practice in planning and engineering, with the responsible project office located at 225 E. Robinson St., Suite 505, Orlando, FL. 32801.

WITNESSETH:

WHEREAS, CONSULTANT represents that it is fully qualified and authorized to render the professional services contracted herein.

NOW, THEREFORE, in consideration of the mutual understandings and covenants set forth herein, CFX and CONSULTANT agree as follows:

**1.0. DEFINITIONS.**

Reference herein to the Project Manager shall mean CFX's Director of Engineering or his authorized designee. The Project Manager shall provide the management and technical direction for this Agreement on behalf of CFX. 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.

**2.0. SCOPE OF SERVICES.**

CFX does hereby retain the CONSULTANT to furnish certain professional services in connection with the Concept, Feasibility and Mobility Study for the Osceola Parkway Extension hereinafter "the Project." Further identified as Project No. 599-221 and Contract No. 001248.

The CONSULTANT and CFX 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 rendering any of the services, 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.

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 (5) year term from the date of the Notice to Proceed for the required project services as detailed in **Exhibit "A"**. At CFX's sole discretion and election, the Agreement may be renewed with two (2) one-year renewals, or portions thereof. Renewals will be based, in part, on a determination by CFX that the value and level of service provided by the CONSULTANT are satisfactory and adequate for CFX's needs. If a renewal option is exercised, CFX will provide CONSULTANT with written notice of its intent at least thirty (30) days prior to the expiration of the original term and subsequent renewal, if any.

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 for each Project in a format acceptable to CFX and at intervals established by CFX. CFX 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 CFX, or of other agencies interested in the Project on behalf of CFX. Either party to the Agreement may request and be granted a conference.

In the event there are delays on the part of CFX 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, CFX 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 CFX 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. CFX 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 CFX 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 CFX.

## 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 when 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 CFX, 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 CFX. It is understood and agreed that CFX 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.

BCC Engineering, Inc. (Class 1)	Bowman & Blair Ecology & Design, Inc. (Class 1)
Infrastructure Engineers, Inc. (Class 1)	KB Environmental Sciences, Inc. (Class 1)
Southeastern Archaeological Research, Inc. (Class 1)	
Tierra, Inc. (Class 2)	Media Relations Group, LLC (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 CFX, which may be withheld in CFX's sole and absolute discretion. Any attempt by CONSULTANT to dispose of this Contract as described above, in part or in whole, without CFX's written consent shall be null and void and shall, at CFX'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 CFX 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 CFX'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 CFX 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 CFX Board at its next regularly scheduled meeting.

## 6.0 SERVICES TO BE PROVIDED

The work covered by this Agreement as described in **Exhibit "A"**.

All 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 CFX's acceptance of documents for the Project, the original set of CONSULTANT's drawings, tracings, plans, maps and CADD files shall be provided to CFX. 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 CFX of said documents, reports, studies or other data for any purpose other than intended by the terms of this Agreement.

## 7.0 COMPENSATION

CFX agrees to pay the CONSULTANT compensation as detailed in **Exhibit "B"**, Method of Compensation, attached hereto and made a part hereof, in the not-to-exceed amount of \$1,141,000.00 for the initial five-year term of this Agreement. Bills for fees or other compensation for services or expenses shall be submitted to CFX in detail sufficient for a proper pre-audit and post audit thereof.

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

Records of costs incurred by the CONSULTANT under terms of this Agreement shall be maintained and made available upon request to CFX at all times during the period of this Agreement and

for five (5) years after final payment is made. Copies of these documents and records shall be furnished to CFX 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. The obligations in this paragraph survive the termination of the Agreement and continue in full force and effect.

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 CFX 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 CFX without restriction or limitation on their use on this Project; and shall be made available, upon request, to CFX at any time. CFX 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 225 E. Robinson St., Suite 505, Orlando, FL. 32801.

Notwithstanding Section 17, entitled "Communications, Public Relations, and Use of Logos," CONSULTANT acknowledges that CFX is a body politic and corporate, an agency of the State of Florida, and is subject to the Public Records Act codified in Chapter 119, Florida Statutes. To the extent that the CONSULTANT is in the possession of documents that fall within the definition of public records subject to the Public Records Act, which public records have not yet been delivered to CFX, CONSULTANT agrees to comply with Section 119.0701, Florida Statutes.

**IF THE CONSULTANT HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONSULTANT'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT Phone: 407-690-5000, e-mail: publicrecords@cfxway.com, and address: Central Florida Expressway Authority, 4974 ORL Tower Road, Orlando, FL. 32807.**



An excerpt of Section 119.0701, Florida Statutes is below.

Per Section 119.0701(1), "Contractor" means an individual, partnership, corporation, or business entity that enters into a contract for services with a public agency and is acting on behalf of the public agency as provided under s. 119.011(2).

Per Section 119.0701(b). The contractor shall comply with public records laws, specifically to:

1. Keep and maintain public records required by the public agency to perform the service.
2. Upon request from the public agency's custodian of public records, provide the public agency with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in this chapter or as otherwise provided by law.
3. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract if the contractor does not transfer the records to the public agency.
4. Upon completion of the contract, transfer, at no cost, to the public agency all public records in possession of the contractor or keep and maintain public records required by the public agency to perform the service. If the contractor transfers all public records to the public agency upon completion of the contract, the contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the contractor keeps and maintains public records upon completion of the contract, the contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the public agency, upon request from the public agency's custodian of public records, in a format that is compatible with the information technology systems of the public agency.

The obligations in Section 8.0, Document Ownership and Records, shall survive the expiration or termination of this Agreement and continue in full force and effect.

The CONSULTANT shall allow public access to all documents, papers, letters, or other material as approved and authorized by CFX 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 CFX.

#### 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 provided in Section 7.0 are accurate, complete and current as of the date of this Agreement. It is further agreed that said price provided in Section 7.0 hereof shall be adjusted to exclude any significant sums where CFX 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 CFX, whichever is later.

#### 11.0 TERMINATION

CFX may terminate this Agreement in whole or in part, for any reason or no reason, at any time the interest of CFX requires such termination.

If CFX determines that the performance of the CONSULTANT is not satisfactory, CFX 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 CFX requires termination of the Agreement for reasons other than unsatisfactory performance of the CONSULTANT, CFX 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 CFX abandons the work or subtracts from the work, suspends, or terminates the Agreement as presently outlined, the CONSULTANT shall be compensated in accordance with **Exhibit "B"** for work properly performed by the CONSULTANT prior to abandonment or termination of the Agreement. The

ownership of all engineering documents completed or partially completed at the time of such termination or abandonment, shall be transferred to and retained by CFX.

CFX 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 CFX, 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 CFX. The CONSULTANT shall be compensated for work properly performed rendered up to the time of any such termination in accordance with Section 7.0 hereof. CFX 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. CFX further reserves the right to suspend the qualifications of the CONSULTANT to do business with CFX 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 CFX.

## 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 Executive 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 Executive Director whose decision shall be final.

In the event that the CONSULTANT and CFX are not able to reach an agreement as to the amount of compensation to be paid to the CONSULTANT for supplemental work desired by CFX, the CONSULTANT shall be obligated to proceed with the supplemental work in a timely manner for the amount determined by CFX to be reasonable. In such event, the CONSULTANT will have the right to file a claim with CFX for such additional amounts as the CONSULTANT deems reasonable for consideration by the Executive Director; 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 CFX and request clarification of CFX'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, defend, and hold harmless CFX, and its officers, and employees from any claim, liabilities, losses, damages, and costs, including, but not limited to, reasonable attorneys' fees, caused by the negligence, recklessness, or intentionally wrongful conduct of the CONSULTANT and other persons employed or utilized by the CONSULTANT in the performance of the Agreement. The CONSULTANT shall indemnify and hold harmless CFX 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 CFX or any of its officers, agents or employees during the performance of the Agreement.

When CFX 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, CFX 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 (14) calendar days.

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

CONSULTANT in the defense of the lawsuit or to request that the CONSULTANT defend CFX in such lawsuit as described in this section. CFX'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 CFX to the CONSULTANT of the notice of claim or filing of a lawsuit. CFX 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, provided that CFX's liability does not exceed the limits and limitations arising from Section 768.28, Florida Statutes, the doctrine of sovereign immunity, and law.

CFX is an agency of the State of Florida whose limits of liability are set forth in Section 768.28, Florida Statutes, and nothing herein shall be construed to extend the limits of liability of CFX beyond that provided in Section 768.28, Florida Statutes. Nothing herein is intended as a waiver of CFX's sovereign immunity under Section 768.28, Florida Statutes, or law. Nothing hereby shall inure to the benefit of any third party for any purpose, which might allow claims otherwise barred by sovereign immunity or operation of law. Furthermore, all of CFX's obligations are limited to the payment of no more than the amount limitation per person and in the aggregate contained in Section 768.28, Florida Statutes, except for payments for work properly performed, even if the sovereign immunity limitations of that statute are not otherwise applicable to the matters as set forth herein.

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 CFX against any claim, suit or proceeding brought against CFX 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 CFX.

The obligations in Section 14.0, Hold Harmless and Indemnification, shall survive the expiration or termination of this Agreement and continue in full force and effect.

#### 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, other than a bona fide employee working solely for the CONSULTANT any fee, commission, percentage, gift or any other consideration, contingent upon or resulting from the award or making of this Agreement. It is understood and agreed that the term "fee" shall also include brokerage fee, however denoted. For the breach or violation of this paragraph, CFX 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 CFX, the CONSULTANT shall furnish copies of certificates of insurance and endorsements 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 CFX. 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 CFX) or the general aggregate limit shall be twice the required occurrence limit. CFX 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 CFX 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 CFX for negligence, errors, mistakes or omissions in the performance of services to be performed and furnished by the CONSULTANT.

The CONSULTANT shall provide CFX with Certificate(s) of Insurance with required endorsements on all the policies of insurance and renewals thereof in a form(s) acceptable to CFX. CFX 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 CFX 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 CFX, CFX 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 CFX. At the option of CFX, either the insurer shall reduce or eliminate such deductibles or self-insured retentions as requests CFX, 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 CFX.

Compliance with these insurance requirements shall not relieve or limit the CONSULTANT's liabilities and obligations under this Agreement. Failure of CFX to demand such certificate or evidence of full compliance with these insurance requirements or failure of CFX 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 CFX of any certificate of insurance evidencing the required coverage and limits does not constitute approval or agreement by CFX 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 CFX and securing its consent in writing, except as required by law. The CONSULTANT also agrees that it shall not publish, copyright or patent any of the data, documents, reports, or other written or electronic materials furnished in compliance with this Agreement, it being understood that, under Section 8.0 hereof, such data or information is the property of CFX.

Regarding the use of logos, printed documents and presentations produced for CFX shall not contain the name or logo of the CONSULTANT unless approved by CFX's Public Affairs Officer or his/her designee. Prior approval by CFX's Public Affairs Officer or his/her designee is required if a copy of the CFX logo or any CFX mark, including trademarks, service marks, or any other mark, collectively referred as "Marks," is to be used in a document or presentation. The Marks shall not be altered in any way. The width and height of the Marks shall be of equal proportions. If a black and white Mark is utilized, the Mark shall be properly screened to insure all layers of the Mark are visible. The proper presentation of CFX Marks is of utmost importance to CFX. Any questions regarding the use of CFX Marks shall be directed to the CFX Public Affairs Officer 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 and the CFX Code of Ethics 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 complete the Potential Conflict Disclosure Form with contract execution, annually by July 1, and in the event of changed circumstances.



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 CFX's Code of Ethics and the referenced statutes 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 CFX 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 CFX harmless for any violations of the same. Furthermore, if CFX determines that CONSULTANT has knowingly employed any unauthorized alien in the performance of this Agreement, CFX may immediately and unilaterally terminate this Agreement for cause.

#### 20.0 E-VERIFY CLAUSE

CONSULTANT shall utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of all new employees hired by the CONSULTANT during the term of the contract. CONSULTANT shall require all of its subconsultants to verify the employment eligibility of all new employees hired by the subconsultants during the term of the Agreement.

#### 21.0 CONFLICT OF INTEREST

The CONSULTANT shall not knowingly enter into any other contract with CFX 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 CFX 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 Executive Director for resolution.

During the term of this Agreement:

The CONSULTANT is NOT eligible to pursue any advertised construction engineering and inspection projects of CFX 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.

## 22.0 INSPECTOR GENERAL

CONSULTANT agrees to comply with Section 20.055(5), Florida Statutes, and agrees to cooperate with the inspector general in any investigation, audit, inspection, review, or hearing pursuant to this section. CONSULTANT agree to incorporate in all subcontracts the obligation to comply with Section 20.055(5). The obligations in this paragraph shall survive the expiration or termination of this Agreement and continue in full force and effect.

## 23.0 PUBLIC ENTITY CRIME INFORMATION AND ANTI-DISCRIMINATION STATEMENT

Pursuant to Section 287.133(2)(a), Florida Statutes, “a person or affiliate who has been placed on the [Florida Department of Management Services] convicted vendor list following a conviction for a public entity crime may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in s. 287.017 for CATEGORY TWO (\$35,000) for a period of 36 months following the date of being placed on the [Florida Department of Management Services] convicted vendor list.”

Pursuant to Section 287.134(2)(a), Florida Statutes, “an entity or affiliate who has been placed on the [Florida Department of Management Services] discriminatory vendor list may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity.”

## 24.0 INTEGRATION

This Agreement constitutes the entire agreement among the parties pertaining to the subject matter hereof and supersedes all prior and contemporaneous agreements, understandings, negotiations and discussions of the parties, whether oral or written, and there are no other agreements between the parties in connection with the subject matter hereof. No waiver, amendment, or modification of these terms hereof will be valid unless in writing, signed by all parties and only to the extent therein set forth.

## 25.0 ASSIGNMENT

This Agreement may not be assigned without the written consent of CFX.

## 26.0 AVAILABILITY OF FUNDS

CFX's performance and obligation to pay under this Agreement are contingent upon an annual budget appropriation by its Board. The parties agree that in the event funds are not appropriated, this Agreement may be terminated, which shall be effective upon CFX giving notice to the CONSULTANT to that effect.

## 27.0 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.

## 28.0 AUDIT AND EXAMINATION OF RECORDS

### 28.1 Definition of Records:

(i) "Contract Records" shall include, but not be limited to, all information, communications and data, whether in writing or stored on a computer, computer disks, microfilm, writings, working papers, drafts, computer printouts, field notes, charts or any other data compilations, books of account, photographs, videotapes and audiotapes supporting documents, any other papers or preserved data in whatever form, related to the Contract or the CONSULTANT's performance of the Contract determined necessary or desirable by CFX for any purpose. Proposal Records shall include, but not be limited to, all information and data, whether in writing or stored on a computer, writings, working papers, computer printouts, charts or other data compilations that contain or reflect information, data or calculations used by CONSULTANT in determining labor, unit price, or any other component of a bid submitted to CFX.

(ii) "Proposal Records" shall include, but not be limited to, any material relating to the determination or application of equipment rates, home and field overhead rates, related time schedules, labor rates, efficiency or productivity factors, arithmetic extensions, quotations from subcontractors, or material suppliers, profit contingencies and any manuals standard in the industry that may be used by CONSULTANT in determining a price.

28.2 CFX reserves and is granted the right (at any time and from time to time, for any reason whatsoever) to review, audit, copy, examine and investigate in any manner, any Contract Records (as herein defined) or Proposal Records (as hereinafter defined) of the CONSULTANT or any

subcontractor. By submitting a response to the Request for Proposal, CONSULTANT or any subcontractor submits to and agree to comply with the provisions of this section.

28.3 If CFX requests access to or review of any Contract Documents or Proposal Records and CONSULTANT refuses such access or review, or delays such access or review for over ten (10) calendar days, CONSULTANT shall be in default under its Contract with CFX, and such refusal shall, without any other or additional actions or omissions, constitute grounds for suspension or disqualification of CONSULTANT. These provisions shall not be limited in any manner by the existence of any CONSULTANT claims or pending litigation relating to the Contract. Disqualification or suspension of the CONSULTANT for failure to comply with this section shall also preclude the CONSULTANT from acting in the future as a subcontractor of another contractor doing work for CFX during the period of disqualification or suspension. Disqualification shall mean the CONSULTANT is not eligible for and shall be precluded from doing future work for CFX until reinstated by CFX.

28.4 Final Audit for Project Closeout: The CONSULTANT shall permit CFX, at CFX's option, 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 the Contract are subsequently determined to have been inadvertently paid by CFX because of accounting errors or charges not in conformity with the Contract, the CONSULTANT agrees that such amounts are due to CFX upon demand. Final payment to the CONSULTANT shall be adjusted for audit results.

28.5 CONSULTANT shall preserve all Proposal Records and Contract Records for the entire term of the Contract and for a period of five (5) years after the later of: (i) final acceptance of the Project by CFX, (ii) until all claims (if any) regarding the Contract are resolved, or (iii) expiration of the Proposal Records and Contract Records' status as public records, as and if applicable, under Chapter 119, Florida Statutes.

28.6 The obligations in Section 28.0, Audit and Examination of Records, shall survive the expiration or termination of this Agreement and continue in full force and effect.

## 29.0 NOTICE

All notices required pursuant to the terms hereof shall be sent by First Class United States Mail. Unless prior written notification of an alternate address for notices is sent, all notices shall be sent to the following addresses:

To CFX:	Central Florida Expressway Authority
	4974 ORL Tower Road
	Orlando, FL 32807
	Attn: Chief of Infrastructure

Central Florida Expressway Authority  
4974 ORL Tower Road  
Orlando, FL 32807  
Attn: General Counsel

To CONSULTANT: CH2M Hill, Inc.  
225 E. Robinson St., Suite 505  
Orlando, FL 32801  
Attn: Mark Callahan, P.E.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Attn: \_\_\_\_\_

### 30.0 GOVERNING LAW AND VENUE

This Agreement shall be governed by and constructed in accordance with the laws of the State of Florida. The parties consent to the exclusive jurisdiction of the courts located in Orange County, Florida. The obligations in Section 30.0, Governing Law and Venue, shall survive the expiration or termination of this Agreement and continue in full force and effect.

### 31.00 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", Project Schedule

[ SIGNATURES TO FOLLOW ]

Project No. 599-221  
Contract No. 001248

IN WITNESS WHEREOF, the CONSULTANT and CFX 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 CFX's Board of Directors at its meeting on March 9, 2017.

**CH2M HILL, Inc.**

**CENTRAL FLORIDA  
EXPRESSWAY AUTHORITY**

BY: \_\_\_\_\_  
Authorized Signature

BY: \_\_\_\_\_  
Director of Procurement

Print Name: \_\_\_\_\_

Print Name: \_\_\_\_\_

Title: \_\_\_\_\_

Effective Date: \_\_\_\_\_

ATTEST: \_\_\_\_\_ (Seal)  
Secretary or Notary

*Approved as to form and execution, only.*

\_\_\_\_\_  
*General Counsel for CFX*

# **EXHIBIT A**

## **SCOPE OF SERVICES**

**EXHIBIT A**

**CENTRAL FLORIDA EXPRESSWAY AUTHORITY**

**SCOPE OF SERVICES**

**FOR**

**CONCEPT, FEASIBILITY & MOBILITY STUDIES**

**FOR THE**

**OSCEOLA PARKWAY EXTENTION**

**CONTRACT 001248**

**MARCH, 2017**



## Exhibit A

### SCOPE OF SERVICES

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## **1.0 Overview**

The Central Florida Expressway Authority (CFX) requires the professional services of a qualified CONSULTANT to perform a comprehensive Concept, Feasibility and Mobility Study (Study) of the Osceola Parkway Extension as identified in the Osceola County Expressway Authority (OCX) Master Plan and the CFX Visioning + 2040 Master Plan.

## **2.0 Location**

The general limits and descriptions of the Osceola Parkway Extension project corridor is provided below. The CONSULTANT will be responsible for refining the corridor limits and defining the logical termini for the project.

**Osceola Parkway Extension:** The Osceola Parkway Extension is a 9-mile corridor beginning approximately one mile west of the Boggy Creek Road and Osceola Parkway intersection, and extending eastward to the Northeast Connector Expressway. The project also includes a potential north/south segment linking to SR 417 in the general vicinity of the Boggy Creek Road interchange. Florida's Turnpike Enterprise in association with OCX is currently performing a Project Development and Environment (PD&E) study for this project.

The corridor is generally depicted on **Exhibit E**.

## **3.0 Purpose**

The purpose of this Exhibit is to describe the scope of work for the Study and the responsibilities of the CONSULTANT, CFX, CFX's general engineering consultant (GEC) and CFX's traffic and earnings (T&E) consultant.

## **4.0 Objective**

The Study will include the development and evaluation of alternate mobility programs within the project corridor. The work will include the evaluation and documentation of the physical, natural, social, and cultural environment within the corridor and the potential impacts associated with the various mobility alternatives. This analysis will also address economic and engineering feasibility, mobility capacity and levels of service; conceptual geometry and structures; and potential interchanges and intersection improvements. Public involvement and interagency coordination will be an integral part of the assessment process.

The CONSULTANT, in coordination with CFX and its T&E Consultant will forecast the future transportation demands within each corridor (design year of 2045). The CONSULTANT will then develop a range of transportation mobility options and programs that could adequately meet the future demand. Corridor mobility elements to be considered will include but are not necessarily constrained to limited access tolled expressways, mass transit technologies, and intermodal facilities. The CONSULTANT will be responsible for estimating the overall project costs associated with each mobility alternative, including planning, design, construction, operations, permitting and other project related costs. The GEC will be responsible for estimating the right-of-way acquisition costs based on input from the CONSULTANT.

The general objective of this Study is to provide documented information necessary for CFX to reach a decision on the viability of each mobility option. Viability is defined in the Interlocal Agreement by and among Osceola County, CFX and OCX as follows:

*“Viable” or “Viability” shall mean an OCX Segment or any portion thereof that is projected in writing by CFX’s traffic and revenue consultant to generate toll revenues over a period of thirty years equal to at least fifty percent (50%) of the cost of such OCX Segment or applicable portion thereof; provided however, that with respect to an interchange portion of an OCX Segment or a portion of any OCX Segment located outside of the County, such interchange or portion of an OCX Segment outside the County is projected in writing by CFX’s traffic and revenue consultant to generate new CFX System Pledged Revenues over a period of thirty years in excess of the cost to build such interchange or portion of such OCX Segment. The cost of an OCX segment or portion thereof shall be determined by CFX, exercising reasonable judgment, as part of its Concept and Feasibility Study and the components of such cost (e.g., right-of-way, construction costs, financing costs, planning and design costs) shall be consistent with CFX’s past practices for such a determination and shall take into consideration any right-of-way donations and other public or private partnership contributions.*

## **5.0 Governing Regulations**

The services performed by the CONSULTANT shall comply with all applicable CFX and FDOT Manuals and Guidelines. The FDOT’s Manuals and Guidelines incorporate by requirement or reference all applicable State and Federal regulations. The current edition, including updates, of the following FDOT Manuals and Guidelines shall be used in the performance of this work. It is understood that AASHTO criteria shall apply as incipient policy. Some standards may not apply to the project, but are listed for reference.

- Florida Statutes
- Florida Administrative Codes
- Applicable federal regulations and technical advisories.
- Project Development and Environment Manual
- Plans Preparation Manual
- Roadway Traffic and Design Standards
- Highway Capacity Manual
- Manual of Uniform Traffic Control Devices (MUTCD)
- Manual of Uniform Minimum Standards for Design, Construction, and Maintenance for Streets and Highways
- Bicycle Facilities Planning and Design Manual
- Right-of-Way Mapping Handbook
- Location Survey Manual
- EFB User Guide
- Drainage Manual and Handbooks
- Outline Specifications - Aerial Surveys/Photogrammetry
- Soils and Foundations Manual
- Structures Design Guidelines
- CADD Manual (No. 625-050-001)

CADD Production Criteria Handbook  
Florida's Level of Service Standards and Guidelines Manual for Planning (No. 525-000-005)  
Equivalent Single Axle Load Guidelines (No. 525-030-121)  
Design Traffic Procedure (No. 525-030-120)  
K-Factor Estimation Process  
Project Traffic Forecasting Guidelines  
Florida Highway Landscape Guide  
Basis of Estimates Manual

## **6.0 Project Management and Administration**

CFX's General Engineering Consultant (GEC) will provide contract administration, project management services and technical reviews of all work associated with the development and preparation of the Study reports.

### **6.1 Notice to Proceed Meeting**

The CONSULTANT shall meet with appropriate CFX, GEC and T&E personnel immediately following receipt of the Notice to Proceed. As a minimum, the CONSULTANT's Project Manager and senior project personnel shall attend. At the Notice to Proceed Meeting, CFX will:

- Render all relevant information in its possession
- Establish any ground rules upon which the Study process will be conducted
- Bring to the attention of the CONSULTANT any special or controversial issues to be considered in the Study
- Explain the financial administration of the contract

### **6.2 Key Personnel**

The CONSULTANT'S work shall be performed and directed by the key personnel identified by the CONSULTANT and approved by CFX. Any proposed changes to key personnel shall be subject to review and approval by CFX.

### **6.3 Project Schedule**

The Study is expected to have a twelve (12) month duration. Within ten (10) working days after receipt of the Notice-to-Proceed, the CONSULTANT shall provide a schedule of calendar deadlines to the GEC for review. The CONSULTANT shall update the project schedule on a monthly basis and inform CFX of any substantial potential schedule modifications.

### **6.4 Correspondence**

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

### **6.5 Quality Control**

The CONSULTANT shall be responsible for ensuring that all work products conform to CFX standards and criteria. This shall be accomplished through an internal Quality Control (QC) process performed by the CONSULTANT. This QC process shall ensure that quality is achieved through checking, reviewing, and surveillance of work activities by objective and qualified

individuals who were not directly responsible for performing the initial work.

The CONSULTANT shall submit a Quality Assurance/Quality Control (QA/QC) Plan to the GEC for review and approval within ten (10) working days following the Notice to Proceed Meeting.

#### **6.6 Project Management, Meetings and Coordination**

The CONSULTANT shall meet with CFX staff and the GEC as needed throughout the life of the project. The CONSULTANT should be prepared to meet on a bi-monthly basis for progress meetings; therefore, 24 meetings should be anticipated. The actual frequency of the meetings will vary depending on the project stage and pending activities.

Progress reports shall be delivered to CFX in a format as prescribed by the GEC and no less than 10 days prior to submission of the corresponding invoice. Judgment on whether work of sufficient quality and quantity has been accomplished will be made by the GEC Project Manager by comparing the reported percent complete against actual work accomplished.

#### **7.0 Public involvement**

Public involvement includes communicating to and receiving information from all interested persons, groups, and government organizations on topics related to the Study. The CONSULTANT shall coordinate and perform the appropriate level of public involvement for this project as described in the following subsections. All public involvement tasks and activities will be coordinated with CFX's Public Affairs and Communications Department.

##### **7.1 Public Involvement Plan**

The CONSULTANT will prepare a comprehensive Public Involvement Plan (PIP) and submit to the GEC within ten (10) business days following the Notice to Proceed meeting. The purpose of the PIP is to establish and maintain a strategy for early, meaningful, and continuous public and stakeholder involvement throughout the Study process.

The CONSULTANT shall perform all data collection activities necessary to prepare and implement the PIP including but not limited to the following:

- Identification of stakeholders and interested parties,
- Field review of potential meeting sites,
- Preparation and distribution of meeting announcements and notices,
- Preparation of meeting notes.

##### **7.2 Mailing List**

The CONSULTANT shall be responsible for developing, maintaining, and updating a project mailing list which will include:

- Public officials and their staffs
- Affected residents, business tenants and property owners within the corridor
- Environmental Advisory Group (EAG)
- Project Advisory Group (PAG)
- Interested parties, including:
  - Residents/property owners within the corridor

- Other informed parties who notify the CONSULTANT that they desire to be added to the mailing list.
- Special interest groups

The CONSULTANT will incorporate the mailing lists received from the recent PD&E study. The CONSULTANT will maintain the mailing list in a computer file which is acceptable to CFX. For each mailing, the CONSULTANT will provide CFX a computer file of the mailing list and a hard copy printout, certified by the CONSULTANT as true and correct. Additional groups and/or individuals may be included on the mailing list as requested.

### **7.3 Public Meeting**

The CONSULTANT shall be responsible for conducting one (1) public information meeting. The meeting will be scheduled to coincide with submittal of the Draft Concept, Feasibility and Mobility Study Report. It is anticipated the meeting will be conducted in an open house format, with a brief scripted presentation and question and answer session.

The CONSULTANT shall prepare and/or provide:

- Handouts
- Display graphics and presentation
- Meeting equipment set-up and tear-down
- Legal and/or display advertisements (The CONSULTANT will pay the cost of publishing)
- Letters for notification of elected and appointed officials, affected property owners and other interested parties. (The CONSULTANT will pay the cost of first class postage.)
- News releases.

The CONSULTANT will investigate potential meeting sites and pay all costs for meeting site rents and insurance. The CONSULTANT will attend the meetings with an appropriate number of personnel to assist CFX staff.

Drafts of all notification advertisements and letters shall be submitted to CFX for its approval at least one week prior to mailing. Mailings, legal notices and/or newspaper display advertisements shall be the responsibility of the CONSULTANT. Actual copies of the notices shall be retained in the project files.

Within two (2) weeks after the public meeting, the CONSULTANT will prepare a complete meeting summary that will contain at a minimum:

- Advertisements and legal notices
- Fact Sheets
- Meeting Notes
- Sign-in sheets
- Comment sheets
- Draft responses to comments and inquiries (if appropriate)

The CONSULTANT will also be responsible for attending the Public Meetings of the other three CFX

Feasibility Studies related to the OCX Master Plan. The CONSULTANT will provide exhibits and staff to address any questions related to their specific project.

#### **7.4 Board Meetings**

The CONSULTANT shall be responsible for conducting two (2) presentations each to the Osceola County Expressway Authority, Central Florida Expressway Authority and the Osceola County Board of County Commissioners. It is anticipated the presentations will be conducted to coincide with a scheduled Board Meeting with a brief scripted presentation and question and answer session.

The CONSULTANT shall prepare and/or provide:

- Handouts
- Display graphics and PowerPoint presentation
- Meeting equipment set-up and tear-down

#### **7.5 Advisory Groups**

The GEC shall establish a Project Advisory Group (PAG) and Environmental Advisory Group (EAG), which will include staff from the FDOT, Lynx, Orange County, Osceola County, Polk County, permitting agencies, environmental organizations, special interest groups and other entities as identified by CFX. The CONSULTANT will be available to meet with the PAG and EAG up to three (3) times each during the Study to present information regarding the project, receive input and respond to questions.

Potential meeting milestones will include:

- a) Project Kick-off
- b) Prior to Public Workshop
- c) Project Completion

The CONSULTANT will coordinate with CFX and the GEC to prepare the initial PAG and EAG members list. The GEC will be responsible for contacting the PAG and EAG members and maintaining coordination with them throughout the Study, however, the CONSULTANT will be responsible for preparing all materials, presentations, etc. distributed to the PAG/EAG members.

#### **7.6 Project Kick-Off Letter**

Within 30 calendar days after the Notice to Proceed meeting, the CONSULTANT will prepare and distribute a Project Kick-Off Letter to the following organizations: FDOT, METROPLAN ORLANDO, Polk TPO, local government agencies, the East Central Florida Regional Planning Council, environmental regulatory agencies and any group or individual that expressed an interest in the project. The purpose of this letter will be to introduce the CONSULTANT to the local officials and to acquaint them with the Study, its purpose and objectives. Typical information shall include: Study team, project scope, project limits, schedule, and potential issues and concerns.

#### **7.7 Unscheduled Project Meetings**

The CONSULTANT may be required to participate in unscheduled meetings with the public,



elected officials, or public agencies. The CONSULTANT shall be available with no more than a five (5) working day notice, to attend these meetings or make presentations at the request of CFX. Such meetings and presentations may be held at any hour between 7:00 a.m. and 12:00 midnight on any day of the week. The CONSULTANT may be called upon to provide maps, draft news releases, audio-visual displays, and similar material for such meetings. The CONSULTANT shall be prepared to attend up to 24 such unscheduled meetings.

#### **7.8 Project Information Line/General Public Correspondence**

The CONSULTANT shall make available knowledgeable staff that interested parties may call with questions concerning the project. The CONSULTANT will be available to answer questions and respond to comments through this "Information Line" during regular business hours.

#### **7.9 Project Newsletters**

The CONSULTANT shall prepare and distribute three (3) project newsletters which will be designed to inform interested parties as to the status of the project. Newsletters shall have the quality of desk-top publishing and be comparable to the previous CFX work efforts. Distribution of the newsletters will coincide with key project milestones as follows:

- Project Kick-off
- Public Meeting / Workshop
- Project Completion

The CONSULTANT will distribute Newsletters to all interested parties, public officials, property owners, special interest groups, etc. as identified above. Distribution of the Newsletter may involve direct mail as well as distribution through various media such as public schools, churches, civic organizations, public libraries, etc.

#### **7.10 Project Webpage**

The CONSULTANT shall provide information about the Study to CFX for inclusion in their Webpage. After initial posting of the project information, the CONSULTANT shall provide updated information to CFX three (3) times during the Study.

### **8.0 Data Collection**

Immediately following the Notice to Proceed, the CONSULTANT shall begin data collection. The information collected should include all data necessary to adequately identify and evaluate the alternative mobility programs.

The CONSULTANT shall make maximum use of existing information available from state, regional and local resources, along with information developed during the recent PD&E study. The data base information shall be compatible for use on base maps used for public presentations, corridor maps, and alternative plans.

The CONSULTANT shall obtain all documents prepared as part of the Project Development and Environment (PD&E) study performed by Kimley-Horn and Associates on behalf of Florida's Turnpike Enterprise and the Osceola County Expressway Authority. The CONSULTANT will review all PD&E documents and will utilize and incorporate all relevant data / analyses / findings / etc. into this Study. The CONSULTANT shall identify any changed conditions, verify adherence to CFX design criteria and perform an in-depth evaluation of the PD&E findings,

recommendations and commitments. Within 30 days from Notice to Proceed, the CONSULTANT shall prepare a technical memorandum (PD&E Evaluation Technical Memorandum) summarizing the results of their evaluation and providing recommendations to be incorporated into the Study.

### **8.1 Aerial Photography**

The CONSULTANT shall use aerial photography as the basis for plotting various data necessary for planning, engineering and environmental analysis, and presentation of the alternative mobility programs. Copies of aerial photography are the prime source of information used to convey project considerations. Existing available aerial photography will be utilized and the digital aerial photography should be compatible with Microstation.

Generally, controlled aerial mapping at a scale of 1" = 200' to 1" = 2000' will be used as the basis for plotting various data necessary to conduct detailed analyses. The CONSULTANT will recommend mapping scales for approval by CFX.

### **8.2 Traffic Data**

The GEC and/or T&E consultant will provide existing traffic data for the expressway system in the Study area. The CONSULTANT shall collect any additional data for the study corridor and surrounding roadway network as needed, but is not expected to conduct machine or other forms of manual field counts.

### **8.3 Transportation Plans**

The CONSULTANT shall collect and summarize at a minimum:

- METROPLAN ORLANDO Long Range Transportation Plan
- Polk TPO Long Range Transportation Plan
- Orange County Comprehensive Plan
- Osceola County Comprehensive Plan
- Polk County Comprehensive Plan
- LYNX System Plans
- Non-motorized modes, including bikeways and pedestrian walkways
- Other applicable transportation plans

### **8.4 Land Use and Development Plans**

The CONSULTANT shall collect all adopted land use plans within and adjacent to the Study corridor. Additionally, the CONSULTANT will, at a minimum, communicate with staff at Orange County, Osceola County, Polk County (and the appropriate city staffs), East Central Florida Regional Planning Council and corridor stakeholders to collect information on planned developments that may influence the analysis and outcome of this Study.

### **8.5 Physical / Natural Environmental Information**

The CONSULTANT will collect information on the existing physical and natural environment from published resources. Information to be collected will include, but is not limited to the following:

- Roadways
- Socioeconomic Characteristics (schools, churches, community centers, etc.)

- Utilities
- Archaeological and Historical Resources
- Recreational
- Wildlife and habitat
- Farmlands
- Major wetland features,
- Surface water bodies,
- Outstanding Florida Waters, Wild and Scenic Rivers and Aquatic preserves, if any,
- Floodplains
- Contamination
- Conservation areas
- Other unique natural features that may influence the analysis and outcome of this Study

#### **8.6 Interagency and Stakeholder Coordination**

The CONSULTANT will be required to initiate and maintain coordination with the local governments, FDOT and corridor stakeholders to ensure the Study Team has a firm understanding of the approved and proposed development plans including transportation facilities, land uses, magnitude and timing.

#### **8.7 Study Area Base Maps**

The CONSULTANT will prepare base maps for the Study corridor that will be used throughout the Study for public involvement presentations, corridor maps, and alternative plans. All major environmental features should be identified and plotted as well as all current and projected lands uses and development plans collected throughout the coordination process. The CONSULTANT should clearly identify any Study area constraints or fatal flaws. Likewise, the CONSULTANT should identify any opportunities that could have substantive influence on potential alternative mobility programs.

#### **8.8 Confirm Corridor Limits**

Upon completion of the data collection efforts and identification of unique corridor characteristics, the CONSULTANT will reaffirm the corridor limits.

#### **8.9 Data Collection Summary Technical Memorandum (Deliverable)**

The CONSULTANT will summarize the data collection effort in the Existing Conditions Technical Memorandum (Tech Memo). The Tech Memo will document all of the data collection efforts and will include identification of unique corridor features that will materially influence the development and evaluation of alternative mobility programs. Any “fatal flaws” should be clearly identified in this document. The contents of the Tech Memo will be incorporated in the final Study document.

#### **9.0 Establish Purpose and Need**

The Purpose and Need Statement will provide the basis for evaluating the effectiveness of each mobility alternative in meeting the corridor’s transportation needs and shall be developed to meet the requirements of a potential future PD&E study.

The CONSULTANT will evaluate current and future year population, population densities, major

employment centers and densities, traffic and truck forecasts, weekend and recreational traffic and other characteristics of the Study corridor. The evaluation will include a discussion of demographic shifts and emerging population, employment and housing trends. Development and land use patterns will be evaluated to identify major trip generators and/or communities that are currently, or will be in the future, in need of regional mobility improvements.

Under this task the CONSULTANT will identify the corridor mobility needs and document issues sufficiently to guide the development and refinement of mobility alternatives. The CONSULTANT will prepare a formal Purpose and Need statement for review, comment and approval by CFX and the GEC.

## **10.0 Mobility Program Alternatives**

In this portion of the Study, the CONSULTANT will develop and evaluate alternative mobility programs that could satisfy the Study's Purpose and Need. The alternative mobility programs could include one or more of the following transportation elements:

- Limited Access Talled Expressways
- Buses, fixed guideways, bus rapid transit systems, other mass transit technologies
- Intermodal facilities, including park and ride lots

### **10.1 No-Build Alternative**

The CONSULTANT will develop and evaluate a No-Build scenario. This scenario will be based on the assumption that CFX does not implement a mobility program within the corridor above and beyond what the local governments and private entities have in their plans. The evaluation results should definitively relate to the Purpose and Need statement.

### **10.2 Develop Alternative Mobility Programs**

The CONSULTANT will develop up to three (3) alternative mobility programs, consisting of one or more of the listed mobility elements. The level of detail expected for each mobility element proposed is provided below.

- **Limited Access Talled Expressway (Expressway)** - The CONSULTANT will develop conceptual alignments in accordance with the design criteria provided in Section 12.0 of the Scope. At a minimum, the CONSULTANT will identify logical termini, prepare typical sections, identify potential bridge and interchange locations (including potential feeder road connections), delineate potential right of way requirements, and estimate potential impacts to critical corridor features. Enough detail will be required to enable the preparation of a reasonable cost estimate and impact evaluation, which the CONSULTANT will also provide.
- **Mass Transit Technology** – The CONSULTANT will identify a single or a range of potential mass transit technologies that could reasonably serve the projected mobility need. For each identified technology the CONSULTANT will provide a conceptual alignment and logical termini; and an overview of the operating parameters (headways, service times, etc.), station locations, capital costs and annual operation and maintenance costs.
- **Intermodal Facilities** – The CONSULTANT will identify potential locations for any proposed intermodal facilities. Approximate size and property requirements must also be estimated. Additionally, a description of the potential transportation modes and

their interaction at the facilities will be required.

The CONSULTANT will plot each mobility program alternative on the base map to clearly reflect the limits and scope of the alternative.

The CONSULTANT will provide a conceptual implementation schedule for each mobility program alternative that is based on the anticipated development schedule and mobility needs of the corridor. Phased implementation of the overall Mobility Program is acceptable, however, the schedule must clearly indicate the phasing and the triggers for each phase.

The CONSULTANT will present the three alternative mobility programs to CFX and the GEC for review, comment, refinement and approval.

### **10.3 Evaluate and Refine Mobility Programs**

The CONSULTANT will evaluate the unique elements, benefits and impacts of each mobility alternative and summarize in a matrix. The primary evaluation efforts are described below:

- The CONSULTANT will coordinate with the T&E consultant to develop conceptual traffic and revenue forecasts for each mobility program alternative to determine how effective each is at satisfying the Purpose and Need and estimate its financial viability.
- The CONSULTANT will prepare conceptual costs for each alternative. The costs will address initial capital costs such as design, right of way acquisition and construction, as well as vehicle / technology procurement for each alternative that includes a multimodal element. Costs for annual operations and maintenance of each alternative will also be estimated.
- The CONSULTANT will estimate impacts to the physical and natural environment. This analysis should address not only potential impacts resulting from the proposed alternatives, but also include a discussion of the steps needed to accomplish the environmental approval and possible mitigation.

Upon completion of the evaluation of the alternative mobility programs, the CONSULTANT will present the evaluation results to CFX, the GEC and the T&E consultant for review, comment and refinement.

### **10.4 Financial Viability Analysis**

Using the potential mobility program project costs, the CONSULTANT will support the project Viability assessment performed by the T&E consultant in accordance with the Interlocal Agreement.

### **10.5 Concept, Feasibility and Mobility Study Report (Deliverable)**

The CONSULTANT will document the alternative mobility program development and evaluation effort in the ***Concept, Feasibility and Mobility Study Report (Report)***. In general, the CONSULTANT will provide documentation for all of the major work efforts of the Study, including but not limited to the following:

- Data Collection / Existing Conditions (As documented in the Technical Memorandum)
- Corridor Confirmation (As documented in the Technical Memorandum)
- Purpose and Need (As previously approved)
- Alternative Mobility Program Development
- Alternatives Mobility Program Evaluation

- Viability Evaluation
- Conclusions and Recommendations

The GEC will provide a DRAFT outline to the CONSULTANT prior to initiating the documentation process to help ensure the Report adequately addresses all pertinent aspects of the Study.

### **11.0 Deliverables**

The CONSULTANT will provide the following documents / deliverables.

- Corridor Base Maps
- Public Involvement Plan
- PD&E Evaluation Technical Memorandum (Tech Memo) – Draft and Final
- Existing Conditions Technical Memorandum (Tech Memo) – Draft and Final
- Purpose and Need Statement – Draft and Final
- Concept, Feasibility and Mobility Study Report (Report) – Draft and Final
- Public Meeting / Workshop Summary – Draft and Final

Five (5) professionally bound copies and a pdf of each draft / final submittal will be required for all deliverables except the Final ***Concept, Feasibility and Mobility Study Report***, of which 20 professionally bound copies and a pdf will be required.

### **12.0 Design Criteria**

See table depicting Design Criteria below:

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

Design Element	Design Standard	Source
<u>Design Year</u>	2045	- Scope of Services
<u>Design Vehicle</u>	WB-62FL/WB-67	- AASHTO 2004, Pg. 18 - FDOT PPM Vol. I, p 1-19
<u>Design Speed</u> Rural Freeway Urban Freeway Urban Arterial Rural Arterial Other Frontage Road Service Road Access Road Ramp Directional Loop	70 mph 60 mph 45 mph <sup>1</sup> 55 mph  45 mph 50 mph As appropriate  50 mph 30 mph	- FDOT PPM Vol. I, Tbl. 1.9.1, 1.9.2
<u>Lane Widths</u> Freeway Ramp 1-lane 2-lane Turning Roadway Arterial Collector/Service Road Bicycle Rural/Urban	12-ft  15-ft 24-ft Case dependent 12-ft 12-ft  5-ft/4-ft (designated or undesignated)	- FDOT PPM Vol. I, Tbl. 2.1.1, 2.1.2, 2.1.3 & 2.14.1





Design Element	Design Standard		Source
<u>Roadside Slopes</u> Front slope  Front slope (curb & gutter)  Back slope  Back slope (curb & gutter)	Fill Height (ft)	Rate	- FDOT PPM Vol. I, Tbl. 2.4.1     - (CFX Policy) <sub>3</sub> Use 1:3 slopes, avoid 1:2 slopes except where as necessary
	0.0-5	1:6	
	5-10	1:6 to CZ & 1:4	
	10-20	1:6 to CZ & 1:3	
	> 20	1:2 with guardrail (Use 10-ft bench at half the height of fill)	
	All	1:2 not flatter than 1:6	
	All	1:4 or 1:3 w/ standard width trap, ditch & 1:6 front slope	
		1:2 not flatter than 1:6	
<u>Max. Grade / Max. Change in Grade</u> Freeway (Rural / Urban) Ramp Directional Loop Arterial Rural Urban Collector Frontage Road/Service Road  Min. Grade Curb & Gutter	Max. Grade		- FDOT PPM Vol. I, Tbl. 2.6.1, 2.6.2          - FDOT PPM Vol. I, Tbl. 2.6.4
	•		
	3.0%	0.20% / 0.40%	
	5.0%	0.60%	
	7.0%	1.00%	
	3.5%	0.50%	
	6.0%	0.70%	
	6.5% to 9.0%	-	
	8.0%	0.70%	
	0.3%	-	
<u>Minimum Stopping Sight Distance</u> (Grades 2.0%)	Dsgn. Speed (mph)	Distance (ft)	- FDOT PPM Vol. I, Tbl. 2.7.1
	70	730	
	60	570	
	55	495	
	50	425	
	45	360	
	30	200	
<u>Decision Sight Distance</u> (Per avoidance maneuver)	Dsgn. Speed (mph)	Distance (ft)	- AASHTO Exh. 3-3
	70	780-1445	
	60	610-1280	
	55	535-1135	
	50	465-1030	
	45	395-930	
	30	220-620	
<u>Horizontal Curve Length</u> Freeway Others  <u>Max. Curvature (Degree of Curve)</u> Freeway DS = 70 mph Rural DS = 60 mph Urban Arterial DS = 55 mph Rural DS = 45 mph Urban Collector DS = 45 mph Frontage Road DS = 50 mph Service Road Ramp DS = 50 mph Directional DS = 30 mph Loop	V = Design Speed 30V (15V min.) 15V (400-ft min.)		- FDOT PPM Vol. I, Tbl. 2.8.2a       - FDOT PPM Vol. I, Tbl. 2.8.3
	3 30' 00"		
	5 15' 00"		
	6 30' 00"		
	8 15' 00"		
	8 15' 00"		
	8 15' 00"		
	8 15' 00"		
	24 45' 00"		

Design Element	Design Standard			Source
<u>Superelevation Transition</u> Tangent Curve Spirals	80% (50% min.) 20% (50% min.) (Curves < 1°30' 00" do not use spirals) <sub>4</sub>			- FDOT PPM Vol. I, Sect. 2.9  - (CFX Policy) <sub>3</sub>
<u>Superelevation Rates</u> Freeway DS = 70 mph Rural DS = 60 mph Urban Arterial DS = 55 mph Rural DS = 45 mph Urban Collector DS = 45 mph Frontage Road DS = 50 mph Service Road Ramp DS = 50 mph Directional DS = 30 mph Loop	$e_{max}$	SE Trans. Rate		- FDOT PPM Vol. I, Tbl. 2.9.1, 2.9.2, 2.9.3, 2.9.4 - Design Standards Ind. No. 510,511 - AASHTO Exh. 3-28
	0.10 0.10  0.10 0.05  0.05 0.10  0.10 0.10	1:200 <sub>5</sub> 1:225  1:225 1:150  1:150 1:200  1:200 1:150		
<u>Vertical Curves</u> Length , L = KA	Dsgn. Speed (mph)	K-value CrestSag		- FDOT PPM Vol. I, Tbl. 2.8.5, 2.8.6 - AASHTO Exh. 3-72 (crest), 3-75 (sag)  - CFX Policy <sub>3</sub> Note: FDOT K-values for "ALL OTHER FACILITIES" are desirable
	70 60 55 50 45 30	401 245 185 136 98 31	181 136 115 96 79 37	
<u>Minimum Lengths</u> Freeway DS = 70 mph Rural DS = 60 mph Urban Arterial DS = 55 mph Rural DS = 45 mph Urban Collector DS = 45 mph Frontage Road DS = 50 mph Service Road Ramp DS = 50 mph Directional DS = 30 mph Loop	Crest	Sag		
	500-ft 400-ft  350-ft 135-ft  135-ft 300-ft  300-ft 90-ft	400-ft 300-ft  250-ft 135-ft  135-ft 200-ft  200-ft 90-ft		
<u>Ramps</u> Ramp Terminals Length Taper	<u>Entrance</u> "Parallel-Type" 900 to 1200-ft 300-ft (25:1)	<u>Exit</u> "Taper-Type" 550-ft (2°to 5°, 3°desirable)		- Design Standards Ind. No. 525 - AASHTO Pg. 850-856
Minimum Spacing Entrance to Exit <sup>6</sup> Exit to Entrance to Entrance Exit to Exit Turning Roadways	1,600 to 2,000-ft 500-ft 1,000-ft 1,000-ft 600 to 800-ft			- AASHTO Exh. 10-68, Pg. 844

Design Element	Design Standard	Source
<u>Lane Drop Taper</u>	$L = WS$ (DS = 45 mph) $L = WS^2/60$ (DS $\leq$ 40 mph) 50:1 min, 70:1 desirable (freeways)	- Design Standards Ind. No. 525,526 - AASHTO Pg. 818
<u>Clear Zone</u> Freeway DS = 70 mph Rural DS = 60 mph Urban Arterial DS = 55 mph Rural DS = 45 mph Urban Collector DS = 45 mph Frontage Road DS = 50 mph Service Road Ramp DS = 50 mph Directional 1 to 2-lane DS = 30 mph Loop 1 to 2-lane	36-ft 30-ft 4-ft (Curb & Gutter) As appropriate 4-ft (Curb & Gutter) 24-ft 14-ft to 24-ft 10-ft to 18-ft	- FDOT PPM Vol. I, Tbl. 2.11.11
<u>Vertical Clearance</u> Over Roadway Over Railroad Sign over Roadway Over Water	16'-6" 23'-6" 17'-6" 12'-0" min.	- FDOT PPM Vol. I, Tbl. 2.10.1 to 2.10.4, Sect. 2.10.1
<u>Limited Access Limits</u> Rural Urban Crossroad overpass/no interchange	300-ft min. 100-ft min 200-ft	- FDOT PPM Vol. I, Sect. 2.14.1

### Ramp Operations

- Two thousand (2,000) ft. between entrance and exit terminals - full freeways
- Six hundred (600) ft. between exit and entrance terminals
- Entrance Ramp Taper of 900 ft. (1° - convergence)
- Exit Ramp Taper of 550 ft. (3° - divergence)

### Right-of-way

- Ten (10) ft. from back of walls or limit of construction.
- Two (2) ft. from back of sidewalk on frontage roads.
- Drainage and construction easements as required.
- Ninety-four (94) ft. from ramp or mainline traveled way desirable for limited access ROW.
- Limited access right-of-way limits per Index 450.

## **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 CFX 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 \$1,141,000.00.

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 CFX to utilize as necessary.

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

**CH2M HILL, INC.**

Total Activity Salary Costs	<u>\$349,907.17</u>
(a) Overhead Additives	
(1) Combined ( <u>101.77%</u> )	<u>356,100.53</u>
Subtotal (Salary + Overhead)	<u>706,007.70</u>
(b) Lump Sum for Operating Margin ( <u>12.00%</u> )	<u>84,720.92</u>
Subtotal (Salary Related)	<u>790,728.62</u>
(c) Direct Expenses - Lump Sum (Prime)	<u>14,928.45</u>
BASIC FEE	<u>805,657.07</u>
(d) Subcontracts (Limiting Amount)	<u>230,814.26</u>
(e) Allowance	<u>104,528.67</u>
<b>TOTAL MAXIMUM LIMITING AMOUNT</b>	<b><u>\$1,141,000.00</u></b>

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:

CFX 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 CFX's Project Manager.

3.11 Indirect Charges: Administrative overhead and payroll burden costs not to exceed a combined maximum rate of 101.77% 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:

Unless increased, no more than the Total Maximum Limiting Amount provided for in Section 2.00 shall be paid by CFX to the CONSULTANT as follows, subject to the provisions of Section 3.00 above:

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 CFX. 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 101.77 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 101.77%; 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 CFX 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.

CFX 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 CFX.

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 CFX. 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 CFX.

4.18 CFX 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 CFX. 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 CFX 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 CFX because of accounting errors or charges not in conformity with this Agreement, the CONSULTANT agrees that such disallowed amounts are due to CFX upon demand. Further, CFX shall have the right to deduct from any payment due the CONSULTANT under any other contract between CFX and the CONSULTANT an amount sufficient to satisfy any amount due and owing CFX 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 CFX for the overpayment, provided the net difference is not zero.

## **EXHIBIT C**

### **DETAILS OF COST AND FEES**

**Concept, Feasibility and Mobility Study for the  
Osceola Parkway Extension**

**Effective dates for Additional Personnel forms**

**Contract # 001248**

Consultant (Class I only)	Effective Date
CH2M Hill, Inc.	1/20/2017
BCC Engineering, Inc.	1/18/2017
Bowman & Blair Ecology & Design, Inc.	1/14/2017
Infrastructure Engineers, Inc.	1/13/2017
KB Environmental Sciences, Inc.	2/1/2017
Southeastern Archaeological Research, Inc.	1/20/2017

# Concept, Feasibility and Mobility Study for the Osceola Parkway Extension

Contract Multiplier Worksheet

Contract # 001248

Consultant Name	Audited Overhead	Fixed Fee	Multiplier
CH2M Hill, Inc.	101.77%	12.0000%	2.26
BCC Engineering, Inc.	160.41%	12.0000%	2.92
Bowman & Blair Ecology & Design, Inc.	124.00%	12.0000%	2.51
Infrastructure Engineers, Inc.	172.22%	11.7903%	3.04
KB Environmental Sciences, Inc.	94.93%	12.0000%	2.18
Media Relations Group, LLC	154.73%	12.0000%	2.85
Southeastern Archaeological Research, Inc.	116.05%	12.0000%	2.42
Tierra, Inc.	165.47%	12.0000%	2.97

**CH2M Hill, Inc.  
Osceola Parkway Extension  
Contract # 001248**

<b>Class I</b>	<b>Max Salary (based on category high)</b>
<b>Engineer 8</b>	<b>\$114.06</b>
<b>Engineer 7</b>	<b>\$99.85</b>
<b>Engineer 6</b>	<b>\$70.99</b>
<b>Engineer 5</b>	<b>\$63.96</b>
<b>Engineer 4</b>	<b>\$55.26</b>
<b>Engineer 3</b>	<b>\$42.10</b>
<b>Engineer 1</b>	<b>\$29.94</b>
<b>Engineer 0</b>	<b>\$23.30</b>
<b>Technician 5</b>	<b>\$38.17</b>
<b>Technician 3</b>	<b>\$30.78</b>
<b>Office</b>	<b>\$28.99</b>

**BCC Engineering, Inc.  
Osceola Parkway Extension  
Contract # 001248**

<b>Class I</b>	<b>Max Salary (based on category high)</b>
<b>Senior Specialist/QAQC</b>	<b>\$100.00</b>
<b>Project Manager</b>	<b>\$64.76</b>
<b>Senior Engineer</b>	<b>\$81.73</b>
<b>Planner</b>	<b>\$37.54</b>

**Bowman & Blair Ecology & Design, Inc.**  
**Osceola Parkway Extension**  
**Contract # 001248**

<b>Class I</b>	<b>Max Salary (based on category high)</b>
<b>Project Manager</b>	<b>\$29.15</b>
<b>Project Scientist</b>	<b>\$29.15</b>
<b>GIS/CAD</b>	<b>\$22.29</b>

**Infrastructure Engineers, Inc.  
Osceola Parkway Extension  
Contract # 001248**

<b>Class I</b>	<b>Max Salary (based on category high)</b>
<b>Senior Engineer</b>	<b>\$86.02</b>
<b>Engineer Intern</b>	<b>\$32.18</b>
<b>Senior Designer</b>	<b>\$45.31</b>



**KB Environmental Sciences, Inc.**  
**Osceola Parkway Extension**  
**Contract # 001248**

<b>Class I</b>	<b>Max Salary (based on category high)</b>
<b>Chief Scientist</b>	<b>\$71.56</b>
<b>Scientist</b>	<b>\$33.38</b>
<b>Environmental Specialist</b>	<b>\$22.95</b>
<b>Engineering Technician</b>	<b>\$22.28</b>
<b>Technician Aide</b>	<b>\$16.00</b>

**Media Relations Group, LLC  
Osceola Parkway Extension  
Contract # 001248**

<b>Class II</b>	<b>Unit Prices</b>
<b>Public Involvement Manager</b>	<b>\$274.03</b>
<b>Public Information Officer</b>	<b>\$85.50</b>
<b>Designer</b>	<b>\$87.21</b>

**Southeastern Archaeological Research, Inc.**  
**Osceola Parkway Extension**  
**Contract # 001248**

<b>Class I</b>	<b>Max Salary (based on category high)</b>
<b>Project Manager</b>	\$130.49
<b>Chief Archaeologist</b>	\$50.27
<b>Senior Specialist</b>	\$45.22
<b>Specialist</b>	\$27.73
<b>Senior Archaeologist</b>	\$33.15
<b>Archaeologist</b>	\$23.64
<b>GIS Specialist</b>	\$24.69
<b>Secretary/Clerical</b>	\$26.00

**Tierra, Inc.**  
**Osceola Parkway Extension**  
**Contract # 001248**

<b>Class II</b>	<b>Unit Prices</b>
<b>Project Manager</b>	\$198.25
<b>Senior Engineer</b>	\$193.88
<b>Chief Scientist</b>	\$154.62
<b>Senior Project Engineer</b>	\$168.22
<b>Geotechnical Engineer</b>	\$150.67
<b>Engineering Intern</b>	\$97.12
<b>Senior Scientist</b>	\$122.04
<b>Sr Engineering Technician</b>	\$86.13
<b>Geotechnical Technician</b>	\$69.74
<b>Designer-Computer Technician</b>	\$96.67
<b>Secretary/Clerical</b>	\$74.25

Item Description	Unit	Unit Price	Quantity	Total
<b>Geotechnical Field Investigation</b>				
612-Geo Mobilization Drill Rig Truck Mount	Each	\$ 350.00		\$ -
614-Geo Mobilization Mudbug/All Terrain Vehicle	Each	\$ 700.00		\$ -
610-Geo Mobilization Drill Rig Track Mount	Each	\$ 3,250.00		\$ -
418-Geo Drill Crew Support Vehicle	Day	\$ 160.00		\$ -
609-Geo Mobilization Drill Rig Barge Mount	Each	\$ 7,500.00		\$ -
405-Geo Barge (Owned)	Day	\$ 2,500.00		\$ -
618-Geo Mobilization Support Boat	Each	\$ 500.00		\$ -
618.1-Geo Support Safety Boat	Day	\$ 500.00		\$ -
619-Geo Mobilization Tri-Pod	Each	\$ 1,250.00		\$ -
419-Geo Drilling Crew 2-Person	Hour	\$ 135.00		\$ -
420-Geo Drilling Crew 3-Person	Hour	\$ 185.00		\$ -
Geo SPT Truck 0-50 Ft	LF	\$ 12.90		\$ -
Geo SPT Truck 50-100 Ft	LF	\$ 17.00		\$ -
Geo SPT Truck 100-150 Ft	LF	\$ 31.00		\$ -
Geo SPT Truck 150-200 Ft	LF	\$ 39.00		\$ -
478-Geo SPT Truck-Mud Bug 0-50 Ft	LF	\$ 15.20		\$ -
479-Geo SPT Truck-Mud Bug 50-100 Ft	LF	\$ 18.10		\$ -
480-Geo SPT Truck-Mud Bug 100-150 Ft	LF	\$ 32.00		\$ -
481-Geo SPT Truck-Mud Bug 150-200 Ft	LF	\$ 42.00		\$ -
473-Geo SPT Barge/Track/Amphibious 000-050 Ft	LF	\$ 21.50		\$ -
474-Geo SPT Barge/Track/Amphibious 050-100 Ft	LF	\$ 28.90		\$ -
475-Geo SPT Barge/Track/Amphibious 100-150 Ft	LF	\$ 53.00		\$ -
476-Geo SPT Barge/Track/Amphibious 150-200 Ft	LF	\$ 70.00		\$ -
Geo Grout Boreholes- Truck 0-050 Ft	LF	\$ 5.25		\$ -
Geo Grout Boreholes- Truck 50-100 Ft	LF	\$ 7.00		\$ -
Geo Grout Boreholes- Truck 100-150 Ft	LF	\$ 10.25		\$ -
Geo Grout Boreholes- Truck 150-200 Ft	LF	\$ 14.00		\$ -
440-Geo Grout Boreholes- Truck/Mud Bug 000-050 Ft	LF	\$ 6.25		\$ -
441-Geo Grout Boreholes- Truck/Mud Bug 050-100 Ft	LF	\$ 8.00		\$ -
442-Geo Grout Boreholes- Truck/Mud Bug 100-150 Ft	LF	\$ 13.10		\$ -
443-Geo Grout Boreholes- Truck/Mud Bug 150-200 Ft	LF	\$ 18.00		\$ -
435-Geo Grout Boreholes- Barge/Track/Amphibious 000-050 Ft	LF	\$ 8.50		\$ -
436-Geo Grout Boreholes- Barge/Track/Amphibious 050-100 Ft	LF	\$ 11.25		\$ -
437-Geo Grout Boreholes- Barge/Track/Amphibious 100-150 Ft	LF	\$ 17.25		\$ -
438-Geo Grout Boreholes- Barge/Track/Amphibious 150-200 Ft	LF	\$ 25.00		\$ -
Geo Temp Casing 3" Truck 0-050 Ft	LF	\$ 8.50		\$ -
Geo Temp Casing 3" Truck 50-100 Ft	LF	\$ 10.25		\$ -
Geo Temp Casing 3" Truck 100-150 Ft	LF	\$ 12.25		\$ -
Geo Temp Casing 3" Truck 150-200 Ft	LF	\$ 15.00		\$ -

Item Description	Unit	Unit Price	Quantity	Total
488-Geo Temp Casing 3" Truck/Mud Bug 000-050 Ft	LF	\$ 10.30		\$ -
489-Geo Temp Casing 3" Truck/Mud Bug 050-100 Ft	LF	\$ 14.00		\$ -
490-Geo Temp Casing 3" Truck/Mud Bug 100-150 Ft	LF	\$ 17.50		\$ -
491-Geo Temp Casing 3" Truck/Mud Bug 150-200 Ft	LF	\$ 22.00		\$ -
483-Geo Temp Casing 3" Barge/Track/Amphibious 0-050 Ft	LF	\$ 14.50		\$ -
484-Geo Temp Casing 3" Barge/Track/Amphibious 50-100 Ft	LF	\$ 17.50		\$ -
485-Geo Temp Casing 3" Barge/Track/Amphibious 100-150 Ft	LF	\$ 20.00		\$ -
486-Geo Temp Casing 3" Barge/Track/Amphibious 150-200 Ft	LF	\$ 25.00		\$ -
463-Geo Rock Coring Truck/Mud Bug 000-050 Ft less than 4" ID	LF	\$ 45.00		\$ -
465-Geo Rock Coring Truck/Mud Bug 050-100 Ft less than 4" ID	LF	\$ 52.00		\$ -
467-Geo Rock Coring Truck/Mud Bug 100-150 Ft less than 4" ID	LF	\$ 60.00		\$ -
453-Geo Rock Coring Barge/Track/Amphibious 000-050 Ft less than 4" ID	LF	\$ 48.00		\$ -
455-Geo Rock Coring Barge/Track/Amphibious 050-100 Ft less than 4" ID	LF	\$ 64.00		\$ -
457-Geo Rock Coring Barge/Track/Amphibious 100-150 Ft less than 4" ID	LF	\$ 80.00		\$ -
459-Geo Rock Coring Barge/Track/Amphibious 150-200 Ft less than 4" ID	LF	\$ 94.00		\$ -
427-Geo Extra SPT Samples-Truck/Mud Bug 000-050 Ft	Each	\$ 71.00		\$ -
428-Geo Extra SPT Samples-Truck/Mud Bug 050-100 Ft	Each	\$ 71.00		\$ -
429-Geo Extra SPT Samples-Truck/Mud Bug 100-150 Ft	Each	\$ 85.00		\$ -
430-Geo Extra SPT Samples-Truck/Mud Bug 150-200 Ft	Each	\$ 85.00		\$ -
422-Geo Extra SPT Samples-Barge/Track/Amphibious 000-050 Ft	Each	\$ 71.00		\$ -
423-Geo Extra SPT Samples-Barge/Track/Amphibious 050-100 Ft	Each	\$ 71.00		\$ -
424-Geo Extra SPT Samples-Barge/Track/Amphibious 100-150 Ft	Each	\$ 85.00		\$ -
425-Geo Extra SPT Samples-Barge/Track/Amphibious 150-200 Ft	Each	\$ 85.00		\$ -
519-Geo Undisturbed Samples Truck/Mud Bug 000-050 Ft	Each	\$ 200.00		\$ -
520-Geo Undisturbed Samples Truck/Mud Bug 050-100 Ft	Each	\$ 200.00		\$ -
521-Geo Undisturbed Samples Truck/Mud Bug 100-150 Ft	Each	\$ 200.00		\$ -
522-Geo Undisturbed Samples Truck/Mud Bug 150-200 Ft	Each	\$ 200.00		\$ -
515-Geo Undisturbed Samples Barge/Track/Amphibious 000-050 Ft	Each	\$ 200.00		\$ -
516-Geo Undisturbed Samples Barge/Track/Amphibious 050-100 Ft	Each	\$ 200.00		\$ -
517-Geo Undisturbed Samples Barge/Track/Amphibious 100-150 Ft	Each	\$ 200.00		\$ -
518-Geo Undisturbed Samples Barge/Track/Amphibious 150-200 Ft	Each	\$ 200.00		\$ -
401-Geo Auger Borings- Hand & Truck/Mud Bug	LF	\$ 10.50		\$ -
402-Geo Auger Borings- Track	LF	\$ 12.00		\$ -
432-Geo Field Permeability 0-10 Ft (Open - End Borehole Method)	Each	\$ 290.00		\$ -
Flagman and Barricades 2-Man Crew Own Equipment	Day	\$ 1,080.00		\$ -
Muck Probing Unsuitable Soils 2-Man Crew	Day	\$ 1,080.00		\$ -
450-Geo Piezometer 2" 000-050 Ft	LF	\$ 44.00		\$ -
445-Geo Grouted Monitor Well 2" 000-050 Ft	LF	\$ 6.25		\$ -
Drilling Permit Costs IE DEP	Each	\$ 250.00		\$ -
403-Geo Backhoe (Owned)	Day	\$ 600.00		\$ -
416-Geo Dozer (Owned)	Day	\$ 800.00		\$ -
Site Clearing to Access Boring or Test Locations	Hour	\$ 210.00		\$ -
407-Geo Chainsaw (Owned)	Day	\$ 28.00		\$ -



Item Description	Unit	Unit Price	Quantity	Total
415-Geo Double Ring Infiltration (ASTM D3385)	Each	\$ 525.00		\$ -
434-Geo Ground Penetrating Radar (GPR)	Day	\$ 2,800.00		\$ -
<b>Asphalt and Concrete Pavement Coring</b>				
209-Asphalt Pavement Coring – 4" dia with Base Depth Check	Each	\$ 125.00		\$ -
210-Asphalt Pavement Coring – 4" dia without Base Depth Check	Each	\$ 110.00		\$ -
211-Asphalt Pavement Coring – 6" dia with Base Depth Check	Each	\$ 125.00		\$ -
212-Asphalt Pavement Coring – 6" dia without Base Depth Check	Each	\$ 110.00		\$ -
305-Concrete Pavement Coring - 4" Dia	Each	\$ 110.00		\$ -
306-Concrete Pavement Coring - 6" Dia	Each	\$ 110.00		\$ -
603-Mobilization Asphalt Coring equipment	Each	\$ 250.00		\$ -
606-Mobilization Concrete Coring	Each	\$ 250.00		\$ -
<b>Geotechnical Soil Laboratory Testing</b>				
812-Soils Materials Finer than 200 Sieve (FM 1-T011)	Test	\$ 42.00		\$ -
817-Soils Moisture Content Laboratory (AASHTO T 265)	Test	\$ 10.00		\$ -
821-Soils Particle Size Analysis (AASHTO T 88) (Including Hydrometer)	Test	\$ 131.00		\$ -
822-Soils Particle Size Analysis (AASHTO T 88) (No Hydrometer)	Test	\$ 67.00		\$ -
805-Soils Corrosion Series (FM 5-550 through 5-553)	Test	\$ 175.00		\$ -
825-Soils pH Soil or Water (FM 5-550)	Test	\$ 35.00		\$ -
829-Soils Resistivity Soil or Water (FM 5-551)	Test	\$ 46.00		\$ -
800-Soils Chloride Soil or Water (FM 5-552)	Test	\$ 46.00		\$ -
833-Soils Sulfate Soil or Water (FM 5-553)	Test	\$ 48.00		\$ -
819-Soils Organic Content Ignition (FM 1 T-267)	Test	\$ 42.00		\$ -
Atterberg Limit Tests (AASHTO T-89 and T-90) Combined	Test	\$ 130.00		\$ -
826-Soils Plastic Limit & Plasticity Index (AASHTO T 90)	Test	\$ 70.00		\$ -
811-Soils Liquid Limit (AASHTO T 89)	Test	\$ 60.00		\$ -
823-Soils Permeability Constant Head (AASHTO T 215)	Test	\$ 175.00		\$ -
824-Soils Permeability Falling Head (FM 5-513)	Test	\$ 175.00		\$ -
827-Soils Proctor Modified (FM 1-T 180)	Test	\$ 115.00		\$ -
828-Soils Proctor Standard (AASHTO T 99)	Test	\$ 111.00		\$ -
832-Soils Splitting Tensile Strength of Rock Cores (ASTM D3967)	Test	\$ 138.00		\$ -
838-Soils Unconfined Compression - Rock (ASTM D7012, Method C)	Test	\$ 138.00		\$ -
803-Soils Consolidation - Constant Strain (ASTM D4186)	Test	\$ 580.00		\$ -
804-Soils Consolidation - Extended Load Increments (AASHTO T216)	Each	\$ 50.00		\$ -
806-Soils Direct Shear Consolidated Drained/ Point AASHTO T 236	Test	\$ 250.00		\$ -
810-Soils Limerock Bearing Ratio (LBR)(FM 5-515)	Test	\$ 340.00		\$ -

Item Description	Unit	Unit Price	Quantity	Total
<b>Contamination Test Units</b>				
850-EDR Report	Each	\$ 500.00		\$ -
852-Organic Vapor Analyzer (OVA)	Day	\$ 150.00		\$ -
854-Handheld GPS	Per Day	\$ 80.34		\$ -
856-Field Sampling Kit (soil)	Each	\$ 75.00		\$ -
858-Field Sampling Survey Kit (water)	Each	\$ 75.00		\$ -
860-Power Auger Boring (includes decontamination to a depth of 25 feet)	Foot	\$ 11.90		\$ -
862-BTEX and MTBE (Method 8260)	Each	\$ 65.00		\$ -
864-Organochlorine Pesticides (Method 8081)	Each	\$ 100.00		\$ -
866-Organophosphorous Pesticides (Method 8141)	Each	\$ 125.00		\$ -
868-Chlorinated Herbicides (Method 8151)	Each	\$ 100.00		\$ -
870-Volatile Organics (Method 8260)	Each	\$ 95.00		\$ -
872-Volatile Organics BTEX/MTBE(Method 8260)	Each	\$ 60.00		\$ -
874-Semi-Volatiles (Method 8270)	Each	\$ 200.00		\$ -
876-Polyaromatic Hydrocarbons (Method 8270)	Each	\$ 100.00		\$ -
878-TPH Method FL-Pro	Each	\$ 65.00		\$ -
880-RCRA 8 Metals (Method 6010/7471)	Each	\$ 65.00		\$ -
882-RCRA Metals Individual (Method 6010/7471)	Each	\$ 9.00		\$ -
884-Mercury Individual (Method 6010/7471)	Each	\$ 25.00		\$ -
886-Ultr Low Trace Mercury GW Individual (Method 1631)	Each	\$ 75.00		\$ -
888-Arsenic (Method 6010/7471)	Each	\$ 9.00		\$ -
890-SPLP/TCLP Metals	Each	\$ 198.00		\$ -
892-Asbestos Samples	Each	\$ 15.00		\$ -
894-Polychlorinated Biphenals (8082)	Each	\$ 75.00		\$ -
<b>Engineering and Technical Support Services</b>				
Project Manager	Hour	\$ 198.25		\$ -
Senior Engineer	Hour	\$ 193.88		\$ -
Chief Scientist	Hour	\$ 154.62		\$ -
Senior Project Engineer	Hour	\$ 168.22		\$ -
Geotechnical Engineer	Hour	\$ 150.67		\$ -
Engineering Intern	Hour	\$ 97.12		\$ -
Senior Scientist	Hour	\$ 122.04		\$ -
Sr Engineering Technician	Hour	\$ 86.13		\$ -
Geotechnical Technician	Hour	\$ 69.74		\$ -
Designer - Computer Technician	Hour	\$ 96.67		\$ -
Secretary/Clerical	Hour	\$ 74.25		\$ -
<b>Total Estimated Fee</b>				\$ -



**PROJECT DEVELOPMENT & ENVIRONMENT  
PROJECT DATA**

Name of Consultant:

CH2M HILL (Prime)

Project Name: OSCEOLA PARKWAY EXTENSION CONCEPT, FEASIBILITY & MOBILITY STUDIES

CFX Contract Number: 001248

		Project Staff Hours													
Activity No.	Activity	CH2M HILL (Prime)	BCC	B&B	IE	KBE	MRG	SEARCH	TIERRA	Sub 8	Sub 9	Sub 10	Sub 11	Sub 12	Total Hours
1	Public Involvement	1004		9			368								1381
2	Engineering Analysis & Report	4689	588		196				24						5497
3	Environmental Analysis & Reports	109		330		0		92	161						692
4	Miscellaneous	572	8	4											584
Project Total		6,374	596	343	196	0	368	92	185	0	0	0	0	0	8,154

Notes: 1. Staff hours for consultant come directly from each discipline's worksheet.

2. Staff hours for subconsultants are to be entered manually into columns D through O.

3. For workbooks prepared by subconsultants, their project hours will be totaled in column C.

PUBLIC INVOLVEMENT

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: OSCEOLA PARKWAY EXTENSION CONCEPT, FEASIBILITY & MOBILITY STUDIES  
 County: Orange and Osceola  
 CFX Contract #: CONTRACT 001248  
 FAP No.: N/A  
 Consult Name: CHDM HILL (Prime)  
 Consult No. enter consultants proj. number  
 Date: 2/24/2017  
 Estimator: INSERT NAME

Staff Classification	Engineer 8	Engineer 7	Engineer 6	Engineer 5	Engineer 4	Engineer 3	Engineer 1	Engineer 0	Technician 5	Technician 3	Office	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
Public Involvement	1,004	100	50	201	100	100	703	201	0	50	31	0	1,004	\$59,347	\$59.11
Engineering Analysis & Report	4,689	469	234	469	469	703	703	0	469	469	235	0	4,689	\$254,607	\$54.30
Environmental Analysis & Reports	109	5	5	22	16	22	16	0	0	11	7	0	109	\$5,498	\$50.44
Miscellaneous	572	57	29	114	0	86	86	114	0	0	29	0	572	\$30,456	\$53.24
<b>Total Staff Hours</b>	6,374	631	318	866	585	911	805	315	469	530	322	0	6,374		
<b>Total Staff Cost</b>	\$77,679.80	\$57,465.17	\$22,186.86	\$51,293.84	\$30,273.75	\$17,733.62	\$23,997.05	\$7,292.25	\$17,901.73	\$15,084.80	\$8,098.30	\$0.00		<b>\$349,907.17</b>	<b>\$54.90</b>

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.

Survey Field Days by Subconsultant:  
 4 - Person Crew:

SALARY RELATED COSTS:  
 Overhead rate: 101.77%  
 Sub-Total  
 Profit Margin (LS): 12.00%  
 Salary Related Total  
 EXPENSES (LS):  
 PRIME TOTAL:  
 SUBCONSULTANTS:  
 Subconsultant: BCC DBE  
 Subconsultant: B&B DBE  
 Subconsultant: IE DBE  
 Subconsultant: KBE DBE  
 Subconsultant: MRG DBE  
 Subconsultant: SEARCH WBE  
 Subconsultant: TERRA MBE  
 SUBCONSULTANTS TOTAL:  
 GRAND TOTAL ESTIMATED FEE: \$1,036,471.33

# PROJECT DEVELOPMENT & ENVIRONMENT PROJECT DATA

Estimator: T.JONES

OSCEOLA PARKWAY EXTENSION CONCEPT, FEASIBILITY & MOBILITY STUDIES  
001248

Representing	Print Name					Signature / Date				

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	# of Units	Hours / Unit	MRG	B&B	CH2M	TEAM TOTAL	NEGO HOURS	Comments [Refer to Scope Task 7.0]
NOTE: * subject to QC										
1.1	Public Involvement Program *	LS	1	60	60		0	60	60	(Task 7.1) Draft and final PIP: 2 counties, numerous stakeholders, potential new corridor For response to any public inquiry see Task 1.9 and mailing list see Task 1.2. Assumes no LEP issues. Due 10 days following NTP.
1.2	Public Involvement Data Collection	LS	1	96	90		16	96	96	[Task 7.1 & 7.2] Data Collection * Identification of stakeholders and interested parties; developing and maintaining mailing lists (including emails) for property owners as well as elected/appointed officials and staff, local municipality and agency and other interested parties; EAG and PAG; Incorporate 2016 PD&E mailing lists; Prepare computer and hard copy for each mailing list and certify as correct. OS&OC County GIS database. Property Owner Database - 500ft from proposed ROW only. Duration 12 months. Initial Mailing list * 2 updates (before each newsletter) 16 hrs (1 + 2 update) = (16hrs x 3) * (4 hrs x 12 months) = 96hr
1.3	Notice of Intent (EIS only) *	LS	0	0	0		0	0		N/A
1.4	Advance Notification *	LS	0	0	0		0	0		N/A Not in Scope. Assumes no ETDM screening.
1.5	Scheduled Public Meetings									1 Public Meeting - Format Open House
Elected Officials/Agency Kickoff Letters										
Set Up/Scoping Package										
	Project Handouts *	LS	0	0	0		0	0		
	Exhibits *	LS	0	0	0		0	0		
	Site Selection *	LS	0	0	0		0	0		
	Notification Letters *	LS	1	16	16		0	16	16	Preparation and distribution of Kickoff letters. 1 letter prepared for CFX signature. Assume hard copy for elected officials and tribes; email if available for all other agencies and appointed officials
	Press Release/Meeting Announcements *	LS	0	0	0		0	0		
	Staff Briefing *	LS	0	0	0		0	0		
Participation and Notes										
	Participation	LS	0	0	0		0	0		
	Notes	LS	0	0	0		0	0		

**PROJECT DEVELOPMENT & ENVIRONMENT  
PROJECT DATA**

Task No.	Task	Units	# of Units	Hours / Unit	MRG	B&B	CH2M	TEAM TOTAL	NEGO HOURS	Comments [Refer to Scope Task 7.0]
	<b>Consider or Informational Meeting Advisory Groups</b>									2 Groups (EAG, PAG) x 3 mtgs each = 6 meetings [Task 7.5 Advisory Groups] Assumes same materials for EAG and PAG x 3 Kickoff, Prior to Public Meeting, Prior to Project Completion A facilitator will be present; agencies will control agenda; For other corridor studies - assumes separate PAG meetings, and combined EAG
	Set Up/Scoping Package									
	Project Handouts *	LS	3	6	0		24	24	24	Prep of handouts, comment forms, sign in sheets, etc.,
	Exhibits *	LS	3	20	0		60	60	60	PowerPoint presentation and no script, and displays
	Site Selection *	LS	0	0	0		0	0	0	* Field review of potential meeting sites [Task 7.1] To be performed by CFX PIO.
	Notification Letters *	LS	0	0	0		0	0	0	* Preparation and distribution of meeting announcements and notices, To be performed by CFX PIO.
	Press Release/Meeting Announcements *	LS	0	0	0		0	0	0	N/A
	Staff Briefing *	LS	0	0	0		0	0	0	Debrief meeting to go over documents, 1 mtg x 3 people x 3 hr + 3 hr (notes) Assume that its part of Progress meeting
	Participation and Notes									
	Participation	LS	6	17	0	9	93	102	102	5 people x 3 hr x 1 mtg = 15 + 2 hrs setup/breakdown = 17 hrs x 6 mtgs
	Notes	LS	6	4	0		24	24	24	Prepare notes
	<b>Alternatives Public Meeting</b>									1 meeting [Task 7.3] Open House with Scripted Presentation/Q&A
	Set Up/Scoping Package									
	Project Handouts *	LS	1	32	24		8	32	32	Prep of handouts, comment forms, sign in sheets, etc.,
	Exhibits *	LS	1	120	0		120	120	120	PowerPoint presentation and script, recorded for loop (see video below); followed by Q&A, and displays, 40H Boards, 40H PowerPoint, 40H script
	Site Selection *	LS	1	8	0		8	8	8	Coordination with Venue
	Notification Letters *	LS	1	40	32		8	40	40	Includes notification to the property owners, appointed & elected officials, newspaper ad and FAR
	Press Release/Meeting Announcements *	LS	1	8	4		4	8	8	Preparation and distribution of meeting announcements and notices,
	Staff Briefing *	LS	1	30	14		16	30	30	Sufficiency meeting to go over documents, 1 mtg x 3 people x 4 hr + 3 hr (notes)= 15 hrs., Debrief meeting to go over documents, 1 mtg x 3 people x 4 hr + 3 hr (notes)= 15 hrs.
	Participation and Notes									
	Participation	LS	1	117	18		58	117	117	8 people x 6 hr x 1 mtg = 48 hrs (incl travel) 5 people x 3 hrs setup/breakdown = 15 hrs 3 corridor meetings x 3 people x 6 hrs = 54 hrs
	Notes	LS	1	16	12		4	16	16	Public Meeting Summary – Draft and Final
	<b>1.5 Scheduled Public Meetings Total</b>									
					120	9	468	597	597	
	<b>1.6 Other (Unscheduled) Public and Agency Meetings</b>									
		LS	24	11	0		264	264	264	24 unscheduled mtgs [Task 7.7] 2 people x (2 hrs +2 hrs travel) + 3 hrs prep/notes = 11 hrs per mtg. Includes not limited to AAF, Developers, Large Land Owners (Tavislock, Deseret)

**PROJECT DEVELOPMENT & ENVIRONMENT  
PROJECT DATA**

Task No.	Task	Units	# of Units	Hours / Unit	MRG	B&B	CH2W	TEAM TOTAL	NEGO HOURS	Comments [Refer to Scope Task 7.0]
1.7	Public Hearing									N/A
1.8	Location and Design Concept Acceptance Notice/Notification of Approved Environmental Document from FHWA *	LS	0	0	0		0	0	0	N/A
1.9	Special Public Involvement Requirements									
	General Public Correspondence *	LS	1	112	72		40	112	112	Prepare draft responses to comments Prepare a Public Involvement Summary Report that contains all public involvement activities throughout the duration of the project. 12 months x 8h / mo + 16 hr (PI Summary Report) [Task 7.8] "Information Line" during regular business hours
	News Letters, Preparation / Distribution *	LS	1	112	24		88	112	112	3 newsletter (initial + 2) "desk-top publishing" [Task 7.9] 40 hours for 1st newsletter + (24 hours x 2 newsletters)-Spanish translation 8 hrs x 3 = 112
	Web Site Development *	LS	0	0				0	0	[Task 7.10] Up-to-40 hours development + 20 hrs-Spanish translation; CFX PIO to develop, no turn files or fact sheets.
	Web Site Maintenance *	LS	1	24	0		24	24	24	3 updates [Task 7.10] x 8 hrs each
	Videos, Renderings, etc. *	LS	1	80	0		80	80	80	Video for public meeting; loop with script and slides; no renderings
	1.9 Special Public Involvement Requirements Total				96		232	328	328	
	Public Involvement Subtotal				356	9	980	1345	1345	
	Hours Subject to QC				246	0	480	726	726	
1.10	Quality Assurance / Quality Control	LS	%	5%	12	0	24	36	36	
	PUBLIC INVOLVEMENT TOTAL HOURS				368	9	1004	1381		

# PUBLIC INVOLVEMENT

Estimator: TJONES

OSCEOLA PARKWAY EXTENSION CONCEPT, FEASIBILITY & MOBILITY ST  
001248

Representing		Print Name							Signature / Date		
NOTE: Signature Block is optional, per District preference											
Task No.	Task	Units	# of Units	Hours / Unit	CH2M	BCC	IE	TIERRA	TEAM TOTAL	Comments	
NOTE: * subject to QC											
2.1	Field Review	LS	1	52	52		20		72	[Task 8.1] 2 Roadway, 1 Drainage, & 1 Structure = 4 FIELD reviews x 3 persons x 6 hr per trip = 72 hours. Note: Specific field work is not identified in scope; but may be necessary to confirm constraints and characteristics.	
2.2	Survey Coordination										
	Aerial Photography	LS	1	40	40				40	Collect publicly available aerials and update if available. [Task 8.1]	
	Survey Coordination	LS	0	0	0				0	Not in scope	
		2.2 Survey Coordination Total			40	0	0	0	40		
2.3	Geotechnical										
	Soils	LS	1	24	0			24	24	Update Soils Map from PD&E; review PD&E analysis and report	
	Geotechnical Coordination	LS	0	0	0			0	0		
		2.3 Geotechnical Total			0	0	0	24	24		
2.4	Traffic										
	Traffic Data	LS	1	40	0	40			40	[Task 8.2] GEC and/or T&E consultant will provide existing traffic data for the expressway system in the Study area. The CONSULTANT shall collect any additional data for the study corridor and surrounding roadway network as needed, but is not expected to conduct machine or other forms manual field counts.	
	Traffic Analysis									[Task 10] The CONSULTANT will coordinate with the T&E consultant to develop conceptual traffic and revenue forecasts for each mobility program alternative to determine how effective each is at satisfying the Purpose and Need and estimate its financial viability.	
	- Design Traffic *	LS	1	40	0	40			40	CFX will provide T&R and design traffic. T&R Model Refinement and revalidation for the CFX corridor-concept traffic developments—for all alternatives-200h Coordination in support of T&R preparation; Review Capacity Analysis; T&R Report Review 40h	
	- Traffic Operational Analysis *	LS	1	240	40	200			240	Corridor Wide Operation analysis using CORSIM, and Synchro- VISSIM Simulation will be available for the final alternative. 200h Review existing & future operational analysis prepared by CFX. 40h Determine number of lanes needed and any weaving issues for concept and geometry development.	
	- Design Traffic Documentation *	LS	1	80	0	80			80	Operational analysis and recommendations for geometry will be documented 80hrs Review Final T&R; Review and digest CFX docs; incorporation of T&R data into study-40h 3 p.m.-2 meetings with CFX + [Shiering]-4 h notes]-22hrs	
	Traffic Data for Noise Analysis *	LS	0	0	0	0			0	Provide comprehensive Noise Analysis based on the traffic data developed or develop if needed 100h.	
		2.4 Traffic Total			40	360	0	0	400		
2.5	Safety									This task is not identified in scope. However the PD&E included no analysis; the analysis results could potentially influence concept development.	
	Crash Data	LS	1	8	8				8	Mid range (utilize FIRES); include cross roads	
	Safety Analysis *	LS	1	24	24				24	Reflective of project length and number of cross roads (9 miles, 11 intersection roads)	
		2.5 Safety Total			32	0	0	0	32		

# PUBLIC INVOLVEMENT

Task No.	Task	Units	# of Units	Hours / Unit	CH2M	BCC	IE	TIERRA	TEAM TOTAL	Comments
2.6	Utilities and Railroads									- [Task 8.0 Data Collection] Collect and review all PD&E documents; incorporate all relevant data / analyses / findings; identify changed conditions; verify adherence to CFX design criteria; in-depth evaluation of PD&E findings / recommendations/commitments. - [Task 8.0 Data Collection] Write ups for PD&E Evaluation Technical Memorandum (Tech Memo) – Draft and Final - [Task 8.5 Physical / Natural Environmental Information]: Collect information on the existing physical and natural environment from published resources. - [Task 8.9 Write ups for Data Collection Summary Technical Memorandum: document all of the data collection efforts and will include identification of unique corridor features; identify any "fatal flaws" - [Task 10.3] Estimate benefits and impacts; discussion of the steps needed to accomplish the environmental approval and possible mitigation - [Task 10.5] Write ups for Concept, Feasibility and Mobility Study Report
		EA	1	112	112				112	14 were identified in PD&E: 1. Identify and contact UAO = 14 UAOs x 8 hrs = 112 hrs;
		LS	1	20	20				20	Prepare Draft Report ( 12h) and Final Report (6 hrs ) = 20h
		2.6 Utilities and Railroads Total			132	0	0	0	132	
2.7	Needs									
		LS	1	24	24	0			24	Up to 8 (MPO, Or Co, Os Co, LYNX, BikerPed, Transit, other mobility)[Task 8.3]
		LS	0	0	0	0			0	N/A
		LS	1	240	240	0			240	This task includes the preparation of the PD&E Evaluation Technical Memorandum (Tech Memo) – Draft and Final [Task 8.0] Collect and review all PD&E documents; incorporate all relevant data / analyses / findings; identify changed conditions; verify adherence to CFX design criteria; in-depth evaluation of PD&E findings / recommendations/commitments. [Task 8.8] Confirm Corridor Limits Existing Conditions Technical Memorandum - Draft and Final [Task 8.9] [Task 9.0] The CONSULTANT will evaluate following sufficiently to guide development and refinement of mobility alternatives: CFX to provide current and future year population; population densities, major employment centers and densities; traffic and truck forecasts, weekend and recreational traffic and other characteristics CFX to provide demographic shifts and emerging population, employment and housing trends CFX to provide development and land use patterns to identify major trip generators CH2M: need of regional mobility improvements included in Task 10.2 CH2M: corridor mobility needs included in Task 10.2
2.8	Corridor Analysis *	LS	1	24	24	0			24	Purpose and Need Statement – Draft and Final [Task 9.0]
		2.7 Needs Total			288	0	0	0	288	
		LS	0	0	0				0	This task was moved to 2.7 (Analysis of Existing Conditions) PD&E Evaluation Technical Memorandum (Tech Memo) – Draft and Final [Task 8.0] Collect and review all PD&E documents; incorporate all relevant data / analyses / findings; identify changed conditions; verify adherence to CFX design criteria; in-depth evaluation of PD&E findings / recommendations/commitments.
		LS	0	0	0				0	[Task 8.8] This task was moved to 2.7 (Analysis of Existing Conditions)
	8.0 PD&E Evaluation Technical Memorandum	LS	0	0	0				0	This task was moved to 2.7 (Analysis of Existing Conditions) PD&E Evaluation Technical Memorandum (Tech Memo) – Draft and Final [Task 8.0] Collect and review all PD&E documents; incorporate all relevant data / analyses / findings; identify changed conditions; verify adherence to CFX design criteria; in-depth evaluation of PD&E findings / recommendations/commitments.
		LS	0	0	0				0	[Task 8.8] This task was moved to 2.7 (Analysis of Existing Conditions)
		LS	0	0	0				0	This task was moved to 2.7 (Analysis of Existing Conditions) Existing Conditions Technical Memorandum – Draft and Final [Task 8.8]
		LS	1	80	80				80	No Build + 3 Alternatives [Task 10.0] Methodology & Documentation Comparative Methodology, Framework, Impact Assessment, and Matrix - Draft and Final Iterations to include rec'd from CUTR report.
	10.4 Financial Viability Analysis	LS	1	40	40				40	Provide costs and "support" for Viability Assessment to be provided by CFX/T&E For Cost Estimates - refer to Task 2.23
		LS	0	0	0				0	This task was moved to 2.24 Concept, Feasibility and Mobility Study Report (Report) – Draft and Final Include rec'd from CUTR report and Board
		2.8 Corridor Analysis Total			120	0	0	0	120	

# PUBLIC INVOLVEMENT

Task No.	Task	Units	# of Units	Hours / Unit	CH2M	BCC	IE	TIERRA	TEAM TOTAL	Comments
2.9	Roadway									PD&E includes 11 intersecting roads; 8 interchanges
	Existing Roadway Characteristics	LS	0	0	0				0	<i>This task is included in 2.7 (Analysis of Existing Conditions)</i>
	Typical Section Analysis *	EA	1	90	90				90	Roadway: 5 typicals options for mainline options only (Assumes: 1. Mainline without Transit corridor. 2. Mainline with transit corridor (on road). 3. Mainline with separate transit; 4. with elevated section (Boggy Creek) due to constraints/development; 5 w/ 2-lane frontage roads (CFX to provide traffic analysis to support need)); Access may change from PD&E; roundabouts may be considered 4 typicals other (ramps - 2, frontage, service, connector, reconstruction) for viable alternative 9 typicals x 10 h=90h Deliverable includes memo and matrix comparing typicals, and recommendation
	Corridor Analysis *	LS	0	0	0				0	See 2.8
	Roadway Design Alternatives *	LS	0	0	0				0	Develop conceptual alignments; id logical termini, typical sections, bridge, interchanges, row, impacts See P&N, no concepts.
	10.1 No-Build Alternative 10.2 Develop Alternative Mobility Programs	LS	1	1386	1386				1386	Corridor (9 miles average) x 2 of alts x 4 hours = 72 Initial Mainline (average 9 miles) x 2 of alts x 2 hrs section options x 8 hours = 288 Viable Mainline (average 9 miles) x 2 of alts x 10 hours = 180 x 1 typical section options Preferred Mainline length (9 miles) x 1 of alts x 14 hours = 126 x 1 typ sec Interchanges (IC): 2 Major IC x 2 alt concepts x 60 hours = 240 6 Minor IC x 2 alt concepts x 24 hours = 288 hrs 1 preferred concept x 8 IC x 24 hours = 192 Total = 72+288+180+126+240+288+192= 1386 hrs
	10.2.1 Limited Access Talled Expressway	LS	1	360	360				360	See Back Up 10.2
	10.2.2 Mass Transit Technology	LS	1	160	160				160	See Back Up 10.2
	10.2.3 Intermodal Facilities	LS	0	0	0				0	Not in scope
	Access Management *	LS	0	0	0				0	Not in scope
2.10	Identify Construction Segments *			2.9 Roadway Total	1996	0	0	0	1996	
	Structures									PD&E Rec'd Alt includes 45 bridges: - SR 417 I/c = 6 bridges - Overpass Pairs Short = 2 x 14 = 28 - Overpass Pairs Long = 2 x 1 = 2 - OPE I/c = 5 bridges - Overpasses = 2 - Ped Tunnel = 2
	Existing Structure Characteristics	EA	0	0	0				0	Verify and summarize data in PD&E (Existing bridge—Simpson Road, SR 417, etc.) ask included in 2.5
	Structures Typical Section Analysis *	EA	10	12	120				120	Preferred Alternative: 10 types of typicals @ 12 hrs each = 120 May include elevated section (Boggy Creek) for 1 alternative
	Structures Design Alternatives *	EA	39	12	240	228			468	This effort will include location, total length and width, span, type of structure and cost. Hours include time for cost estimates and matrix (per sq ft based on structure type for 1 alternative. 19 bridge sites @ 12 hrs = 228 Interchanges: 20 bridges @ 12 hrs = 240 Total 228 + 240 = 468 Assumes no Bridge Concept memo, no pic or graphics
			2.10 Structures Total		360	228	0	0	588	



## PUBLIC INVOLVEMENT

Task No.	Task	Units	# of Units	Hours / Unit	CH2M	BCC	IE	TIERRA	TEAM TOTAL	Comments
2.11	Drainage									- [Task 8.0 Data Collection] Collect and review all PD&E documents; incorporate all relevant data / analyses / findings; identify changed conditions; verify adherence to CFX design criteria; in-depth evaluation of PD&E findings / recommendations/commitments - [Task 8.0 Data Collection] Write ups for PD&E Evaluation Technical Memorandum (Tech Memo) – Draft and Final - [Task 8.5 Physical / Natural Environment Information]: Collect information on the existing physical and natural environment from published resources - [Task 8.9 Write ups for Data Collection Summary: Technical Memorandum; document all of the data collection efforts and will include identification of unique corridor features; identify any "fatal flaws" - [Task 10.3] Estimate benefits and impacts; discussion of the steps needed to accomplish the environmental approval and possible mitigation - [Task 10.5] Write ups for Concept, Feasibility and Mobility Study Report
		Floodplain and Environmental Permit Data Collection*	LS	1	40	0		40	40	PD&E Recommended Alternative impacts approximately 235.6 acres of areas mapped in the 100-year floodplain (Zone A and AE) and approximately 2.60 acres of regulatory floodway.
		Floodplain Compensation Analysis*	LS	1	32	0		32	32	Estimate Impacts
		Pond Siting Analysis and Report*	LS	1	80	8		72	80	Note: not specifically in scope: Assumed 17 pond sites for qualitative review at average of 2hrs each, including groundtruthing of some pond sites; plus write up findings in Technical Memo; hours do not include preparing any graphics. No additional pond sites to be identified; need to verify sizes. Need to perform comparative analysis for alternatives and identify any major cross drains that could influence the project cost. There may be stream that was missed in PD&E per resident comment - Jim Creek - culvert may be needed
		Pond Siting Meetings	LS	0	0	0			0	Not in scope
		Location Hydraulic Report*	LS	1	40	8		32	40	
2.12	Concept Plans	Environmental Look Around (ELA) Meeting	LS	0	0	16		176	0	2 staff x 8 hr x 1 day to attend Environmental Look Around
					2.11 Drainage Total	16		0	192	Technical Memo for floodplain impacts
		Base Map *	Sheet	4	15	60			60	Corridor Base Maps [Task 11] 1" = 200' to 1" = 2000' [Task 8.7] 4 sheets (roll plots) for 60 hours for all alternatives for displays and report exhibits (similar to PD&E 17-Sheets @ 1"-200' (17 sheets for Mainline, 16 sheets for 2 systems-interchanges = 33 sheets
		Alternative Concept Plan *	Sheet	0	0	0			0	N/A
		10.1 No-Build Alternative								
		10.2 Develop Alternative Mobility Programs	Sheet	56	11.71	656			656	Roll plots: Initial Alternatives = 4 roll plots x 60 = 240h (no plan sheet for initial alts) 34 SHEETS: Viable Mainline (average 9 miles) x 2 alts x 5280 ft/sheet/2800 ft/sheet = 34 sheets x 8 hours=272h (assumes 17 Sheets @ 1"-200' for Mainline) 16 SHEETS: Interchanges: 2 systems interchanges x 2 alts = 16 sheets x 8 hours=128h 2 SHEETS: Other Sheets: Key Sheet (1) (8hrs) Index sheet (1) (10hrs) Typicals indicated above, no drainage maps No ponds on plan sheets 240+272+128+6+10=656 hours
2.13	Typical Section Package *	10.2.1 Limited Access Talled Expressway	LS	1	40	40			40	Maps to id location and access
		10.2.2 Mass Transit Technology	LS	0	0	0			0	Maps to id location and access
		10.2.3 Intermodal Facilities	Sheet	0	0	0			0	
		Preferred Alternative *								
				2.12 Concept Plans Total	756	756		0	756	
			LS	1	0	0			0	N/A
2.14	Design Exception and Variations									Not in scope; Not in PD&E
		Identify Design Exceptions and Variations	LS	0	0	0			0	
		Prepare Design Exception and Variation Package(s) *	EA	0	0	0			0	
				2.14 Design Exception and Variation Total	0	0			0	

# PUBLIC INVOLVEMENT

Task No.	Task	Units	# of Units	Hours / Unit	CH2M	BCC	IE	TIERRA	TEAM TOTAL	Comments
2.15	Multimodal Accommodations *	EA	0	0	0				0	See 2.8
2.16	Park and Ride Lots	EA	0	0	0				0	See 2.8
2.17	Maintenance of Traffic*	LS	0	0	0				0	N/A
2.18	Comparative Analysis and Evaluation Matrix *	LS	0	0	0				0	see 2.7
2.19	Selection of Preferred Alternative(s) *	LS	1	24	24				24	
2.20	Value Engineering Study	EA	0	0	0				0	N/A
2.21	Risk Management	LS	0	0	0				0	N/A
2.22	Construction Cost Estimates *	LS	1	220	220				220	Initial LRE (4 alls) x 20 hours/ea x 2 (initial + 1 revision) = 160 hrs; Viable 2 alls x 12 hours/ea x 2 (initial + 1 revision) = 48 hrs 1 update for preferred alternative (1) @ 12 hrs/ea = 12 hrs Total = 220 Input for Financial Viability Analysis - will need to consider project limits, cs, limits and phasing
2.23	Right of Way Cost Estimates								0	Task is listed in Section 4.0 Objective of Scope To develop area of impact and summarize. Assumes 500 impacted parcels includes easements.
	Notes and Maps for Estimate *	LS	1	166	166				166	Initial GIS comparison = 16 hrs Viable alternatives and 1 typical section = 15 hrs per 100 parcels x 5 #5 hrs Preferred alternative = 15 hrs x 5 = 75 Total = 166 hrs
	Preparation Cost Estimate *	LS	0	0	0				0	The GEC will be responsible for estimating the right-of-way acquisition costs based on input from the CONSULTANT.
2.24	Preliminary Engineering Report (PER) Concept, Feasibility and Mobility Study Report		2.23 Right of Way Cost Estimates Total		166		0	0	166	Concept, Feasibility and Mobility Study Report - Draft and Final Include recd from CUIR report and Board Corridor report; CFX to provide templates and outline for consistency
	Draft *	LS	1	120	120				120	
	Final *	LS	1	80	80				80	
	2.24 Preliminary Engineering Report (PER) Total				200		0	0	200	
2.25	Other Engineering Services									N/A
	IM&UR Reports *	LS	0	0	0				0	
	Intelligent Transportation Systems *	LS	0	0	0				0	
	Roundabout Evaluation *	EA	0	0	0				0	
	Existing Signage Inventory *	LS	0	0	0				0	
	2.25 Other Engineering Services Total				0				0	
	Engineering Analysis and Report Subtotal				4442	588	196	24	5250	
	Hours Subject to QC				4206	548	176	0	4930	
2.26	Quality Assurance / Quality Control	LS	%	5%	247	0	0	0	247	Assumes all QA/QC is done by CH2M Hill - (rounded % up)
	ENGINEERING ANALYSIS AND REPORT TOTAL HOURS				4689	588	196	24	5497	

# PROJECT DEVELOPMENT & ENVIRONMENT PROJECT DATA

## ADDITIONAL BACK UP for 2.9

### 10.2.2 Mass Transit Technology

Task	Units	# of Units	Hours / Unit	TEAM TOTAL	NEGO HOURS	Comments
Data Collection on Existing and Future Conditions	LS	1	32	32	32	• Buses, fixed guideways, bus rapid transit systems, other mass transit technologies; review other transportation plans
Summary of Existing and Planned Improvements	LS	1	16	16	16	Lake Nona potential development for add'l 200,000 trip in next 10 years
Develop Service Plan Assumptions	LS	1	40	40	40	
Travel Demand Estimates	LS	1	120	120	120	Modeling: if there is an alternative land use scenario due to development - CFX T&E will provide with design traffic analysis
Cost Estimates	LS	1	40	40	40	
White Paper	LS	1	80	80	80	Draft (60 hrs), Final (20 hrs)
Agency Coordination	LS	1	32	32	32	Assumes 4 teleconferences ( 2 hrs. each) = 8, agency outreach (6 agencies x 4 hrs each to obtain and coordinate data collection requests) = 24
Summary of Recommendations	LS	1	0	0	0	Interview stakeholders for need
				360	360	Included in 2.24

### 10.2.3 Intermodal Facilities

Task	Units	# of Units	Hours / Unit	Hours		Comments
Data Collection on Existing and Future Conditions	LS	1	32	32	32	• Intermodal facilities, including park and ride lots
Summary of Existing and Planned Improvements	LS	1	16	16	16	
Develop Service Plan Assumptions	LS	0	0	0	0	N/A
Travel Demand Estimates	LS	0	0	0	0	N/A
Cost Estimates	LS	1	40	40	40	
White Paper	LS	1	40	40	40	Draft (24 hrs), Final (16 hrs)
Agency Coordination	LS	1	32	32	32	Assumes 4 teleconferences ( 2 hrs. each) = 8, agency outreach (6 agencies x 4 hrs each to obtain and coordinate data collection requests) = 24
Summary of Recommendations	LS	1	0	0	0	Included in 2.24
				160	160	

# PROJECT DEVELOPMENT & ENVIRONMENT PROJECT DATA

Estimator: TJONES

OSCEOLA PARKWAY EXTENSION CONCEPT, FEASIBILITY & MOBILITY STUDIES  
001248

Representing	Print Name	Signature / Date
CH2M	TARA JONES	2/16/2017

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	# of Units	Hours / Unit	CH2M	B&B	SEARCH	TIERRA	TEAM TOTAL	NEGO HOURS	Comments
NOTE: * subject to QC											
<b>SOCIOCULTURAL EFFECTS</b>											
3.1	Social Resources										<ul style="list-style-type: none"> <li>- [Task 8.0 Data Collection] Collect and review all PD&amp;E documents; incorporate all relevant data / analyses / findings; identify changed conditions; verify adherence to CFX design criteria; in-depth evaluation of PD&amp;E findings / recommendations/commitments.</li> <li>- [Task 8.0 Data Collection] Write ups for PD&amp;E Evaluation Technical Memorandum (Tech Memo) - Draft and Final</li> <li>- [Task 8.5 Physical / Natural Environmental Information]: Collect information on the existing physical and natural environment from published resources.</li> <li>- [Task 8.9 Write ups for Data Collection Summary Technical Memorandum: document all of the data collection efforts and will include identification of unique corridor features; identify any "fatal flaws"</li> <li>- [Task 10.3] Estimate benefits and impacts; discussion of the steps needed to accomplish the environmental approval and possible mitigation</li> <li>- [Task 10.5] Write ups for Concept, Feasibility and Mobility Study Report</li> </ul>
	Land Use Changes *	LS	1	40	40				40	40	Review PD&E 8 hrs
	Social *	LS	1	16	16				16	16	Task 8.9 Write ups for Data Collection Summary Technical Memorandum: document all of the data collection efforts and will include identification of unique corridor features; identify any "fatal flaws"
	Economic *	LS	1	8	8				8	8	Review PD&E 8 hrs
	Mobility *	LS	0	0	0				0	0	See Task 10.2
	Aesthetics *	LS	0	0	0				0	0	
					64				64	64	
	3.1 Social Resources Total				64				64	64	
3.2	Sociocultural Effects Evaluation Report*	LS	0	0	0				0	0	See Task 2.8 for Impact Assessment and Matrix and Documents
3.3	Relocation Potential										
	Review and Impact Determination *	LS	0	0	0				0	0	Included in Engineering 2.23 ROW
	Conceptual Stage Relocation Plan *	LS	0	0	0				0	0	Not in scope
					0				0	0	
	3.3 Relocation Potential Total				0				0	0	

PROJECT DEVELOPMENT & ENVIRONMENT  
PROJECT DATA

Task No.	Task	Units	# of Units	Hours / Unit	CH2M	B&B	SEARCH	TIERRA	TEAM TOTAL	NEGO HOURS	Comments
<b>CULTURAL RESOURCES</b>											
3.4	Archaeological and Historical Resources										<ul style="list-style-type: none"> <li>- [Task 8.0 Data Collection] Collect and review all PD&amp;E documents; incorporate all relevant data / analyses / findings; identify changed conditions; verify adherence to CFX design criteria; in-depth evaluation of PD&amp;E findings / recommendations / commitments.</li> <li>- [Task 8.0 Data Collection] Write ups for PD&amp;E Evaluation Technical Memorandum (Tech Memo) - Draft and Final</li> <li>- [Task 8.5 Physical / Natural Environmental Information]: Collect information on the existing physical and natural environment from published resources</li> <li>- [Task 8.9 White ups for Data Collection Summary Technical Memorandum: document all of the data collection efforts and will include identification of unique corridor features; identify any "fatal flaws"</li> <li>- [Task 10.3] Estimate benefits and impacts; discussion of the steps needed to accomplish the environmental approval and possible mitigation</li> <li>- [Task 10.5] Write ups for Concept, Feasibility and Mobility Study Report</li> </ul>
	Research Design Methodology As Required	LS	1	0	0				0		
	Cultural Resource Assessment Survey (CRAS) *	LS	1	100	8		92		100	100	
	CRAS Addendum or Technical Memorandum for Flood Sites	LS	1	0	0				0		
	Determination of Eligibility (DOE)	LS	0	0	0				0		
	As Required	LS	0	0	0				0		
	Case Study Report *	LS	0	0	0				0		
	Memorandum of Agreement (MOA) *	LS	0	0	0				0		
	Historic Resources, Section 4(f) Evaluation	LS	0	0	0				0		
	Section 108 Consultation Meetings	LS	0	0	0				0		
	Native American Coordination Meeting	LS	0	0	0				0		
	Section 108 Public Involvement	LS	0	0	0				0		
	Cultural Resource Committee Meetings	LS	0	0	0				0		
	<b>3.4 Archaeological and Historical Resources Total</b>			<b>8</b>		<b>92</b>			<b>100</b>	<b>100</b>	
3.5	Recreational, Section 4(f)										N/A
	Section 4 (f) Determination of Applicability *	EA	0	0	0				0		
	Section 4(f) "de minimus" Documentation *	EA	0	0	0				0		
	Section 4 (f) Evaluation *	EA	0	0	0				0		
	<b>3.5 Recreational, Section 4(f) Total</b>			<b>0</b>					<b>0</b>		
<b>NATURAL RESOURCES</b>											
3.6	Wetlands and Essential Fish Habitat										<ul style="list-style-type: none"> <li>- [Task 8.0 Data Collection] Collect and review all PD&amp;E documents; incorporate all relevant data / analyses / findings; identify changed conditions; verify adherence to CFX design criteria; in-depth evaluation of PD&amp;E findings / recommendations / commitments.</li> <li>- [Task 8.0 Data Collection] Write ups for PD&amp;E Evaluation Technical Memorandum (Tech Memo) - Draft and Final</li> <li>- [Task 8.5 Physical / Natural Environmental Information]: Collect information on the existing physical and natural environment from published resources.</li> <li>- [Task 8.9 White ups for Data Collection Summary Technical Memorandum: document all of the data collection efforts and will include identification of unique corridor features; identify any "fatal flaws"</li> <li>- [Task 10.3] Estimate benefits and impacts; discussion of the steps needed to accomplish the environmental approval and possible mitigation</li> <li>- [Task 10.5] Write ups for Concept, Feasibility and Mobility Study Report</li> </ul>
	Data Collection - Wetlands	LS	1	73		73			73	73	Review PD&E PEIR; separately review existing data and mapping; existing permits; ground-truthing; <b>PD&amp;E Conceptual documents includes UMAM</b>
	Data Collection - Essential Fish Habitat Assessment	LS	1	2		2			2	2	Verify no involvement as stated in PD&E
	Conceptual Mitigation Plan *	LS	1	26		26			26	26	Using analysis of impacts and qualitative assessment included for Evaluation and Report
	Analysis & Report - Essential Fish Habitat *	LS	1	1		1			1	1	
	Evaluation & Report - Wetlands *	LS	1	90	0	90			90	90	Assume impacts to up to 30 wetlands of approximately 40 wetlands within corridor, with impact amounts varying with assumption of 2 exits in alignment; summarize qualitative analysis of 30 wetlands.
	<b>3.6 Wetlands and Essential Fish Habitat Total</b>			<b>0</b>		<b>192</b>			<b>192</b>	<b>192</b>	Feasibility study level.

## PROJECT DEVELOPMENT & ENVIRONMENT PROJECT DATA

[illegible]



**PROJECT DEVELOPMENT & ENVIRONMENT  
PROJECT DATA**

Task No.	Task	Units	# of Units	Hours / Unit	CH2M	B&B	SEARCH	TIERRA	TEAM TOTAL	NEGO HOURS	Comments
	Field Data	LS	1	59				59	59	59	12 hrs desktop review + 2 hrs x length of project (11 miles) = 22 hrs + 0.5 x number of suspected contamination sites (50) = 25 hrs 12+22+25=59 hrs
	Analysis/Report *	LS	1	102	0			102	102	102	1 hrs x number of suspected contamination sites (50) = 50 hrs Draft report preparation = 32 hrs Final report preparation = 20 hrs 50+32+20=102 hrs
<b>ENVIRONMENTAL REPORTS</b>											
3.15 Contamination Total											
					0			161	161	161	
3.16	Class of Action Determination *	LS	0	0	0				0		N/A
3.17	GATEX Type II * (if not part of 3.19 - Class of Action Determination)	LS	0	0	0				0		N/A
3.18	SEIR * (if not part of 3.19 - Class of Action Determination)	LS	0	0	0				0		N/A
3.19	Environmental Assessment *	LS	0	0	0				0		N/A
3.20	FONSI *	LS	0	0	0				0		N/A
3.21	Draft EIS *	LS	0	0	0				0		N/A
3.22	Final EIS *	LS	0	0	0				0		N/A
Environmental Analysis and Report Subtotal					84	330	92	161	667	667	
Hours Subject to QC					84	224	92	102	502		
3.23	Quality Assurance / Quality Control	LS	%	5%	25	0	0	0	25		Assumes all QA/QC is done by CH2M Hill
ENVIRONMENTAL ANALYSIS AND REPORT TOTAL HOURS					109	330	92	161	692		

PROJECT DEVELOPMENT & ENVIRONMENT  
PROJECT DATA

Estimator: T.JONES

OSCEOLA PARKWAY EXTENSION CONCEPT, FEASIBILITY & MOBILITY STUDIES  
001248

Representing		Print Name				Signature / Date			
NOTE: Signature Block is optional, per District preference									
Task No.	Task	Units	# of Units	Hours / Unit	CH2M HILL (Prime)	B&B	TEAM TOTAL	NEGO HOURS	Comments
4.1	Contract and Project Files	LS	1	188	188		188	188	Schedule (1 initial + 11 updates) [Task 6.3] + Quality Control Plan [Task 6.5] + 12 Progress Rpt [Task 6.6] 12 months to completion of overall schedule Setup - 24 hrs (files, work instructions) QMP = 8 hrs Schedule 16 h + (11 updates * 4h) = 60h Invoicing/Prog Rpts (8 hr/month * 12 months)= 96h Total 24+8+60+96 = 188 hrs
4.2	Project Management Meetings and Coordination	LS	1	396	384	8	396	396	Attendance + Set up/down + Prep (agenda/signin/handouts/displays/presentation) + Summary
	Notice to Proceed Meeting	LS	1	16	8	4	16	16	1 NTP Meeting [Task 6.1]
	Project Management Meetings	LS	24	8	188	4	192	192	24 Progress Meetings [Task 6.6]
	Osceola County Expressway Authority	LS	2	16	32		32	32	2 OCX meetings [Task 7.4 Board Meetings]
	Central Florida Expressway Authority	LS	2	16	32		32	32	2 CFX meetings [Task 7.4 Board Meetings]
	Osceola County Board of County Commissioners	LS	2	16	32		32	32	2 Osc Co meetings [Task 7.4 Board Meetings]
	Orange County Board of County Commissioners	LS	2	16	32		32	32	2 Osc Co meetings [Task 7.4 Board Meetings]
	Interagency and Stakeholder Coordination	LS	6	10	60		60	60	Assume 6 meetings [Task 8.6] (local governments, FDOT and corridor stakeholders) 2 p x 4h + 2 hr prep = 10 hrs. per mtg x 6 mtgs = 60 hrs
	Other Corridor Public Meetings	LS	0	0	0		0	0	3 Other Corridor Public Meetings [Task 7.3 Public Meeting] Hours were included in P1 Task 1.5 Alternatives Public Meeting (Participation)
4.3	Additional Services	N/A							
4.3 Additional Services Total							0	0	
MISCELLANEOUS TOTAL HOURS					572	8	4	584	



**CH2M HILL**  
**MISCELLANEOUS OUT-OF-POCKET EXPENSES**

Project Description: OSCEOLA PARKWAY EXTENSION CONCEPT, FEASIBILITY & MOBILITY STUDIES  
 Project Limits: Osceola Parkway

CFX Contract Number: 001248

**REPROGRAPHICS**

**REPRODUCTION-EXTERNAL PRICES (Triangle)**

30" x 40" Plotting Boards:	40	board	x	\$67.50	per brd =	\$2,700.00	Assumes 9 SF, \$7.50 per SF
22" x 34" Plotting Boards:	34	board	x	\$45.00	per brd =	\$1,530.00	Assumes 6 SF, \$7.50 per SF
30" x 40" Mounting Boards:	16	rolls	x	\$40.50	per roll =	\$648.00	Assumes 9 SF, \$4.50 per SF
22" x 34" Mounting Boards:	22	frames	x	\$27.00	per shi =	\$594.00	Assumes 6 SF, \$4.50 per SF

**PHOTOGRAPHY & REPROGRAPHICS TOTALS:**

**\$5,472.00**

**REPRODUCTION-INTERNAL PRICES**

**REPRODUCTION-INTERNAL PRICES**

	Xerox Bond	Xerox (8.5"x11")	Exhibits (11" x 17")	Xerox (8.5"x11")
<b>MEETING PAPERWORK</b>	b/w	color	color	
6 EAG/PAG	0	300	120	300
24 unscheduled	0	300	120	300
24 progress meeting	0	300	120	300
15 Misc Coordination (4.2)	0	300	120	300
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
<b>PLANS</b>				
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
<b>WORKING COPIES:</b>	0	0	0	0
<b>TOTALS:</b>	0	1200	480	1200
<b>UNIT COSTS:</b>	\$0.00	\$ 0.04	\$ 1.10	\$ 0.60
<b>TOTAL COSTS:</b>	\$ -	\$ 48.00	\$ 528.00	\$ 720.00

	Xerox (8.5"x11")	Exhibits (11" x 17")	Xerox (8.5"x11")
<b>Public Involvement</b>	b/w	color	color
KO letter	0	0	200
PIM Handouts	0	0	0
Comment forms	0	0	10
Name tags	0	0	10
Responses	0	0	2500
Newsletter#1	0	0	0
Newsletter#2	0	0	0
Newsletter#3	0	0	0
<b>REPORTS</b>			
PI Summary	600	120	600
PD&E eval	600	120	600
Exist cond	600	120	600
Corridor	600	120	600
	0	0	0
<b>TOTALS:</b>	2400	480	5120
<b>UNIT COSTS:</b>	\$ 0.04	\$ 1.10	\$ 0.60
<b>TOTAL COSTS:</b>	\$ 96.00	\$ 528.00	\$ 3,072.00

**REPRODUCTION TOTALS:**

**\$ 4,992.00**

**TRAVEL EXPENSES**

<b>TO:</b> <u>Project Site (Field Work)</u>	<b>FROM:</b> <u>Orlando Office</u>
Per Diem: 0 trips x 0 people x 0 days/trip x \$0.00 per day = \$0.00	
Personal Vehicle (Field Rvw): 25 trips x 110 miles x \$0.445 per mile = \$1,223.75	
Hotel: 0 trips x 0 people x 0 days/trip x \$0.00 / room = \$0.00	
Personal Vehicle (UAO Mtgs): 0 trips x 0 days/trip x \$0.000 per mile = \$0.00	
Airfare: 0 trips x 0 people x \$0.00 round trip = \$0.00	
<b>TO:</b> <u>CFX Office</u>	<b>FROM:</b> <u>Orlando Office</u>
Per Diem: 0 trips x 0 people x 0 days/trip x \$0.00 per day = \$0.00	
Personal Vehicle: 72 trips x 10 miles x \$0.445 per mile = \$320.40	
Hotel: 0 trips x 0 people x 0 days/trip x \$0.00 / room = \$0.00	
Rental Vehicle: 2 trips x 1 days/trip x \$0.000 daily rate = \$0.00	
Airfare: 0 trips x 0 people x \$0.00 round trip = \$0.00	
<b>TO:</b> <u>Public Meeting Site</u>	<b>FROM:</b> <u>Orlando Office</u>
Per Diem: 0 trips x 0 people x 0 days/trip x \$0.00 per day = \$0.00	
Personal Vehicle: 8 trips x 50 miles x \$0.445 per mile = \$178.00	
Hotel: 0 trips x 0 people x 0 days/trip x \$0.00 / room = \$0.00	
Rental Vehicle: 0 trips x 0 days/trip x \$0.000 daily rate = \$0.00	
Airfare: 0 trips x 0 people x \$0.00 round trip = \$0.00	
<b>TO:</b> <u>Miscellaneous Meetings</u>	<b>FROM:</b> <u>Jacksonville Office</u>
Per Diem: 0 trips x 0 people x 0 days/trip x \$0.00 per day = \$0.00	
Personal Vehicle: 0 trips x 0 miles x \$0.445 per mile = \$0.00	
Hotel: 0 trips x 0 people x 0 days/trip x \$0.00 / room = \$0.00	
Rental Vehicle: 0 trips x 0 days/trip x \$0.445 daily rate = \$0.00	
Airfare: 0 trips x 0 people x \$0.00 round trip = \$0.00	
<b>TO:</b> <u>Miscellaneous Meetings</u>	<b>FROM:</b> <u>Orlando Office</u>
Per Diem: 0 trips x 0 people x 0 days/trip x \$0.00 per day = \$0.00	
Personal Vehicle: 90 trips x 46 miles x \$0.445 per mile = \$1,842.30	
Hotel: 0 trips x 0 people x 0 days/trip x \$0.00 / room = \$0.00	
Rental Vehicle: 0 trips x 0 days/trip x \$0.000 daily rate = \$0.00	
Airfare: 0 trips x 0 people x \$0.00 round trip = \$0.00	

**SUBTOTAL: \$3,564.45**

**TOTAL TRAVEL EXPENSES:**

**\$3,564.45**

**MONTHLY SHIPPING COSTS**

Telephone/Facsimile/Shipping/UPS/Fedex: 12 months x \$75.00 = **\$900.00**

**TOTAL EXPENSES:**

**\$14,928.45**

**PROJECT DEVELOPMENT & ENVIRONMENT  
PROJECT DATA**

**ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT**

Name of Project: OSCEOLA PARKWAY EXTENSION CONCEPT, FEASIBILITY & MOBILITY STUDIES  
 County: Orange and Osceola  
 CFX Contract #: CONTRACT 001248  
 FAP No.: N/A  
 Consult Name: BCC  
 Consult No. enter consultants proj. number  
 Date: 2/24/2017  
 Estimator: Insert name

Staff Classification	Total Staff Hours From "SH Summary" - Firm	Senior Specialist/ QAQC	Project Manager	Senior Engineer	Planner	Staff Classification 1	Staff Classification 2	Staff Classification 3	Staff Classification 4	Staff Classification 5	Staff Classification 6	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
Public Involvement	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0	#DIV/0!
Engineering Analysis & Report	588	106	29	177	276	0	0	0	0	0	0	0	0	0	0	0	0	588	\$32,896	\$55.94
Environmental Analysis & Reports	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Miscellaneous	8	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	\$518	\$64.76
<b>Total Staff Hours</b>	<b>596</b>	<b>106</b>	<b>37</b>	<b>177</b>	<b>276</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>596</b>	<b>\$33,413.73</b>	<b>\$56.06</b>
<b>Total Staff Cost</b>		<b>\$10,660.60</b>	<b>\$2,396.12</b>	<b>\$12,602.37</b>	<b>\$8,415.24</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>		<b>\$33,413.73</b>	

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

**SALARY RELATED COSTS:**  
 Overhead Rate: 160.41%  
 Sub-Total: \$53,598.96  
 Profit Margin (LS): 12.00%  
 Salary Related Total: \$87,012.69  
 EXPENSES (LS): \$10,441.52  
**SUBCONSULTANT TOTAL ESTIMATED FEE:** \$97,454.21

**PROJECT DEVELOPMENT & ENVIRONMENT  
PROJECT DATA**

**ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT**

Name of Project: OSCEOLA PARKWAY EXTENSION CONCEPT, FEASIBILITY & MOBILITY STUDIES  
 County: Orange and Osceola  
 CFX Contract #: CONTRACT 001248  
 FAP No.: N/A  
 Consult. Name: Bowman & Blair  
 Consult. No. enter consultants proj. number  
 Date: 2/22/2017  
 Estimator: Catherine Bowman

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Project Manager	Project Scientist	GIS/CAD	Ecological Field Assistant	Staff Classification 1	Staff Classification 2	Staff Classification 3	Staff Classification 4	Staff Classification 5	Staff Classification 6	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
Public Involvement	9	9	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0	9	\$262	\$29.15
Engineering Analysis & Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Environmental Analysis & Reports	330	13	162	155	0	0	0	0	0	0	0	0	0	0	0	0	0	330	\$8,556	\$25.93
Miscellaneous	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	\$117	\$29.15
<b>Total Staff Hours</b>	<b>343</b>	<b>26</b>	<b>162</b>	<b>155</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>343</b>		
<b>Total Staff Cost</b>		<b>\$757.90</b>	<b>\$4,722.30</b>	<b>\$3,454.95</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>		<b>\$8,935.15</b>	<b>\$26.05</b>

Check: \$8,935.15

**SALARY RELATED COSTS:**

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

Overhead Rate: 124.00%  
 Sub-Total: \$8,935.15  
 Profit Margin (LS): \$11,079.59  
 Salary Related Total: \$20,014.74  
 EXPENSES (LS): \$2,401.77  
 SUBCONSULTANT TOTAL ESTIMATED FEE: \$22,416.51  
 \$252.32  
 \$22,668.83

**PROJECT DEVELOPMENT & ENVIRONMENT  
PROJECT DATA**

**MISCELLANEOUS OUT-OF-POCKET EXPENSES**

Project Description: OSCEOLA PARKWAY EXTENSION CONCEPT, FEASIBILITY & MOBILITY STUDIES  
Project Limits: Osceola Parkway

CFX Contract Number: 001248

**PHOTOGRAPHY & REPROGRAPHICS**

30" x 40" Mounted Boards: 0 board x \$0.00 per brd = \$0.00  
22" x 34" Boards: 0 board x \$0.00 per brd = \$0.00

	Xerox Bond	Xerox Mylar	Blackline	Xerox (11"x17")
MEETING PAPERWORK	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
PLANS	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
WORKING COPIES:	0	0	0	0
TOTALS:	0	0	0	0
UNIT COSTS:	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL COSTS:	\$0.00	\$0.00	\$0.00	\$0.00

	Xerox (8.5"x14")	Exhibits (11" x 17")	Xerox (8.5"x11")
AGENDAS/MINUTES	0	0	0
	0	0	0
	0	0	0
	0	0	0
	0	0	0
	0	0	0
	0	0	0
	0	0	0
REPORTS	0	0	0
	0	0	0
	0	0	0
	0	0	0
	0	0	0
	0	0	0
TOTALS:	0	0	0
UNIT COSTS:	\$0.00	\$0.00	\$0.00
TOTAL COSTS:	\$0.00	\$0.00	\$0.00

REPRODUCTION TOTALS: \$0.00

**TRAVEL EXPENSES**

TO: <u>Project Site (Field Work)</u>	FROM: <u>Orlando Office</u>
Per Diem: <u>0</u> trips x <u>0</u> people x <u>0</u> days/trip x <u>\$0.00</u> per day = <u>\$0.00</u>	
Personal Vehicle (Field Rvw): <u>3</u> trips x <u>50</u> miles x <u>\$0.445</u> per mile = <u>\$66.75</u>	
Hotel: <u>0</u> trips x <u>0</u> people x <u>0</u> days/trip x <u>\$0.00</u> / room = <u>\$0.00</u>	
Personal Vehicle (UAO Migs): <u>0</u> trips x <u>0</u> days/trip x <u>\$0.445</u> per mile = <u>\$0.00</u>	
Airfare: <u>0</u> trips x <u>0</u> people x <u>\$0.00</u> round trip = <u>\$0.00</u>	
TO: <u>CFX Office</u>	FROM: <u>Orlando Office</u>
Per Diem: <u>0</u> trips x <u>0</u> people x <u>0</u> days/trip x <u>\$0.00</u> per day = <u>\$0.00</u>	
Personal Vehicle: <u>1</u> trips x <u>15</u> miles x <u>\$0.445</u> per mile = <u>\$6.68</u>	
Hotel: <u>0</u> trips x <u>0</u> people x <u>0</u> days/trip x <u>\$0.00</u> / room = <u>\$0.00</u>	
Rental Vehicle: <u>0</u> trips x <u>0</u> days/trip x <u>\$0.445</u> daily rate = <u>\$0.00</u>	
Airfare: <u>0</u> trips x <u>0</u> people x <u>\$0.00</u> round trip = <u>\$0.00</u>	
TO: <u>Concessionaire Office</u>	FROM: <u>Orlando Office</u>
Per Diem: <u>0</u> trips x <u>0</u> people x <u>0</u> days/trip x <u>\$0.00</u> per day = <u>\$0.00</u>	
Personal Vehicle: <u>0</u> trips x <u>0</u> miles x <u>\$0.445</u> per mile = <u>\$0.00</u>	
Hotel: <u>0</u> trips x <u>0</u> people x <u>0</u> days/trip x <u>\$0.00</u> / room = <u>\$0.00</u>	
Rental Vehicle: <u>0</u> trips x <u>0</u> days/trip x <u>\$0.445</u> daily rate = <u>\$0.00</u>	
Airfare: <u>0</u> trips x <u>0</u> people x <u>\$0.00</u> round trip = <u>\$0.00</u>	
TO: <u>Miscellaneous Meetings</u>	FROM: <u>Orlando Office</u>
Per Diem: <u>0</u> trips x <u>0</u> people x <u>0</u> days/trip x <u>\$0.00</u> per day = <u>\$0.00</u>	
Personal Vehicle: <u>3</u> trips x <u>134</u> miles x <u>\$0.445</u> per mile = <u>\$178.89</u>	
Hotel: <u>0</u> trips x <u>0</u> people x <u>0</u> days/trip x <u>\$0.00</u> / room = <u>\$0.00</u>	
Rental Vehicle: <u>0</u> trips x <u>0</u> days/trip x <u>\$0.445</u> daily rate = <u>\$0.00</u>	
Airfare: <u>0</u> trips x <u>0</u> people x <u>\$0.00</u> round trip = <u>\$0.00</u>	
SUBTOTAL: <u>\$252.32</u>	

TOTAL TRAVEL EXPENSES: \$252.32

TOTAL EXPENSES: \$252.32

**PROJECT DEVELOPMENT & ENVIRONMENT  
PROJECT DATA**

**ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT**

Name of Project: OSCEOLA PARKWAY EXTENSION CONCEPT, FEASIBILITY & MOBILITY STUDIES  
 County: Orange and Osceola  
 CFX Contract #: CONTRACT 001248  
 FAP No.: N/A  
 Consult Name: Infrastructure Engineering, Inc.  
 Consult No.: 5511-17-003  
 Date: 2/22/2017  
 Estimator:

Staff Classification	Total Staff Hours From Summary of Firm	Senior Engineer	Engineer Intern	Senior Designer	0	0	0	0	0	0	0	0	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
Public Involvement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Engineering Analysis & Report	196	69	49	78	0	0	0	0	0	0	0	0	0	196	\$10,156.28	\$51.82
Environmental Analysis & Reports	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00	#DIV/0!
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
<b>Total Staff Hours</b>	196	69	49	78	0	0	0	0	0	0	0	0	0	196		
<b>Total Staff Cost</b>		\$5,045.28	\$1,576.82	\$3,534.18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		<b>\$10,156.28</b>	<b>\$51.82</b>

Check \$10,156.28

**SALARY RELATED COSTS:**

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

Overhead Rate: 172.22%  
 Sub-Total: \$17,491.15  
 Profit Margin (LS): 11.7903%  
 Salary Related Total: \$3,259.71  
 EXPENSES (LS): \$62.30  
**SUBCONSULTANT TOTAL ESTIMATED FEE: \$30,969.44**

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

# MISCELLANEOUS OUT-OF-POCKET EXPENSES

Project Description: OSCEOLA PARKWAY EXTENSION CONCEPT, FEASIBILITY & MOBILITY STUDIES  
 Project Limits: Osceola Parkway

CFX Contract Number: 001248

## PHOTOGRAPHY & REPROGRAPHICS

30" x 40" Mounted Boards:	<u>0</u>	board	x	<u>\$0.00</u>	per brd =	<u>\$0.00</u>
22" x 34" Boards:	<u>0</u>	board	x	<u>\$0.00</u>	per brd =	<u>\$0.00</u>
Ground Photography:	<u>0</u>	rolls	x	<u>\$0.00</u>	per roll =	<u>\$0.00</u>
Color Infrared Photography:	<u>0</u>	frames	x	<u>\$0.00</u>	per sht =	<u>\$0.00</u>

**PHOTOGRAPHY & REPROGRAPHICS TOTALS:** \$0.00

## REPRODUCTION

	Xerox Bond	Xerox Mylar	Blackline	Xerox (11"x17")
<b>MEETING PAPERWORK</b>				
	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<b>PLANS</b>				
	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<b>WORKING COPIES:</b>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<b>TOTALS:</b>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<b>UNIT COSTS:</b>	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>
<b>TOTAL COSTS:</b>	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>

	Xerox (8.5"x14")	Exhibits (11" x 17")	Xerox (8.5"x11")
<b>AGENDAS/MINUTES</b>			
	<u>0</u>	<u>0</u>	<u>0</u>
	<u>0</u>	<u>0</u>	<u>0</u>
	<u>0</u>	<u>0</u>	<u>0</u>
	<u>0</u>	<u>0</u>	<u>0</u>
	<u>0</u>	<u>0</u>	<u>0</u>
	<u>0</u>	<u>0</u>	<u>0</u>
	<u>0</u>	<u>0</u>	<u>0</u>
	<u>0</u>	<u>0</u>	<u>0</u>
<b>REPORTS</b>			
	<u>0</u>	<u>0</u>	<u>0</u>
	<u>0</u>	<u>0</u>	<u>0</u>
	<u>0</u>	<u>0</u>	<u>0</u>
	<u>0</u>	<u>0</u>	<u>0</u>
	<u>0</u>	<u>0</u>	<u>0</u>
<b>TOTALS:</b>	<u>0</u>	<u>0</u>	<u>0</u>
<b>UNIT COSTS:</b>	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>
<b>TOTAL COSTS:</b>	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>

**REPRODUCTION TOTALS:** \$0.00

## TRAVEL EXPENSES

<b>TO:</b> <u>Project Site (Field Work)</u>	<b>FROM:</b> <u>Orlando Office</u>
Per Diem: <u>0</u> trips x <u>0</u> people x <u>0</u> days/trip x <u>\$0.00</u> per day = <u>\$0.00</u>	
Personal Vehicle (Field Rvw): <u>2</u> trips x <u>70</u> miles x <u>\$0.445</u> per mile = <u>\$62.30</u>	
Hotel: <u>0</u> trips x <u>0</u> people x <u>0</u> days/trip x <u>\$0.00</u> / room = <u>\$0.00</u>	
Personal Vehicle (UAO Mtgs): <u>0</u> trips x <u>0</u> days/trip x <u>\$0.445</u> per mile = <u>\$0.00</u>	
Airfare: <u>0</u> trips x <u>0</u> people x <u>\$0.00</u> round trip = <u>\$0.00</u>	
<b>TO:</b> <u>CFX Office</u>	<b>FROM:</b> <u>Orlando Office</u>
Per Diem: <u>0</u> trips x <u>0</u> people x <u>0</u> days/trip x <u>\$0.00</u> per day = <u>\$0.00</u>	
Personal Vehicle: <u>0</u> trips x <u>0</u> miles x <u>\$0.445</u> per mile = <u>\$0.00</u>	
Hotel: <u>0</u> trips x <u>0</u> people x <u>0</u> days/trip x <u>\$0.00</u> / room = <u>\$0.00</u>	
Rental Vehicle: <u>0</u> trips x <u>0</u> days/trip x <u>\$0.445</u> daily rate = <u>\$0.00</u>	
Airfare: <u>0</u> trips x <u>0</u> people x <u>\$0.00</u> round trip = <u>\$0.00</u>	
<b>TO:</b> <u>Concessionaire Office</u>	<b>FROM:</b> <u>Orlando Office</u>
Per Diem: <u>0</u> trips x <u>0</u> people x <u>0</u> days/trip x <u>\$0.00</u> per day = <u>\$0.00</u>	
Personal Vehicle: <u>0</u> trips x <u>0</u> miles x <u>\$0.445</u> per mile = <u>\$0.00</u>	
Hotel: <u>0</u> trips x <u>0</u> people x <u>0</u> days/trip x <u>\$0.00</u> / room = <u>\$0.00</u>	
Rental Vehicle: <u>0</u> trips x <u>0</u> days/trip x <u>\$0.445</u> daily rate = <u>\$0.00</u>	
Airfare: <u>0</u> trips x <u>0</u> people x <u>\$0.00</u> round trip = <u>\$0.00</u>	
<b>TO:</b> <u>Miscellaneous Meetings</u>	<b>FROM:</b> <u>Orlando Office</u>
Per Diem: <u>0</u> trips x <u>0</u> people x <u>0</u> days/trip x <u>\$0.00</u> per day = <u>\$0.00</u>	
Personal Vehicle: <u>0</u> trips x <u>0</u> miles x <u>\$0.445</u> per mile = <u>\$0.00</u>	
Hotel: <u>0</u> trips x <u>0</u> people x <u>0</u> days/trip x <u>\$0.00</u> / room = <u>\$0.00</u>	
Rental Vehicle: <u>0</u> trips x <u>0</u> days/trip x <u>\$0.445</u> daily rate = <u>\$0.00</u>	
Airfare: <u>0</u> trips x <u>0</u> people x <u>\$0.00</u> round trip = <u>\$0.00</u>	
<b>SUBTOTAL:</b>	<span style="border: 1px solid black; padding: 2px;">\$62.30</span>

**TOTAL TRAVEL EXPENSES:** \$62.30

## MONTHLY SHIPPING COSTS

Telephone/Facsimile/Shipping/UPS/Fedex: 0 months x \$0.00 = \$0.00

## MISCELLANEOUS

None \$0.00

**TOTAL EXPENSES:** \$62.30

**PROJECT DEVELOPMENT & ENVIRONMENT  
PROJECT DATA**

**ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT**

Name of Project: OSCEOLA PARKWAY EXTENSION CONCEPT, FEASIBILITY & MOBILITY STUDIES  
 County: Orange and Osceola  
 CFX Contract Number: CONTRACT 001248  
 FAP No.: N/A

Consult Name: Media Relations Group, LLC  
 Consult No. enter consultants proj. number  
 Date: 2/22/2017  
 Estimator: Pauline Summers

Staff Classification	Total Staff Hours From "SH" Summary - Firm	Public Information Manager	Public Information Officer	Designer	Staff Classification 1	Staff Classification 1	Staff Classification 1	Staff Classification 1	Staff Classification 1	Staff Classification 1	Staff Classification 1	Staff Classification 1	Staff Classification 1	Staff Classification 1	Staff Classification 1	Staff Classification 1	Staff Classification 1	SH By Activity	Salary Cost By Activity	Average Rate Per Task
Public Involvement	368	37	287	44	0	0	0	0	0	0	0	0	0	0	0	0	0	368	\$38,515	\$104.66
Engineering Analysis & Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Environmental Analysis & Reports	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
<b>Total Staff Hours</b>	<b>368</b>	<b>37</b>	<b>287</b>	<b>44</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>368</b>	<b>\$38,515</b>		
<b>Total Staff Cost</b>		<b>\$10,139.11</b>	<b>\$24,538.50</b>	<b>\$3,837.24</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$38,514.85</b>	<b>\$10,449.54</b>	<b>\$18,964.39</b>

Check: \$38,514.85

SALARY RELATED COSTS:  
 EXPENSES (LS):  
 SUBCONSULTANT TOTAL ESTIMATED FEE:

**CFX Contract Number:** 001248

**Project Description:** OSCEOLA PARKWAY EXTENSION CONCEPT, FEASIBILITY & MOBILITY STUDIES

**Project Limits:** *Osceola Parkway*

## PHOTOGRAPHY & REPROGRAPHICS

### 30" x 40" Mounted Boards:

**22" x 34" Boards:**

**Ground Photography:**

**Color Infrared Photography:**

**board**

board

---

**0**

**rolls**

$$\frac{\theta}{\text{frames}}$$

## REPRODUCTION

Xerox (8.5"x14")	Exhibits (11" x 17")	Xerox (8.5"x11")
---------------------	-------------------------	---------------------

[illegible]

## MEETING PAPERWORK

	* mig ( <i>Alas Mig</i> )	* mig ( <i>Alis Mig</i> )
Signtin Sheets	50	0
Mailed Letters	0	1500
Handouts/Pamphlets	0	3000
Project Binder	200	50
Comments Sheets	0	100
Name Tags	0	20
	0	0
	0	0
TOTALS:	250	1550
UNIT COSTS:	\$1.00	\$1.80
TOTAL COSTS:	\$250.00	\$2,790.00
		* Color Copies

**TRAVEL EXPENSES**

TO: Miscellaneous Meetings			
Per Diem:	0	trips x	0
Personal Vehicle:	16	trips x	50
Hood:	0	trips x	0
Rental Vehicle:	0	trips x	0
Airfare:	0	trips x	0
			people
			miles
			people
			days/trip
			people

**TO: Miscellaneous Meetings**

FROM: Area/Remote Office

<u>\$0.00</u>	per day =	<u>\$0.00</u>
<u>\$0.00</u>	=	<u>\$356.00</u> *1 Alts Public, Miscellaneous Meetings (2 MRG staff)

**SUBTOTAL:**

## UNIT RATES

Item Description	Unit	Unit Price	Quantity	Total
Postage - PO 8.5 x 11 Mailer	Each	\$ 0.38123	4500	\$1,715.54
Postage - FO letters	Each	\$ 0.46	1000	\$460.00
Translation Services (English/Spanish)	Each Word	\$ 0.22	0	\$ 0.00
Court Reporter - Orange Legal	Hours	\$ -	0	\$0.00
Court Reporter - Orange Legal	Hours	\$ -	0	\$0.00
Court Reporter - Orange Legal	Page	\$ -	0	\$0.00
Off-Duty Officer - Osceola County Sheriff's Office	Hour	\$ -	0	\$0.00
Venue	Each	\$ -	0	\$0.00
FAR Aid	Each Word	\$ -	0	\$0.00

**TOTAL UNIT EXPENSES:**

**TOTAL EXPENSES:**



**PROJECT DEVELOPMENT & ENVIRONMENT  
PROJECT DATA**

**ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT**

Name of Project:  
County:  
CFX Contract #:  
FAP No.:

OSCEOLA PARKWAY EXTENSION CONCEPT, FEASIBILITY & MOBILITY STUDIES  
Orange and Osceola  
CONTRACT 001248  
N/A

Consult Name: SEARCH  
Consult No. enter consultants proj. number  
Date: 2/20/2017

Estimator: EIC (SEARCH)

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Project Manager	Chief Archaeologist	Senior Specialist	Specialist	Senior Archaeologist	Archaeologist	GIS Specialist	Secretary/ Clerical	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
Public Involvement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Engineering Analysis & Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Environmental Analysis & Reports	92	14	4	0	12	40	0	10	12	0	0	0	0	92	\$3,285	\$35.71
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
<b>Total Staff Hours</b>	92	14	4	0	12	40	0	10	12	0	0	0	0	92		
<b>Total Staff Cost</b>		\$916.16	\$169.88	\$0.00	\$332.76	\$1,307.60	\$0.00	\$246.90	\$312.00	\$0.00	\$0.00	\$0.00	\$0.00		<b>\$3,285.30</b>	<b>\$35.71</b>

Check: \$3,285.30

**SALARY RELATED COSTS:**

Overhead Rate:

116.05%

Sub-Total:

Profit Margin (LS):

12.00%

Salary Related Total

EXPENSES (LS):

**SUBCONSULTANT TOTAL ESTIMATED FEE:**

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

\$3,285.30  
\$3,812.59  
\$7,097.89  
\$851.75  
\$7,949.64  
\$0.00  
\$7,949.64

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

PROJECT DEVELOPMENT & ENVIRONMENT  
PROJECT DATA

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project:

County:

FPN:

FAP No.:

OSCEOLA PARKWAY EXTENSION CONCEPT, FEASIBILITY & MOBILITY STUDIES

Orange and Osceola

CONTRACT 001248

N/A

Consult Name: Tierra (Subconsultant)

Consult No. 5511-17-003

Date: 2/24/2017

Estimator: JS/MB

Staff Classification	Total Staff Hours From "SH Statement - Firm"	Project Manager	Senior Engineer	Chief Scientist	Senior Project Engineer	Geotechnical Engineer	Engineering Intern	Senior Scientist	Sr. Engineering Technician	Geotechnical Technician	Designer-Computer Technician	Secretary/Clerical	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
Public Involvement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Engineering Analysis & Report	24	1	1	0	2	4	9	0	0	0	5	2	0	24	\$2,837.18	\$118.22
Environmental Analysis & Reports	161	8	0	24	0	0	0	72	40	0	8	9	0	161	\$18,970.57	\$117.83
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
<b>Total Staff Hours</b>	<b>185</b>	<b>9</b>	<b>1</b>	<b>24</b>	<b>2</b>	<b>4</b>	<b>9</b>	<b>72</b>	<b>40</b>	<b>0</b>	<b>13</b>	<b>11</b>	<b>0</b>	<b>185</b>	<b>\$21,807.75</b>	<b>\$117.88</b>
<b>Total Staff Cost</b>		<b>\$1,784.25</b>	<b>\$193.88</b>	<b>\$3,710.88</b>	<b>\$336.44</b>	<b>\$602.68</b>	<b>\$874.08</b>	<b>\$8,786.88</b>	<b>\$3,445.20</b>	<b>\$0.00</b>	<b>\$1,256.71</b>	<b>\$816.75</b>	<b>\$0.00</b>		<b>\$21,807.75</b>	

Check \$21,807.75

SALARY RELATED COSTS:

OVERHEAD:

OPERATING MARGIN:

FCCM (Facilities Capital Cost Money):

EXPENSES:

SALARY RELATED SUBTOTAL:

Contamination ODCs

SUBTOTAL - SUBCONSULTANT

Optional Services

SUBCONSULTANT TOTAL ESTIMATED FEE:

Note:

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

\$21,807.75  
\$0.00  
\$0.00  
\$0.00  
\$0.00  
\$21,807.75  
\$1,000.00  
\$22,807.75  
\$0.00  
\$22,807.75

Item Description	Unit	Unit Price	Quantity	Total
<b>Geotechnical Field Investigation</b>				
612-Geo Mobilization Drill Rig Truck Mount	Each	\$ 350.00		\$ -
614-Geo Mobilization Mudbug/All Terrain Vehicle	Each	\$ 700.00		\$ -
610-Geo Mobilization Drill Rig Track Mount	Each	\$ 3,250.00		\$ -
418-Geo Drill Crew Support Vehicle	Day	\$ 160.00		\$ -
450-Geo Piezometer 2" 000-050 Ft	LF	\$ 44.00		\$ -
445-Geo Grouted Monitor Well 2" 000-050 Ft	LF	\$ 6.25		\$ -
Drilling Permit Costs IE DEP	Each	\$ 250.00		\$ -
434-Geo Ground Penetrating Radar (GPR)	Day	\$ 2,800.00		\$ -
<b>Contamination Test Units</b>				
850-EDR Report	Each	\$ 500.00	2	\$ 1,000.00
852-Organic Vapor Analyzer (OVA)	Day	\$ 150.00		\$ -
854-Handheld GPS	Per Day	\$ 80.34		\$ -
856-Field Sampling Kit (soil)	Each	\$ 75.00		\$ -
858-Field Sampling Survey Kit (water)	Each	\$ 75.00		\$ -
860-Power Auger Boring (includes decontamination to a depth of 25 feet)	Foot	\$ 11.90		\$ -
862-BTEX and MTBE (Method 8260)	Each	\$ 65.00		\$ -
864-Organochlorine Pesticides (Method 8081)	Each	\$ 100.00		\$ -
866-Organophosphorous Pesticides (Method 8141)	Each	\$ 125.00		\$ -
868-Chlorinated Herbicides (Method 8151)	Each	\$ 100.00		\$ -
870-Volatile Organics (Method 8260)	Each	\$ 95.00		\$ -
872-Volatile Organics BTEX/MTBE(Method 8260)	Each	\$ 60.00		\$ -
874-Semi-Volatiles (Method 8270)	Each	\$ 200.00		\$ -
876-Polyaromatic Hydrocarbons (Method 8270)	Each	\$ 100.00		\$ -
878-TPH Method FL-Pro	Each	\$ 65.00		\$ -
880-RCRA 8 Metals (Method 6010/7471)	Each	\$ 65.00		\$ -
882-RCRA Metals Individual (Method 6010/7471)	Each	\$ 9.00		\$ -
884-Mercury Individual (Method 6010/7471)	Each	\$ 25.00		\$ -
886-Ultr Low Trace Mercury GW Individual (Method 1631)	Each	\$ 75.00		\$ -
888-Arsenic (Method 6010/7471)	Each	\$ 9.00		\$ -
890-SPLP/TCLP Metals	Each	\$ 198.00		\$ -
892-Asbestos Samples	Each	\$ 15.00		\$ -
894-Polychlorinated Biphenals (8082)	Each	\$ 75.00		\$ -
<b>Engineering and Technical Support Services</b>				
Project Manager	Hour	\$ 198.25	8	\$ 1,586.00
Senior Engineer	Hour	\$ 193.88		\$ -
Chief Scientist	Hour	\$ 154.62	24	\$ 3,710.88
Senior Project Engineer	Hour	\$ 168.22		\$ -
Geotechnical Engineer	Hour	\$ 150.67		\$ -
Engineering Intern	Hour	\$ 97.12		\$ -
Senior Scientist	Hour	\$ 122.04	72	\$ 8,786.88
Sr Engineering Technician	Hour	\$ 86.13	40	\$ 3,445.20
Geotechnical Technician	Hour	\$ 69.74		\$ -
Designer-Computer Technician	Hour	\$ 96.67	8	\$ 773.36
Secretary/Clerical	Hour	\$ 74.25	9	\$ 668.25
<b>Total Estimated Fee</b>				<b>\$ 19,970.57</b>

Item Description	Unit	Unit Price	Quantity	Total
<b>Geotechnical Field Investigation</b>				
612-Geo Mobilization Drill Rig Truck Mount	Each	\$ 350.00		\$ -
614-Geo Mobilization Mudbug/All Terrain Vehicle	Each	\$ 700.00		\$ -
610-Geo Mobilization Drill Rig Track Mount	Each	\$ 3,250.00		\$ -
418-Geo Drill Crew Support Vehicle	Day	\$ 160.00		\$ -
609-Geo Mobilization Drill Rig Barge Mount	Each	\$ 7,500.00		\$ -
405-Geo Barge (Owned)	Day	\$ 2,500.00		\$ -
618-Geo Mobilization Support Boat	Each	\$ 500.00		\$ -
618.1-Geo Support Safety Boat	Day	\$ 500.00		\$ -
619-Geo Mobilization Tri-Pod	Each	\$ 1,250.00		\$ -
419-Geo Drilling Crew 2-Person	Hour	\$ 135.00		\$ -
420-Geo Drilling Crew 3-Person	Hour	\$ 185.00		\$ -
Geo SPT Truck 0-50 Ft	LF	\$ 12.90		\$ -
Geo SPT Truck 50-100 Ft	LF	\$ 17.00		\$ -
Geo SPT Truck 100-150 Ft	LF	\$ 31.00		\$ -
Geo SPT Truck 150-200 Ft	LF	\$ 39.00		\$ -
478-Geo SPT Truck-Mud Bug 0-50 Ft	LF	\$ 15.20		\$ -
479-Geo SPT Truck-Mud Bug 50-100 Ft	LF	\$ 18.10		\$ -
480-Geo SPT Truck-Mud Bug 100-150 Ft	LF	\$ 32.00		\$ -
481-Geo SPT Truck-Mud Bug 150-200 Ft	LF	\$ 42.00		\$ -
473-Geo SPT Barge/Track/Amphibious 000-050 Ft	LF	\$ 21.50		\$ -
474-Geo SPT Barge/Track/Amphibious 050-100 Ft	LF	\$ 28.90		\$ -
475-Geo SPT Barge/Track/Amphibious 100-150 Ft	LF	\$ 53.00		\$ -
476-Geo SPT Barge/Track/Amphibious 150-200 Ft	LF	\$ 70.00		\$ -
Geo Grout Boreholes- Truck 0-050 Ft	LF	\$ 5.25		\$ -
Geo Grout Boreholes- Truck 50-100 Ft	LF	\$ 7.00		\$ -
Geo Grout Boreholes- Truck 100-150 Ft	LF	\$ 10.25		\$ -
Geo Grout Boreholes- Truck 150-200 Ft	LF	\$ 14.00		\$ -
440-Geo Grout Boreholes- Truck/Mud Bug 000-050 Ft	LF	\$ 6.25		\$ -
441-Geo Grout Boreholes- Truck/Mud Bug 050-100 Ft	LF	\$ 8.00		\$ -
442-Geo Grout Boreholes- Truck/Mud Bug 100-150 Ft	LF	\$ 13.10		\$ -
443-Geo Grout Boreholes- Truck/Mud Bug 150-200 Ft	LF	\$ 18.00		\$ -
435-Geo Grout Boreholes- Barge/Track/Amphibious 000-050 Ft	LF	\$ 8.50		\$ -
436-Geo Grout Boreholes- Barge/Track/Amphibious 050-100 Ft	LF	\$ 11.25		\$ -
437-Geo Grout Boreholes- Barge/Track/Amphibious 100-150 Ft	LF	\$ 17.25		\$ -
438-Geo Grout Boreholes- Barge/Track/Amphibious 150-200 Ft	LF	\$ 25.00		\$ -
Geo Temp Casing 3" Truck 0-050 Ft	LF	\$ 8.50		\$ -
Geo Temp Casing 3" Truck 50-100 Ft	LF	\$ 10.25		\$ -
Geo Temp Casing 3" Truck 100-150 Ft	LF	\$ 12.25		\$ -
Geo Temp Casing 3" Truck 150-200 Ft	LF	\$ 15.00		\$ -



Item Description	Unit	Unit Price	Quantity	Total
488-Geo Temp Casing 3" Truck/Mud Bug 000-050 Ft	LF	\$ 10.30		\$ -
489-Geo Temp Casing 3" Truck/Mud Bug 050-100 Ft	LF	\$ 14.00		\$ -
490-Geo Temp Casing 3" Truck/Mud Bug 100-150 Ft	LF	\$ 17.50		\$ -
491-Geo Temp Casing 3" Truck/Mud Bug 150-200 Ft	LF	\$ 22.00		\$ -
483-Geo Temp Casing 3" Barge/Track/Amphibious 0-050 Ft	LF	\$ 14.50		\$ -
484-Geo Temp Casing 3" Barge/Track/Amphibious 50-100 Ft	LF	\$ 17.50		\$ -
485-Geo Temp Casing 3" Barge/Track/Amphibious 100-150 Ft	LF	\$ 20.00		\$ -
486-Geo Temp Casing 3" Barge/Track/Amphibious 150-200 Ft	LF	\$ 25.00		\$ -
463-Geo Rock Coring Truck/Mud Bug 000-050 Ft less than 4" ID	LF	\$ 45.00		\$ -
465-Geo Rock Coring Truck/Mud Bug 050-100 Ft less than 4" ID	LF	\$ 52.00		\$ -
467-Geo Rock Coring Truck/Mud Bug 100-150 Ft less than 4" ID	LF	\$ 60.00		\$ -
453-Geo Rock Coring Barge/Track/Amphibious 000-050 Ft less than 4" ID	LF	\$ 48.00		\$ -
455-Geo Rock Coring Barge/Track/Amphibious 050-100 Ft less than 4" ID	LF	\$ 64.00		\$ -
457-Geo Rock Coring Barge/Track/Amphibious 100-150 Ft less than 4" ID	LF	\$ 80.00		\$ -
459-Geo Rock Coring Barge/Track/Amphibious 150-200 Ft less than 4" ID	LF	\$ 94.00		\$ -
427-Geo Extra SPT Samples-Truck/Mud Bug 000-050 Ft	Each	\$ 71.00		\$ -
428-Geo Extra SPT Samples-Truck/Mud Bug 050-100 Ft	Each	\$ 71.00		\$ -
429-Geo Extra SPT Samples-Truck/Mud Bug 100-150 Ft	Each	\$ 85.00		\$ -
430-Geo Extra SPT Samples-Truck/Mud Bug 150-200 Ft	Each	\$ 85.00		\$ -
422-Geo Extra SPT Samples-Barge/Track/Amphibious 000-050 Ft	Each	\$ 71.00		\$ -
423-Geo Extra SPT Samples-Barge/Track/Amphibious 050-100 Ft	Each	\$ 71.00		\$ -
424-Geo Extra SPT Samples-Barge/Track/Amphibious 100-150 Ft	Each	\$ 85.00		\$ -
425-Geo Extra SPT Samples-Barge/Track/Amphibious 150-200 Ft	Each	\$ 85.00		\$ -
519-Geo Undisturbed Samples Truck/Mud Bug 000-050 Ft	Each	\$ 200.00		\$ -
520-Geo Undisturbed Samples Truck/Mud Bug 050-100 Ft	Each	\$ 200.00		\$ -
521-Geo Undisturbed Samples Truck/Mud Bug 100-150 Ft	Each	\$ 200.00		\$ -
522-Geo Undisturbed Samples Truck/Mud Bug 150-200 Ft	Each	\$ 200.00		\$ -
515-Geo Undisturbed Samples Barge/Track/Amphibious 000-050 Ft	Each	\$ 200.00		\$ -
516-Geo Undisturbed Samples Barge/Track/Amphibious 050-100 Ft	Each	\$ 200.00		\$ -
517-Geo Undisturbed Samples Barge/Track/Amphibious 100-150 Ft	Each	\$ 200.00		\$ -
518-Geo Undisturbed Samples Barge/Track/Amphibious 150-200 Ft	Each	\$ 200.00		\$ -
401-Geo Auger Borings- Hand & Truck/Mud Bug	LF	\$ 10.50		\$ -
402-Geo Auger Borings- Track	LF	\$ 12.00		\$ -
432-Geo Field Permeability 0-10 Ft (Open - End Borehole Method)	Each	\$ 290.00		\$ -
Flagman and Barricades 2-Man Crew Own Equipment	Day	\$ 1,080.00		\$ -
Muck Probing Unsuitable Soils 2-Man Crew	Day	\$ 1,080.00		\$ -
450-Geo Piezometer 2" 000-050 Ft	LF	\$ 44.00		\$ -
445-Geo Grouted Monitor Well 2" 000-050 Ft	LF	\$ 6.25		\$ -
Drilling Permit Costs IE DEP	Each	\$ 250.00		\$ -
403-Geo Backhoe (Owned)	Day	\$ 600.00		\$ -
416-Geo Dozer (Owned)	Day	\$ 800.00		\$ -
Site Clearing to Access Boring or Test Locations	Hour	\$ 210.00		\$ -
407-Geo Chainsaw (Owned)	Day	\$ 28.00		\$ -

Item Description	Unit	Unit Price	Quantity	Total
415-Geo Double Ring Infiltration (ASTM D3385)	Each	\$ 525.00		\$ -
434-Geo Ground Penetrating Radar (GPR)	Day	\$ 2,800.00		\$ -
<b>Asphalt and Concrete Pavement Coring</b>				
209-Asphalt Pavement Coring – 4" dia with Base Depth Check	Each	\$ 125.00		\$ -
210-Asphalt Pavement Coring – 4" dia without Base Depth Check	Each	\$ 110.00		\$ -
211-Asphalt Pavement Coring – 6" dia with Base Depth Check	Each	\$ 125.00		\$ -
212-Asphalt Pavement Coring – 6" dia without Base Depth Check	Each	\$ 110.00		\$ -
305-Concrete Pavement Coring - 4" Dia	Each	\$ 110.00		\$ -
306-Concrete Pavement Coring - 6" Dia	Each	\$ 110.00		\$ -
603-Mobilization Asphalt Coring equipment	Each	\$ 250.00		\$ -
606-Mobilization Concrete Coring	Each	\$ 250.00		\$ -
<b>Geotechnical Soil Laboratory Testing</b>				
812-Soils Materials Finer than 200 Sieve (FM 1-T011)	Test	\$ 42.00		\$ -
817-Soils Moisture Content Laboratory (AASHTO T 265)	Test	\$ 10.00		\$ -
821-Soils Particle Size Analysis (AASHTO T 88) (Including Hydrometer)	Test	\$ 131.00		\$ -
822-Soils Particle Size Analysis (AASHTO T 88) (No Hydrometer)	Test	\$ 67.00		\$ -
805-Soils Corrosion Series (FM 5-550 through 5-553)	Test	\$ 175.00		\$ -
825-Soils pH Soil or Water (FM 5-550)	Test	\$ 35.00		\$ -
829-Soils Resistivity Soil or Water (FM 5-551)	Test	\$ 46.00		\$ -
800-Soils Chloride Soil or Water (FM 5-552)	Test	\$ 46.00		\$ -
833-Soils Sulfate Soil or Water (FM 5-553)	Test	\$ 48.00		\$ -
819-Soils Organic Content Ignition (FM 1 T-267)	Test	\$ 42.00		\$ -
Atterberg Limit Tests (AASHTO T-89 and T-90) Combined	Test	\$ 130.00		\$ -
826-Soils Plastic Limit & Plasticity Index (AASHTO T 90)	Test	\$ 70.00		\$ -
811-Soils Liquid Limit (AASHTO T 89)	Test	\$ 60.00		\$ -
823-Soils Permeability Constant Head (AASHTO T 215)	Test	\$ 175.00		\$ -
824-Soils Permeability Falling Head (FM 5-513)	Test	\$ 175.00		\$ -
827-Soils Proctor Modified (FM 1-T 180)	Test	\$ 115.00		\$ -
828-Soils Proctor Standard (AASHTO T 99)	Test	\$ 111.00		\$ -
832-Soils Splitting Tensile Strength of Rock Cores (ASTM D3967)	Test	\$ 138.00		\$ -
838-Soils Unconfined Compression - Rock (ASTM D7012, Method C)	Test	\$ 138.00		\$ -
803-Soils Consolidation - Constant Strain (ASTM D4186)	Test	\$ 580.00		\$ -
804-Soils Consolidation - Extended Load Increments (AASHTO T216)	Each	\$ 50.00		\$ -
806-Soils Direct Shear Consolidated Drained/ Point AASHTO T 236	Test	\$ 250.00		\$ -
810-Soils Limerock Bearing Ratio (LBR)(FM 5-515)	Test	\$ 340.00		\$ -



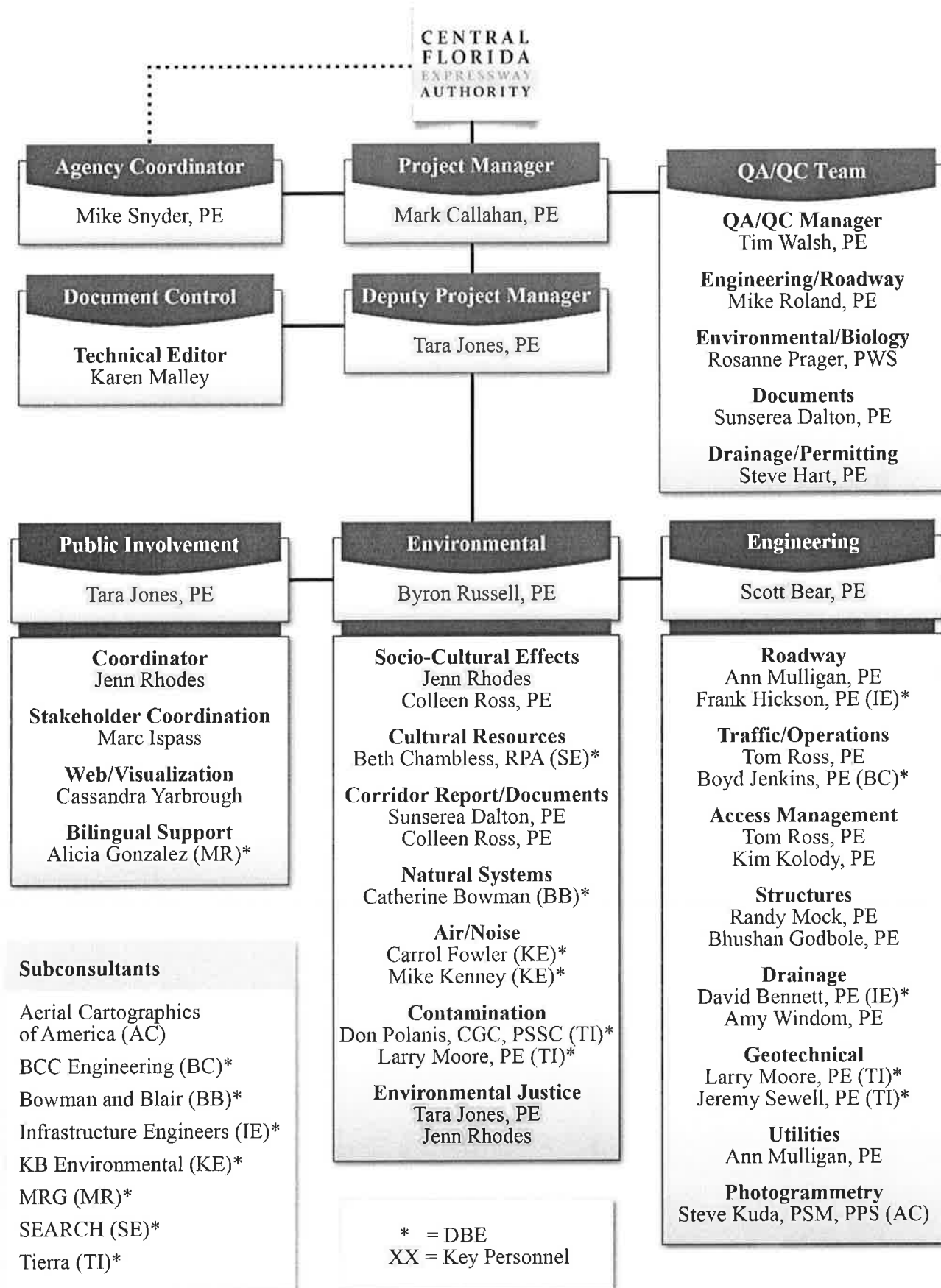
Item Description	Unit	Unit Price	Quantity	Total
<b>Contamination Test Units</b>				
850-EDR Report	Each	\$ 500.00		\$ -
852-Organic Vapor Analyzer (OVA)	Day	\$ 150.00		\$ -
854-Handheld GPS	Per Day	\$ 80.34		\$ -
856-Field Sampling Kit (soil)	Each	\$ 75.00		\$ -
858-Field Sampling Survey Kit (water)	Each	\$ 75.00		\$ -
860-Power Auger Boring (includes decontamination to a depth of 25 feet)	Foot	\$ 11.90		\$ -
862-BTEX and MTBE (Method 8260)	Each	\$ 65.00		\$ -
864-Organochlorine Pesticides (Method 8081)	Each	\$ 100.00		\$ -
866-Organophosphorous Pesticides (Method 8141)	Each	\$ 125.00		\$ -
868-Chlorinated Herbicides (Method 8151)	Each	\$ 100.00		\$ -
870-Volatile Organics (Method 8260)	Each	\$ 95.00		\$ -
872-Volatile Organics BTEX/MTBE(Method 8260)	Each	\$ 60.00		\$ -
874-Semi-Volatiles (Method 8270)	Each	\$ 200.00		\$ -
876-Polyaromatic Hydrocarbons (Method 8270)	Each	\$ 100.00		\$ -
878-TPH Method FL-Pro	Each	\$ 65.00		\$ -
880-RCRA 8 Metals (Method 6010/7471)	Each	\$ 65.00		\$ -
882-RCRA Metals Individual (Method 6010/7471)	Each	\$ 9.00		\$ -
884-Mercury Individual (Method 6010/7471)	Each	\$ 25.00		\$ -
886-Ultr Low Trace Mercury GW Individual (Method 1631)	Each	\$ 75.00		\$ -
888-Arsenic (Method 6010/7471)	Each	\$ 9.00		\$ -
890-SPLP/TCLP Metals	Each	\$ 198.00		\$ -
892-Asbestos Samples	Each	\$ 15.00		\$ -
894-Polychlorinated Biphenals (8082)	Each	\$ 75.00		\$ -
<b>Engineering and Technical Support Services</b>				
Project Manager	Hour	\$ 198.25	1	\$ 198.25
Senior Engineer	Hour	\$ 193.88	1	\$ 193.88
Chief Scientist	Hour	\$ 154.62		\$ -
Senior Project Engineer	Hour	\$ 168.22	2	\$ 336.44
Geotechnical Engineer	Hour	\$ 150.67	4	\$ 602.68
Engineering Intern	Hour	\$ 97.12	9	\$ 874.08
Senior Scientist	Hour	\$ 122.04		\$ -
Sr Engineering Technician	Hour	\$ 86.13		\$ -
Geotechnical Technician	Hour	\$ 69.74		\$ -
Designer-Computer Technician	Hour	\$ 96.67	5	\$ 483.35
Secretary/Clerical	Hour	\$ 74.25	2	\$ 148.50
<b>Total Estimated Fee</b>				<b>\$ 2,837.18</b>

## **EXHIBIT D**

### **PROJECT ORGANIZATIONAL CHART**

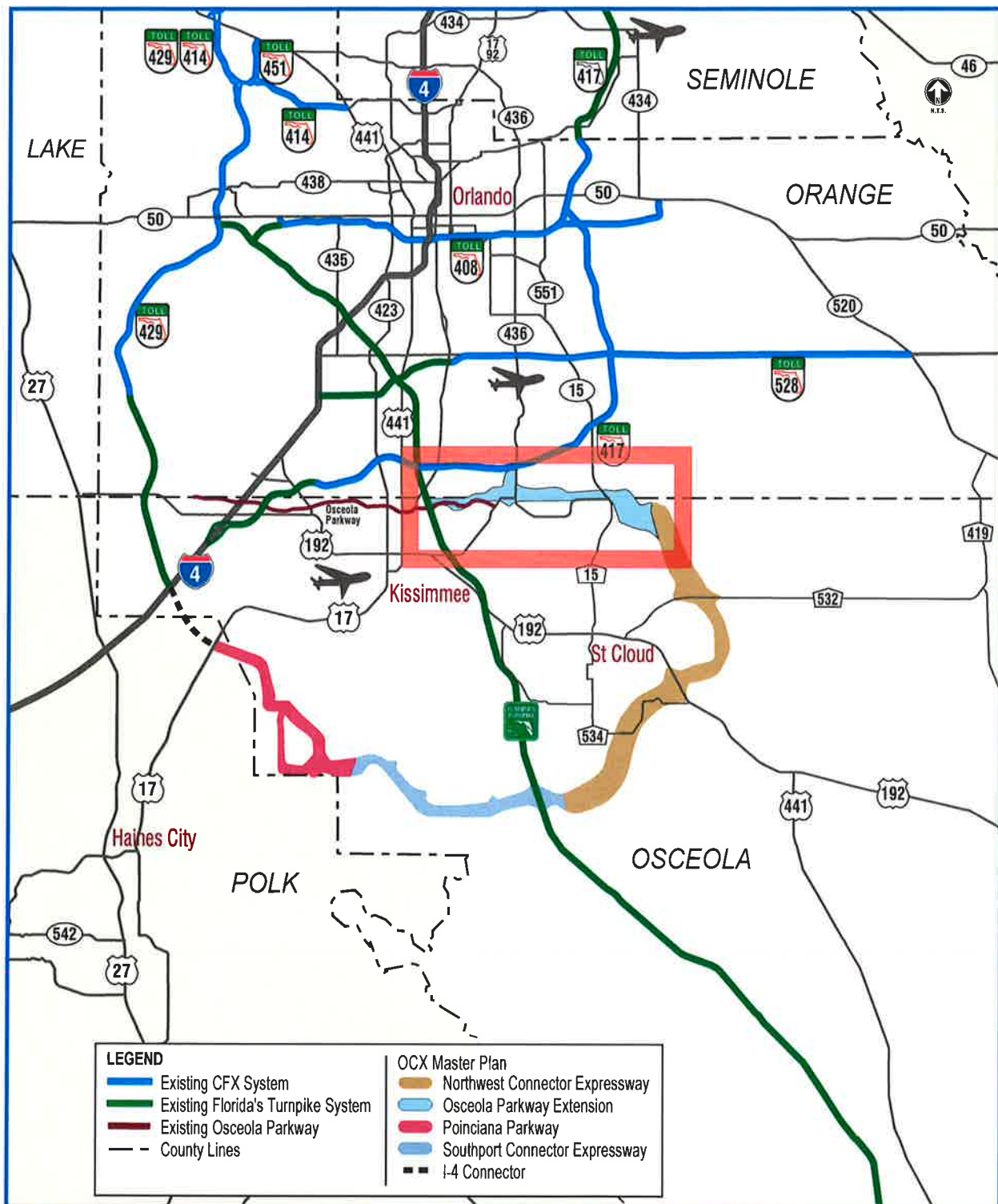


## B. Project Organization Chart



## **EXHIBIT E**

### **PROJECT LOCATION MAP**



**CENTRAL  
FLORIDA  
EXPRESSWAY  
AUTHORITY**

## Project Location Map for Osceola Parkway Extension (599-221)

**EXHIBIT F**

**SCHEDULE**

**PROPOSED SCHEDULE - CONCEPT, FEASIBILITY, & MOBILITY STUDIES  
OF THE OSCEOLA COUNTY EXPRESSWAY AUTHORITY MASTER PLAN PROJECTS**

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