

PINELLAS COUNTY GOVERNMENT IS COMMITTED TO PROGRESSIVE PUBLIC POLICY, SUPERIOR PUBLIC SERVICE, COURTEOUS PUBLIC CONTACT, JUDICIOUS EXERCISE OF AUTHORITY AND SOUND MANAGEMENT OF PUBLIC RESOURCES, TO MEET THE NEEDS AND CONCERNS OF OUR CITIZENS TODAY AND TOMORROW.



NON-CONTINUING PROFESSIONAL SERVICES AGREEMENT

**RFP TITLE: Forest Lakes Boulevard Phase III from SR 580 to Tampa Road
Professional Engineering Services**

RFP CONTRACT NO. 21-0004-NC (SS)

COUNTY PID NO. 003914A

NON-CONTINUING FIRM: WSP USA, Inc.

**PROFESSIONAL ENGINEERING SERVICES NON-CONTINUING SERVICES
AGREEMENT
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**SECTION 1
INTENT OF AGREEMENT**

**AGREEMENT FOR PROFESSIONAL ENGINEERING SERVICES FOR
Forest Lakes Boulevard Phase III from SR 580 to Tampa Road – Professional Engineering Services**

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

WITNESSETH, That:

WHEREAS, Pinellas County, herein referred to as the COUNTY, requires **PROFESSIONAL ENGINEERING SERVICES** associated with support to develop plans and specifications and perform all other professional engineering services as may be required for the construction of the proposed widening of Forest Lakes Boulevard from SR 580 to Tampa Road (SR 584). The improvements are necessary in order to maintain Forest Lakes Boulevard as a safe and efficient transportation facility.

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

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

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

SECTION 2 SCOPE OF PROJECT

2.1 PROJECT DESCRIPTION AND PROFESSIONAL REQUIREMENTS

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

All necessary data including, but not limited to, crash history, traffic data for traffic analysis, drainage considerations, right-of-way considerations, utility considerations, and all required permits shall be obtained by the engineering consultant. Plans shall be prepared in accordance with Civil 3D Pinellas County Requirements. Exhibit A, Scope of Services is attached.

a) Required Deliverables

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

2.2 PROJECT PHASES

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

2.3 CONSULTING RESPONSIBILITIES

- A. It is the intention of the COUNTY that the CONSULTANT is held accountable for its work, including checking and review of plans, and that submittals are complete.
- B. The CONSULTANT shall be responsible for the accuracy of the work and shall promptly correct its errors and omissions without additional compensation. Acceptance of the work by the COUNTY will not relieve the CONSULTANT of the responsibility for subsequent correction of any errors and the clarification of any ambiguities.
- C. The CONSULTANT represents that it has secured or will secure, at its own expense, all personnel necessary to complete this Agreement; none of whom shall be employees of or have any contractual relationship with the COUNTY. Primary liaison with the COUNTY will be through the CONSULTANT'S Project Manager. All of the services required hereunder will be performed by the CONSULTANT or under the CONSULTANT'S supervision, and all personnel engaged in the work shall be fully qualified and shall be authorized or permitted under law to perform such services.
- D. The CONSULTANT shall endorse all reports, calculations, contract plans, and survey data. Services shall be prepared under the direction of an engineer registered in the State of Florida and qualified in the required discipline. Products or services performed or checked shall be signed and sealed by the CONSULTANT'S Florida registered engineer.

- E. The CONSULTANT shall be responsible for the preparation of a PROJECT design schedule, prepared in Microsoft Project 2013 or later, which shows a breakdown of all tasks to be performed, and their relationship in achieving the completion of each phase of work. A bar chart schedule showing overall PROJECT time frames should also be prepared. These schedules must be submitted for COUNTY approval within ten (10) days of the initial PROJECT Notice to Proceed. These schedules will be used to verify CONSULTANT performance in relationship to Fees claimed and to allow the COUNTY'S Project Manager to monitor the CONSULTANT'S efforts. The CONSULTANT shall be responsible for any updates to these schedules and for documenting in writing to the COUNTY any major deviations in the actual versus estimated PROJECT time frames.
- F. The CONSULTANT shall respond, in writing, to all review comments made by the COUNTY, and shall incorporate appropriate design adjustments into the PROJECT, in a timely manner, resulting from the review exchange.

2.4 GENERAL DESIGN CONDITIONS

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

2.4.2 All design data, plans, and drawings shall be delivered electronically and or on travel drives formatted to .DXF or .DWG utilizing Civil 3D 2012 or later; as well as providing reproducible hard copies of plans and drawings. All specification and other documents shall be delivered electronically and or on two travel drives, Microsoft Word & Excel format as required, as well as the reproducible hard copies.

2.4.3 One (1) original electronic copy of all deliverables is required unless specific submittal requirements are specified elsewhere in this Agreement.

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

2.5 GOVERNING SPECIFICATIONS REGULATIONS AND PERTINENT DOCUMENTS

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

2.5.1 E-Verify. The Contractor and Subcontractor must register with and use the E-verify system in accordance with Florida Statute 448.095. A Contractor and Subcontractor may not enter into a contract with the County unless each party registers with and uses the E-verify system.

If a Contractor enters a contract with a Subcontractor, the Subcontractor must provide the Contractor with an affidavit stating that the Subcontractor does not employ, contract with, or subcontract with unauthorized aliens. The Contractor must maintain a copy of the affidavit for the duration of the contract.

If the County, Contractor, or Subcontract has a good faith belief that a person or entity with which it is contracting has knowingly violated Florida Statute 448.09(1) shall immediately terminate the contract with the person or entity.

If the County has a good faith belief that a Subcontractor knowingly violated this provision, but the Contractor otherwise complied with this provision, the County will notify the Contractor and order that the Contractor immediately terminate the contract with the Subcontractor.

A contract terminated under the provisions of this section is not a breach of contract and may not be considered as such. Any contract termination under the provisions of this section may be challenged to Section 448.095(2)(d), Florida Statute. Contractor acknowledges upon termination of this agreement by the County for violation of this section by Contractor, Contractor may not be awarded a public contract for at least one (1) year.

Contractor acknowledges that Contractor is liable for any additional costs incurred by the County as a result of termination of any contract for a violation of this section.

Contractor or Subcontractor shall insert in any subcontracts the clauses set forth in this section, requiring the subcontracts to include these clauses in any lower tier subcontracts. Contractor shall be responsible for compliance by any Subcontractor or Lower Tier Subcontractor with the clause set for in this section.

Qualified Personnel. Contractor agrees that each person performing Services in connection with this Agreement shall have the qualifications and shall fulfill the requirements set forth in this Agreement.

SECTION 3 SERVICES TO BE FURNISHED BY THE CONSULTANT

3.1 SEE EXHIBIT A – SCOPE OF SERVICES.

3.2 BIDDING PHASE

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

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

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

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

3.3 CONSTRUCTION PHASE

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

A. Construction Consultation Services

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

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

21. The Contractor shall have prime responsibility in the warranty period for all services herein. The CONSULTANT shall assist, consult, observe review and document as noted.

3.4 PROVISIONS RELATED TO ALL PHASES

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

3.4.2 The CONSULTANT will coordinate work designed by various disciplines.

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

- a. Five (5) copies of the design notes and computations shall be submitted to the COUNTY with the design development review plans. When the plans are submitted for final review, the design notes and computations corrected for any COUNTY comments shall be resubmitted. At the PROJECT completion, a final set of the design notes and computations, properly endorsed by the CONSULTANT, shall be submitted with the record set of plans and tracings.
- b. The design notes and calculations shall include, but not be limited to, the following data:
 - 1) Design criteria used for the PROJECT.
 - 2) Roadway geometric calculations
 - 3) Structural calculations.
 - 4) Drainage calculations.
 - 5) Traffic design calculations
 - 6) Traffic control calculations
 - 7) Calculations as required by provisions of the Florida Energy Conservation Manual (Department of General Services), latest revision.
 - 8) Calculations showing probable cost comparisons of various alternatives considered.
 - 9) Documentation of decisions reached resulting from meetings, telephone conversations or site visits.
 - 10) Other PROJECT-related correspondences as appropriate.

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

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

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

3.4.7 Other CONSULTANT responsibilities shall be as listed below:

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

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

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

3.5 PERMIT APPLICATIONS AND APPROVALS

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

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

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

3.6 COORDINATION WITH UTILITY SERVICES AND AFFECTED PUBLIC AGENCIES

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

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

SECTION 4 SERVICES TO BE FURNISHED BY THE COUNTY

- 4.1 The COUNTY shall provide the following for the CONSULTANT'S use and guidance:
- A. Copies of existing maps, existing aerial photographs, as-built construction plans and data pertinent to the PROJECT design, which the COUNTY may have in its possession.
 - B. Reproduces of the COUNTY Engineering Department Standard Drawings applicable to the PROJECT.
 - C. Sample copies of the COUNTY standard contract documents and specifications.
 - D. Preparation of legal (front-end) section of the specifications.
 - E. Part E- Other Services in Exhibit A.

SECTION 5 PRESENTATIONS, PUBLIC MEETINGS AND TECHNICAL LIAISON

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

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

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

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

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

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

SECTION 6 PAYMENT GUIDELINES AND CATEGORY OF SERVICES

6.1 BASIC SERVICES

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

6.2 OPTIONAL SERVICES

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

6.3 CONTINGENCY SERVICES

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

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

6.4 ADDITIONAL SERVICES

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

6.5 INVOICING

The CONSULTANT may submit invoices for fees earned on a monthly basis. Such invoicing shall be supported by a Progress Report showing the actual tasks performed and their relationship to the percentage of fee claimed for each phase. Billings within each phase of work shall be for the percentage of work effort completed to date for that phase. The COUNTY shall make payments to the CONSULTANT for work performed in accordance with the Local Government Prompt Payment Act, Section 218.70 et. seq., F.S.

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

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

G. Printing and Binding Services.

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

All progress reports shall be mailed to the attention of the designated Project Manager, John A. Carpenter, PE, 14 South Fort Harrison Avenue, Clearwater, FL33756.

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

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

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

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

**SECTION 7
COMPENSATION TO THE CONSULTANT**

7.1 For the BASIC SERVICES provided for in this Agreement, as defined in Section 3.1, the COUNTY agrees to pay the CONSULTANT as follows:

A Lump Sum Fee of: Twenty-four thousand nine hundred and sixteen (\$24,916.00) for the Task 1 – General Task.

A Lump Sum Fee of: Thirty-three thousand six hundred sixty-three (\$33,663.00) for the Task 2 – Public Involvement.

A Lump Sum Fee of: Two hundred sixty-six thousand three hundred forty-two and thirty-five cents (\$266,342.35) for the Task 3 –Engineering Analysis and Reports.

A Lump Sum Fee of: Thirty-four thousand forty-two and thirty-six cents (\$34,042.36) for the Task 4 –Environmental Analysis and Reports.

The above fees shall constitute the total not to exceed amount of **(\$358,963.71)** to the CONSULTANT for the performance of Basic Services. All man hours are billed per the established and agreed hourly rates. The hourly rates are fully loaded and include all labor, overhead, expenses and profit of any nature including travel within the Tampa Bay Metropolitan Statistical area. Travel outside of the Tampa Bay Metropolitan Statistical Area will be reimbursed in accordance with Section 112.061 F.S. and/or the County Travel Policy, as approved by the County.

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

A Lump Sum Fee of: One hundred thousand (\$100,000.00) for the Task 7.2 of the PROJECT.

7.3 For any CONTINGENCY SERVICES performed, the COUNTY agrees to pay the CONSULTANT, a negotiated fee based on the assignment, up to a maximum amount not to exceed (\$100,000.00) for all assignments performed.

7.4 Total agreement not-to-exceed amount Four hundred fifty-eight thousand nine hundred sixty-three and seventy-one cents (**\$458,963.71**).

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

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

SECTION 8 PERFORMANCE SCHEDULE

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

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

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

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

SECTION 9 AUTHORIZATION FOR CONTINGENT OR ADDITIONAL SERVICES

9.1 The CONTINGENCY services provided for under this Agreement shall be performed only upon prior written authorization from the Director of Public Works or designee.

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

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

SECTION 10 FIRMS AND INDIVIDUALS PROVIDING SUBCONSULTING SERVICES

The COUNTY reserves the right to review the qualifications of any and all subconsultants, and to reject any subconsultant in a proper and timely manner, deemed not qualified to perform the services for which it shall have been engaged. Any subconsultant not listed as part of the prime consultants team at time of award must be approved by the Director of Purchasing prior to performing any service.

SECTION 11 SATISFACTORY PERFORMANCE

All services to be provided by the CONSULTANT under the provisions of this Agreement, including services to be provided by subconsultants, shall be performed to the reasonable satisfaction of the COUNTY'S Director of Public Works or designee.

SECTION 12 RESOLUTION OF DISAGREEMENTS

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

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

SECTION 13 CONSULTANT'S ACCOUNTING RECORDS

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

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

13.3 For the purpose of such audits, inspections, examinations and evaluations, the COUNTY'S agent or authorized representative shall have access to said records from the effective date of the Agreement, for the duration of work, and until five (5) years after the date of final payment by the COUNTY to the CONSULTANT pursuant to this Agreement.

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

SECTION 14 OWNERSHIP OF PROJECT DOCUMENTS

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

SECTION 15 INSURANCE COVERAGE AND INDEMNIFICATION

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

15.2 If the CONSULTANT is an individual or entity licensed by the state of Florida who holds a current certificate of registration under Chapter 481, Florida Statutes, to practice architecture or landscape architecture,

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

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

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

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

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

**SECTION 18
PROHIBITION AGAINST CONTINGENT FEE**

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

**SECTION 19
TRUTH IN NEGOTIATIONS**

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

**SECTION 20
SUCCESSORS AND ASSIGNS**

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

**SECTION 21
INTEREST ON JUDGMENTS**

In the event of any disputes between the parties to this Agreement, including without limitation thereto, their assignees and/or assigns, arising out of or relating in any way to this Agreement, which results in litigation and a subsequent judgment, award or decree against either party, it is agreed that any entitlement to post judgment

interest, to either party and/or their attorneys, shall be fixed by the proper court at the rate of five percent (5%), per annum, simple interest. Under no circumstances shall either party be entitled to pre-judgment interest. The parties expressly acknowledge and, to the extent allowed by law, hereby opt out of any provision of federal or state statute not in agreement with this paragraph.

SECTION 22 TERMINATION OF AGREEMENT

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

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

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

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

SECTION 23 AGREEMENT TERM

This Agreement will become effective on the date of execution first written above and shall remain in effect for two thousand six-hundred forty (2,640) consecutive calendar days from the commencement date on the Notice to Proceed) unless terminated at an earlier date under other provisions of this Agreement, or unless extended for a longer term by amendment.

SECTION 24 CONFLICT OF INTEREST

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

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

SECTION 25 ENTIRE AGREEMENT

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

**SECTION 26
PUBLIC ENTITY CRIMES**

CONSULTANT is directed to the Florida Public Entity Crime Act, Fla. Stat. 287.133, and Fla. Stat. 287.135 regarding Scrutinized Companies, and CONSULTANT agrees that its bid and, if awarded, its performance of the agreement will comply with all applicable laws including those referenced herein. CONSULTANT represents and certifies that CONSULTANT is and will at all times remain eligible to bid for and perform the services subject to the requirements of these, and other applicable, laws. CONSULTANT agrees that any contract awarded to CONSULTANT will be subject to termination by the County if CONSULTANT fails to comply or to maintain such compliance.

**SECTION 27
PUBLIC RECORDS**

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

CONTRACTOR'S DUTY

If the contractor has questions regarding the application of Chapter 119, Florida Statutes, to the Contractor's duty to provide public records relating to this contract, contact the Pinellas County Board of County Commissioners, Purchasing Department, Operations Manager custodian of public records at 727-464-3311, purchase@pinellascounty.org, Pinellas County Government, Purchasing Department, Operations Manager, 400 S. Ft. Harrison Ave, 6th Floor, Clearwater, FL 33756.

**SECTION 28
GOVERNING LAW AND AGREEMENT EXECUTION**

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

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

Firm Name: **WSP USA, Inc.**

PINELLAS COUNTY, by and through its
Board of County Commissioners

By: 
Print Name: Robert Clifford
Title: Florida Transportation Lead Date: 21 Oct 21

By: _____
Name _____ Date: _____
Chairman

ATTEST:

Ken Burke, Clerk of the Circuit Court

By: _____
Deputy Clerk _____ Date: _____

APPROVED AS TO FORM

By: Jacina Parson
Office of the County Attorney

Exhibit A

SCOPE OF SERVICES

ENGINEERING CONSULTING SERVICES

**Contract No. 21-0004-NC (SS)
(BASE CONSULTANT AGREEMENT)**

**Professional Engineering Services For
Forest Lakes Boulevard Phase III from SR 580 to
SR 584 (Tampa Road)
County PID: 003914A**

Prepared For:

**Pinellas County
Public Works Transportation Engineering Section
14 S. Fort Harrison Avenue
Clearwater, Florida 33756**

**Prepared By:
WSP USA
2202 North Westshore Boulevard
Tampa, Florida 33607**

September 21, 2021

SCOPE OF SERVICES FOR ENGINEERING CONSULTING SERVICES

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

I. PROJECT TITLE

Professional Engineering Services for Forest Lakes Boulevard Phase III from SR 580 to SR 584 (Tampa Road).

II. OBJECTIVE

The overall objective of this proposal is to describe the scope of work and responsibilities of the CONSULTANT for Preliminary Engineering Report (PER) and performing other professional engineering work associated with the roadway widening of Forest Lakes Boulevard from SR 580 to SR 584 (Tampa Road).

III. PROJECT DESCRIPTION

The COUNTY proposes to improve approximately 0.55 miles of Forest Lakes Boulevard from SR 580 to Tampa Road from a 2-lane roadway to a 4-lane roadway. Forest Lakes Boulevard serves as a primary County numbered roadway (CR 667) that directly connects residents of Pinellas and Hillsborough Counties from SR 580 to SR 584 (Tampa Road) through the City of Oldsmar.

The CONSULTANT has been requested to prepare a scope of services/staff hours for the development of a Preliminary Engineering Report (PER) for Forest Lakes Boulevard from SR 580 to Tampa Road.

The preparation of the PER will be performed in coordination with COUNTY staff and CONSULTANT's internal design staff.

IV. SCOPE OF WORK

The proposal seeks the professional engineering and planning services for improvements to address the existing traffic conditions on Forest Lakes Boulevard, from SR 580 to Tampa Road (SR 584). A preliminary engineering report (PER) will be completed and the option to complete a set of contract documents including plans, specifications, supporting engineering analysis, calculations, and other technical documents prepared by the CONSULTANT and accepted by the COUNTY for this project.

Required Deliverables

- Preliminary Engineering Report (PER) will be electronically sign and sealed.

TASK 1: GENERAL TASKS

Contract Maintenance – The CONSULTANT will provide contract maintenance and project documentation during the duration of the contract. Includes complete setup and maintenance of files, electronic folders and documents, developing technical monthly progress reports, schedule updates, and compilation/submittal of project documentation.

Project Meetings – The CONSULTANT will attend six (6) Bi-Monthly progress meetings (assumed 12-month schedule). The CONSULTANT will provide meeting minutes for review and approval to the COUNTY.

Coordination – The CONSULTANT will coordinate with all relevant agencies, including but not limited to the following agencies:

- City of Oldsmar
- City of St. Petersburg
- Florida Department of Transportation (FDOT)
- CSX Railroad
- Forward Pinellas
- Southwest Florida Water Management District (SWFWMD)
- Pinellas Suncoast Transit Authority (PSTA)
- Pinellas County Sheriff School Crossing Guard Supervisor

TASK 2: PUBLIC INVOLVEMENT

The COUNTY will lead Public Involvement efforts on this project. The CONSULTANT will provide support services for up to two (2) public meetings which includes the development of graphics, PowerPoint presentations, and other pertinent data relevant to the project. The CONSULTANT will also prepare a project information meeting report documenting the comments and coordination with the public.

TASK 3: ENGINEERING ANALYSIS AND REPORTS

The CONSULTANT shall develop a Preliminary Engineering Report (PER) that will include an evaluation of Existing Conditions, Geotechnical Investigation, Traffic Data Collection and Analysis, Safety Analysis, review of Impacts including Utilities and Railroad, Cost, Roadway Engineering, and Drainage as highlighted in this section of the Scope of Services. This will include an alternatives evaluation for up to 2 (two) Build Alternatives and (1) one No Build Alternative. The PER will include additional Environmental Documentation as highlighted in Task 4 of the scope of services. The PER will consider the COUNTY's five factors: Alternative Routes and Design Concept, Safety/Utilities, Environmental, Cost, and Long-Range Transportation Plan (LRTP) Consistency.

Existing Conditions Analysis – The CONSULTANT will conduct field observations to determine existing field conditions, verify desktop data, and obtain additional data required to understand the Project area, assess Project needs, identify physical and environmental constraints, develop and analyze Project alternatives, and assess constructability issues.

The CONSULTANT will collect data describing existing conditions and characteristics of the project including: roadway geometrics, typical section elements, signalization, other operational features, access features, and right of way requirements, and other data applicable to modes and sub-modes of transportation including walking/pedestrians, bicyclists, public transit users (including transit vehicles and riders), paratransit users, freight (including loading/unloading and parking, emergency response vehicles, service vehicles, and freight handler vehicles).

Survey – To be provided by the COUNTY.

Geotechnical Investigation – The CONSULTANT will conduct geotechnical services associated with design activities related to this Project. Before beginning work and after the Notice to Proceed is issued, the CONSULTANT shall submit an investigation plan for approval and meet with the COUNTY’s Geotechnical Engineer or representative to review the project scope and COUNTY requirements.

The CONSULTANT will perform hand auger borings, up to 7-ft deep, at 500-ft spacing for determining preliminary seasonal high-water table and to assess the existing shallow soil conditions.

The CONSULTANT shall coordinate with the COUNTY’s staff regarding Project requirements, review of existing geotechnical data, and need for additional data. The CONSULTANT will review the US Department of Agriculture soil data, Geological Survey, and Natural Resource Conservation Service (NCRS) maps, US Coast and Geodetic Survey (USGS) maps, and summarize the findings.

The CONSULTANT will perform field reconnaissance of the Project area to determine conditions that may affect development of Project alternatives. The CONSULTANT will prepare a Geotechnical Technical Memorandum summarizing the geotechnical investigation that will be used to facilitate the data for final design.

Traffic Data Collection –

Three-hour AM (6:30 AM -9:30 AM) and PM (4 PM -7 PM) peak periods turning movement counts for intersections and 72-hour bi-directional traffic counts and vehicle classification counts shall be provided. The CONSULTANT will coordinate with the COUNTY on the following count types and locations.

- Turning movement counts at intersections:
 - Forest Lakes Boulevard and Tampa Road/ SR 584 (Signalized)
 - Forest Lakes Boulevard and Walgreens/Thornton’s Plaza (Unsignalized)
 - Forest Lakes Boulevard and Old Village Way North (Unsignalized)
 - Forest Lakes Boulevard and Derek Lane (Unsignalized)
 - Forest Lakes Boulevard and Old Village Way South (Unsignalized)
 - Forest Lakes Boulevard and Mears Boulevard (Unsignalized)
 - Forest Lakes Boulevard and SR 580 (Signalized)
- 72-hour bi-directional traffic counts on each approach at intersections:
 - Forest Lakes Boulevard and Tampa Road/ SR 584 (Signalized)
 - Forest Lakes Boulevard and SR 580 (Signalized)
- 72-hour vehicle classification counts location:
 - Forest Lakes Boulevard South of Tampa Road/ SR 584
 - Forest Lakes Boulevard North of SR 580
- Pedestrian and Bicycle counts at intersections:
 - Forest Lakes Boulevard and Tampa Road/ SR 584 (Signalized)
 - Forest Lakes Boulevard and SR 580 (Signalized)

The pedestrian and bicyclist counts at the signalized intersections will be conducted simultaneously with

the manual turning movement counts. The CONSULTANT will perform the pedestrian and bicycle counts along Forest Lakes Boulevard between Tampa Road and CR 580. Days for the counts shall be agreed upon in advance by the CONSULTANT and the COUNTY.

The CONSULTANT will also obtain phasing and signal timing information for the two signalized intersections within the study limits from the maintaining agencies.

Traffic Analysis – The consultant shall develop the traffic on the following signalized and unsignalized intersections along Forest Lake Boulevard:

- Forest Lakes Boulevard and Tampa Road/ SR 584 (Signalized)
- Forest Lakes Boulevard and Walgreens/Thornton's Plaza (Unsignalized)
- Forest Lakes Boulevard and Old Village Way North (Unsignalized)
- Forest Lakes Boulevard and Derek Lane (Unsignalized)
- Forest Lakes Boulevard and Old Village Way South (Unsignalized)
- Forest Lakes Boulevard and Mears Boulevard (Unsignalized)
- Forest Lakes Boulevard and SR 580 (Signalized)

Future Demand Forecasting – Utilizing the latest approved Tampa Bay Regional Transportation Model (TBRPM), the CONSULTANT shall prepare Annual Average Daily Traffic (AADT) for the No-Build and Build Alternatives.

- a) No-Build Alternative – This includes the existing configuration of the study limits for the existing year and existing plus committed improvements for future analysis years.
- b) Build Alternatives – Build Alternative will include adding an additional lane each direction on Forest Lakes Boulevard.

The following analysis years will be studied for each Alternative.

- Existing Year – 2021
- Opening Year – 2025
- Design Year – 2045

Design Traffic – The CONSULTANT shall develop the turning movement volumes (TMVs) and Annual Average Daily Traffic (AADTs) for the existing condition. The AADTs and Directional Design Hour Volumes (DDHVs) will be developed for the Build and No-build Alternatives in the opening and design years. The existing turning movement percentages shall be used as the basis for deriving future DDHV at the intersections.

After COUNTY approval of the DDHVs and AADTs, those traffic projections will be used during the study of conceptual design alternatives and for the analysis of any impacts which depend on traffic inputs (i.e. noise impacts).

The traffic factors will be determined by the CONSULTANT based on the existing counts and the historical traffic obtained from FDOT FTI database.

Traffic Operations Analysis – The CONSULTANT will analyze the traffic data for the existing and future conditions for the two signalized intersections at Tampa Road and SR 580. Traffic analysis for No-Build, two Build alternatives, and two Innovative Intersection alternatives will be performed for the future condition. The analysis years are Existing Year (2021), Opening Year (2025), and Design Year (2045). All years of analysis will include:

- Vehicle delays and level of service (LOS) analyses at study intersections along Forest Lakes Boulevard
- Queue length analysis at study intersections

The CONSULTANT shall utilize Synchro software to perform the traffic operational analyses for the AM and PM peak hours.

Crash Data – The CONSULTANT will obtain the most recent five (5) years of available data from the Florida Department of Transportation’s crash database and other local sources for this project. The crash data will include the number and type of crashes, crash locations, number of fatalities and injuries, and estimates of property damage and economic loss.

Safety Analysis – The CONSULTANT will perform safety analysis in accordance with Part 2, Chapter 2 of the FDOT PD&E Manual. Based on the information obtained from the crash data, the CONSULTANT will identify project safety needs associated with the existing and future conditions. The CONSULTANT will use the Highway Safety Manual (HSM) procedures to estimate the safety performance of the Project alternatives as agreed upon in the Traffic Analysis Methodology.

Utilities – Coordination efforts with Utility Agency Owners (UAOs) will be led by the COUNTY. The CONSULTANT will evaluate impacts to UAO’s as part of the PER.

Railroad – The CONSULTANT will analyze elevated crossings to determine clearance envelopes and intersection constraints. The CONSULTANT will develop generic roadway and transit railroad crossings appropriate for the Project.

Roadway – The CONSULTANT will analyze and document the roadway design in accordance with all the latest applicable manuals, guidelines, Pinellas County Standard Details, handbooks, procedures and technical specifications. Applicable standards, manuals and handbooks for this project are shown below:

- FDOT Design Manual (2021)
- FDOT Standard Plans (2021)
- FDOT Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (“Florida Greenbook”)
- AASHTO – A Policy for Geometric Design of Highways and Streets
- Pinellas County Standard Details (July 2018)
- Pinellas County Code (June 2019)
- Pinellas County Land Development Code (June 2019)
- Pinellas County Standard Technical Specifications for Roadway and General Construction (January 2018)

The Roadway Design efforts will include evaluated one (1) No Build Alternative and two (2) Build Alternatives and will focus on the following:

- Design Controls and Criteria
- Typical Sections
- Geometric Design
- Intersection Evaluations – this will include a FDOT Stage I and Stage II ICE analysis at the intersections of SR 580 and Tampa Road (SR 584).
- Access Management
- Multimodal Accommodations
- Maintenance of Traffic
- Lighting
- Utility Relocation for Public Utilities (City of Oldsmar & City of St. Petersburg)

Transportation Systems Management and Operations – N/A

Structures – N/A

Drainage – The CONSULTANT will perform Drainage analysis in accordance with the Part 2, Chapters 11 and 13 of the PD&E Manual and Pinellas County Stormwater Manual. The CONSULTANT shall incorporate/consider the Contamination Screening Evaluation Report and any other related report findings into the Pond Siting Report.

- Floodplain and Environmental Permit Data - The CONSULTANT will gather floodplain data from the most recent FEMA Flood Insurance Rate Maps, and other drainage related data. The CONSULTANT will review pertinent permits from the SWFWMD and from any other relevant sources including local government, local agencies, and regulatory agencies. The CONSULTANT will obtain the Watershed Management Plan and the 2018 stormwater model from the City of Oldsmar. The CONSULTANT will verify the existing Oldsmar model input data with onsite surveyed data and field observations and update the model as necessary to establish a base stormwater model for the project. In addition, the CONSULTANT will evaluate the tailwater used in the model and update the tailwater per the criteria described in the County's Stormwater Manual. The CONSULTANT will document any changes to the model in the Pond Siting Report. Although this project has tidal floodplains, the CONSULTANT will document the existing riverine floodplain elevations in the Pond Siting Report.
- Drainage Analysis - The CONSULTANT will perform drainage analysis by delineating the basin boundaries by using LiDAR information, existing survey data, existing permits, and field observations. The CONSULTANT will analyze and determine high water elevations in each basin and use the information including geotechnical investigations to establish the preliminary roadway profile. Drainage analysis will also include checking the capacity and structural adequacy of existing cross drains, preliminary design of potential cross drain and outfall structures and identifying the recommended conceptual drainage design for the Project. The CONSULTANT will prepare roll plot type drainage maps, and which will be included in the Pond Siting Report.
- Floodplain Compensation Analysis – Although the project is within a tidally influence floodplain, the CONSULTANT will calculate the riverine floodplain impacts associated with the proposed project. The CONSULTANT will evaluate either providing calculations for cup for cup floodplain compensation in a floodplain compensation site or propose downstream improvements to offset the floodplain impacts. The CONSULTANT will document pros and cons to each of these floodplain alternatives in the Pond Siting Report.
- Stormwater Management Analysis - The CONSULTANT will calculate the stormwater quality treatment using the County's Stormwater Manual and attenuation requirements (25-year/24-hour storm event) and estimate the stormwater management facility needs for each roadway alternative. The CONSULTANT will schedule an Environmental Look-Around (ELA) meeting (See Part 2, Chapter 24 of the PD&E Manual) with COUNTY staff, SWFWMD staff, and the City of Oldsmar staff to discuss regional stormwater needs and design and permitting approaches that benefit the watershed as a whole. During the meeting, the CONSULTANT will document the meeting notes in the project file. If the ELA reveals no regional pond sites within the Study Area, the CONSULTANT will identify two practical pond sites in each basin for each project alternative, estimate construction cost (cost to be provided by the COUNTY), compare the sites, and identify (in coordination with the COUNTY) a preferred pond site for each basin. One geotechnical boring, to identify the seasonal high water table, will be performed at each alternative pond sites. Additionally, the CONSULTANT will identify inflow or outfall easement requirements for each pond site. The CONSULTANT will evaluate the benefits to alternative pond outfalls. The CONSULTANT will attend and document a pre-application coordination meeting with the SWFWMD, FDOT and the CSX staff. All Stormwater Management Analysis mentioned above will be documented by the CONSULTANT in a Pond Siting Report.

- Drainage Design – The CONSULTANT will coordinate the proposed drainage design and conceptual collection system with the relocation of the City of St. Petersburg’s 36-inch transmission main. In addition, the CONSULTANT will complete the excel spreadsheet entitled sea level rise into capital planning in Pinellas County and obtain approval signatures from the County staff.
- Location Hydraulics Report - The CONSULTANT will prepare a Location Hydraulics Memorandum for the project.

Landscaping Analysis – N/A

Construction Cost Estimates – An estimate of probable cost shall be completed for each build alternative at the draft and final submittals of the PER. Cost estimates will include associated with relocating public utilities.

Right of Way Cost Estimates – To be completed by the COUNTY.

Alternatives Evaluation – The CONSULTANT will analyze Build Alternatives to a level of detail sufficient to evaluate and compare their performance against the No-Build Alternative. This will include using the COUNTY’s five factors of Alternative Routes and Design Concept, Safety/Utilities, Environmental, Costs, Long Range Transportation Plan (LRTP) Consistency. This evaluation will be documented in the PER where it will help assist the COUNTY on the selection of a preferred alternative.

Concept Plans – The CONSULTANT will prepare concept plans for all viable Project alternatives in appropriate scales overlaid on the base map. The CONSULTANT will produce a base map of the project area using COUNTY’s CADD standards. The base map will contain an aerial photo and existing characteristics for the project. The base map must show environmental issues that are specific to the Study Area such as cemeteries, wetlands, historic properties, high-risk contamination sites, public parks, and property lines. The CONSULTANT will prepare base maps for the following uses (at noted scales):

- Overall Project Location Map: Scale = 1” = 200’
- Overall Drainage Map: Scale = 1” = 200’
- Corridor Maps (Roll Plots) = 1” = 100’

The CONSULTANT will prepare and overlay alternative concept plans on the base map. The concept plan must show potential location for bridges, culverts, retaining walls, right of way lines (existing and proposed), major utility facilities, intersection, critical driveways, and median openings, among other roadway elements, at appropriate scale according to the COUNTY’s CADD Standards. The concept plans will be developed on a scale of 1” = 40’.

Engineering Analysis Documentation – The CONSULTANT will prepare a Preliminary Engineering Report (PER) documenting both the Engineering Analysis as highlighted in Task 3 of the scope of service but will also include sections for the Environmental Analysis highlighted in Task 4 of the scope of services.

TASK 4: ENVIRONMENTAL ANALYSIS AND REPORTS

The CONSULTANT will prepare all required roadway construction plans within the project limits. Plans anticipated to be reviewed, updated, and modified are:

Sociocultural Effects – N/A

Cultural Resources – The CONSULTANT shall analyze the impacts to all cultural resources by reviewing the proposed construction plans and prepare a Cultural Resource Assessment Survey (CRAS) Report. This

task includes identifying and analyzing impacts to archaeological sites and historic resources within the project Area of Potential Effects (APE), including documentation and coordination with appropriate agencies. All work shall be done in accordance with the National Historic Preservation Act of 1966 (Public Law 89-665, as amended) and Part 2, Chapter 8 of the PD&E Manual, as well as with the provisions contained in Chapter 267.061, Florida Statutes. All work shall be conducted by a professional who meets the Secretary of the Interior's Professional Qualification Standards (48 FR 44716) for archaeology, history, architecture, architectural history, or historic architecture.

- Field Work – As part of the CRAS, background research will be conducted prior to going into the field. During the research process, ACI will identify any archaeological sites within the project APE, including previously recorded and newly identified resources, and excavate the appropriate number of test pits. In addition, ACI will identify any historic resources within the project APE, both previously recorded and newly identified (45 to 50 years older (depending upon the length of time anticipated before construction)). A FMSF form shall be prepared for all newly identified and updated previously recorded archaeological sites and historic resources, and enough data shall be collected to document the significance of each in terms of eligibility for listing in the NRHP.
- Documentation – The CRAS shall be prepared with appropriate documentation detailing the results of the survey and final assessments of resource significance, including a FMSF form for all newly identified and updated previously recorded resources. The CRAS Report shall include all pond sites.

Natural Resources - The CONSULTANT will assess and summarize each of the natural resource issues in the Environmental Document. The CONSULTANT will identify the natural resource evaluation area. The CONSULTANT will assess the direct and indirect effects and will document the severity of the impact on environmental resources in the Environmental Document and project file.

- Protected Species and Habitat - The CONSULTANT will perform research, field reviews, appropriate seasonal surveys, and coordination necessary to determine Project involvement with, and any potential impacts to, federal and state protected, threatened or endangered species and their habitats. Additionally, the CONSULTANT will develop a study design (which will be approved by the COUNTY) to evaluate the magnitude of Project involvement with wildlife and their habitat. The CONSULTANT will assess the Project's potential impacts to wildlife and habitat in accordance with Part 2, Chapter 16 of the PD&E Manual. The CONSULTANT will assist the COUNTY in agency consultations, if required. The COUNTY Project Manager will provide a description of the habitat conservation measures to be considered. The CONSULTANT will provide an analysis of wildlife and habitat conservation measures.
- Wetland and Other Surface Waters - The CONSULTANT will perform an analysis of the Project's potential impacts on wetlands and other surface waters in accordance with Part 2, Chapter 9 of the PD&E Manual. The CONSULTANT will identify the type, quality, and function of representative wetlands in accordance with Rule 62-345, F.A.C., Uniform Mitigation Assessment Method. The CONSULTANT will evaluate alternatives that avoid wetland impacts and, where unavoidable, identify practicable measures to minimize impacts. The CONSULTANT will document the results of the Wetlands Evaluation in the Natural Resources Evaluation (NRE) including all coordination activities with resource agencies, wetland impact assessment and mitigation analysis. During final design, the CONSULTANT shall collect all data and information necessary to determine the boundaries of wetlands and other surface waters defined by the rules or regulation of each agency

processing or reviewing a permit application necessary to construct the project. The CONSULTANT shall be responsible for, but not limited to, the following activities:

- Determine landward extent of wetlands and other surface waters as defined in Rule Chapter 62-340 F.A.C. as ratified in Section 373.4211, F.S.
- Prepare aerial maps showing the jurisdictional boundaries of wetlands and surface waters. Aerial maps shall be reproducible, of a scale no greater than 1''=200' and be recent photography. The maps shall show the jurisdictional limits of each agency. Photocopies of aerials are not acceptable. All jurisdictional boundaries are to be tied to the project's baseline of survey. When necessary, a wetland specific survey will be prepared by a registered surveyor and mapper.
- Prepare a written assessment of the current condition and functional value of the wetlands and other surface waters. Prepare data in tabular form which includes the ID number for each wetland impacted, size of wetland to be impacted, type of impact, and identify any wetland within the project limits that will not be impacted by the project.
- Essential Fish Habitat – N/A
- National Resource Evaluation Documentation – This National Resources data will be documented in the PER.

Physical Effects - The CONSULTANT will summarize each of the physical effect issues in the Environmental Document.

- Noise – N/A only required with federal funds
- Transit Noise and Vibration Analysis – N/A
- Air Quality – N/A
- Construction Impact Analysis – N/A
- Contamination - The CONSULTANT will gather data, review data, and investigate contamination issues within the limits of the project and identify potentially contaminated sites. The CONSULTANT will document data reviewed, findings, risk of potential contamination sites, and provide recommendations.

TASK 5: OPTIONAL SERVICES

To be determined and negotiated on a case by case basis.

V. COMPENSATION

TASK 1	PROJECT GENERAL TASKS (WSP)	\$24,916.00	Lump Sum
TASK 2	PUBLIC INVOLVEMENT (WSP)	\$33,663.00	Lump Sum
TASK 3	ENGINEERING ANALYSIS AND REPORTS (WSP)	\$226,378.00	Lump Sum
TASK 3	ENGINEERING ANALYSIS AND REPORTS (MADRID)	\$27,731.00	Lump Sum
TASK 3	ENGINEERING ANALYSIS AND REPORTS (BES)	\$9,833.35	Lump Sum
TASK 3	ENGINEERING ANALYSIS AND REPORTS (FLAA)	\$2,400.00	Lump Sum
TASK 4	ENVIRONMENTAL ANALYSIS AND REPORTS (WSP)	\$19,018.00	Lump Sum
	ENVIRONMENTAL ANALYSIS AND REPORTS (ACI)	\$15,024.36	Lump Sum

TOTAL LUMP SUM FEE	\$358,963.71
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OPTIONAL SERVICES

TASK 5	TO BE DETERMINED	\$100,000.00	Limiting Amount
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TOTAL LIMITING AMOUNT FEE	\$100,000.00
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TOTAL FEE	\$458,963.71
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VI. SCHEDULE

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

CONSULTANT'S services will commence upon receipt of written notice to proceed issued by COUNTY. The CONSULTANT will complete the final design in accordance with the following or better project schedule:

PROJECT SCHEDULE

<u>Milestone</u>	<u>Due Date After receiving the NTP & Survey</u>
Design Year Traffic	75 Calendar Days
Draft PER	180 Calendar Days
Final PER	270 Calendar Days

The COUNTY design review period is twenty-one calendar days from the date of each milestone submittal. Any other delays beyond CONSULTANT'S control should be documented in writing by the CONSULTANT and submitted to the COUNTY for consideration to grant a schedule time extension. The requirements for each design review should be as specified in the COUNTY'S "Checklists for Design Review Submittals". The CONSULTANT will continue its PER work during the review periods. The CONSULTANT should respond to the COUNTY'S PER review comments in writing and by making corresponding revisions to the PER. Written responses and PER revisions are to be included with the next PER review submittal. The CONSULTANT will respond to regulatory agencies review comments in the same manner. PER revisions are to be completed by CONSULTANT at no additional time and/or cost unless the revisions result from the COUNTY making changes to the horizontal or vertical alignment or other changes or similar impact to the project design. In such cases, the COUNTY will evaluate the CONSULTANT'S request for additional time and/or compensation. The COUNTY may require CONSULTANT to make PER revisions and resubmit documents at the same phase of completion if it is found that the PER do not meet the requirements of the "Checklist for Review Submittals". No additional time will be allotted to the CONSULTANT'S schedule if a resubmittal is required.

VII. INVOICES & PROGRESS REPORTS

Invoicing must take place monthly and will include a progress report summarizing the work completed during the invoice period as well as a schedule update. The CONSULTANT must pre-submit invoices to the Project Manager prior to an official monthly submittal. The final invoice will be marked "FINAL" on the invoice and be accompanied by a letter from the CONSULTANT stating that this is the Final Invoice and that compensation for tasks completed, as described in the Scope of Services Agreement, is now concluded.

**PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA**

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: Forest Lakes Blvd. Phase III from SR 580 to SR 584 (Tampa Road)
 County: Pinellas
 FPN: 003914 A
 FAP No.: N/A

Consult. Name: WSP USA, Inc.
 Consult. No.:
 Date: 9/21/2021
 Estimator: Danny Cumley

Staff Classification	Total Staff Hours From 'SH Summary - Firm'	Principal	PM3	Senior Engineer 2	Engineer 2	Engineering Intern	Chief Designer	Designer	Chief Planner	Senior Planner	Chief Scientist	Secretary/Clerical	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		\$284.00	\$239.00	\$214.00	\$188.00	\$105.00	\$168.00	\$121.00	\$255.00	\$168.00	\$192.00	\$84.00	\$0.00			
General Tasks	140	3	42	28	7	7	7	7	4	0	0	35	0	140	\$24,916.00	\$177.97
Public Involvement	210	0	41	21	0	32	42	74	0	0	0	0	0	210	\$33,663.00	\$160.30
Engineering Analysis & Report	1,412	28	142	141	282	212	141	438	0	0	0	28	0	1,412	\$226,378.00	\$160.32
Environmental Analysis & Reports	100	2	5	25	3	0	0	13	0	0	50	2	0	100	\$19,018.00	\$190.18
Total Staff Hours	1,862	33	230	215	292	251	190	532	4	0	50	65	0	1,862		
Total Staff Cost		\$9,372.00	\$54,970.00	\$46,010.00	\$54,896.00	\$26,355.00	\$31,920.00	\$64,372.00	\$1,020.00	\$0.00	\$9,600.00	\$5,460.00	\$0.00		\$303,975.00	\$163.25

Check = \$303,975.00

Survey Field Days by Subconsultant
 4 - Person Crew:

SALARY RELATED COSTS:		\$303,975.00
OVERHEAD:	0.00%	\$0.00
OPERATING MARGIN:	0.00%	\$0.00
FCCM (Facilities Capital Cost Money):	0.00%	\$0.00
EXPENSES:	0.00%	\$0.00
SALARY RELATED SUBTOTAL:		\$303,975.00
Survey (Field - if by Prime)	0.00	4-man crew days @ \$ - / day
SUBTOTAL - PRIME		\$303,975.00
Subconsultant: ACI		\$15,024.36
Subconsultant: BES		\$9,833.35
Subconsultant: Madrid		\$27,731.00
Subconsultant: FLAA		\$2,400.00
SUBTOTAL ESTIMATED FEE:		\$358,963.71
Optional Services		\$100,000.00
GRAND TOTAL ESTIMATED FEE:		\$458,963.71

- 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.
 3. Enter the rate for each classification in Row 9.

PROJECT DESCRIP & OBJECTIVES

Estimator:

Forest Lakes Blvd. Phase III from SR 580 to SR 584 (Tampa Road)
003914 A

Representing	Print Name	Signature / Date

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
NOTE: * subject to QC						
2.2	Project Requirements and Provisions for Work					
	<i>2.2.6 Meetings and Presentations</i>	<i>LS</i>			<i>72</i>	<i>see table below</i>
	<i>2.2.9 Schedule *</i>	<i>LS</i>	<i>1</i>	<i>0</i>	<i>0</i>	
	2.2 Project Requirements and Provisions Work Total				72	
2.3	Coordination with Other Consultants and Entities	LS	1	0	0	
2.4	Contract Management	LS	1	68	68	Initial 20 hours and 4 hours per month for 12 months
2.5	Additional Services					
	<i>2.5.1 Alternative Corridor Evaluation *</i>	<i>LS</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>N/A</i>
	<i>2.5.2 Advance Notification</i>					<i>N/A</i>
	<i>Advance Notification *</i>	<i>LS</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>N/A</i>
	<i>Preliminary Environmental Discussion *</i>	<i>LS</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>N/A</i>
	<i>2.5.3 Scoping (EIS Only)</i>					<i>N/A</i>
	<i>Set up/Scoping Package*</i>	<i>LS</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>N/A</i>
	<i>Participation and notes</i>	<i>LS</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>N/A</i>
	<i>2.5.4 Notice of Intent (EIS Only) *</i>	<i>LS</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>N/A</i>
	<i>2.5.5 Transit Coordination Plan *</i>	<i>LS</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>N/A</i>
	<i>2.5.6 Miscellaneous Services *</i>	<i>LS</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>N/A</i>
	2.5 Additional Services Total				0	
2.7	Optional Services	LS	1	0	0	
Project Description and Objectives Subtotal					140	
Hours Subject to QC					0	
	Quality Assurance / Quality Control	LS	%	5%	0	
PROJECT DESCRIPTION AND OBJECTIVES TOTAL HOURS					140	

PUBLIC INVOLVEMENT

Estimator:

Forest Lakes Blvd. Phase III from SR 580 to SR 584 (Tampa Road)
003914 A

Representing	Print Name	Signature / Date

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
NOTE: * subject to QC						
3.1	Public Involvement					Additional project information meeting, if needed, will be done using optional services
	3.1.1 Public Involvement <i>Plan</i> *	LS	1	0	0	
	Public Involvement Plan*	LS	1	0	0	
	Project Plan*	LS	1	0	0	
	Web Site Development *	LS	1	0	0	
	Web Site Content Updates *	LS	1	0	0	
	3.1.2 Public Involvement Data Collection (incl. site selection)	LS	1	0	0	
3.1 Public Involvement Total					0	
3.2	Scheduled Public Meetings					
	Project Kickoff Meeting					
	Development of Meeting Materials*	LS	1	64	64	
	Agenda *	LS	1	0	0	
	Presentation*	LS	1	32	32	
	Project Handouts *	LS	1	0	0	
	Exhibits *	LS	1	32	32	
	Notification Letters *	LS	1	0	0	
	Press Release/Meeting Announcements *	LS	1	0	0	
	Staff Briefing *	LS	1	0	0	
	Participation and Notes	LS	1	0	0	
	Participation	LS	1	0	0	
	Notes	LS	1	0	0	

PUBLIC INVOLVEMENT

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
<u>Presentation to Local MPOs and Associated Technical and Citizen Committees</u>						
	Development of Meeting Materials *	LS	1	0	0	
	Presentation *	LS	1	0	0	
	Project Handouts *	LS	1	0	0	
	Exhibits *	LS	1	0	0	
	Participation and notes	LS	1	0	0	
	Participation	LS	1	0	0	
	Notes	LS	1	0	0	
<u>Coordination Meetings with Key Agencies</u>						
	Development or Updates of Meeting Materials *	LS	1	0	0	
	Presentation *	LS	1	0	0	
	Project Handouts *	LS	1	0	0	
	Exhibits *	LS	1	0	0	
	Participation and notes	LS	1	0	0	
	Participation	LS	1	0	0	
	Notes	LS	1	0	0	
<u>Corridor Workshop(s) or Public Informational Meeting(s)</u>						
	Development of Meeting Materials*	LS	1	64	64	
	Agenda *	LS	1	0	0	
	Presentation *	LS	1	32	32	Voice in powerpoint
	Project Handouts *	LS	1	0	0	
	Exhibits *	LS	1	32	32	Develop exhibits
	Notification Letters *	LS	1	0	0	
	Press Release/Meeting Announcements *	LS	1	0	0	
	Project Summaries *	LS	1	0	0	
	Response letters *	LS	1	0	0	
	Staff Briefing *	LS	1	0	0	
	Participation and Notes	LS	1	8	8	
	Participation	LS	1	8	8	
	Notes	LS	1	0	0	
<u>Alternatives Public Information Meeting(s)</u>						
	Development of Meeting Materials*	LS	1	0	0	
	Agenda*	LS	1	0	0	
	Presentation *	LS	1	0	0	
	Project Handouts *	LS	1	0	0	
	Exhibits *	LS	1	0	0	
	Notification Letters *	LS	1	0	0	
	Press Release/Meeting Announcements *	LS	1	0	0	
	Project Summaries *	LS	1	0	0	
	Response letters *	LS	1	0	0	
	Staff Briefing *	LS	1	0	0	
	Participation and Notes	LS	1	0	0	
	Participation	LS	1	0	0	
	Notes	LS	1	0	0	
<u>Additional Coordination and Consensus Building Meeting(s)</u>						
	Development of Meeting Materials *	LS	1	0	0	
	Meeting preparation *	LS	1	0	0	
	Create or Update Presentation *	LS	1	0	0	
	Participation and Notes	LS	1	0	0	
	Participation	LS	1	0	0	

PUBLIC INVOLVEMENT

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	<i>Notes</i>	LS	1	0	0	
	Community / Stakeholder Forum(s)					
	Development of Meeting Materials*	LS	1	0	0	
	<i>Agenda *</i>	LS	1	0	0	
	<i>Presentation *</i>	LS	1	0	0	
	<i>Project Handouts *</i>	LS	1	0	0	
	<i>Exhibits *</i>	LS	1	0	0	
	<i>Notification Letters *</i>	LS	1	0	0	
	<i>Press Release/Meeting Announcements *</i>	LS	1	0	0	
	<i>Project Summaries *</i>	LS	1	0	0	
	<i>Response letters *</i>	LS	1	0	0	
	<i>Staff Briefing *</i>	LS	1	0	0	
	Participation and Notes	LS	1	0	0	
	<i>Participation</i>	LS	1	0	0	
	<i>Notes</i>	LS	1	0	0	
	Environmental Forum(s)					
	Development of Meeting Materials*	LS	1	0	0	
	<i>Agenda *</i>	LS	1	0	0	
	<i>Presentation *</i>	LS	1	0	0	
	<i>Project Handouts *</i>	LS	1	0	0	
	<i>Exhibits *</i>	LS	1	0	0	
	<i>Notification Letters *</i>	LS	1	0	0	
	<i>Press Release/Meeting Announcements *</i>	LS	1	0	0	
	<i>Project Summaries *</i>	LS	1	0	0	
	<i>Response letters *</i>	LS	1	0	0	
	<i>Staff Briefing *</i>	LS	1	0	0	
	Participation and Notes	LS	1	0	0	
	<i>Participation</i>	LS	1	0	0	
	<i>Notes</i>	LS	1	0	0	
	Other Public and Agency Meetings (Specify) or informal meetings					
	Development of Meeting Materials *	LS	1	0	0	
	<i>Presentation *</i>	LS	1	0	0	
	<i>Project Handouts *</i>	LS	1	0	0	
	<i>Exhibits *</i>	LS	1	0	0	
	Participation and notes	LS	1	64	68	
	<i>Participation</i>	LS	2	4	8	Rehearsal and project information meeting
	<i>Notes</i>	LS	1	60	60	Prepare project information meeting report and analysis
	3.2 Scheduled Public Meetings Total				204	

PUBLIC INVOLVEMENT

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
3.3	Public Hearing					
	Public Hearing Materials	LS	1	0	0	
	<i>Public Officials and Regulatory Agency Letters *</i>	LS	1	0	0	
	<i>Property Owner Letters *</i>	LS	1	0	0	
	<i>Public Hearing Notices and publication in the FAR *</i>	LS	1	0	0	
	<i>Notification on the Department's Public Notice webpages through the District PIO *</i>	LS	1	0	0	
	<i>Identify website(s) and/or locations for document public availability *</i>	LS	1	0	0	
	<i>Presentation with Script *</i>	LS	1	0	0	
	<i>Proposed typical sections and aerials *</i>	LS	1	0	0	
	<i>Hard copies of technical reports and Environmental Documents</i>	LS	1	0	0	
	<i>Meeting Location Signs *</i>	LS	1	0	0	
	<i>Brochures or handouts *</i>	LS	1	0	0	
	<i>Title VI compliance signs *</i>	LS	1	0	0	
	<i>NEPA Assignment compliance signs *</i>	LS	1	0	0	
	<i>Security</i>	LS	1	0	0	
	<i>Advertisements *</i>	LS	1	0	0	
	<i>Press Releases *</i>	LS	1	0	0	
	<i>Meeting Site Selection</i>	LS	1	0	0	
	<i>Written Responses to Comments *</i>	LS	1	0	0	
	<i>Transcript, errata sheet and certification *</i>	LS	1	0	0	
	<i>Arrange for Court Reporter</i>	LS	1	0	0	
	<i>Staff Briefing *</i>	LS	1	0	0	
	Participation and Notes	LS	1	0	0	
<i>Participation</i>	LS	1	0	0		
	3.3 Public Hearing Total				0	
3.4	Comments and Coordination Report *	LS	1	0	0	
3.5	Notification of Approved Environmental Document *	LS	1	0	0	
3.6	Additional Public Involvement Requirements					
	<i>General Public Correspondence *</i>	LS	1	0	0	
	<i>News Letters, Fact Sheets, Preparation / Distribution *</i>	LS	1	0	0	
	<i>Frequently Asked Questions (FAQs) *</i>	LS	1	0	0	
	<i>Videos, Renderings, Fly-through, 3-D Visualization *</i>	LS	1	0	0	
	<i>Design Charrettes *</i>	LS	1	0	0	
	<i>Other *</i>	LS	1	0	0	
	3.6 Additional Public Involvement Requirements Total				0	
	Public Involvement Subtotal				204	
	Hours Subject to QC				128	
	Quality Assurance / Quality Control	LS	1	6	6	Negotiated approximately 5 percent of 128 hours which equals 6 hours.
	PUBLIC INVOLVEMENT TOTAL HOURS				210	

ENG ANALYSIS & REPORTS

Estimator:

Forest Lakes Blvd. Phase III from SR 580 to SR 584 (Tampa Road)
003914 A

Representing	Print Name	Signature / Date

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
NOTE: * subject to QC						
4.1	Review of Previous Studies	LS	1	0	0	N/A
4.2	Existing Conditions Analysis					
	Data Collection	LS	1	16	16	
	Field Review	LS	4	4	16	2 field review x 2 two people each at 4 hours per trip
	4.2 Existing Conditions Analysis Total				32	
4.3	Survey					
	4.3.1 Survey Design *	LS	1	0	0	By County
	Survey Coordination	LS	1	0	0	N/A
	4.3.2 Photogrammetry *	LS	1	0	0	N/A
	Aerial Photography	LS	1	0	0	N/A
	4.3 Survey Total				0	
4.4	Geotechnical Investigation					
	Soils	LS	1	0	0	See Madrid's staff hours
	Geotechnical Coordination	LS	1	0	0	See Madrid's staff hours
	Geotechnical Design Services *	LS	1	0	0	See Madrid's staff hours
	4.4 Geotechnical Investigation Total				0	
4.5	Traffic Analysis					
	4.5.1 Traffic Analysis Methodology *	LS	1	8	8	Methodology meeting 2 staffs x 2 hrs + writeup 4 hrs
	4.5.2 Traffic Counts *	LS	1	4	4	WSP coordinates with Adams Traffic - 4 hrs
	4.5.3 Vehicle Class Counts on Roadway Segments and Ramps *	LS	1	32	32	AADT (4 hrs)+ TMV (20 hrs) + traffic factors- K,D,T,PHF (8 hrs) = 32 hours
	4.5.4 Pedestrian, Bicycle, and Other Multimodal Data *	LS	2	10	20	collect and summarize ped&bike volumes between Tampa Rd and CR 580: 2 staff x 10 hr
	4.5.5 Calibration and Validation Data *	LS	1	0	0	
	4.5.6 Existing Traffic Operational Analysis *	LS	2	5	10	Synchro Existing Analysis = 2 intersections x (2 peak-hour models x 2.5 hours/intersection) = 10 hours
	4.5.7 Model Calibration and Validation *	LS	1	40	40	Future demand modeling
	4.5.8 Future Demand Forecasting *	LS	8	12	96	2025 and 2045 Nobuild and Build DDHV and AADT = 2 years x 2 alternatives x (1 set of AADT + 1 set of DDHV) x 12 hrs/set = 96 hours; including traffic reroute for access management and innovative intersections
	4.5.9 No-Build Analysis *	LS	4	3	12	Synchro Nobuild Analysis = 2 years x 2 intersections x (2 peak-hour models x 1.5 hours/intersection) = 12 hours
	4.5.10 Development and Screening of Alternatives *	LS	1	30	30	
	4.5.11 Operational Evaluation of Build Alternatives *	LS	8	10	80	Synchro Build Analysis = 2 years x 2 intersections x 2 alternatives x (2 peak-hour models x 5 hours/intersection) = 80 hours
	4.5.12 Project Traffic Analysis Report *	LS	1	40	40	Traffic portion of the PER, no stand-alone traffic report, including traffic figures (might already be included in 4.21 below)
	4.5.13 Interchange Access Request *	LS	1	0	0	
	4.5.14 Traffic Data for Noise Study *	EA	0	0	0	
	4.5.15 Traffic Data for Air Quality Analysis *	EA	0	0	0	
	4.5.16 Signalization Analysis *	LS	1	0	0	
	4.5 Traffic Analysis Total				372	
4.6	Signage *	LS	1	0	0	

ENG ANALYSIS & REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
4.7	Tolling Concepts *	LS	1	0	0	
4.8	Safety					
	4.8.1 Crash Data *	LS	1	12	12	Obtain 5-year crash data and review from County and FDOT
	4.8.2 Safety Analysis					
	Historical Crash Analysis *	LS	1	40	40	Develop crash data and collision diagrams
	HSM Safety Analysis *	LS	1	40	40	Perform safety analysis using CMF's and Predictive method
	4.8.3 Documentation of Safety Analysis *	LS	1	24	24	Document and present safety alternatives
	4.8 Safety Total				116	
4.9	Utilities and Railroads					
	4.9.1 Utilities *	EA	1	16	16	County will lead. Include 16 hours to evaluate impacts from data obtained by the County
	4.9.2 Railroad *	EA	1	8	8	
	4.9 Utilities and Railroads Total				24	
4.10	Roadway Analysis					
	4.10.1 Design Controls and Criteria *	LS	1	8	8	
	4.10.2 Typical Section Analysis *	EA	2	8	16	Assume two typical section alternatives at 8 hours per typical
	4.10.3 Geometric Design*	LS	2	40	80	Assumes 40 hours per alternative
	4.10.4 Intersections and Interchange Evaluation *	EA	2	0	0	
	4.10.5 Access Management *	LS	1	12	12	Review the existing and proposed access management with recommendations
	4.10.6 Multimodal Accommodations	LS	1	0	0	Included in Typical Section and Geometric Design
	4.10.7 Maintenance of Traffic *	LS	1	20	20	20 hours per mile at 0.5 miles at 2 alternative = 20 * 5'2 = 20 hours
	4.10.8 Lighting *	LS	1	0	0	
	4.10 Roadway Total				136	
4.11	Identify Construction Segments *	LS	1	0	0	N/A
4.12	Transportation Systems Management and Operations *	LS	1	0	0	N/A
4.13	Structures					
	4.13.1 Existing Structures*	EA	0	0	0	N/A
	4.13.2 Structure Typical Sections *	EA	0	0	0	N/A
	4.13.3 Structure Design Alternatives *	EA	0	0	0	N/A
	4.13 Structures Total				0	
4.14	Drainage					
	4.14.1 Floodplain and Environmental Permit Data Collection *	LS	1	40	40	Review Several Existing ERP's- 8 hours Create FEMA Map floodplain Map- 4 hours Obtain City's WMP & Model- 6 hours Update data (survey, field observations, tailwater)-20 hours Document model updates in PSR- 4 hours Establish riverine floodplain elevations- 4 hours
	4.14.2 Drainage Analysis *	Per Basin	3	22	66	Project is located in urban area: Obtain Lidar Delineate Drainage boundaries Determine and Document DHW's for roadway design (from model and SHWT's) Check capacity and structural adequacy of existing cross drains and outfalls Prepare roll plot of drainage map
	4.14.3 Floodplain Compensation Analysis *	Per Encroach.	1	68	68	Calculate riverine floodplain impacts (cup for cup) with each roadway alternative and document- 16 hours Evaluate potential floodplain compensation sites and document- 24 hours Evaluate alternative downstream improvements to offset floodplains and document -28 hours
	4.14.4 Stormwater Management Analysis					
	Enviro. Look Around (ELA) Meeting and Pond Siting Meeting	LS	3	6	18	Discuss and document any ELA's with the City, FDOT & SWFWMD meeting (3 meetings / 2 staff / 3 hours/meeting)
	Stormwater Management *	Per Basin	3	22	66	Water Quality & Quantity Calculations for all pond sites Alternative Outfall Evaluation Coordination with CSX staff
	Pond Siting Report or Conceptual Drainage Design Report*	LS	1	24	24	Pond Siting Report

ENG ANALYSIS & REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	4.14.5 Drainage Design *	LS	1	22	22	Complete Sea Level Rise Spreadsheet- 16 hours
	4.14.6 Location Hydraulic Report *	LS	1	24	24	Coordinate Drainage Design with 36-in Transmission Main with City- 6 hours
	4.14.7 Bridge Hydraulic Evaluation*	EA	0	0	0	Memorandum
						N/A
			4.14 Drainage Total		328	
4.15	Landscaping Analysis *	LS	1	0	0	N/A - only find opportunities for landscaping
4.16	Construction and Right of Way Cost Estimates					
	4.16.1 Construction Cost Estimates *	LS	4	10	40	Two Cost Estimates for each alternative with two alternatives (4 total)
	4.16.2 Right of Way Cost Estimates *	LS	1	0	0	TBD
			4.16 Construction and Right of Way Cost Estimates Total		40	
4.17	Alternatives Evaluation					
	4.17.1 Comparative Alternatives Evaluation *	LS	1	30	30	30 hours for matrix and general comparison
	4.17.2 Selection of Recommended Alternative *	LS	1	4	4	Coordination with the County
	4.17.3 Value Engineering *	LS	1	0	0	N/A
			4.17 Alternatives Evaluation Total		34	
4.18	Concept Plans					
	4.18.1 Base Map *	Sheet	5	8	40	5 Sheets at 40 scale
	4.18.2 Alternatives Concept Plans *	Sheet	10	4	40	5 Sheets at 40 scale with two alternatives
	4.18.3 Preferred Alternative *	Sheet	0	0	0	Included in Tab 4.18.2
	4.18.4 Typical Section Package *	LS	1	0	0	To be completed at Design
	4.18.5 Design Exceptions and Design Variations *	EA	0	0	0	To be completed at Design
			4.18 Concept Plans Total		80	
4.19	Transportation Management Plan *	LS	1	0	0	N/A
4.20	Risk Management					
	Meeting Materials*	LS	1	0	0	N/A
	Meeting Participation	LS	1	0	0	N/A
			4.20 Risk Management Total		0	
4.21	Engineering Analysis Documentation					
	Draft Engineering Analysis Documentation*	LS	1	120	120	Draft PER
	Final Engineering Analysis Documentation *	LS	1	80	80	Final PER
			4.21 Engineering Analysis Documentation Total		200	
4.22	Planning Consistency					
	4.22.1 Transportation Plans	LS	1	0	0	
	4.22.2 Planning Consistency Form *	LS	1	0	0	
			4.22 Planning Consistency Total		0	
4.23	Transit Systems and Service					
	4.23.1 Transit Concepts and Alternatives					N/A
	Review of Transit Concepts and Alternatives Report (TCAR)	LS	1	0	0	N/A
	Review of Bicycle/Greenway plans	LS	1	0	0	N/A
	Develop Transit Concepts and Alternatives Report *	LS	1	0	0	N/A
	4.23.2 Existing and Planned Transit Infrastructure and Services *	LS	1	0	0	N/A
	4.23.3 Connectivity and Accessibility *	LS	1	0	0	N/A
	4.23.4 Transit Operational Analysis *	LS	1	0	0	N/A
	4.23.5 Ridership and Revenue Estimations					N/A
	Ridership and Revenue Forecasts *	LS	1	0	0	N/A
	Operating and Ridership Sensitivity Testing *	LS	1	0	0	N/A
	Ridership and Revenue Results Documentation *	LS	1	0	0	N/A
	4.23.6 Transit Cost Estimates and Financial Commitments *	LS	1	0	0	N/A

ENG ANALYSIS & REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	4.23.7 Proposed Transit Service and Operations Plan *	LS	1	0	0	N/A
	4.23.8 Transit Infrastructure Alternatives *	LS	1	0	0	N/A
	4.23.9 Constructability Review *	LS	1	0	0	N/A
4.23 Transit Systems, Service, and Design Total					0	
Engineering Analysis and Report Subtotal					1362	
Hours Subject to QC					1312	
	Quality Assurance / Quality Control	LS	1	50	50	Total of 5% was negotiated for QA/QC. However, 1.2% was added for QA/QC work for FLAA which leaves WSP with 3.8% or a total of 50 hours
ENGINEERING ANALYSIS AND REPORT TOTAL HOURS					1412	

ENVIRON. ANALYSIS & REPORTS

Estimator:

Forest Lakes Blvd. Phase III from SR 580 to SR 584 (Tampa Road)
003914 A

Representing	Print Name	Signature / Date

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
NOTE: * subject to QC						
5.1	Sociocultural Effects					
	5.1 Sociocultural Effects Evaluation or Report *	LS	1	0	0	
	5.1.1 Social *	LS	1	0	0	
	5.1.2 Economic *	LS	1	0	0	
	5.1.3 Land Use Changes *	LS	1	0	0	
	5.1.4 Mobility *	LS	1	0	0	
	Transit Only *	LS	1	0	0	
	5.1.5 Aesthetics *	LS	1	0	0	
	5.1.6 Relocation Potential					
	Review and Impact Determination *	LS	1	0	0	
	Conceptual Stage Relocation Plan (CSRP) *	LS	1	0	0	
	5.1 Sociocultural Effects Total				0	
5.2	Cultural Resources					
	Research Design and Survey Methodology *	LS	1	0	0	
	5.2.1 Archaeological and Historic Resources					
	Cultural Resource Assessment Survey (CRAS) *	LS	1	0	0	
	CRAS Addendum or Technical Memo. for Pond Sites *	LS	1	0	0	
	Determination of Eligibility (DOE) As Required	LS	1	0	0	
	Case Study Report *	LS	1	0	0	
	Memorandum of Agreement (MOA) *	LS	1	0	0	
	Section 4(f) Evaluation for Historic Resources *	LS	1	0	0	
	Section 106 Consultation Meetings	LS	1	0	0	
	Native American Coordination Meeting	LS	1	0	0	
	Section 106 Public Involvement	LS	1	0	0	
	Florida Master Site File Form*	LS	1	0	0	
	5.2.2 Recreational, Section 4(f) *					
	Section 4(f) Determination of Applicability *	EA	0	0	0	
	Section 4(f) "de minimis" documentation *	EA	0	0	0	
	Section 4(f) Evaluation *	EA	0	0	0	
	5.2 Cultural Resources Total				0	
5.3	Natural Resources					
	5.3.1 Wetlands					
	Wetlands - Data Collection	LS	1	6	6	This task is for the site visit to flag any wetlands or surface waters necessary. If all wetland/surface water limits are TOB, then no flags will be set. TOB will be collected by survey.
	Wetlands - Evaluation *	LS	1	2	2	This task will be for research into whether the wetlands onsite are surface waters, wetlands, or permitted systems and to download any GPS data

ENVIRON. ANALYSIS & REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	5.3.2 Essential Fish Habitat					
	Essential Fish Habitat - Data Collection	LS	1	0	0	N/A
	Essential Fish Habitat Assessment *	LS	1	0	0	N/A
	5.3.3 Wildlife and Habitat					
	Data Collection	LS	1	6	6	This task is for the site visit to identify potential listed species within the project area. It is assumed this task will be done in conjunction with wetlands data collection No formal consultation with FWS is expected This task will be for wildlife research that will be included in the report N/A - it is not expected that there will be any listed species within the project limits
	Specific Survey and Consultation	LS	1	0	0	
	Analysis *	LS	1	2	2	
	Conservation Measures and Mitigation Plan *	LS	1	0	0	
	5.3.4 Natural Resource Evaluation (NRE) Report *	LS	1	12	12	This is assuming that I am not responsible for aerial exhibits (soils, FLUCCS, wetlands/surface waters, and possibly listed species). Add 8 hours of GIS time.
	5.3.5 Water Quality *	LS	1	0	0	N/A
	5.3.6 Special Designations *	LS	1	2	2	This task is necessary to determine special designations
	5.3.7 Identify Permit Needs *	LS	1	3	3	This task will be used to determine which permits will be needed
	5.3.8 Farmland *	LS	1	0	0	N/A
	5.3 Natural Resources Total				33	
5.4	Physical Effects					
	5.4.1 Noise					
	Methodology Meeting	LS	1	0	0	
	Data Collection	LS	1	0	0	
	Land Use Field Review/Outdoor Advertising Identification	LS	1	0	0	
	Field Measurement and Model Validation *	LS	1	0	0	
	Outdoor Advertising Identification	LS	1	0	0	
	Construction Noise and Vibration Assessment *	LS	1	0	0	
	Analysis and Noise Abatement Evaluation *	EA	0	0	0	
	Noise Report *	LS	1	0	0	
	5.4.2 Transit Noise and Vibration Analysis *	LS	1	0	0	
	5.4.3 Air Quality					
	Data Collection	LS	1	0	0	
	Screening Analysis *	LS	1	0	0	
	Air Quality Modeling *	LS	1	0	0	
	Air Quality Technical Memorandum *	LS	1	0	0	
	Mobile Air Toxics Analysis *	LS	1	0	0	
	5.4.4 Construction Impact Analysis *	LS	1	0	0	
	5.4.5 Contamination					
	Field Data	LS	1	24	24	
	Analysis and Report *	LS	1	40	40	
	5.4 Physical Effects Total				64	
5.5	Cumulative Effects Evaluation *	EA	0	0	0	
5.6	Project Commitments Record *	LS	1	0	0	
	Environmental Analysis and Report Subtotal				97	
	Hours Subject to QC				61	
	Quality Assurance / Quality Control	LS	1	3	3	Negotiated approximately 5 percent of 61 hours which equals 3 hours.
	ENVIRONMENTAL ANALYSIS AND REPORT TOTAL HOURS				100	

**PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA**

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: Forest Lakes Blvd. Phase III from SR 580 to SR 584 (Tampa Road)
 County: Pinellas
 FPN: 003914 A
 FAP No.: N/A

Consult. Name: ACI
 Consult. No.
 Date: 9/21/2021
 Estimator:

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Archaeologist	Chief Archaeologist	Chief Scientist	GIS Specialist	Scientist	Secretary/Clerical	Senior Scientist						SH	Salary	Average
															By Activity	Cost By Activity
		\$50.77	\$104.79	\$186.01	\$55.82	\$94.66	\$76.75	\$108.85	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
General Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
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	148	24	39	19	14	0	8	44	0	0	0	0	0	148	\$15,024	\$101.52
Optional Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	148	24	39	19	14	0	8	44	0	0	0	0	0	148		
Total Staff Cost		\$1,218.48	\$4,086.81	\$3,534.19	\$781.48	\$0.00	\$614.00	\$4,789.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$15,024.36	\$101.52

Check = \$15,024.36

SALARY RELATED COSTS:		\$15,024.36
OVERHEAD:	0.00%	\$0.00
OPERATING MARGIN:	0.00%	\$0.00
FCCM (Facilities Capital Cost Money):	0.00%	\$0.00
EXPENSES:	0.00%	\$0.00
SALARY RELATED SUBTOTAL:		\$15,024.36
Survey (Field - if by Sub)	0.00 4-man crew days \$ - / day	\$0.00
SUBTOTAL - SUBCONSULTANT		\$15,024.36
Optional Services		\$0.00
SUBCONSULTANT TOTAL ESTIMATED FEE:		\$15,024.36

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

ENVIRON. ANALYSIS & REPO_ACI

Estimator:

Forest Lakes Blvd. Phase III from SR 580 to SR 584 (Tampa Road)
003914 A

Representing	Print Name	Signature / Date

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
NOTE: * subject to QC						
5.1	Sociocultural Effects					
	5.1 Sociocultural Effects Evaluation or Report *	LS	1	0	0	
	5.1.1 Social *	LS	1	0	0	
	5.1.2 Economic *	LS	1	0	0	
	5.1.3 Land Use Changes *	LS	1	0	0	
	5.1.4 Mobility *	LS	1	0	0	
	Transit Only *	LS	1	0	0	
	5.1.5 Aesthetics *	LS	1	0	0	
	5.1.6 Relocation Potential					
	Review and Impact Determination *	LS	1	0	0	
	Conceptual Stage Relocation Plan (CSRP) *	LS	1	0	0	
	5.1 Sociocultural Effects Total				0	
5.2	Cultural Resources					
	Research Design and Survey Methodology *	LS	1	0	0	
	5.2.1 Archaeological and Historic Resources					
	Cultural Resource Assessment Survey (CRAS) *	LS	1	141	141	1. ACI will prepare a CRAS report for the proposed road widening, ponds, addition of bike lanes, sidewalk, and trail alignment; 2. archaeological and historical background research will be conducted prior to field survey; 3. Archaeological field survey will consist of 2 archaeologists for 3 days; evidence of 1 new archaeological site anticipated; 4. Historical field survey will consist of 1 historian for 1 field day; anticipate recording approximately three new historic resources (built in 1976 or earlier) and updating one previously recorded historic resource; 5. ACI will prepare a CRAS report including background research and GIS review (2 draft and 1 final); 6. Meetings and coordination. Note: pond site review and survey will not be a separate report but included in the CRAS document.
	CRAS Addendum or Technical Memo. for Pond Sites *	LS	1	0	0	
	Determination of Eligibility (DOE) As Required	LS	1	0	0	
	Case Study Report *	LS	1	0	0	
	Memorandum of Agreement (MOA) *	LS	1	0	0	
	Section 4(f) Evaluation for Historic Resources *	LS	1	0	0	
	Section 106 Consultation Meetings	LS	1	0	0	
	Native American Coordination Meeting	LS	1	0	0	
	Section 106 Public Involvement	LS	1	0	0	
	Florida Master Site File Form*	LS	1	0	0	
	5.2.2 Recreational, Section 4(f) *					
	Section 4(f) Determination of Applicability *	EA	0	0	0	
	Section 4(f) "de minimis" documentation *	EA	0	0	0	
	Section 4(f) Evaluation *	EA	0	0	0	
	5.2 Cultural Resources Total				141	

ENVIRON. ANALYSIS & REPO_ACI

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
5.3	Natural Resources					
	5.3.1 Wetlands					
	Wetlands - Data Collection	LS	1	0	0	
	Wetlands - Evaluation *	LS	1	0	0	
	5.3.2 Essential Fish Habitat					
	Essential Fish Habitat - Data Collection	LS	1	0	0	
	Essential Fish Habitat Assessment *	LS	1	0	0	
	5.3.3 Wildlife and Habitat					
	Data Collection	LS	1	0	0	
	Specific Survey and Consultation	LS	1	0	0	
	Analysis *	LS	1	0	0	
	Conservation Measures and Mitigation Plan *	LS	1	0	0	
	5.3.4 Natural Resource Evaluation (NRE) Report *	LS	1	0	0	
	5.3.5 Water Quality *	LS	1	0	0	
	5.3.6 Special Designations *	LS	1	0	0	
	5.3.7 Identify Permit Needs *	LS	1	0	0	
	5.3.8 Farmland *	LS	1	0	0	
	5.3 Natural Resources Total				0	
5.4	Physical Effects					
	5.4.1 Noise					
	Methodology Meeting	LS	1	0	0	
	Data Collection	LS	1	0	0	
	Land Use Field Review/Outdoor Advertising Identification	LS	1	0	0	
	Field Measurement and Model Validation *	LS	1	0	0	
	Outdoor Advertising Identification	LS	1	0	0	
	Construction Noise and Vibration Assessment *	LS	1	0	0	
	Analysis and Noise Abatement Evaluation *	EA	0	0	0	
	Noise Report *	LS	1	0	0	
	5.4.2 Transit Noise and Vibration Analysis *	LS	1	0	0	
	5.4.3 Air Quality					
	Data Collection	LS	1	0	0	
	Screening Analysis *	LS	1	0	0	
	Air Quality Modeling *	LS	1	0	0	
	Air Quality Technical Memorandum *	LS	1	0	0	
	Mobile Air Toxics Analysis *	LS	1	0	0	
	5.4.4 Construction Impact Analysis *	LS	1	0	0	
	5.4.5 Contamination					
	Field Data	LS	1	0	0	
	Analysis and Report *	LS	1	0	0	
	5.4 Physical Effects Total				0	
5.5	Cumulative Effects Evaluation *	EA	0	0	0	
5.6	Project Commitments Record *	LS	1	0	0	
Environmental Analysis and Report Subtotal					141	
Hours Subject to QC					141	

ENVIRON. ANALYSIS & REPO_ACI

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	Quality Assurance / Quality Control	LS	1	7	7	Negotiated approximately 5 percent of 141 hours which equals 7 hours.
ENVIRONMENTAL ANALYSIS AND REPORT TOTAL HOURS					148	

**PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA**

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: Forest Lakes Blvd. Phase III from SR 580 to SR 584 (Tampa Road)
 County: Pinellas
 FPN: 003914 A
 FAP No.: N/A

Consult. Name: BES
 Consult. No.
 Date: 9/21/2021
 Estimator:

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Chief Engineer II	Sr Engineering Technician											SH	Salary	Average
		\$221.85	\$73.93	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	By Activity	Cost By Activity
General Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Public Involvement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Engineering Analysis & Report	111	11	100	0	0	0	0	0	0	0	0	0	0	111	\$9,833	\$88.59
Environmental Analysis & Reports	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Optional Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	111	11	100	0	0	0	0	0	0	0	0	0	0	111		
Total Staff Cost		\$2,440.35	\$7,393.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$9,833.35	\$88.59

Check = \$9,833.35

SALARY RELATED COSTS:		\$9,833.35
OVERHEAD:	0.00%	\$0.00
OPERATING MARGIN:	0.00%	\$0.00
FCCM (Facilities Capital Cost Money):	0.00%	\$0.00
EXPENSES:	0.00%	\$0.00
SALARY RELATED SUBTOTAL:		\$9,833.35
Survey (Field - if by Sub)	0.00 4-man crew days \$ - / day	\$0.00
SUBTOTAL - SUBCONSULTANT		\$9,833.35
Optional Services		\$0.00
SUBCONSULTANT TOTAL ESTIMATED FEE:		\$9,833.35

Note:

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

ENG ANALYSIS & REPORTS_BES

Estimator:

Forest Lakes Blvd. Phase III from SR 580 to SR 584 (Tampa Road)
003914 A

Representing	Print Name	Signature / Date

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
NOTE: * subject to QC						
4.1	Review of Previous Studies	LS	1	0	0	
4.2	Existing Conditions Analysis					
	Data Collection	LS	1	0	0	
	Field Review	LS	1	0	0	
	4.2 Existing Conditions Analysis Total				0	
4.3	Survey					
	4.3.1 Survey Design *	LS	1	0	0	
	Survey Coordination	LS	1	0	0	
	4.3.2 Photogrammetry *	LS	1	0	0	
	Aerial Photography	LS	1	0	0	
	4.3 Survey Total				0	
4.4	Geotechnical Investigation					
	Soils	LS	1	0	0	
	Geotechnical Coordination	LS	1	0	0	
	Geotechnical Design Services *	LS	1	0	0	
	4.4 Geotechnical Investigation Total				0	
4.5	Traffic Analysis					
	4.5.1 Traffic Analysis Methodology *	LS	1	0	0	
	4.5.2 Traffic Counts *	LS	1	106	106	Includes 72-hr Bi-directional Classification Counts south of Tampa Road and north of SR 580 and on each approach of the intersections of SR 580 and SR 584; Hours also include Intersection Turning Movement Counts at 7 intersections
	4.5.3 Vehicle Class. Counts on Roadway Segments and Ramps *	LS	1	0	0	
	4.5.4 Pedestrian, Bicycle, and Other Multimodal Data *	LS	1	0	0	
	4.5.5 Calibration and Validation Data *	LS	1	0	0	
	4.5.6 Existing Traffic Operational Analysis *	LS	1	0	0	
	4.5.7 Model Calibration and Validation *	LS	1	0	0	
	4.5.8 Future Demand Forecasting *	LS	1	0	0	
	4.5.9 No-Build Analysis *	LS	1	0	0	
	4.5.10 Development and Screening of Alternatives *	LS	1	0	0	
	4.5.11 Operational Evaluation of Build Alternatives *	LS	1	0	0	
	4.5.12 Project Traffic Analysis Report *	LS	1	0	0	
	4.5.13 Interchange Access Request *	LS	1	0	0	

ENG ANALYSIS & REPORTS_BES

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	4.5.14 Traffic Data for Noise Study *	EA	0	0	0	
	4.5.15 Traffic Data for Air Quality Analysis *	EA	0	0	0	
	4.5.16 Signalization Analysis *	LS	1	0	0	
	4.5 Traffic Analysis Total				106	
4.6	Signage *	LS	1	0	0	
4.7	Tolling Concepts *	LS	1	0	0	
4.8	Safety					
	4.8.1 Crash Data *	LS	1	0	0	
	4.8.2 Safety Analysis					
	Historical Crash Analysis *	LS	1	0	0	
	HSM Safety Analysis *	LS	1	0	0	
	4.8.3 Documentation of Safety Analysis *	LS	1	0	0	
	4.8 Safety Total				0	
4.9	Utilities and Railroads					
	4.9.1 Utilities *	EA	1	0	0	
	4.9.2 Railroad *	EA	1	0	0	
	4.9 Utilities and Railroads Total				0	
4.10	Roadway Analysis					
	4.10.1 Design Controls and Criteria *	LS	1	0	0	
	4.10.2 Typical Section Analysis *	EA	1	0	0	
	4.10.3 Geometric Design*	LS	1	0	0	
	4.10.4 Intersections and Interchange Evaluation *	EA	0	0	0	
	4.10.5 Access Management *	LS	1	0	0	
	4.10.6 Multimodal Accommodations *	LS	1	0	0	
	4.10.7 Maintenance of Traffic *	LS	1	0	0	
	4.10.8 Lighting *	LS	1	0	0	
	4.10 Roadway Total				0	
4.11	Identify Construction Segments *	LS	1	0	0	
4.12	Transportation Systems Management and Operations *	LS	1	0	0	
4.13	Structures					
	4.13.1 Existing Structures*	EA	0	0	0	
	4.13.2 Structure Typical Sections *	EA	0	0	0	
	4.13.3 Structure Design Alternatives *	EA	0	0	0	
	4.13 Structures Total				0	
4.14	Drainage					
	4.14.1 Floodplain and Environmental Permit Data Collection *	LS	0	0	0	
	4.14.2 Drainage Analysis *	Per Basin	0	0	0	
	4.14.3 Floodplain Compensation Analysis *	Per Encroach.	0	0	0	
	4.14.4 Stormwater Management Analysis					
	Enviro. Look Around (ELA) Meeting and Pond Siting Meeting	LS	0	0	0	

ENG ANALYSIS & REPORTS_BES

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	Stormwater Management *	Per Basin	0	0	0	
	Pond Siting Report or Conceptual Drainage Design Report*	LS	0	0	0	
	4.14.5 Drainage Design *	LS	0	0	0	
	4.14.6 Location Hydraulic Report *	LS	0	0	0	
	4.14.7 Bridge Hydraulic Evaluation*	EA	0	0	0	
	4.14 Drainage Total				0	
4.15	Landscaping Analysis *	LS	0	0	0	
4.16	Construction and Right of Way Cost Estimates					
	4.16.1 Construction Cost Estimates *	LS	0	0	0	
	4.16.2 Right of Way Cost Estimates *	LS	0	0	0	
	4.16 Construction and Right of Way Cost Estimates Total				0	
4.17	Alternatives Evaluation					
	4.17.1 Comparative Alternatives Evaluation *	LS	0	0	0	
	4.17.2 Selection of Recommended Alternative *	LS	0	0	0	
	4.17.3 Value Engineering *	LS	0	0	0	
	4.17 Alternatives Evaluation Total				0	
4.18	Concept Plans					
	4.18.1 Base Map *	Sheet	0	0	0	
	4.18.2 Alternatives Concept Plans *	Sheet	0	0	0	
	4.18.3 Preferred Alternative *	Sheet	0	0	0	
	4.18.4 Typical Section Package *	LS	0	0	0	
	4.18.5 Design Exceptions and Design Variations *	EA	0	0	0	
	4.18 Concept Plans Total				0	
4.19	Transportation Management Plan *	LS	0	0	0	
4.20	Risk Management					
	Meeting Materials*	LS	0	0	0	
	Meeting Participation	LS	0	0	0	
	4.20 Risk Management Total				0	
4.21	Engineering Analysis Documentation					
	Draft Engineering Analysis Documentation*	LS	1	0	0	
	Final Engineering Analysis Documentation *	LS	1	0	0	
	4.21 Engineering Analysis Documentation Total				0	
4.22	Planning Consistency					
	4.22.1 Transportation Plans	LS	1	0	0	
	4.22.2 Planning Consistency Form *	LS	1	0	0	
	4.22 Planning Consistency Total				0	
4.23	Transit Systems and Service					
	4.23.1 Transit Concepts and Alternatives					
	Review of Transit Concepts and Alternatives Report (TCAR)	LS	1	0	0	
	Review of Bicycle/Greenway plans	LS	1	0	0	

ENG ANALYSIS & REPORTS_BES

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	<i>Develop Transit Concepts and Alternatives Report *</i>	LS	1	0	0	
	<i>4.23.2 Existing and Planned Transit Infrastructure and Services *</i>	LS	1	0	0	
	<i>4.23.3 Connectivity and Accessibility *</i>	LS	1	0	0	
	<i>4.23.4 Transit Operational Analysis *</i>	LS	1	0	0	
	<i>4.23.5 Ridership and Revenue Estimations</i>					
	<i>Ridership and Revenue Forecasts *</i>	LS	1	0	0	
	<i>Operating and Ridership Sensitivity Testing *</i>	LS	1	0	0	
	<i>Ridership and Revenue Results Documentation *</i>	LS	1	0	0	
	<i>4.23.6 Transit Cost Estimates and Financial Commitments *</i>	LS	1	0	0	
	<i>4.23.7 Proposed Transit Service and Operations Plan *</i>	LS	1	0	0	
	<i>4.23.8 Transit Infrastructure Alternatives *</i>	LS	1	0	0	
	<i>4.23.9 Constructability Review *</i>	LS	1	0	0	
	4.23 Transit Systems, Service, and Design Total				0	
	Engineering Analysis and Report Subtotal				106	
	Hours Subject to QC				106	
	Quality Assurance / Quality Control	LS	1	5	5	Negotiated approximately 5 percent of 128 hours which equals 5 hours.
	ENGINEERING ANALYSIS AND REPORT TOTAL HOURS				111	

ESTIMATE OF WORK EFFORT AND COST - MADRID

Name of Project: Forest Lakes Blvd
 County: Pinellas
 FPN: 999999-1-32-01
 FAP No.: 54321

Consultant Name: Madrid CPWG
 Consultant No.: enter consultants proj. number
 Date: 9/21/2021
 Estimator: insert name

Staff Classification	Total Staff Hours From "SH Summary Firm"	Project Manager	Chief Engineer	EI	GIS	Clerical	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
		\$0.00	\$270.00	\$105.00	\$80.00	\$60.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
3. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
8. Environmental Permits, and Env. Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
25. Landscape Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	111	0	7	78	22	4	0	0	0	0	0	0	0	111	\$12,080	\$108.83
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	111	0	7	78	22	4	0	0	0	0	0	0	0	111		
Total Staff Cost		\$0.00	\$1,890.00	\$8,190.00	\$1,760.00	\$240.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$12,080.00	\$108.83

Check = \$12,080.00

SALARY RELATED COSTS:				\$12,080.00
OVERHEAD:		0%		\$0.00
OPERATING MARGIN:		0%		\$0.00
FCCM (Facilities Capital Cost Money):		0.00%		\$0.00
EXPENSES:		0.00%		\$0.00
SUBTOTAL ESTIMATED FEE:				\$12,080.00
Survey (Field)	0	4-person crew	days @-	\$0.00 / day
Geotechnical Field and Lab Testing				\$15,651.00
SUBTOTAL ESTIMATED FEE:				\$27,731.00
Optional Services				\$0.00
GRAND TOTAL ESTIMATED FEE:				\$27,731.00

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

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - MADRID

Financial Project Number: 999999-1-32-01

Project Name: Forest Lakes Blvd

FAP Number: 54321

Date: 9/21/2021

Name of Consultant: Madrid CPWG

WORK ACTIVITY	Hours from "Summary" sheet		EMPLOYEE CLASSIFICATION												TOTAL STAFF HOURS		ON CADD
	Firm	Total	Project Manager	Chief Engineer	EI	GIS	Clerical	Staff Classification 6	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	RANGE		PERCENT
	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours			
3. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8. Environmental Permits, and Env. Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25. Landscape Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26. Landscape Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
35. Geotechnical	111	0	7	78	22	4	0	0	0	0	0	0	0	0	111	122	
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTALS	111	0	7	78	22	4	0	0	0	0	0	0	0	0	111	122	

Field Survey Estimate:

0 4-person crew days

FIRM TOTAL

111

122

Notes:

1. This worksheet provides the distribution of a firm's total staff hours for a project.
2. Percentages for staff hour distribution by classification are entered below in rows 64 to 98 of this sheet.
3. Total Staff Hours (column O) may not match staff hours from Summary worksheet (column B) due to rounding. Staff hours calculated for employee classifications are to be adjusted so totals in columns B and O match.
4. Formulas under "Total Staff Hours Range" (columns O & P) may be adjusted to provide desired range.

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - MADRID

Financial Project Number: 999999-1-32-01

Project Name Forest Lakes Blvd

FAP Number: 54321

Date: 9/21/2021

Name of Consultant: Madrid CPWG

Staff Hour Distribution Percentages - Firm Total

	Hours from *Summary* sheet Firm Total	Project Manager	Chief Engineer	EI	GIS	Clerical	Staff Classi- fication 6	Staff Classi- fication 7	Staff Classi- fication 8	Staff Classi- fication 9	Staff Classi- fication 10	Staff Classi- fication 11	Staff Classi- fication 12	Total
3. Project General and Project Common Tasks	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%	0.00%
4. Roadway Analysis	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%	0.00%
5. Roadway Plans	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%	0.00%
6a. Drainage Analysis	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%	0.00%
6b. Drainage Plans	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%	0.00%
7. Utilities	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%	0.00%
8. Environmental Permits, and Env. Clearances	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%	0.00%
9. Structures - Misc. Tasks, Dwg, Non-Tech.	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%	0.00%
10. Structures - Bridge Development Report	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%	0.00%
11. Structures - Temporary Bridge	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%	0.00%
12. Structures - Short Span Concrete Bridge	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%	0.00%
13. Structures - Medium Span Concrete Bridge	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%	0.00%
14. Structures - Structural Steel Bridge	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%	0.00%
15. Structures - Segmental Concrete Bridge	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%	0.00%
16. Structures - Movable Span	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%	0.00%
17. Structures - Retaining Walls	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%	0.00%
18. Structures - Miscellaneous	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%	0.00%
19. Signing & Pavement Marking Analysis	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%	0.00%
20. Signing & Pavement Marking Plans	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%	0.00%
21. Signalization Analysis	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%	0.00%
22. Signalization Plans	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%	0.00%
23. Lighting Analysis	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%	0.00%
24. Lighting Plans	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%	0.00%
25. Landscape Analysis	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%	0.00%
26. Landscape Plans	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%	0.00%
27. Survey (Field & Office Support)	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%	0.00%
28. Photogrammetry	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%	0.00%
29. Mapping	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%	0.00%
30. Terrestrial Mobile LiDAR	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%	0.00%
31. Architecture Development	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%	0.00%
32. Noise Barriers Impact Design Assessment	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%	0.00%
33. Intelligent Transportation Systems Analysis	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%	0.00%
34. Intelligent Transportation Systems Plans	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%	0.00%
35. Geotechnical	111	0.0%	6.0%	70.0%	20.0%	4.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
36. 3D Modeling	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%	0.00%

**Geotechnical -
MADRID**

Estimator:

Forest Lakes Blvd
999999-1-32-01

Representing	Print Name	Signature / Date
FDOT District		
Madrid CPWG	Paul Passe	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
	Roadway					
35.1	Document Collection and Review	LS	1	4	4	
35.2	Develop Detailed Boring Location Plan	LS	1	1	1	
35.3	Stake Borings/Utility Clearance	Boring	32	0.25	8	7 Hand auger & 25 roadway borings
35.4	Muck Probing	Crew Day	0	0	0	
35.5	Coordinate and Develop MOT Plans for Field Investigation	EA	1	2	2	
35.6	Drilling Access Permits	Location	0	0	0	Work within R/W
35.7	Property Clearances	EA	0	0	0	To be performed by the County
35.8	Groundwater Monitoring	EA	0	0	0	
35.9	LBR/Resilient Modulus Sampling	EA	1	6	6	gather 6 samples
35.10	Coordination of Field Work	100 lf of boring	1	7	7	Assume approximately 3.5 LF at 2 hours per LF which equals 7
35.11	Soil and Rock Classification - Roadway	100 lf of boring	1	8	8	Assume approximately 3.5 LF at 2.25 hours per LF which equals 8
35.12	Design LBR	LS	1	2	2	
35.13	Laboratory Data	100 lf of boring	1	7	7	Assume approximately 3.5 LF at 2 hours per LF which equals 7
35.14	Seasonal High Water Table	Boring	25	0.2	5	
35.15	Parameters for Water Retention Areas	EA	0	0	0	
35.16	Delineate Limits of Unsuitable Material	Cross-section	0	0	0	
35.17	Electronic Files for Cross-Sections	100 lf of boring	1	5	5	Assume approximately 3.5 LF at 1.5 hours per LF which equals 5
35.18	Embankment Settlement and Stability	Embankment Boring	0	0	0	
35.19	Monitor Existing Structures	LS	0	0	0	

Geotechnical

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
35.20	Stormwater Volume Recovery and/or Background Seepage Analysis	EA	0	0	0	
35.21	Geotechnical Recommendations	LS	1	10	10	
35.22	Pavement Condition Survey and Pavement Evaluation Report	LS	0	0	0	
35.23	Preliminary Roadway Report	LS	1	8	8	
35.24	Final Report	EA	1	2	2	
35.25	Auger Boring Drafting	100 lf boring	0.5	4	2	
35.26	SPT Boring Drafting	100 lf boring	3	5	15	
Roadway Geotechnical Subtotal					92	
	Structures					
35.27	Develop Detailed Boring Location Plan	LS	0	0	0	
35.28	Stake Borings/Utility Clearance	Boring	0	0	0	
35.29	Coordinate and Develop MOT Plans for Field Investigation	EA	0	0	0	
35.30	Drilling Access Permits	Location	0	0	0	
35.31	Property Clearances	EA	0	0	0	
35.32	Collection of Corrosion Samples	EA	6	0.5	3	for alternate material selection
35.33	Coordination of Field Work	100 lf of boring	0	0	0	
35.34	Soil and Rock Classification - Structures	100 lf of boring	0	0	0	
35.35	Tabulation of Laboratory Data	100 lf of boring	0	0	0	
35.36	Estimate Design Groundwater Level for Structures	EA	0	0	0	
35.37	Selection of Foundation Alternatives (BDR)	Bridge boring	0	0	0	
35.38	Detailed Analysis of Selected Foundation Alternate(s)	Bridge boring	0	0	0	
35.39	Bridge Construction and Testing Recommendations	Bridge boring	0	0	0	
35.40	Lateral Load Analysis (Optional)	Bridge boring	0	0	0	
35.41	Walls	Wall Boring	0	0	0	
35.42	Sheet Pile Wall Analysis (Optional)	Wall Boring	0	0	0	
35.43	Design Soil Parameters for Signs, Signals, High Mast Lights, and Strain Poles and Geotechnical Recommendations	Boring	0	0	0	

Geotechnical

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
35.44	Box Culvert Analysis	EA	0	0	0	
35.45	Preliminary Report - BDR	EA	0	0	0	
35.46	Final Report - Bridge and Associated Walls	EA	0	0	0	
35.47	Final Reports - Signs, Signals, Box Culvert, Walls and High Mast Lights	EA	0	0	0	
35.48	SPT Boring Drafting	100 lf of boring	0	0	0	
35.49	Other Geotechnical	LS	0	0	0	
Structural Geotechnical Subtotal					3	
Geotechnical Technical Subtotal					95	
35.50	Technical Special Provisions and Modified Special Provisions	EA	0	0	0	
35.51	Field Reviews	LS	1	4	4	
35.52	Technical Meetings	LS	1	0	0	Meetings listed below
35.53	Quality Assurance/Quality Control	LS	1	5	5	
35.54	Supervision	LS	1	3	3	
Geotechnical Nontechnical Subtotal					12	
35.55	Coordination	LS	1	4	4	
35. Geotechnical Total					111	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Kickoff Meeting with FDOT	EA	0	0	0			0
Boring Layout Approval	EA	1	0	0			0
Attend in BDR Review Meeting	EA	0	0	0			0
30/60/90% Submittal Review	EA	0	0	0			0
Other Meetings	EA	0	0	0			0
Subtotal Technical Meetings				0		Subtotal Project Manager Meetings	0
Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3		--
Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3		--
Total Meetings				0	Total Project Manager Meetings (carries to Tab 3)		0

Carries to 35.52

Carries to Tab 3

**MADRID FIELD
AND LAB FEE**

**ESTIMATED QUANTITIES FOR FIELD INVESTIGATION
Forest Lakes Blvd. Phase III**

<i>Item No.</i>	<i>Description</i>	<i>Unit</i>	<i>Estimated Units</i>	<i>Rate</i>	<i>Estimated Fee</i>
Mobilization and Transportation of Exploratory Equipment to the Site					
418	Geo Drill Crew Support Vehicle	Day	6	\$ 160.00	\$960.00
603	Mobilization Asphalt Coring Equipment	Each	0	\$ 355.00	\$0.00
612	Mobilization Drill Rig Truck Mount (<100 miles 1-way)	Each	1	\$ 500.00	\$500.00
619	Mobilization Tri-Pod	Each	0	\$ 1,050.00	\$0.00
Pavement Coring					
209	Asphalt Pavement Coring – 4" dia with Base Depth Check	Each	0	\$ 175.00	\$0.00
Standard Penetration Test (SPT) Borings - Land					
478	Geo SPT Truck/Mud Bug 0-50 Ft	Foot	400	\$ 15.00	\$6,000.00
479	Geo SPT Truck/Mud Bug 50-100 Ft	Foot	0	\$ 17.75	\$0.00
480	Geo SPT Truck/Mud Bug 100-150 Ft	Foot	0	\$ 25.00	\$0.00
481	Geo SPT Truck/Mud Bug 150-200 Ft	Foot	0	\$ 33.00	\$0.00
482	Geo SPT Truck/Mud Bug 200-250 Ft	Foot	0	\$ 40.25	\$0.00
Grout Bore Holes - Land					
440	Geo Grout Boreholes- Truck/Mud Bug 0-50 Ft up to 4" diam	Foot	400	\$ 5.50	\$2,200.00
441	Geo Grout Boreholes- Truck/Mud Bug 50-100 Ft up to 4" diam	Foot	0	\$ 7.00	\$0.00
442	Geo Grout Boreholes- Truck/Mud Bug 100-150 Ft up to 4" diam	Foot	0	\$ 8.75	\$0.00
443	Geo Grout Boreholes- Truck/Mud Bug 150-200 Ft up to 4" diam	Foot	0	\$ 11.50	\$0.00
444	Geo Grout Boreholes- Truck/Mud Bug 200-250 Ft up to 4" diam	Foot	0	\$ 13.50	\$0.00
Auger Borings					
401	Geo Auger Borings-Hand & Truck/Mud Bug	Foot	42	\$ 10.50	\$441.00
Geotechnical Laboratory Testing					
805	Soils Corrosion Series FM 5-550 through 5-553	Each	5	\$ 235.00	\$1,175.00
812	Soils Materials Finer than 200 Sieve FM 1-T011	Each	25	\$ 45.00	\$1,125.00
817	Soils Moisture Content Laboratory AASHTO T265	Each	20	\$ 15.00	\$300.00
819	Soils Organic Content Ignition FM 1 T-267	Each	\$	\$ 45.00	\$0.00
822	Soils Particle Size Anlys AASHTO T88 (No Hydrometer)	Each	4	\$ 75.00	\$300.00
823	Soils Permeability Constant Head AASHTO T215	Each	\$	\$ 320.00	\$0.00
824	Soils Permeability Falling Head FM 5-513	Each	\$	\$ 350.00	\$0.00
810	Soils Limerock Bearing Ratio (LBR) FM 5-515	Each	5	\$ 350.00	\$1,750.00
811	Soils Liquid Limit AASHTO T89	Each	8	\$ 57.50	\$460.00
826	Soils Plastic Limit & Plasticity Index AASHTO T89/T90 / ASTM	Each	8	\$ 55.00	\$440.00
ESTIMATED FIELD AND LAB FEE					\$15,651.00

**PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA**

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: Forest Lakes Blvd. Phase III from SR 580 to SR 584 (Tampa Road)
 County: Pinellas
 FPN: 003914 A
 FAP No.: N/A

Consult. Name: FLAA
 Consult. No.
 Date: 9/21/2021
 Estimator:

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Project Manager 3	Appraiser	Senior Acquisition Agent	Senior Relocation Agent	Acquisition Agent	Relocation Agent	Property Management Agent	Secretary					SH	Salary	Average
		\$150.00	\$150.00	\$135.00	\$135.00	\$105.00	\$105.00	\$105.00	\$65.00	\$0.00	\$0.00	\$0.00	\$0.00	By Activity	Cost By Activity	Rate Per Task
General Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Public Involvement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Engineering Analysis & Report	16	8	8	0	0	0	0	0	0	0	0	0	0	16	\$2,400	\$150.00
Environmental Analysis & Reports	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Optional Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	16	8	8	0	0	0	0	0	0	0	0	0	0	16		
Total Staff Cost		\$1,200.00	\$1,200.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$2,400.00	\$150.00

Check = \$2,400.00

SALARY RELATED COSTS:		\$2,400.00
OVERHEAD:	0.00%	\$0.00
OPERATING MARGIN:	0.00%	\$0.00
FCCM (Facilities Capital Cost Money):	0.00%	\$0.00
EXPENSES:	0.00%	\$0.00
SALARY RELATED SUBTOTAL:		\$2,400.00
Survey (Field - if by Sub)	0.00 4-man crew days \$ - / day	\$0.00
SUBTOTAL - SUBCONSULTANT		\$2,400.00
Optional Services		\$0.00
SUBCONSULTANT TOTAL ESTIMATED FEE:		\$2,400.00

Note:

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

ENG ANALYSIS & REPORTS_FLAA

Estimator:

Forest Lakes Blvd. Phase III from SR 580 to SR 584 (Tampa Road)
003914 A

Representing	Print Name	Signature / Date

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
NOTE: * subject to QC						
4.1	Review of Previous Studies	LS	1	0	0	
4.2	Existing Conditions Analysis					
	Data Collection	LS	1	0	0	
	Field Review	LS	1	0	0	
	4.2 Existing Conditions Analysis Total				0	
4.3	Survey					
	4.3.1 Survey Design *	LS	1	0	0	
	Survey Coordination	LS	1	0	0	
	4.3.2 Photogrammetry *	LS	1	0	0	
	Aerial Photography	LS	1	0	0	
	4.3 Survey Total				0	
4.4	Geotechnical Investigation					
	Soils	LS	1	0	0	
	Geotechnical Coordination	LS	1	0	0	
	Geotechnical Design Services *	LS	1	0	0	
	4.4 Geotechnical Investigation Total				0	
4.5	Traffic Analysis					
	4.5.1 Traffic Analysis Methodology *	LS	1	0	0	
	4.5.2 Traffic Counts *	LS	1	0	0	
	4.5.3 Vehicle Class. Counts on Roadway Segments and Ramps *	LS	1	0	0	
	4.5.4 Pedestrian, Bicycle, and Other Multimodal Data *	LS	1	0	0	
	4.5.5 Calibration and Validation Data *	LS	1	0	0	
	4.5.6 Existing Traffic Operational Analysis *	LS	1	0	0	
	4.5.7 Model Calibration and Validation *	LS	1	0	0	
	4.5.8 Future Demand Forecasting *	LS	1	0	0	
	4.5.9 No-Build Analysis *	LS	1	0	0	
	4.5.10 Development and Screening of Alternatives *	LS	1	0	0	
	4.5.11 Operational Evaluation of Build Alternatives *	LS	1	0	0	
	4.5.12 Project Traffic Analysis Report *	LS	1	0	0	
	4.5.13 Interchange Access Request *	LS	1	0	0	
	4.5.14 Traffic Data for Noise Study *	EA	0	0	0	
	4.5.15 Traffic Data for Air Quality Analysis *	EA	0	0	0	

ENG ANALYSIS & REPORTS_FLAA

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	4.5.16 Signalization Analysis *	LS	1	0	0	
	4.5 Traffic Analysis Total				0	
4.6	Signage *	LS	1	0	0	
4.7	Tolling Concepts *	LS	1	0	0	
4.8	Safety					
	4.8.1 Crash Data *	LS	1	0	0	
	4.8.2 Safety Analysis					
	Historical Crash Analysis *	LS	1	0	0	
	HSM Safety Analysis *	LS	1	0	0	
	4.8.3 Documentation of Safety Analysis *	LS	1	0	0	
	4.8 Safety Total				0	
4.9	Utilities and Railroads					
	4.9.1 Utilities *	EA	1	0	0	
	4.9.2 Railroad *	EA	1	0	0	
	4.9 Utilities and Railroads Total				0	
4.10	Roadway Analysis					
	4.10.1 Design Controls and Criteria *	LS	1	0	0	
	4.10.2 Typical Section Analysis *	EA	1	0	0	
	4.10.3 Geometric Design*	LS	1	0	0	
	4.10.4 Intersections and Interchange Evaluation *	EA	0	0	0	
	4.10.5 Access Management *	LS	1	0	0	
	4.10.6 Multimodal Accommodations *	LS	1	0	0	
	4.10.7 Maintenance of Traffic *	LS	1	0	0	
	4.10.8 Lighting *	LS	1	0	0	
	4.10 Roadway Total				0	
4.11	Identify Construction Segments *	LS	1	0	0	
4.12	Transportation Systems Management and Operations *	LS	1	0	0	
4.13	Structures					
	4.13.1 Existing Structures*	EA	0	0	0	
	4.13.2 Structure Typical Sections *	EA	0	0	0	
	4.13.3 Structure Design Alternatives *	EA	0	0	0	
	4.13 Structures Total				0	
4.14	Drainage					
	4.14.1 Floodplain and Environmental Permit Data Collection *	LS	0	0	0	
	4.14.2 Drainage Analysis *	Per Basin	0	0	0	
	4.14.3 Floodplain Compensation Analysis *	Per Encroach.	0	0	0	
	4.14.4 Stormwater Management Analysis					
	Enviro. Look Around (ELA) Meeting and Pond Siting Meeting	LS	0	0	0	
	Stormwater Management *	Per Basin	0	0	0	
	Pond Siting Report or Conceptual Drainage Design Report*	LS	0	0	0	

ENG ANALYSIS & REPORTS_FLAA

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	4.14.5 Drainage Design *	LS	0	0	0	
	4.14.6 Location Hydraulic Report *	LS	0	0	0	
	4.14.7 Bridge Hydraulic Evaluation*	EA	0	0	0	
	4.14 Drainage Total				0	
4.15	Landscaping Analysis *	LS	0	0	0	
4.16	Construction and Right of Way Cost Estimates					
	4.16.1 Construction Cost Estimates *	LS	0	0	0	
	4.16.2 Right of Way Cost Estimates *	LS	0	0	0	
	4.16 Construction and Right of Way Cost Estimates Total				0	
4.17	Alternatives Evaluation					
	4.17.1 Comparative Alternatives Evaluation *	LS	0	0	0	
	4.17.2 Selection of Recommended Alternative *	LS	0	0	0	
	4.17.3 Value Engineering *	LS	0	0	0	
	4.17 Alternatives Evaluation Total				0	
4.18	Concept Plans					
	4.18.1 Base Map *	Sheet	0	0	0	
	4.18.2 Alternatives Concept Plans *	Sheet	0	0	0	
	4.18.3 Preferred Alternative *	Sheet	0	0	0	
	4.18.4 Typical Section Package *	LS	0	0	0	
	4.18.5 Design Exceptions and Design Variations *	EA	0	0	0	
	4.18 Concept Plans Total				0	
4.19	Transportation Management Plan *	LS	0	0	0	
4.20	Risk Management					
	Meeting Materials*	LS	0	0	0	
	Meeting Participation	LS	0	0	0	
	4.20 Risk Management Total				0	
4.21	Engineering Analysis Documentation					
	Draft Engineering Analysis Documentation*	LS	1	0	0	
	Final Engineering Analysis Documentation *	LS	1	0	0	
	4.21 Engineering Analysis Documentation Total				0	
4.22	Planning Consistency					
	4.22.1 Transportation Plans	LS	1	0	0	
	4.22.2 Planning Consistency Form *	LS	1	0	0	
	4.22 Planning Consistency Total				0	
4.23	Transit Systems and Service					
	4.23.1 Transit Concepts and Alternatives					
	Review of Transit Concepts and Alternatives Report (TCAR)	LS	1	0	0	
	Review of Bicycle/Greenway plans	LS	1	0	0	
	Develop Transit Concepts and Alternatives Report *	LS	1	0	0	
	4.23.2 Existing and Planned Transit Infrastructure and Services *	LS	1	0	0	

ENG ANALYSIS & REPORTS_FLAA

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	4.23.3 Connectivity and Accessibility *	LS	1	0	0	
	4.23.4 Transit Operational Analysis *	LS	1	0	0	
	4.23.5 Ridership and Revenue Estimations					
	Ridership and Revenue Forecasts *	LS	1	0	0	
	Operating and Ridership Sensitivity Testing *	LS	1	0	0	
	Ridership and Revenue Results Documentation *	LS	1	0	0	
	4.23.6 Transit Cost Estimates and Financial Commitments *	LS	1	0	0	
	4.23.7 Proposed Transit Service and Operations Plan *	LS	1	0	0	
	4.23.8 Transit Infrastructure Alternatives *	LS	1	0	0	
	4.23.9 Constructability Review *	LS	1	0	0	
	4.23 Transit Systems, Service, and Design Total				0	
	Engineering Analysis and Report Subtotal				0	
	Hours Subject to QC				1312	1312 Subject to QA/QC are from WSP's hours.
	Quality Assurance / Quality Control	LS	1	16	16	Negotiated approximately 1.2 percent of 1312 hours which equals 16 hours.
	ENGINEERING ANALYSIS AND REPORT TOTAL HOURS				16	

Exhibit B
Hourly Rate Sheet



**Forest Lakes Boulevard Phase III from SR 580 to Tampa Road
Professional Engineering Services**

Classification	WSP LOADED
Chief Designer	\$168.00
Chief Planner	\$255.00
Chief Scientist	\$192.00
Designer	\$121.00
Engineer 2	\$188.00
Engineering Intern	\$105.00
PM3	\$239.00
Principal	\$284.00
Secretary/Clerical	\$84.00
Senior Engineer 2	\$214.00
Senior Planner	\$168.00

ARCHAEOLOGICAL CONSULTANTS, INCORPORATED

**Forest Lakes Boulevard Phase III from SR 580 to Tampa Road
Professional Engineering Services**

Classification	LOADED RATE
Archaeologist	\$50.77
Chief Archaeologist	\$104.79
Chief Scientist	\$186.01
GIS Specialist	\$55.82
Scientist	\$94.66
Secretary/Clerical	\$76.75
Senior Scientist	\$65.46
	\$108.85



Date: April 5, 2021

Reference: Forest Lakes Boulevard Phase III from SR 580 to Tampa Road; RFP 21-0004-NC SS

Schedule of Rate Values	
Job Classification	Fully Loaded Hourly Rate
Project Manager 3	\$163.00
Senior Surveyor & Mapper	\$172.00
Professional Surveyor & Mapper	\$126.00
Survey/CADD/GIS Analyst 3	\$76.00
SUE Manager	\$130.00
Field Crew Supervisor	\$65.00
Field Technician	\$41.00
Party Chief	\$77.00
Survey Technician 3	\$61.00
Survey Technician 1	\$40.00
2-Person Field Crew	\$156.00
3-Person Field Crew	\$224.00
3-Person Survey Crew	\$178.00
4-Person Survey Crew	\$207.00

The above billing rates are fully loaded (burdened) rates shall remain fixed for the duration. The above rates include all labor, direct/indirect overhead, margins/profit, salary escalations, customary expenses such as copies, postage, etc., and travel within the Tampa Bay Metropolitan Statistical Area. Travel expenses outside of the Tampa Bay Metropolitan Statistical Area shall be reimbursed in accordance with Florida Statutes.

Name Jeraldo Comellas, Jr., PE
Title President

04/05/2021

Date



Pinellas County Rates

<u>STANDARD PERSONNEL RATES</u>	<u>HOURLY BILLING RATE</u>
Secretary/Clerical	\$60.00
Senior Landscape Architect	\$125.00
Engineering Technician	\$80.00
Designer	\$60.00
Engineer 2	\$170.00
Chief Engineer 1	\$220.00
Chief Engineer 2	\$270.00
GIS Specialist	\$80.00
Landscape Designer	\$105.00
Planner	\$110.00
Principal Engineer	\$275.00
Engineering Intern	\$105.00
Senior Designer	\$100.00
GIS Specialist	\$80.00
MAT Geologist Professional	\$145.00
MAT Geologist	\$75.00
SUR Chief Surveyor	\$160.00
SUR Party Chief	\$90.00
SUR Project Surveyor	\$85.00
SUR Survey Technician	\$65.00

AT THE READY

2030 S.R. 60 East, Bartow, FL 33830
 P: (863) 533-9007 | F: (863) 533-8997

- Athletic Complex Design
- Commercial Development
- Athletic Complex Design
- Commercial Development
- Construction Engineering and Inspection (CEI)
- Construction Management
- Environmental Services and Water Resources
- Geotechnical Engineering
- Landscape Architecture
- Land Development
- Materials Testing
- Municipal Services
- Parks and Recreation
- Pavement Management
- Planning
- Power Services
- Roadway Design
- Stormwater Services
- Sinkhole Services
- Structural Engineering
- Survey and Mapping
- Transportation Utilities

LIMITATION ON LIABILITY, INDEMNIFICATION, AND INSURANCE REQUIREMENTS

1. **LIMITATIONS ON LIABILITY.** By submitting a Proposal, the Consultant acknowledges and agrees that the services will be provided without any limitation on the Consultant's liability. The County objects to and shall not be bound by any term or provision that purports to limit the Consultant's liability to any specified amount in the performance of the services. The Consultant shall state any exceptions to this provision in its response, including specifying the proposed limits of liability in the stated exception to be included in the Services Agreement. The Consultant is deemed to have accepted and agreed to provide the services without any limitation on the Consultant's liability that the Consultant does not take exception to in its response. Notwithstanding any exceptions by the Consultant, the County reserves the right to declare its prohibition on any limitation on the Consultant's liability as non-negotiable, to disqualify any Proposal that includes exceptions to this prohibition on any limitation on the Consultant's liability, and to proceed with another responsive, responsible proposal, as determined by the County in its sole discretion.
2. **INDEMNIFICATION.** If the Consultant is an individual or entity licensed by the State of Florida who holds a current certificate of registration or is qualified under Chapter 481, Florida Statutes, to practice architecture or landscape architecture, under Chapter 472, Florida Statutes, to practice land surveying and mapping, or under Chapter 471, Florida Statutes, to practice engineering, and who enters into a written agreement with the County relating to the planning, design, construction, administration, study, evaluation, consulting, or other professional and technical support services furnished in connection with any actual or proposed construction, improvement, alteration, repair, maintenance, operation, management, relocation, demolition, excavation, or other facility, land, air, water, or utility development or improvement, the Consultant will indemnify and hold harmless the County, and its officers and employees, from liabilities, damages, losses, and costs, including, but not limited to, reasonable attorneys' fees, to the extent caused by the negligence, recklessness, or intentionally wrongful conduct, or for any violation of requirements of the Americans with Disabilities Act of 1990, as may be amended, and all rules and regulations issued pursuant thereto (collectively the "ADA") of the Consultant and other persons employed or utilized by the Consultant in the performance of the Agreement.
3. **INSURANCE:** The Consultant must provide a certificate of insurance and endorsement in accordance with the insurance requirements listed below, prior to recommendation for award.

The Consultant shall obtain and maintain, and require any sub-Consultants to obtain and maintain, at all times during its performance of the Agreement, insurance of the types and in the amounts set forth. For projects with a Completed Operations exposure, Consultant shall maintain coverage and provide evidence of insurance for two (2) years beyond final acceptance. All insurance policies shall be from responsible companies duly authorized to do business in the State of Florida and have an AM Best rating of A- VIII or better.

A. Submittals should include the Consultant's current Certificate(s) of Insurance. If Consultant does not currently meet insurance requirements, Consultant shall also include verification from their broker or agent that any required insurance not provided at that time of submittal will be in place prior to the award of contract.

Upon selection of Consultant for award, the selected Consultant shall email certificate that is compliant with the insurance requirements. If the certificate received is compliant, no further action may be necessary. The Certificate(s) of Insurance shall be signed by authorized representatives of the insurance companies shown on the Certificate(s). The Certificate holder section shall indicate Pinellas County, a Subdivision of the State of Florida, 400 S Fort Harrison Ave, Clearwater, FL 33756. Pinellas County shall be named as an Additional Insured for General Liability. A Waiver of Subrogation for Workers Compensation shall be provided if Workers Compensation coverage is a requirement.

B. Approval by the County of any Certificate(s) of Insurance does not constitute verification by the County that the insurance requirements have been satisfied or that the insurance policy shown on the Certificate(s) of Insurance is in compliance with the requirements of the Agreement. The County reserves the right to require a certified copy of the entire insurance policy, including endorsement(s), at any time during the RFP and/or contract period.

C. If any insurance provided pursuant to the Agreement expires or cancels prior to the completion of the work you will be notified by CTrax, the authorized Consultant of Pinellas County. Upon notification, renewal certificate(s) of Insurance and endorsement(s) should be furnished to Pinellas County Risk Management at InsuranceCerts@pinellascounty.org and to CTrax c/o JDi Data at PinellasSupport@jdidata.com by the Consultant or their agent prior to the expiration date.

1) The Consultant shall also notify the County within twenty-four (72) hours after receipt, of any notices of expiration, cancellation, nonrenewal or adverse material change in coverage received by said Consultant from its insurer. Notice shall be given by email to Pinellas County Risk Management at

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InsuranceCerts@pinellascounty.org. Nothing contained herein shall absolve Consultant of this requirement to provide notice.

2) Should the Consultant, at any time, not maintain the insurance coverages required herein, the County may terminate the Agreement.

D. If subcontracting is allowed under this RFP, the Primary Consultant shall obtain and maintain, at all times during its performance of the Agreement, insurance of the types and in the amounts set forth; and require any sub-consultants to obtain and maintain, at all times during its performance of the Agreement, insurance limits as it may apply to the portion of the Work performed by the subconsultant; but in no event will the insurance limits be less than \$500,000 for Workers' Compensation/Employers' Liability, and \$1,000,000 for General Liability and Auto Liability if required below. All subcontracts between the Consultant and its subconsultants shall be in writing and are subject to the County's prior written approval. Further, all subcontracts shall;

1) Require each subconsultant to be bound to the Consultant to the same extent the Consultant is bound to the County by the terms of the Contract Documents, as those terms may apply to the portion of the Work to be performed by the subconsultant;

2) Provide for the assignment of the subcontracts from the Consultant to the County at the election of Owner upon termination of the Contract;

3) Provide that County will be an additional indemnified party of the subcontract;

4) Provide that the County will be an additional insured on all insurance policies required to be provided by the subconsultant except workers compensation and professional liability;

5) Provide a waiver of subrogation in favor of the County and other insurance terms and/or conditions as outlined below;

6) Assign all warranties directly to the County;

7) Identify the County as an intended third-party beneficiary of the subcontract. The Consultant shall make available to each proposed subconsultant, prior to the execution of the subcontract, copies of the Contract Documents to which the subconsultant will be bound by this Section C and identify to the subconsultant any terms and conditions of the proposed subcontract which may be at variance with the Contract Documents.

E. Each insurance policy and/or certificate shall include the following terms and/or conditions:

1) The Named Insured on the Certificate of Insurance and insurance policy must match the entity's name that responded to the solicitation and/or is signing the agreement with the County.

2) Companies issuing the insurance policy, or policies, shall have no recourse against County for payment of premiums or assessments for any deductibles which all are at the sole responsibility and risk of Consultant.

3) The term "County" or "Pinellas County" shall include all Authorities, Boards, Bureaus, Commissions, Divisions, Departments and Constitutional offices of County and individual members, employees thereof in their official capacities, and/or while acting on behalf of Pinellas County.

4) All policies shall be written on a primary, non-contributory basis.

5) All policies shall be written on a primary, non-contributory basis.

6) Any Certificate(s) of Insurance evidencing coverage provided by a leasing company for either workers compensation or commercial general liability shall have a list of covered employees certified by the leasing company attached to the Certificate(s) of Insurance. The County shall have the right, but not the obligation to determine that the Proposer is only using employees named on such list to perform work for the County. Should employees not named be utilized by Proposer, the County, at its option may stop work without penalty to the County until proof of coverage or removal of the employee by the contractor occurs, or alternatively find the Proposer to be in default and take such other protective measures as necessary.

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

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

(1) Workers' Compensation Insurance

Limit

Employers' Liability Limits

Florida Statutory

Per Employee	\$ 500,000
Per Employee Disease	\$ 500,000
Policy Limit Disease	\$ 500,000

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

Limits

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

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

Limits

Each Occurrence or Claim	\$ 5,000,000
General Aggregate	\$ 5,000,000

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

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(4) Pollution Legal/Environmental Legal Liability Insurance for pollution losses arising from all services performed to comply with this contract. Coverage shall apply to sudden and gradual pollution conditions including the discharge, dispersal, release or escape of smoke, vapors, soot, fumes, acids, alkalis, toxic chemicals, liquids or gases, waste materials or other irritants, contaminants or pollutants into or upon land, the atmosphere or any watercourse or body of water, which results in Bodily Injury or Property Damage. If policy is written on a Claims Made form, a retroactive date is required, and coverage must be maintained for 3 years after completion of contract or "tail coverage must be purchased. Coverage should include and be for the at least the minimum limits listed below:

- 1) Bodily injury, sickness, disease, mental anguish or shock sustained by any person, including death; property damage including physical injury to or destruction of tangible property including the resulting loss of use thereof, clean up costs, and the loss of use of tangible property that has not been physically injured or destroyed;
- 2) Defense including costs, charges and expenses incurred in the investigation, adjustment or defense of claims for such compensation damages.
- 3) Cost of Cleanup/Remediation.

Limits

Per Claim or Occurrence	\$ 1,000,000
General Aggregate	\$ 1,000,000

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

For herbicide and pesticide spraying operations only, an endorsement to the Commercial General Liability policy that provides Pollution Liability coverage for herbicide and pesticide spraying is acceptable.

(5) Property Insurance Proposer will be responsible for all damage to its own property, equipment and/or materials.