CS-20-304

Contract No.: CM3012
Bid No.: NC20-024

AGREEMENT FOR ENGINEERING DESIGN SERVICES FOR CR108 SAFETY IMPROVEMENTS FROM BAY ROAD TO MIDDLE ROAD FOR NASSAU COUNTY, FLORIDA

THIS AGREEMENT made and entered into this 23rd day of August 2021, by and between the **NASSAU COUNTY BOARD OF COUNTY COMMISSIONERS**, a political subdivision of the State of Florida, hereinafter referred to as "County", and **POND & COMPANY CORPORATION**, whose principle office address is located at 1200 Riverplace Blvd., Suite 600, Jacksonville, Florida 32207, hereinafter referred to as "Consultant":

WHEREAS, County desires to obtain professional engineering design services for safety improvements to CR108 from Bay Road to Middle Road; and

WHEREAS, said services are more fully described in Attachment "A", *Scope of Services for Financial Project ID(S). 441214-1-38-01*, a copy of which is attached hereto and made a part hereof; and

WHEREAS, Consultant desires to render certain professional engineering services as described in the *Scope of Services for Financial Project ID(S). 441214-1-38-01*, and has the qualifications, experience, staff and resources to perform those services; and

WHEREAS, County, through a competitive selection process conducted in accordance with the requirements of law and County policy has determined that it would be in the best interest of County to award a contract to Consultant for the rendering of those services described in the *Scope of Services for Financial Project ID(S). 441214-1-38-01*.

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NOW THEREFORE, in consideration of the mutual covenants and agreements hereinafter contained, the parties hereto agree as follows:

ARTICLE 1 - EMPLOYMENT OF CONSULTANT

1.1 County hereby agrees to engage Consultant, and Consultant hereby agrees to perform the services set forth in the *Scope of Services for Financial Project ID(S). 441214-1-38-01*.

ARTICLE 2 - SCOPE OF SERVICES

2.1 Consultant shall provide professional engineering services in accordance with the *Scope of Services for Financial Project ID(S). 441214-1-38-01*, and any additional services as may be specifically designated and additionally authorized by the parties. Such additional authorizations will be in the form of a written amendment agreed upon by the parties.

ARTICLE 3 - COUNTY'S RESPONSIBILITY

3.1 Except as provided in the *Scope of Services for Financial Project ID(S). 441214-1-38-01*, County's responsibilities are to furnish required information, services, render approvals and decisions as necessary for the orderly progress of Consultant's services. County hereby designates the County Engineer, to act on the County's behalf with respect to the *Scope of Services for Financial Project ID(S). 441214-1-38-01*. The County Engineer, under the supervision of the County Manager, shall have complete authority to transmit instructions, receive information, interpret and define County's policies and decisions with respect to materials, elements and systems pertinent to Consultant's services.

3.2 Performance Evaluation: County shall complete a performance evaluation following the completion and/or expiration of this Agreement. The County reserves the right to complete a performance evaluation following each activation or Notice to Proceed (NTP) issued to evaluate the performance of Consultant. Performance evaluations shall be provided to Consultant for feedback. Performance evaluations shall be public record and used during reviews for future related awards.

ARTICLE 4 - TERM OF AGREEMENT

4.1 The term of this Agreement shall begin on its complete execution and end one (1) year from the execution date. The performance period of this Agreement may be extended upon mutual agreement between both parties. Any extension of performance period under this provision shall be in County's best interest and sole discretion. Any agreement or amendment to the Agreement shall be subject to fund availability and mutual written agreement between County and Consultant.

ARTICLE 5 - COMPENSATION

5.1 This project is being funded by FDOT under a Federal Highway Administration (FHWA) Local Agency Program (LAP) agreement;

5.2 County shall pay Consultant an amount not to exceed $764,026.22, in accordance with the fee schedule attached hereto as Attachment "B", and incorporated herein as if set forth in full.

5.3 Consultant shall prepare and submit to the County Engineer, with a copy provided to invoices@nassaucountyfl.com, for approval, a monthly invoice

for the services rendered under this Agreement. Invoices for services shall be paid in accordance with the Florida Prompt Payment Act. All invoices shall be accompanied by a report identifying the nature and progress of the work performed. The statement shall show a summary of fees with an accrual of the total fees billed and credits for portions paid previously. County reserves the right to withhold payment to Consultant for failure to perform the work in accordance with the provisions of this Agreement, and County shall promptly notify Consultant if any invoice or report is found to be unacceptable and will specify the reasons therefor.

5.4 All representation, indemnifications, warranties and guaranties made in, required by or given in accordance with this Agreement, as well as all continuing obligations indicated in this Agreement, will survive final payment and termination or completion of this Agreement.

5.5 Final Invoice: In order for both parties herein to close their books and records, Consultant will clearly state "Final Invoice" on Consultant's final/last billing to County. This indicates that all services have been performed and all charges and costs have been invoiced to County and that there is no further work to be performed on the specific project.

ARTICLE 6 – ALLOWABLE COSTS

6.1 Determination of allowable costs in accordance with the Federal Cost Principles, will be performed for services rendered under this Agreement.

ARTICLE 7 – RECORD RETENTION

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7.1 Consultant shall be required to maintain such financial records and other records as they relate to the purchase of goods and services by County from Consultant. Consultant shall retain these records for a minimum period of five (5) years after final payment, or until they are audited by County, whichever event occurs first. These records shall be made available during the term of the Agreement and the subsequent five (5) year period for examination, transcription, and audit by County, its designees, or other authorized bodies.

ARTICLE 8 - STANDARD OF CARE

8.1 Consultant shall exercise the same degree of care, skill, and diligence in the performance of the services as is ordinarily provided by a professional under similar circumstances and Consultant shall, at no additional cost to County, re-perform services which fail to satisfy the foregoing standard of care.

ARTICLE 9 - DOCUMENTS

9.1 The documents which comprise this Agreement between County and Consultant are attached hereto and made a part hereof and consist of the following:

a. This Agreement; and

b. The *Scope of Services for Financial Project ID(S). 441214-1-38-01* attached hereto as Attachment "A"; and

c. Fee Schedule attached hereto as Attachment "B"; and

d. Proposal submitted by Consultant in response to the Request for Qualifications for Engineering Services, Bid No.: NC20-024, attached hereto as Attachment "C"; and

e. *Certificate of Insurance* attached hereto as Attachment "D"; and

f. Any work authorizations, written amendments, modifications or addenda to this Agreement.

ARTICLE 10 - EQUAL OPPORTUNITY EMPLOYMENT

10.1 In connection with the work to be performed under this Agreement, Consultant agrees to comply with the applicable provisions of State and Federal Equal Employment Opportunity statutes and regulations.

ARTICLE 11 - TRUTH-IN-NEGOTIATION

11.1 Consultant hereby certifies, covenants and warrants that wage rates and other factual unit costs supporting the compensation for this project's Agreement are accurate, complete, and current at the time of contracting. Consultant further agrees that the original Agreement price and any additions thereto shall be adjusted to exclude any significant sums by which County determines the Agreement price was increased due to inaccurate, incomplete, or non-current wage rates and other factual unit costs. All such Agreement adjustments shall be made within one (1) year following the end of the Agreement.

ARTICLE 12 – CONFLICT OF INTEREST

12.1 Neither County or any of its contractors or their subcontractors shall enter into any contract, subcontract or arrangement in connection with the project

or any property included or planned to be included in the project in which any member, officer, or employee of County or the locality during tenure or for two (2) years thereafter has any interest, direct or indirect. If any such present or former member, officer or employee involuntarily acquires or had acquired prior to the beginning of tenure any such interest, and if such interest is immediately disclosed to County, County, with prior approval of Department, may waive the prohibition contained in this paragraph provided that any such present member, officer or employee, shall not participate in any action by County or the locality relating to such contract, subcontract or arrangement.

12.2 Consultant shall ensure that any subcontract in which he or she may enter into includes the following provision:

> No member, officer, or employee of County or of the locality during his tenure or for two (2) years thereafter shall have any interest, direct or indirect, in this contract or the proceeds thereof.

ARTICLE 13 – DISCLOSURE OF LOBBYING ACTIVITIES ON FEDERAL-AID CONTRACTS

13.1 Consultant certifies, that to the best of his or her knowledge and belief:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any federal contract, the making of any federal

grant, the making of any federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.

b. If any funds other than federal appropriated funds have been paid or will be paid to any person for influencing, or attempting to influence, an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities", in accordance with its instructions. (Standard Form-LLL can be obtained from the Florida Department of Transportation's Professional Services Administrator or Procurement Office).

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

Consultant shall also require the language of this certification be included in all lower tier subcontracts, which exceed $100,000 and that all such subrecipients shall certify and disclose accordingly.

ARTICLE 14 - INDEMNIFICATION

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14.1 To the fullest extent permitted by law, Consultant shall indemnify and hold harmless County, the State of Florida, Department of Transportation and their 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, and intentional wrongful misconduct of Consultant and persons employed or utilized by Consultant, in the performance of the Agreement.

14.2 Consultant agrees to include the following indemnification in all contracts with contractors, subcontractors, consultants, or subconsultants (each referred to as "Entity" for the purpose of the below indemnification) who perform work in connection with this Agreement.

To the extend provided by law, the Contractor shall indemnify, defend, and hold harmless the County and the State of Florida, Department of Transportation, including the Department's officers, agents, and employees, against any actions, claims, or damages arising out of, relating to, or resulting from negligent or wrongful act(s) of the Professional, or any of its officers, agents, or employees, acting within the scope of their office or employment, in connection with the rights granted to or exercised by the Professional hereunder, to the extent and within the limitations of Section 768.28, Florida Statutes.

The foregoing indemnification shall not constitute a waiver of sovereign immunity beyond the limits set forth in Florida Statutes, Section 768.28. Nor shall the same be construed or constitute agreement by the Professional to indemnify the County for negligent acts or omissions of the

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County, its officers, agents, or employees, or third parties. Nor shall the same be construed to constitute agreement by the Professional to indemnify the Department for the negligent acts or omissions of the Department, its officers, agents or employees, or third parties. This indemnification shall survive the termination of this Agreement.

ARTICLE 15 - INDEPENDENT CONTRACTOR

15.1 Consultant undertakes performance of the services as an independent contractor under this Agreement and shall be wholly responsible for the methods of performance. County shall have no right to supervise the methods used, but County shall have the right to observe such performance. Consultant shall work closely with County in performing services under this Agreement.

ARTICLE 16 – EXTENT OF AGREEMENT

16.1 This Agreement represents the entire and integrated agreement between County and Consultant and supersedes all prior negotiations, representations, or agreement, either written or oral.

16.2 This Agreement may only be amended, supplemented, modified, changed or canceled by a duly executed written instrument.

ARTICLE 17 - COMPLIANCE WITH LAWS

17.1 In performance of the services, Consultant will comply with applicable regulatory requirements including federal, state, and local laws, rules regulations, orders, codes, criteria and standards.

ARTICLE 18 - INSURANCE

18.1 Consultant shall maintain such commercial (occurrence form) or comprehensive general liability, workers compensation, professional liability (Errors and Omissions), and other insurance as is appropriate for the services being performed hereunder by Consultant, its employees or agents as set forth in *Certificate of Insurance* attached hereto and incorporated herein as Attachment "D".

ARTICLE 19 – ACCESS TO PREMISES

19.1 County shall be responsible for providing access to all project sites, and for providing project-specific information.

ARTICLE 20 - TERMINATION OF AGREEMENT

20.1 Termination for Convenience: This Agreement may be terminated by County for convenience, upon thirty (30) days of written notice to Consultant. In such event, Consultant shall be paid its compensation for services performed prior to the termination date. In the event that Consultant abandons this Agreement or causes it to be terminated, Consultant is liable to County for any and all loss pertaining to this termination.

20.2 Termination for Cause: If Consultant fails to comply with any of the terms and conditions of this Agreement, County may give notice, in writing, to Consultant of any or all deficiencies claimed. The notice shall be sufficient for all purposes if it describes the default in general terms. If all defaults are not cured and corrected within a reasonable period as specified in the notice, County may, with no further notice, declare the Agreement to be terminated. Consultant shall thereafter be entitled to receive payment for those services reasonably performed

to the date of termination, less the amount of reasonable damages suffered by County by reason of Consultant's failure to comply with the Agreement.

Notwithstanding the above, Consultant is not relieved of liability to County for damages sustained by County by virtue of any breach of this Agreement by Consultant and County may withhold any payments to Consultant for the purpose of setoff until such time as the amount of damages due to County from Consultant is determined.

ARTICLE 21 - NONDISCLOSURE OF PROPRIETARY INFORMATION

21.1 Consultant shall consider all information provided by County and all reports, studies, calculations, and other documentation resulting from Consultant's performance of the services to be proprietary unless such information is available from public sources. Consultant shall not publish or disclose proprietary information for any purpose other than the performance of the services without the prior written authorization of County or in response to legal process.

ARTICLE 22 - UNCONTROLLABLE FORCES

22.1 Neither County nor Consultant shall be considered to be in default of this Agreement if delays in or failure of performance shall be due to Uncontrollable Forces, the effect of which, by the exercise of reasonable diligence, the non-performing party could not avoid. The term "Uncontrollable Forces" shall mean any event which results in the prevention or delay of performance by a party of its obligations under this Agreement and which is beyond the reasonable control of the nonperforming party. It includes, but is not limited to fire, flood, earthquakes,

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storms, lightning, epidemic, war, riot, civil disturbance, sabotage, and governmental actions.

22.2 Neither party shall, however, be excused from performance if nonperformance is due to forces, which are preventable, removable, or remediable, and which the nonperforming party could have, with the exercise of reasonable diligence, prevented, removed, or remedied with reasonable dispatch. The nonperforming party shall, within a reasonable time of being prevented or delayed from performance by an uncontrollable force, give written notice to the other party describing the circumstances and uncontrollable forces preventing continued performance of the obligations of this Agreement.

ARTICLE 23 – PUBLIC ENTITIES CRIMES

23.1 A person or affiliate who has been placed on the convicted Vendors list following a conviction for public entity crime may not submit a proposal on a contract or provide any goods or services to a public entity, may not submit a proposal on a contract with a public entity for the construction or repair of a public building or public work, may not submit proposals on leases of real property to public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Florida Statutes, Section 287.017, for Category Two for a period of thirty-six (36) months from the date of being placed on the convicted Vendor list. Consultant represents that it has furnished a completed *Sworn Statement under Section 287.133(3)(a), Florida Statutes, on Public Entity Crimes*, a copy of which is

attached hereto and incorporated herein in Attachment "C" and certifies that it is qualified to do business with County in accordance with Florida Statute.

23.2 Consultant warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for Consultant to solicit or secure this Agreement and that it has not aid or agreed to pay any person, company, corporation, individual, or firm other than a bona fide employee working solely for Consultant any fee, commission, percentage, gift, or other consideration contingent upon or resulting from the award or making of this Agreement. For the breach or violation of this provision, County shall have the right to terminate the Agreement without liability and at its discretion, to deduct from the contract price, or otherwise recover, the full amount of such fee, commission, percentage, gift, or consideration.

ARTICLE 24 - GOVERNING LAW AND VENUE

24.1 This Agreement shall be governed by the laws of the State of Florida. Any and all legal action necessary to enforce the Agreement will be held in Nassau County, Florida.

ARTICLE 25 - MISCELLANEOUS

25.1 Non-waiver: A waiver by either County or Consultant of any breach of this Agreement shall not be binding upon the waiving party unless such waiver is in writing. In the event of a written waiver, such a waiver shall not affect the waiving party's rights with respect to any other or further breach. The making or acceptance of a payment by either party with knowledge of the existence of a

default or breach shall not operate or be construed to operate as a waiver of any subsequent default or breach.

25.2 Severability: Any provision in this Agreement that is prohibited or unenforceable in any jurisdiction shall, as to such jurisdiction, be ineffective to the extent of such prohibition or unenforceability without invalidating the remaining provisions hereof or affecting the validity or enforceability of such provisions in any other jurisdiction. The non-enforcement of any provision by either party shall not constitute a waiver of that provision nor shall it affect the enforceability of that provision or of the remainder of this Agreement.

25.3 Debarment, Suspension, Ineligibility and Voluntary Exclusion: Consultant certifies that it nor its principals are presently suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal department or agency.

25.4 The provisions of this section shall not prevent the entire Agreement from being void should a provision, which is of the essence of the Agreement, be determined to be void.

ARTICLE 26 - PUBLIC RECORDS

26.1 Consultant shall be required to comply with the requirements of Florida's Public Records Act, Chapter 119, and Florida Statutes.

County is a public agency subject to Chapter 119, Florida Statutes. IF CONSULTANT HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO CONSULTANT'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE

CUSTODIAN OF PUBLIC RECORDS AT (904) 530-6010, records@nassaucountyfl.com, 96135 NASSAU PLACE, YULEE, FLORIDA 32097. Under this Agreement, to the extent that Consultant is providing services to County, and pursuant to section 119.0701, Florida Statutes, Consultant shall:

a. Keep and maintain public records required by the public agency to perform the service.

b. Upon request from the public agency's custodian of public records, provide the public agency with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in this chapter or as otherwise provided by law.

c. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the Agreement term and following completion of the Agreement if Consultant does not transfer the records to the public agency.

d. Upon completion of the Agreement, transfer, at no cost, to the public agency all public records in possession of Consultant or keep and maintain public records required by the public agency to perform the service. If Consultant transfers all public records to the public agency upon completion of the Agreement, Consultant shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If Consultant keeps and maintains public records upon completion of the Agreement, Consultant shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the public agency, upon request

from the public agency's custodian of public records, in a format that is compatible with the information technology systems of the public agency.

ARTICLE 27 - SUCCESSORS AND ASSIGNS

27.1 County and Consultant each binds itself and its director, officers, partners, successors, executors, administrators, assigns and legal representatives to the other party to this Agreement and to the partners, successors, executors, administrators, assigns, and legal representatives.

ARTICLE 28 - CONTINGENT FEES

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

ARTICLE 29 - OWNERSHIP OF DOCUMENTS

29.1 Consultant shall be required to work in harmony with other consultants relative to providing information requested in a timely manner and in the specified form. Any and all documents, records, disks, original drawings, or other information shall become the property of County upon completion for its use and distribution as may be deemed appropriate by County.

ARTICLE 30 - FUNDING

30.1 This Agreement shall remain in full force and effect only as long as the expenditures provided for in the Agreement have been appropriated by the Nassau County Board of County Commissioners in the annual budget for each fiscal year of this Agreement and is subject to termination based on lack of funding.

ARTICLE 31 - NOTICE

31.1 Whenever either party desires or is required under this Agreement to give notice to any other party, it must be given by written notice either delivered in person, sent by U.S. Certified Mail, U.S. Express Mail, air or ground courier services, or by messenger service, as follows:

COUNTY:

Nassau County Engineering Services
96161 Nassau Place
Yulee, Florida 32097
904-530-6225
rcompanion@nassaucountyfl.com

With a copy to the County Attorney at:

96135 Nassau Place, Suite 6
Yulee, Florida 32097

CONSULTANT:

Nina C. Sickler, PE, Vice President
Pond & Company Corporation
1200 Riverplace Blvd., Suite 600
Jacksonville, FL 32207
904-396-3556
SicklerN@pondco.com

31.2 Notices shall be effective when received at the address specified above. Changes in the respective addresses to which such notice may be directed

may be made from time to time by any party by written notice to the other party. Email and facsimile are acceptable notice effective when received, however, notices received (i.e.; printed) after 5:00 p.m. or on weekends or holidays, will be deemed received on the next business day. The original of the notice must additionally be mailed as required herein.

31.3 Nothing contained in this Article shall be construed to restrict the transmission of routine communications between representatives of Consultant and County.

ARTICLE 32 - DISPUTE RESOLUTION

32.1 County may utilize this section, at their discretion, as to disputes regarding agreement interpretation. County may send a written communication to Consultant by email, overnight mail, UPS, FedEx, or certified mail. The written notification shall set forth County's interpretation of the Agreement. A response shall be provided in the same manner prior to the initial meeting with the County Manager. This initial meeting shall take place no more than twenty (20) days from the written notification of the dispute addressed to Consultant. Consultant should have a representative, at the meeting that can render a decision on behalf of Consultant.

If there is no satisfactory resolution as to the interpretation of the Agreement, the dispute may be submitted to mediation in accordance with mediation rules as established by the Florida Supreme Court. Mediators shall be chosen by County and the cost of mediation shall be borne by Consultant.

Consultant shall not stop work during the pendency of mediation or dispute resolution.

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

Robert P. Williams
Executive Vice President
Corporate Secretary

NASSAU COUNTY BOARD OF COUNTY COMMISSIONERS

Aaron C. Bell
Its: Vice Chairman

Date: August 23, 2021

ATTEST TO CHAIR SIGNATURE

JOHN A. CRAWFORD
Its: Ex-Officio Clerk

Approved as to form and legal sufficiency:

MICHAEL S. MULLIN

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ATTEST:

(Corporate Secretary)

Robert P. Williams
Type/Print Name of Corporate Secy.

(CORPORATE SEAL)

POND & COMPANY CORPORATION

Signature of President/Owner

Nina Sickler
Type/Print Name of President/Owner

Date: 8/31/2021

CORPORATE ACKNOWLEDGEMENT

STATE OF FLORIDA :
:SS
COUNTY OF DUVAL :

I HEREBY CERTIFY that on this day, before me, an Officer duly authorized in the State aforesaid and in the County aforesaid to take acknowledgments, ✓ personally appeared or ___ electronically appeared _____, of, POND & COMPANY, a FLORIDA Corporation, to me known to be the person(s) described in and who executed the foregoing instrument and acknowledged before me that he/she executed the same.

WITNESS my hand and official seal this 31 day of August, 2021.

Signature of Notary Public
State of Florida at Large

DONNA M. MCGRADE
MY COMMISSION # GG 956955
EXPIRES: March 16, 2024
Bonded Thru Notary Public Underwriters

Print, Type or Stamp
Name of Notary Public

☑ Personally known to me or
☐ Produced Identification

_____
Type of I.D. Produced

☑ DID take an oath, or
☐ DID NOT take an oath.

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AGREEMENT FOR ENGINEERING DESIGN SERVICES FOR CR108 SAFETY IMPROVEMENTS FROM BAY ROAD TO MIDDLE ROAD FOR NASSAU COUNTY, FLORIDA

THIS AGREEMENT made and entered into this 23rd day of August 2021, by and between the **NASSAU COUNTY BOARD OF COUNTY COMMISSIONERS**, a political subdivision of the State of Florida, hereinafter referred to as "County", and **POND & COMPANY CORPORATION**, whose principle office address is located at 1200 Riverplace Blvd., Suite 600, Jacksonville, Florida 32207, hereinafter referred to as "Consultant":

WHEREAS, County desires to obtain professional engineering design services for safety improvements to CR108 from Bay Road to Middle Road; and

WHEREAS, said services are more fully described in Attachment "A", *Scope of Services for Financial Project ID(S). 441214-1-38-01*, a copy of which is attached hereto and made a part hereof; and

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WHEREAS, County, through a competitive selection process conducted in accordance with the requirements of law and County policy has determined that it would be in the best interest of County to award a contract to Consultant for the rendering of those services described in the *Scope of Services for Financial Project ID(S). 441214-1-38-01.*

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9.1 The documents which comprise this Agreement between County and Consultant are attached hereto and made a part hereof and consist of the following:

a. This Agreement; and

b. The *Scope of Services for Financial Project ID(S). 441214-1-38-01* attached hereto as Attachment "A"; and

c. Fee Schedule attached hereto as Attachment "B"; and

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d. Proposal submitted by Consultant in response to the Request for Qualifications for Engineering Services, Bid No.: NC20-024, attached hereto as Attachment "C"; and

e. *Certificate of Insurance* attached hereto as Attachment "D"; and

f. Any work authorizations, written amendments, modifications or addenda to this Agreement.

ARTICLE 10 - EQUAL OPPORTUNITY EMPLOYMENT

10.1 In connection with the work to be performed under this Agreement, Consultant agrees to comply with the applicable provisions of State and Federal Equal Employment Opportunity statutes and regulations.

ARTICLE 11 - TRUTH-IN-NEGOTIATION

11.1 Consultant hereby certifies, covenants and warrants that wage rates and other factual unit costs supporting the compensation for this project's Agreement are accurate, complete, and current at the time of contracting. Consultant further agrees that the original Agreement price and any additions thereto shall be adjusted to exclude any significant sums by which County determines the Agreement price was increased due to inaccurate, incomplete, or non-current wage rates and other factual unit costs. All such Agreement adjustments shall be made within one (1) year following the end of the Agreement.

ARTICLE 12 – CONFLICT OF INTEREST

12.1 Neither County or any of its contractors or their subcontractors shall enter into any contract, subcontract or arrangement in connection with the project

or any property included or planned to be included in the project in which any member, officer, or employee of County or the locality during tenure or for two (2) years thereafter has any interest, direct or indirect. If any such present or former member, officer or employee involuntarily acquires or had acquired prior to the beginning of tenure any such interest, and if such interest is immediately disclosed to County, County, with prior approval of Department, may waive the prohibition contained in this paragraph provided that any such present member, officer or employee, shall not participate in any action by County or the locality relating to such contract, subcontract or arrangement.

12.2 Consultant shall ensure that any subcontract in which he or she may enter into includes the following provision:

> No member, officer, or employee of County or of the locality during his tenure or for two (2) years thereafter shall have any interest, direct or indirect, in this contract or the proceeds thereof.

ARTICLE 13 – DISCLOSURE OF LOBBYING ACTIVITIES ON FEDERAL-AID CONTRACTS

13.1 Consultant certifies, that to the best of his or her knowledge and belief:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any federal contract, the making of any federal

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grant, the making of any federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.

b. If any funds other than federal appropriated funds have been paid or will be paid to any person for influencing, or attempting to influence, an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities", in accordance with its instructions. (Standard Form-LLL can be obtained from the Florida Department of Transportation's Professional Services Administrator or Procurement Office).

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

Consultant shall also require the language of this certification be included in all lower tier subcontracts, which exceed $100,000 and that all such subrecipients shall certify and disclose accordingly.

ARTICLE 14 - INDEMNIFICATION

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14.1 To the fullest extent permitted by law, Consultant shall indemnify and hold harmless County, the State of Florida, Department of Transportation and their 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, and intentional wrongful misconduct of Consultant and persons employed or utilized by Consultant, in the performance of the Agreement.

14.2 Consultant agrees to include the following indemnification in all contracts with contractors, subcontractors, consultants, or subconsultants (each referred to as "Entity" for the purpose of the below indemnification) who perform work in connection with this Agreement.

To the extend provided by law, the Contractor shall indemnify, defend, and hold harmless the County and the State of Florida, Department of Transportation, including the Department's officers, agents, and employees, against any actions, claims, or damages arising out of, relating to, or resulting from negligent or wrongful act(s) of the Professional, or any of its officers, agents, or employees, acting within the scope of their office or employment, in connection with the rights granted to or exercised by the Professional hereunder, to the extent and within the limitations of Section 768.28, Florida Statutes.

The foregoing indemnification shall not constitute a waiver of sovereign immunity beyond the limits set forth in Florida Statutes, Section 768.28. Nor shall the same be construed or constitute agreement by the Professional to indemnify the County for negligent acts or omissions of the

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County, its officers, agents, or employees, or third parties. Nor shall the same be construed to constitute agreement by the Professional to indemnify the Department for the negligent acts or omissions of the Department, its officers, agents or employees, or third parties. This indemnification shall survive the termination of this Agreement.

ARTICLE 15 - INDEPENDENT CONTRACTOR

15.1 Consultant undertakes performance of the services as an independent contractor under this Agreement and shall be wholly responsible for the methods of performance. County shall have no right to supervise the methods used, but County shall have the right to observe such performance. Consultant shall work closely with County in performing services under this Agreement.

ARTICLE 16 – EXTENT OF AGREEMENT

16.1 This Agreement represents the entire and integrated agreement between County and Consultant and supersedes all prior negotiations, representations, or agreement, either written or oral.

16.2 This Agreement may only be amended, supplemented, modified, changed or canceled by a duly executed written instrument.

ARTICLE 17 - COMPLIANCE WITH LAWS

17.1 In performance of the services, Consultant will comply with applicable regulatory requirements including federal, state, and local laws, rules regulations, orders, codes, criteria and standards.

ARTICLE 18 - INSURANCE

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18.1 Consultant shall maintain such commercial (occurrence form) or comprehensive general liability, workers compensation, professional liability (Errors and Omissions), and other insurance as is appropriate for the services being performed hereunder by Consultant, its employees or agents as set forth in *Certificate of Insurance* attached hereto and incorporated herein as Attachment "D".

ARTICLE 19 – ACCESS TO PREMISES

19.1 County shall be responsible for providing access to all project sites, and for providing project-specific information.

ARTICLE 20 - TERMINATION OF AGREEMENT

20.1 Termination for Convenience: This Agreement may be terminated by County for convenience, upon thirty (30) days of written notice to Consultant. In such event, Consultant shall be paid its compensation for services performed prior to the termination date. In the event that Consultant abandons this Agreement or causes it to be terminated, Consultant is liable to County for any and all loss pertaining to this termination.

20.2 Termination for Cause: If Consultant fails to comply with any of the terms and conditions of this Agreement, County may give notice, in writing, to Consultant of any or all deficiencies claimed. The notice shall be sufficient for all purposes if it describes the default in general terms. If all defaults are not cured and corrected within a reasonable period as specified in the notice, County may, with no further notice, declare the Agreement to be terminated. Consultant shall thereafter be entitled to receive payment for those services reasonably performed

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to the date of termination, less the amount of reasonable damages suffered by County by reason of Consultant's failure to comply with the Agreement.

Notwithstanding the above, Consultant is not relieved of liability to County for damages sustained by County by virtue of any breach of this Agreement by Consultant and County may withhold any payments to Consultant for the purpose of setoff until such time as the amount of damages due to County from Consultant is determined.

ARTICLE 21 - NONDISCLOSURE OF PROPRIETARY INFORMATION

21.1 Consultant shall consider all information provided by County and all reports, studies, calculations, and other documentation resulting from Consultant's performance of the services to be proprietary unless such information is available from public sources. Consultant shall not publish or disclose proprietary information for any purpose other than the performance of the services without the prior written authorization of County or in response to legal process.

ARTICLE 22 - UNCONTROLLABLE FORCES

22.1 Neither County nor Consultant shall be considered to be in default of this Agreement if delays in or failure of performance shall be due to Uncontrollable Forces, the effect of which, by the exercise of reasonable diligence, the non-performing party could not avoid. The term "Uncontrollable Forces" shall mean any event which results in the prevention or delay of performance by a party of its obligations under this Agreement and which is beyond the reasonable control of the nonperforming party. It includes, but is not limited to fire, flood, earthquakes,

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storms, lightning, epidemic, war, riot, civil disturbance, sabotage, and governmental actions.

22.2 Neither party shall, however, be excused from performance if nonperformance is due to forces, which are preventable, removable, or remediable, and which the nonperforming party could have, with the exercise of reasonable diligence, prevented, removed, or remedied with reasonable dispatch. The nonperforming party shall, within a reasonable time of being prevented or delayed from performance by an uncontrollable force, give written notice to the other party describing the circumstances and uncontrollable forces preventing continued performance of the obligations of this Agreement.

ARTICLE 23 – PUBLIC ENTITIES CRIMES

23.1 A person or affiliate who has been placed on the convicted Vendors list following a conviction for public entity crime may not submit a proposal on a contract or provide any goods or services to a public entity, may not submit a proposal on a contract with a public entity for the construction or repair of a public building or public work, may not submit proposals on leases of real property to public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Florida Statutes, Section 287.017, for Category Two for a period of thirty-six (36) months from the date of being placed on the convicted Vendor list. Consultant represents that it has furnished a completed *Sworn Statement under Section 287.133(3)(a), Florida Statutes, on Public Entity Crimes*, a copy of which is

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attached hereto and incorporated herein in Attachment "C" and certifies that it is qualified to do business with County in accordance with Florida Statute.

23.2 Consultant warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for Consultant to solicit or secure this Agreement and that it has not aid or agreed to pay any person, company, corporation, individual, or firm other than a bona fide employee working solely for Consultant any fee, commission, percentage, gift, or other consideration contingent upon or resulting from the award or making of this Agreement. For the breach or violation of this provision, County shall have the right to terminate the Agreement without liability and at its discretion, to deduct from the contract price, or otherwise recover, the full amount of such fee, commission, percentage, gift, or consideration.

ARTICLE 24 - GOVERNING LAW AND VENUE

24.1 This Agreement shall be governed by the laws of the State of Florida. Any and all legal action necessary to enforce the Agreement will be held in Nassau County, Florida.

ARTICLE 25 - MISCELLANEOUS

25.1 Non-waiver: A waiver by either County or Consultant of any breach of this Agreement shall not be binding upon the waiving party unless such waiver is in writing. In the event of a written waiver, such a waiver shall not affect the waiving party's rights with respect to any other or further breach. The making or acceptance of a payment by either party with knowledge of the existence of a

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default or breach shall not operate or be construed to operate as a waiver of any subsequent default or breach.

25.2 Severability: Any provision in this Agreement that is prohibited or unenforceable in any jurisdiction shall, as to such jurisdiction, be ineffective to the extent of such prohibition or unenforceability without invalidating the remaining provisions hereof or affecting the validity or enforceability of such provisions in any other jurisdiction. The non-enforcement of any provision by either party shall not constitute a waiver of that provision nor shall it affect the enforceability of that provision or of the remainder of this Agreement.

25.3 Debarment, Suspension, Ineligibility and Voluntary Exclusion: Consultant certifies that it nor its principals are presently suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal department or agency.

25.4 The provisions of this section shall not prevent the entire Agreement from being void should a provision, which is of the essence of the Agreement, be determined to be void.

ARTICLE 26 - PUBLIC RECORDS

26.1 Consultant shall be required to comply with the requirements of Florida's Public Records Act, Chapter 119, and Florida Statutes.

County is a public agency subject to Chapter 119, Florida Statutes. IF CONSULTANT HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO CONSULTANT'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE

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CUSTODIAN OF PUBLIC RECORDS AT (904) 530-6010, records@nassaucountyfl.com, 96135 NASSAU PLACE, YULEE, FLORIDA 32097. Under this Agreement, to the extent that Consultant is providing services to County, and pursuant to section 119.0701, Florida Statutes, Consultant shall:

a. Keep and maintain public records required by the public agency to perform the service.

b. Upon request from the public agency's custodian of public records, provide the public agency with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in this chapter or as otherwise provided by law.

c. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the Agreement term and following completion of the Agreement if Consultant does not transfer the records to the public agency.

d. Upon completion of the Agreement, transfer, at no cost, to the public agency all public records in possession of Consultant or keep and maintain public records required by the public agency to perform the service. If Consultant transfers all public records to the public agency upon completion of the Agreement, Consultant shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If Consultant keeps and maintains public records upon completion of the Agreement, Consultant shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the public agency, upon request

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from the public agency's custodian of public records, in a format that is compatible with the information technology systems of the public agency.

ARTICLE 27 - SUCCESSORS AND ASSIGNS

27.1 County and Consultant each binds itself and its director, officers, partners, successors, executors, administrators, assigns and legal representatives to the other party to this Agreement and to the partners, successors, executors, administrators, assigns, and legal representatives.

ARTICLE 28 - CONTINGENT FEES

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

ARTICLE 29 - OWNERSHIP OF DOCUMENTS

29.1 Consultant shall be required to work in harmony with other consultants relative to providing information requested in a timely manner and in the specified form. Any and all documents, records, disks, original drawings, or other information shall become the property of County upon completion for its use and distribution as may be deemed appropriate by County.

ARTICLE 30 - FUNDING

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30.1 This Agreement shall remain in full force and effect only as long as the expenditures provided for in the Agreement have been appropriated by the Nassau County Board of County Commissioners in the annual budget for each fiscal year of this Agreement and is subject to termination based on lack of funding.

ARTICLE 31 - NOTICE

31.1 Whenever either party desires or is required under this Agreement to give notice to any other party, it must be given by written notice either delivered in person, sent by U.S. Certified Mail, U.S. Express Mail, air or ground courier services, or by messenger service, as follows:

COUNTY:

Nassau County Engineering Services
96161 Nassau Place
Yulee, Florida 32097
904-530-6225
rcompanion@nassaucountyfl.com

With a copy to the County Attorney at:

96135 Nassau Place, Suite 6
Yulee, Florida 32097

CONSULTANT:

Nina C. Sickler, PE, Vice President
Pond & Company Corporation
1200 Riverplace Blvd., Suite 600
Jacksonville, FL 32207
904-396-3556
SicklerN@pondco.com

31.2 Notices shall be effective when received at the address specified above. Changes in the respective addresses to which such notice may be directed

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may be made from time to time by any party by written notice to the other party. Email and facsimile are acceptable notice effective when received, however, notices received (i.e.; printed) after 5:00 p.m. or on weekends or holidays, will be deemed received on the next business day. The original of the notice must additionally be mailed as required herein.

31.3 Nothing contained in this Article shall be construed to restrict the transmission of routine communications between representatives of Consultant and County.

ARTICLE 32 - DISPUTE RESOLUTION

32.1 County may utilize this section, at their discretion, as to disputes regarding agreement interpretation. County may send a written communication to Consultant by email, overnight mail, UPS, FedEx, or certified mail. The written notification shall set forth County's interpretation of the Agreement. A response shall be provided in the same manner prior to the initial meeting with the County Manager. This initial meeting shall take place no more than twenty (20) days from the written notification of the dispute addressed to Consultant. Consultant should have a representative, at the meeting that can render a decision on behalf of Consultant.

If there is no satisfactory resolution as to the interpretation of the Agreement, the dispute may be submitted to mediation in accordance with mediation rules as established by the Florida Supreme Court. Mediators shall be chosen by County and the cost of mediation shall be borne by Consultant.

Consultant shall not stop work during the pendency of mediation or dispute resolution.

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

NASSAU COUNTY BOARD OF COUNTY COMMISSIONERS

Aaron C. Bell
Its: Vice Chairman

Date: August 23, 2021

ATTEST TO CHAIR SIGNATURE

JOHN A. CRAWFORD
Its: Ex-Officio Clerk

Approved as to form and legal sufficiency:

MICHAEL S. MULLIN

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ATTEST: **POND & COMPANY CORPORATION**

_____ _____
(Corporate Secretary) Signature of President/Owner

_____ _____
Type/Print Name of Corporate Secy. Type/Print Name of President/Owner

(CORPORATE SEAL) Date: _____

CORPORATE ACKNOWLEDGEMENT

STATE OF _____ :
:SS
COUNTY OF _____:

I HEREBY CERTIFY that on this day, before me, an Officer duly authorized in the State aforesaid and in the County aforesaid to take acknowledgments, ___ personally appeared or ___ electronically appeared _____, of, _____, a _____ Corporation, to me known to be the person(s) described in and who executed the foregoing instrument and acknowledged before me that he/she executed the same.

WITNESS my hand and official seal this ___ day of _____ , 20__ .

_____
Signature of Notary Public
State of _____ at Large

_____
Print, Type or Stamp
Name of Notary Public

□ Personally known to me or
□ Produced Identification

_____
Type of I.D. Produced

□□DID take an oath, or
□□DID NOT take an oath.

_____ Initials _____ Initials

April 22, 2020

ATTACHMENT A

SCOPE OF SERVICES

FOR

FINANCIAL PROJECT ID(S). **441214-1-38-01**

DISTRICT 2

NASSAU COUNTY

SCOPE OF SERVICES FOR CONSULTING ENGINEERING SERVICES

HIGHWAY AND BRIDGE/STRUCTURAL DESIGN

This Exhibit forms an integral part of the agreement **Nassau County** (hereinafter referred to as the LOCAL AGENCY) and **Pond and Company** (hereinafter referred to as the CONSULTANT) relative to the transportation facility described as follows:

Financial Project ID: **441214-1-38-01**

Federal Aid Project No.: ***N/A***

County Section No.: ***7400***

Description: ***County Road (CR) 108 from CR 115 (Bay Road) to CR 121A (Middle Road)***

Bridge No(s).: ***740041 & 740064***

Rail Road Crossing No: ***CSX No. TBD***

Context Classification: ***C2 – Rural and C2T – Rural Town***

The Major Work Mix is "Minor Highway".

1 PURPOSE

The purpose of this Exhibit is to describe the scope of work and the responsibilities of the CONSULTANT and the LOCAL AGENCY in connection with the design and preparation of a complete set of construction contract documents and incidental engineering services, as necessary, for improvements to the transportation facility described herein.

The general objective is for the CONSULTANT to prepare a set of contract documents including plans, specifications, supporting engineering analysis, calculations and other technical documents in accordance with FDOT policy, procedures and requirements. These Contract documents will be used by the contractor to build the project and test the project components. These Contract documents will be used by the LOCAL AGENCY or its Construction Engineering Inspection (CEI) representatives for inspection and final acceptance of the project. The CONSULTANT shall follow a systems engineering process to ensure that all required project components are included in the development of the Contract documents and the project can be built as designed and to specifications.

The Scope of Services establishes which items of work in the FDOT Design Manual and other pertinent manuals are specifically prescribed to accomplish the work included in this contract, and also indicate which items of work will be the responsibility of the CONSULTANT, the LOCAL AGENCY, and/or FDOT.

The CONSULTANT shall be aware that as a project is developed, certain modifications

and/or improvements to the original concepts may be required. The CONSULTANT shall incorporate these refinements into the design and consider such refinements to be an anticipated and integral part of the work. This shall not be a basis for any supplemental fee request(s).

The CONSULTANT shall demonstrate good project management practices while working on this project. These include communication with the LOCAL AGENCY and others as necessary, management of time and resources, and documentation. The CONSULTANT shall set up and maintain throughout the design of the project a contract file in accordance with FDOT procedures. CONSULTANTs are expected to know the laws and rules governing their professions and are expected to provide services in accordance with current regulations, codes and ordinances and recognized standards applicable to such professional services. The Consultant shall provide qualified technical and professional personnel to perform to FDOT standards and procedures, the duties and responsibilities assigned under the terms of this agreement. The Consultant shall minimize to the maximum extent possible the LOCAL AGENCY's need to apply its own resources to assignments authorized by the LOCAL AGENCY.

The LOCAL AGENCY will provide contract administration, management services, and technical reviews of all work associated with the development and preparation of contract documents, including Construction documents. The LOCAL AGENCY's technical reviews are for high-level conformance and are not meant to be comprehensive reviews. The CONSULTANT shall be fully responsible for all work performed and work products developed under this Scope of Services. The LOCAL AGENCY may provide job-specific information and/or functions as outlined in this contract, if favorable.

2 PROJECT DESCRIPTION

The CONSULTANT shall investigate the status of the project and become familiar with concepts and commitments (typical sections, alignments, etc.) developed from prior studies and/or activities. If a Preliminary Engineering Report is available from a prior or current Project Development and Environment (PD&E) study, the CONSULTANT shall use the approved concepts as a basis for the design unless otherwise directed by the LOCAL AGENCY.

The CONSULTANT shall provide the necessary design services for the County Road 108 Safety Improvement Project in Nassau County, Florida. The project will construct safety improvements to County Road 108 from CR 115 (Bay Road) to CR 121A (Middle Road), and includes the following:

- ***Pavement marking and signage improvements***
- ***Superelevation cross slope correction***
- ***Milling and overlay of roadway surface***
- ***Widening and shoulder construction as needed.***
- ***Analysis and design of needed intersection improvements***

It should be noted that the project is being funded by FDOT under a Federal Highway Administration (FHWA) Local Agency Program (LAP) agreement.

2.1 Project General and Roadway (Activities 3, 4, and 5)

Public Involvement: Develop and list of residents and briefly outline strategies for contacting residents that will be impacted by improvements. No public meeting.

Other Agency Presentations/Meetings: May need to attend up to one (1) County Board of Commissioners meetings to assist County Engineer with questions regarding the project.

Joint Project Agreements: N/A

Specifications Package and Construction Checklist Preparation: The CONSULTANT shall prepare and provide a specifications package prepared in accordance with the Local Agency's specifications guidance. The Specifications Package shall be prepared using the Local Agency's specification development methodology or the DEPARTMENT's Specs on the Web application. The CONSULTANT shall assist the LOCAL AGENCY with the preparation of the LAP Clear Letters and Construction Checklist.

Contract Maintenance and Local Agency Program Information Tool (LAPIT): Contract maintenance includes project management effort for complete setup and maintenance of files, developing monthly progress reports, schedule updates, work effort to develop and execute subconsultant agreements, etc. All project files will be stored in the LAPIT system.

Value Engineering: N/A.

Risk Assessment Workshop: N/A

Plan Type: The roadway plans shall be prepared in a Layout format and a horizontal scale of 1" = 100' and double stacked. Additional plan/detail sheets will be needed at certain locations and shall be plotted at a horizontal scale of 1" = 40' and double stacked. Plans will include the following sheets at a minimum:

1. Key Sheet
2. Summary of Pay Items Sheet
3. Typical Section Sheet
4. General Notes Sheet
5. Summary of Quantitates Sheet(s)
6. Superelevation Details
7. Reference Points
8. Layout Sheets

9. Plan/Detail Sheet(s)

10. Cross Sections

11. Temporary Traffic Control Plan Sheet

12. Signing and Pavement Marking Component Set

13. Signalization Component Set

14. Lighting Component Set (Not for bid)

Limits: CR 108 from CR 115 (Bay Road) to CR 121A (Middle Road). A distance of approximately 7.8 miles. ***Note: Milling and resurfacing and pedestrian upgrades at US 1 will be handled in an upcoming RRR project (FPN 445351-1-52-01).***

Typical Section: Two-lane un-divided rural with flush shoulder (0' to 5' paved) and ditches or swales on both sides. Typical Section Details will be needed for overbuild due to superelevation correction along two (2) curves and regrading shoulders to improve drainage runoff.

Pavement Design: One design is expected for mainline resurfacing of the pavement under the LAP portion of this project; apply friction course overlay with 1" average milling. Any additional pavement recommendation must be approved by LOCAL AGENCY and handled under a separate agreement.

Pavement Type Selection Report(s): N/A

Cross Slope: Superelevation Correction is anticipated on 2 out of 3 curves within the project limits

Access Management Classification: 6

Transit Route Features: N/A

Major Intersections/Interchanges: CR 115 (Bay Road) and US 1

Roadway Alternative Analysis: N/A

Level of TTCP: Level 1

Temporary Lighting: N/A

Temporary Signals: N/A

Temporary Drainage: N/A

Design Variations/Exceptions: Anticipated variations/exceptions include, but are not limited to, lateral offset, cross slope, and shoulder width.

Design Reports: Road Safety Audit (RSA) – Effort will include coordination with stakeholders and project management, a pre-meeting with stakeholders, the Road Safety Audit field review, download and analysis of crash reports and development of collision diagrams for hot-spot locations through the 8-mile corridor, a Road Safety Audit report assuming a draft and final submittal, along with a debrief meeting with the stakeholder team. The report will include recommendations based on observations as well as crash data trends and recommendations for follow-up analysis, if necessary.

Back of Sidewalk Profiles: N/A.

Selective Clearing and Grubbing: ***N/A***.

2.2 Drainage (Activities 6a and 6b)

System Type: CR 108 is an open drainage system utilizing ditches or swales to cross drains, with numerous side drains under driveways and side streets.

Existing drainage pipe and structures will be reviewed for maintenance and safety improvements.

Existing ditches and swales will be regraded as needed due to superelevation correction and shoulder regrading.

2.3 Utilities Coordination (Activity 7)

The CONSULTANT is responsible to certify that all necessary arrangements for utility work on this project have been made and will not conflict with the physical construction schedule. The CONSULTANT should coordinate transmittals to Utility Companies and meet production schedules.

The CONSULTANT shall ensure FDOT standards, policies, procedures, practices, and design criteria are followed concerning utility coordination.

The CONSULTANT may employ more than one individual or utility engineering consultant to provide utility coordination and engineering design expertise. The CONSULTANT shall identify a dedicated person responsible for managing all utility coordination activities. This person shall be contractually referred to as the Utility Coordination Manager and shall be identified in the CONSULTANT proposal. The Utility Coordination Manager shall be required to satisfactorily demonstrate to the FDOT District Utilities Administrator that they have the following knowledge, skills, and expertise:

A minimum of 4 years of experience performing utility coordination in accordance with FDOT, Federal Highway Administration (FHWA), and American Association of State Highway and Transportation Officials (AASHTO) standards, policies, and procedures.

A thorough knowledge of the FDOT plans production process and District utility coordination process.

A thorough knowledge of FDOT agreements, standards, policies, and procedures.

The Utility Coordination Manager shall be responsible for managing all utility coordination, including the following:

Assuring that Utility Coordination and accommodation is in accordance to the FDOT, FHWA, and AASHTO standards, policies, procedures, and design criteria.

Assisting the engineer of record in identifying all existing utilities and coordinating any new installations. Assisting the Engineer of Record with resolving utility conflicts.

Scheduling and performing utility coordination meetings, keeping and distribution of minutes/action items of all utility meetings, and ensuring expedient follow-up on all unresolved issues.

Distributing all plans, conflict matrixes and changes to affected utility owners and making sure this information is properly coordinated and documented.

Identifying and coordinating the completion of any FDOT or utility owner agreement that is required for reimbursement, or accommodation of the utility facilities associated with the project.

Review and certify to the LOCAL AGENCY that all Utility Work Schedules are correct and in accordance with the Department's standards, policies, and procedures.

Prepare, review and process all utility related reimbursable paperwork inclusive of betterment and salvage determination.

Specific tasks include, but are not limited to:

- *Prepare a Sunshine One Call Design Ticket*
- *Contact UAO's to confirm they are within project limits. Provide plan of proposed work and request no conflict/no involvement letter or email.*
- *Review any markups UAO's may provide*
- *Coordinate lighting needs with power companies*
- *Provide the DEPARTMENT and LOCAL AGENCY with response letters and request to CERT letter*
- *UAO mark-ups will be shown on the roadway plans*

Anticipated UAO's: Comcast Cable Communications, Windstream Communications, AT&T, FPL, Century Link, MCI, and Okefenoke Rural Electric Membership Corp.

2.4 Environmental Permits and Environmental Clearances (Activity 8)

Environmental permits are not anticipated for the milling and resurfacing of the pavement but may be required based on wetland impacts from proposed superelevation correction and regrading of shoulders. Environmental permitting

activities will include wetland delineation on both sides of the roadway, wetland impact exhibits, and completion and submittal of application for permits to both SJRWMD and USACE.

The LOCAL AGENCY will provide compensatory wetland mitigation in accordance with Section 373.4137, Florida Statutes.

2.5 Structures (Activities 9 – 18)

Bridge(s): 740041 & 740064

Type of Bridge Structure Work: N/A

Retaining Walls: N/A.

Noise Barrier Walls: N/A

Miscellaneous: 740041 & 740064 are bridge box culverts with some settlement adjacent to the box. The Consultant will inspect these bridge box culverts, in conjunction with Geotechnical data, to determine if any structural work is required. Any structural design work will be performed as an Optional Service.

2.6 Signing and Pavement Markings (Activities 19 & 20)

No-Passing Zone Study: ***Analysis will be completed for the roadway east of US 1 for a length of 6.8 miles and include a draft and final report and recommendations for inclusion in the final design plans.***

The Signing and Pavement Markings shall be prepared in a Plan format for CR 108 from CR115 (Bay Road) TO CR121 A (Middle Road). The plan sheets shall be plotted at a horizontal scale of 1" =40' and double stacked within the urbanized area and at 1" = 100' and double staked in the rural area. The design will update signage and pavement markings at three (3) curves, which includes raised thermoplastic audible/vibratory markings in the curves (edge line and center line) and the approaches. Update and/or install critical signs and pavement markings intersections, mid-block crossings, and the railroad crossing. Include enhanced conspicuity of the signs by adding reflective sign strips on the warning sign posts. Provide advance intersection warning signage for Bay Road and Pine Ridge Road. Update corridor pavement markings to thermoplastic.

2.7 Signalization (Activities 21 & 22)

Intersections: Signalization plans shall include RRFB's at mid-block crossings located near First Baptist Church and Hilliard Middle Senior High School.

Traffic Data Collection: N/A.

Traffic Studies: N/A.

Count Stations: N/A.

Traffic Monitoring Sites: N/A.

2.8 Lighting (Activities 23 & 24)

The CONSULTANT will prepare existing and proposed lighting photo metrics in the areas of the two mid-block crossings. Proposed photo metrics will be based on adding luminaires to existing power poles whenever possible. The addition of luminaires to power poles would be addressed during utility coordination. Lighting plans will be developed and provided to the power company for implementation.

2.9 Landscape (Activities 25 & 26) – N/A

2.10 Survey (Activity 27)

Survey Limits: The design survey will cover CR 108 for the project limits starting approximately 200' south of the intersection at CR 115 (Bay Road) and stopping just east of CR 121A (Middle Road). Design survey limits will be from R/W to R/W and side Roads to 50 feet beyond the R/W; except CR 115 (Bay Road) which will extend 200'.

Design Survey: The CONSULTANT will recover/re-establish Horizontal Project Control in NAD 83/2011 Datum and Vertical Project Control in NAVD 1988 Datum and Benchmarks located every 2000'.

The CONSULTANT shall establish a baseline of survey along the proposed project limits as needed to support the construction activities including references every 2000'. Locate all above ground features and improvements for the limits of the project by collecting the required data for the purpose of creating a DTM with sufficient density. Shoot all break lines; high and low points. Effort includes field edits, analysis and processing of all field collected data, existing maps, and/or reports. Make a complete topographic survey including, but not limited to buildings, mail boxes, driveways, sidewalks, fences, signs, street light poles, above ground utilities, pavement, pavement markings, traffic signals, curbing, curb cuts, ADA ramps, side drains, cross drains, structures, manholes, valves, valve boxes, fire hydrants, phone pedestals, phone poles, trees, tree lines, ornamental trees, shrubs, guardrails, call boxes, traffic count cabinets, traffic sensor loops and lead-ins to window, pull boxes, etc. within the limits of the survey as outlined above. Incorporate R/W information for entire project in the final topography delivery as shown on COUNTY R/W Maps. Collect wetland delineation information and geotechnical pavement boring locations and incorporate into the topographic survey.

A 3D DTM will only be developed in 5 locations at approximately 500-700 LF each. Conventional cross sections will be obtained at a spacing of 200' along curves and 1000' along tangent areas.

Subsurface Utility Engineering (SUE) Survey: Perform utility designates as needed to support the placement of RRFB's at the mid block crossings, shoulder regrading, and drainage modifications, as needed.

Right of Way Survey: N/A.

Vegetation Survey: *N/A*.

2.11 Photogrammetry (Activity 28) – N/A

2.12 Mapping (Activity 29) – N/A

2.13 Terrestrial Mobile LiDAR (Activity 30)

Survey Limits: ***The design survey will cover CR 108 for the project limits starting approximately 200' south of the intersection at CR 115 (Bay Road) and stopping just east of* CR 121A (Middle Road). *Design survey limits will be from R/W to R/W and side Roads to 50 feet beyond the R/W; except CR 115 (Bay Road) which will extend 200'.***

2.14 Architecture (Activity 31) – N/A

2.15 Noise Barriers (Activity 32) – N/A

2.16 Intelligent Transportation Systems (Activities 33 & 34) – N/A

2.17 Geotechnical (Activity 35)

Field Exploration: ***The proposed exploration will consist of geotechnical studies and the collection of subsurface data as follows:***

- ***Roadway Improvements (Milling & Resurfacing) – The geotechnical exploration will consist of performing a total of 42 pavement cores for pavement thickness determination. Due to the severity of the rutting, cracking, and pavement failures observed, and the presence of several patches, overlays, and depressions, pavement cores will be performed at a frequency of one core per half a mile per lane, with additional cores performed in cracked sections. Two LBR samples will also be collected along a section of the roadway that may require reconstruction.***
- ***Roadway Depressions at Box Culverts and Pipe Crossings – The geotechnical exploration will consist of performing a total of six Standard Penetration Test (SPT) borings. The SPT borings will extend to a depth of 20 feet with continuous sampling at three box culverts, and to a depth of 10 feet at three pipe crossings. The purpose of the borings will be to evaluate the cause of settlement and roadway depressions.***

Laboratory Testing: ***Routine laboratory testing will be conducted on representative***

soil samples to determine classification. Laboratory classification and index soil tests will be performed as necessary on selected soil samples obtained from the exploration. Specific tests to be performed are Moisture Content, Organic Content, Percent Fines, Atterberg Limits, and Limerock Bearing Ratio (LBR).

Engineering/Support Services: *A geotechnical engineer, registered in the State of Florida, will direct the geotechnical exploration and provide a presentation of the site and subsurface conditions with respect to the planned construction. The results of the exploration will be presented in a report containing the following:*

- *A brief discussion of the planned construction.*
- *A table summarizing the existing pavement system layer thicknesses.*
- *A graphical representation of the subsurface conditions encountered as well as encountered and seasonal high water tables, etc.*
- *An appendix that contains stratified soil boring profiles, laboratory test data sheets, and other pertinent calculations.*
- *Written discussion of the subsurface conditions encountered at the roadway depressions at the box culverts and pipe crossings along with recommended remediation options.*

2.18 3D Modeling (Activity 36) – N/A

2.19 Project Schedule

Within ten (10) days after the Notice-To-Proceed, and prior to the CONSULTANT beginning work, the CONSULTANT shall provide a detailed project activity/event schedule for LOCAL AGENCY and CONSULTANT scheduled activities required to meet the current LOCAL AGENCY Production Date. The current production date is November 31, 2020. The schedule shall be accompanied by an anticipated payout and fiscal progress curve. For the purpose of scheduling, the CONSULTANT shall allow for a four (4) *week review time for each phase submittal and any other submittals as appropriate.*

The schedule shall indicate all required submittals.

All fees and price proposals are to be based on the negotiated schedule of 12 *months for final construction contract documents. However, the contract deadline is* 24 *months from the Notice to Proceed.*

Periodically, throughout the life of the contract, the project schedule and payout and fiscal progress curves shall be reviewed and, with the approval of the LOCAL AGENCY, adjusted as necessary to incorporate changes in the Scope of Services and progress to date.

The approved schedule and schedule status report, along with progress and payout curves, shall be submitted with the monthly progress report.

The schedule shall be submitted in an FDOT system-compatible format.

2.20 Submittals

The CONSULTANT shall furnish construction contract documents as required by the LOCAL AGENCY to adequately control, coordinate, and approve the work concepts. The CONSULTANT shall distribute submittals as directed by the LOCAL AGENCY. The LOCAL AGENCY will determine the specific number of copies required prior to each submittal.

2.21 Provisions for Work

All work shall be prepared with English units in accordance with the latest editions of standards and requirements utilized by the LOCAL AGENCY which include, but are not limited to, publications such as:

- General
  - Title 29, Part 1910, Standard 1910.1001, Code of Federal Regulations (29 C.F.R. 1910.1001) – Asbestos Standard for Industry, U.S. Occupational Safety and Health Administration (OSHA)
  - 29 C.F.R. 1926.1101 – Asbestos Standard for Construction, OSHA
  - 40 C.F.R. 61, Subpart M - National Emission Standard for Hazardous Air Pollutants (NESHAP), Environmental Protection Agency (EPA)
  - 40 C.F.R. 763, Subpart E – Asbestos-Containing Materials in Schools, EPA
  - 40 C.F.R. 763, Subpart G – Asbestos Worker Protection, EPA
  - Americans with Disabilities Act (ADA) Standards for Accessible Design
  - AASHTO – A Policy on Design Standards Interstate System
  - AASHTO – Roadside Design Guide
  - AASHTO – Roadway Lighting Design Guide
  - AASHTO – A Policy for Geometric Design of Highways and Streets
  - AASHTO – Highway Safety Manual
  - Rule Chapter 5J-17, Florida Administrative Code (F.A.C.), Standards of Practice for Professional Surveyors and Mappers
  - Chapter 469, Florida Statutes (F.S.) – Asbestos Abatement
  - Rule Chapter 62-257, F.A.C., Asbestos Program
  - Rule Chapter 62-302, F.A.C., Surface Water Quality Standards
  - Code of Federal Regulations (C.F.R.)
  - Florida Administrative Codes (F.A.C.)
  - Chapters 20, 120, 215, 455, Florida Statutes (F.S.) – Florida Department of Business & Professional Regulations Rules
  - Florida Department of Environmental Protection Rules
  - FDOT Basis of Estimates Manual
  - FDOT Computer Aided Design and Drafting (CADD) Manual
  - FDOT Standard Plans
  - FDOT Flexible Pavement Design Manual
  - FDOT - Florida Roundabout Guide
  - FDOT Handbook for Preparation of Specifications Package
  - FDOT Standard Plans Instructions
  - FDOT Manual of Uniform Minimum Standards for Design, Construction

and Maintenance for Streets and Highways ("Florida Greenbook")
  - FDOT Materials Manual
  - FDOT Pavement Type Selection Manual
  - FDOT Design Manual
  - FDOT Procedures and Policies
  - FDOT Procurement Procedure 001-375-030, Compensation for Consultant Travel Time on Professional Services Agreements
  - FDOT Project Development and EnvironmentManual
  - FDOT Project Traffic Forecasting Handbook
  - FDOT Public Involvement Handbook
  - FDOT Rigid Pavement Design Manual
  - FDOT Standard Specifications for Road and Bridge Construction
  - FDOT Utility Accommodation Manual
  - Manual on Speed Zoning for Highways, Roads, and Streets in Florida
  - Federal Highway Administration (FHWA) - Manual on Uniform Traffic Control Devices (MUTCD)
  - FHWA – National Cooperative Highway Research Program (NCHRP) Report 672, Roundabouts: An Informational Guide
  - FHWA Roadway Construction Noise Model (RCNM) and Guideline Handbook
  - Florida Fish and Wildlife Conservation Commission - Standard Manatee Construction Conditions 2005
  - Florida Statutes (F.S.)
  - Florida's Level of Service Standards and Guidelines Manual for Planning
  - Model Guide Specifications – Asbestos Abatement and Management in Buildings, National Institute for Building Sciences (NIBS)
  - Quality Assurance Guidelines
  - Safety Standards
  - Any special instructions from the LOCAL AGENCY
- Roadway
  - FDOT – Florida Intersection Design Guide
  - FDOT - Project Traffic Forecasting Handbook
  - FDOT - Quality/Level of Service Handbook
  - Florida's Level of Service Standards and Highway Capacity Analysis for the SHS
  - Transportation Research Board (TRB) - Highway Capacity Manual
- Permits
  - Chapter 373, F.S. – Water Resources
  - US Fish and Wildlife Service Endangered Species Programs
  - Florida Fish and Wildlife Conservation Commission Protected Wildlife Permits
  - Bridge Permit Application Guide, COMDTPUB P16591.3C
  - Building Permit
- Drainage

- FDOT Bridge Hydraulics Handbook
- FDOT Culvert Handbook
- FDOT Drainage Manual
- FDOT Erosion and Sediment Control Manual
- FDOT Exfiltration Handbook
- FDOT Hydrology Handbook
- FDOT Open Channel Handbook
- FDOT Optional Pipe Materials Handbook
- FDOT Storm Drain Handbook
- FDOT Stormwater Management Facility Handbook
- FDOT Temporary Drainage Handbook
- FDOT Drainage Connection Permit Handbook
- FDOT Bridge Scour Manual

- Survey and Mapping
  - All applicable Florida Statutes and Administrative Codes
  - Applicable Rules, Guidelines Codes and authorities of other Municipal, County, State and Federal Agencies.
  - FDOT Aerial Surveying Standards for Transportation Projects Topic 550-020-002
  - FDOT Right of Way Mapping Handbook
  - FDOT Surveying Procedure Topic 550-030-101
  - Florida Department of Transportation Right of Way Procedures Manual
  - Florida Department of Transportation Surveying Handbook
  - Right of Way Mapping Procedure 550-030-015
- Traffic Engineering and Operations and ITS
  - AASHTO - An Information Guide for Highway Lighting
  - AASHTO - Guide for Development of Bicycle Facilities
  - FHWA Standard Highway Signs Manual
  - FDOT Manual on Uniform Traffic Studies (MUTS)
  - FDOT Median Handbook
  - FDOT Traffic Engineering Manual
  - National Electric Safety Code
  - National Electrical Code
- Florida's Turnpike Enterprise
  - Florida's Turnpike Plans Preparation and Practices Handbook (TPPPH)
  - Florida's Turnpike Lane Closure Policy
  - Florida's Turnpike Drainage Manual Supplement
  - Rigid Pavement Design Guide for Toll Locations with Electronic Toll Collection
  - Flexible Pavement Design Guide for Toll Locations with Electronic Toll Collection
  - Florida's Turnpike General Tolling Requirements (GTR)

- Additional Florida's Turnpike Enterprise standards, guides, and policies for design and construction can be found on the FTE Design Website: http://design.floridasturnpike.com

- Traffic Monitoring
  - American Institute of Steel Construction (AISC) Manual of Steel Construction, referred to as "AISC Specifications"
  - American National Standards Institute (ANSI) RP-8-00 Recommended Practice for Roadway Lighting
  - AASHTO AWS D1.1/ANSI Structural Welding Code – Steel
  - AASHTO D1.5/AWS D1.5 Bridge Welding Code
  - FHWA Traffic Detector Handbook
  - FDOT General Interest Roadway Data Procedure
  - FHWA Traffic Monitoring Guide
  - FDOT's Traffic/Polling Equipment Procedures
- Structures
  - AASHTO Load and Resistance Factor Design (LRFD) Bridge Design Specifications and Interims
  - AASHTO LRFD Movable Highway Bridge Design Specifications and Interims
  - AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, and Interims.
  - AASHTO/-AWS-D1. 5M/D1.5: An American National Standard Bridge Welding Code
  - AASHTO Guide Specifications for Structural Design of Sound Barriers
  - AASHTO Manual for Condition Evaluation and Load and Resistance Factor Rating (LRFR) of Highway Bridges
  - FDOT Bridge Load Rating Manual
  - FDOT Structures Manual
  - FDOT Structures Design Bulletins (available on FDOT Structures web site only)
  -
- Geotechnical
  - FHWA Checklist and Guidelines for Review of Geotechnical Reports and Preliminary Specifications
  - Manual of Florida Sampling and Testing Methods
  - Soils and Foundation Handbook
- Landscape Architecture
  - Florida Department of Agriculture and Consumer Services Grades and Standards for Nursery Plants
- Architectural
  - Building Codes
  - Florida Building Code:

- Building
- Fuel Gas
- Mechanical
- Plumbing
- Existing Building

  - Florida Accessibility Code for Building Construction
  - Rule Chapter 60D, F.A.C., Division of Building Construction
  - Chapter 553, F.S. – Building Construction Standards
  - ANSI A117.1 2003 Accessible and Usable Building and Facilities
  - Titles II and III, Americans With Disabilities Act (ADA), Public Law 101-336; and the ADA Accessibility Guidelines (ADAAG)

- Architectural – Fire Codes and Rules

  - National Fire Protection Association (NFPA) - Life Safety Code
  - NFPA 70 - National Electrical Code
  - NFPA 101 - Life Safety Code
  - NFPA 10 - Standard for Portable Fire Extinguishers
  - NFPA 11 - Standard for Low-Expansion Foam Systems
  - NFPA 11A - Standard for High- and Medium-Expansion Foam Systems
  - NFPA 12 - Standard for Carbon Dioxide Extinguishing Systems
  - NFPA 13 - Installation of Sprinkler Systems
  - NFPA 30 - Flammable and Combustible Liquids Code
  - NFPA 54 - National Gas Fuel Code
  - NFPA 58 - LP-Gas Code
  - Florida Fire Prevention Code as adopted by the State Fire Marshal – Consult with the Florida State Fire Marshal's office for other frequently used codes.

- Architectural – Extinguishing Systems

  - NFPA 10 - Fire Extinguishers
  - NFPA 13 - Sprinkler
  - NFPA 14 - Standpipe and Hose System
  - NFPA 17 - Dry Chemical
  - NFPA 20 - Centrifugal Fire Pump
  - NFPA 24 - Private Fire Service Mains
  - NFPA 200 - Standard on Clean Agent Fire Extinguishing Systems

- Architectural – Detection and Fire Alarm Systems

  - NFPA 70 - Electrical Code
  - NFPA 72 - Standard for the Installation, Maintenance and Use of Local Protective Signaling Systems
  - NFPA 72E - Automatic Fire Detectors
  - NFPA 72G - Installation, Maintenance, and Use of Notification Appliances
  - NFPA 72H -Testing Procedures for Remote Station and Proprietary Systems
  - NFPA 74 - Household Fire Warning Equipment

- NFPA 75 - Protection of Electronic Computer Equipment

- Architectural – Mechanical Systems
  - NFPA 90A - Air Conditioning and Ventilating Systems
  - NFPA 92A - Smoke Control Systems
  - NFPA 96 - Removal of Smoke and Grease-Laden Vapors from Commercial Cooking Equipment
  - NFPA 204M - Smoke and Heating Venting

- Architectural – Miscellaneous Systems
  - NFPA 45 - Laboratories Using Chemicals
  - NFPA 80 - Fire Doors and Windows
  - NFPA 88A - Parking Structures
  - NFPA 105- Smoke and Draft-control Door Assemblies
  - NFPA 110 - Emergency and Standby Power Systems
  - NFPA 220 - Types of Building Construction
  - NFPA 241 - Safeguard Construction, Alteration, and Operations
  - Rule Chapter 69A-47, F.A.C., Uniform Fire Safety For Elevators
  - Rule Chapter 69A-51, F.A.C., Boiler Safety

- Architectural – Energy Conservation
  - Rule Chapter 60D-4, F.A.C., Rules For Construction and Leasing of State Buildings To Insure Energy Conservation
  - Section 255.255, F.S., Life-Cycle Costs

- Architectural – Elevators
  - Rule Chapter 61C-5, F.A.C., Florida Elevator Safety Code
  - ASME A-17.1, Safety Code for Elevators and Escalators
  - Architectural – Floodplain Management Criteria
  - Section 255.25, F.S., Approval Required Prior to Construction or Lease of Buildings
  - Rules of the Federal Emergency Management Agency (FEMA)

- Architectural – Other
  - Rule Chapter 64E-6, F.A.C., Standards for On Site Sewage Disposal Systems (Septic Tanks)
  - Rule Chapter 62-600, F.A.C., Domestic Wastewater Facilities
  - Rule Chapter 62-761, F.A.C., Underground Storage Tank Systems
  - American Concrete Institute
  - American Institute of Architects - Architect's Handbook of Professional Practice
  - American Society for Testing and Materials - ASTM Standards
  - Brick Institute of America
  - DMS - Standards for Design of State Facilities
  - Florida Concrete Products Association
  - FDOT – ADA/Accessibility Procedure
  - FDOT – Building Code Compliance Procedure

- FDOT – Design Build Procurement and Administration
- LEED (Leadership in Energy and Environmental Design) Green Building Rating System
- National Concrete Masonry Association
- National Electrical Code
- Portland Cement Association - Concrete Masonry Handbook
- United State Green Building Council (USGBC)

2.22 Services to be Performed by the LOCAL AGENCY When appropriate and /or available, the LOCAL AGENCY and/or FDOT will provide project data including:

- Numbers for field books.
- Preliminary Horizontal Network Control.
- Access for the CONSULTANT to utilize the LOCAL AGENCY's Information Technology Resources.
- All LOCAL AGENCY agreements with Utility Agency Owner (UAO).
- All certifications necessary for project letting.
- All information that may come to the LOCAL AGENCY pertaining to future improvements.
- All future information that may come to the LOCAL AGENCY during the term of the CONSULTANT's Agreement, which in the opinion of the LOCAL AGENCY is necessary for the prosecution of the work.
- Available traffic and planning data.
- All approved utility relocations.
- Project utility certification to FDOT.
- Any necessary title searches.
- Engineering standards review services.
- All available information in the possession of the LOCAL AGENCY pertaining to utility companies whose facilities may be affected by the proposed construction.
- All future information that may come to the LOCAL AGENCY pertaining to subdivision plans so that the CONSULTANT may take advantage of additional areas that can be utilized as part of the existing right of way.
- Systems traffic for Projected Design Year, with K, D, and T factors.
- Previously constructed Highway Beautification or Landscape Construction Plans
- Landscape Opportunity Plan(s)
- Existing right of way maps.
- Existing cross slope data for all RRR projects.
- Existing pavement evaluation report for all RRR projects.
- PD&E Documents
- Design Reports
- Letters of authorization designating the CONSULTANT as an agent of the LOCAL AGENCY in accordance with F.S. 337.274.
- Phase reviews of plans and engineering documents.
- Regarding Environmental Permitting Services:
  - Approved Permit Document when available.

- Approval of all contacts with environmental agencies.
- General philosophies and guidelines of the LOCAL AGENCY to be used in the fulfillment of this contract. Objectives, constraints, budgetary limitations, and time constraints will be completely defined by the Project Manager.
- Appropriate signatures on application forms.

3 PROJECT COMMON AND PROJECT GENERAL TASKS

Project Common Tasks

Project Common Tasks, as listed below, are work efforts that are applicable to many project activities, 4 (Roadway Analysis) through 36 (3D Modeling). These tasks are to be included in the project scope in each applicable activity when the described work is to be performed by the CONSULTANT.

Cost Estimates: The CONSULTANT is responsible for producing a construction cost estimate and reviewing and updating the cost estimate when scope changes occur and/or at milestones of the project. Prior to 60% plans or completion of quantities, the FDOT's Long-Range Estimate (L.R.E.) system will be used to produce a conceptual estimate, according to District policy. Once the quantities have been developed (beginning at 60% plans and no later than 90% plans) the CONSULTANT shall be responsible for inputting the pay items and quantities into AASHTOWare Project Preconstruction through the use of the FDOT's Designer Interface for generating the summary of quantities and the FDOT's in-house estimates. A Summary of Pay Items sheet shall be prepared with all required Plans submittals as required.

Technical Special Provisions: The CONSULTANT shall provide Technical Special Provisions for all items of work not covered by the Standard Specifications for Road and Bridge Construction and the workbook of implemented modifications.

A Technical Special Provision shall not modify the Standard Specifications and implemented modifications in any way.

The Technical Special Provisions shall provide a description of work, materials, equipment and specific requirements, method of measurement and basis of payment. Proposed Technical Special Provisions will be submitted to the District Specifications Office for initial review at the time of the Phase III plans review submission to the LOCAL AGENCY's Project Manager. This timing will allow for adequate processing time prior to final submittal. The Technical Special Provisions will be reviewed for suitability in accordance with the Handbook for Preparation of Specification Packages. The District Specifications Office will forward the Technical Special Provisions to the District Legal Office for their review and comment. All comments will be returned to the CONSULTANT for correction and resolution. Final Technical Special Provisions shall be digitally signed and sealed in accordance with applicable Florida Statutes.

The CONSULTANT shall contact the appropriate District Specifications Office for details

of the current format to be used before starting preparations of Technical Special Provisions.

Modified Special Provisions: The CONSULTANT shall provide Modified Special Provisions as required by the project. Modified Special Provisions are defined in the Specifications Handbook.

A Modified Special Provision shall not modify the first nine sections of the Standard Specifications and implemented modifications in any way. All modifications to other sections must be justified to the appropriate District and Central Specifications Offices to be included in the project's specifications package.

Field Reviews: The CONSULTANT shall make as many trips to the project site as required to obtain necessary data for all elements of the project.

Technical Meetings: The CONSULTANT shall attend all technical meetings necessary to execute the Scope of Services of this contract. This includes meetings with FDOT and/or Agency staff, between disciplines and subconsultants, such as access management meetings, pavement design meetings, local governments, railroads, airports, progress review meetings (phase review), and miscellaneous meetings. The CONSULTANT shall prepare, and submit to the LOCAL AGENCY's Project Manager for review, the meeting minutes for all meetings attended by them. The meeting minutes are due within five (5) working days of attending the meeting.

Quality Assurance/Quality Control: It is the intention of the LOCAL AGENCY that design CONSULTANTS, including their subconsultant(s), are held responsible for their work, including plans review. The purpose of CONSULTANT plan reviews is to ensure that CONSULTANT plans follow the plan preparation procedures outlined in the FDOT Design Manual, that state and federal design criteria are followed with the LOCAL AGENCY concept, and that the CONSULTANT submittals are complete. All subconsultant document submittals shall be submitted by the subconsultant directly to the CONSULTANT for their independent Quality Assurance/Quality Control review and subsequent submittal to the LOCAL AGENCY.

It is the CONSULTANT'S responsibility to independently and continually QC their plans and other deliverables. The CONSULTANT should regularly communicate with the LOCAL AGENCY's Design Project Manager to discuss and resolve issues or solicit opinions from those within designated areas of expertise.

The CONSULTANT shall be responsible for the professional quality, technical accuracy and coordination of all surveys, designs, drawings, specifications and other services furnished by the CONSULTANT and their subconsultant(s) under this contract.

The CONSULTANT shall provide a Quality Control Plan that describes the procedures to be utilized to verify, independently check, and review all maps, design drawings, specifications, and other documentation prepared as a part of the contract. The CONSULTANT shall describe how the checking and review processes are to be documented to verify that the required procedures were followed. The Quality Control Plan shall be one specifically designed for this project. The CONSULTANT shall submit a

Quality Control Plan for approval within twenty (20) business days of the written Notice to Proceed and it shall be signed by the CONSULTANT's Project Manager and the CONSULTANT QC Manager. The Quality Control Plan shall include the names of the CONSULTANT's staff that will perform the quality control reviews. The Quality Control reviewer shall be a Florida Licensed Professional Engineer fully prequalified under F.A.C. 14-75 in the work type being reviewed. A marked up set of prints from a Quality Control Review indicating the reviewers for each component (structures, roadway, drainage, signals, geotechnical, signing and marking, lighting, landscape, surveys, etc.) and a written resolution of comments on a point-by-point basis will be required, if requested by the LOCAL AGENCY, with each phase submittal. The responsible Professional Engineer, Landscape Architect, or Professional Surveyor & Mapper that performed the Quality Control review will sign a statement certifying that the review was conducted and found to meet required specifications.

The CONSULTANT shall, without additional compensation, correct all errors or deficiencies in the designs, maps, drawings, specifications and/or other products and services.

Independent Peer Review: When directed by the LOCAL AGENCY, a subconsultant may perform Independent Peer Reviews.

Independent Peer Review and a Constructability/Bidability Review for design Phase Plans document submittals are required on this project. These separate reviews shall be completed by someone who has not worked on the plan component that is being reviewed. These could include, but are not limited to a separate office under the Prime's umbrella, a subconsultant that is qualified in the work group being reviewed, or a CEI. It does not include persons who have knowledge of the day to day design efforts. The Constructability/Bidability Review shall be performed by a person with experience working on LOCAL AGENCY construction projects (CEI, Contractor, etc.).

The Independent Peer Review for design Phase Plans submittals shall ensure the plans meet the FDM, Standard Plans and FDOT CADD Manual. The Constructability/Bidability Review shall ensure the project can be constructed and paid for as designed. Constructability/Bidability Reviews should be conducted prior to the Phase III and Phase IV submittals, using the Phase Review Checklist (Guidance Document 1-1-A) from the Construction Project Administration Manual (CPAM) as a minimum guideline. The CONSULTANT shall submit this checklist, as well as the "marked-up" set of plans during this review, and review comments and comment responses from any previous Constructability/Bidability reviews. These items will be reviewed by District Design and District Construction.

Supervision: The CONSULTANT shall supervise all technical design activities.

Coordination: The CONSULTANT shall coordinate with all disciplines of the project to produce a final set of construction documents.

Project General Tasks

Project General Tasks, described in Sections 3.1 through 3.7 below, represent work efforts that are applicable to the project as a whole and not to any one or more specific project activity. The work described in these tasks shall be performed by the CONSULTANT when included in the project scope.

3.1 Public Involvement – N/A

Public involvement includes communicating to all interested persons, groups, and government organizations information regarding the development of the project. The CONSULTANT shall provide to the LOCAL AGENCY drafts of all Public Involvement documents (i.e., newsletters, property owner letters, advertisements, etc.) associated with the following tasks for review and approval at least fourteen (14) ***business days prior to printing and / or distribution.***

3.1.1 Community Awareness Plan

Prepare a Community Awareness Plan (CAP) for review and approval by the LOCAL AGENCY within 30 calendar days after receiving Notice to Proceed. The objective of the plan is to notify local governments, affected property owners, tenants, and the public of the LOCAL AGENCY'S proposed construction and the anticipated impact of that construction. The CAP shall address timeframes for each review and shall include tentative dates for each public involvement requirement for the project. The CAP will also document all public involvement activities conducted throughout the project's duration. In addition to the benefits of advance notification, the process should allow the LOCAL AGENCY to resolve controversial issues during the design phase. This item shall be reviewed and updated periodically as directed by the LOCAL AGENCY throughout the life of the project.

3.1.2 Notifications

In addition to public involvement data collection, the CONSULTANT shall assist the LOCAL AGENCY or prepare notifications, flyers, and/or letters to elected officials and other public officials, private property owners, and tenants at intervals during plans production as identified by the LOCAL AGENCY. All letters and notices shall be reviewed by the [LOCAL AGENCY/CONSULTANT] ***to ensure that they are addressed to the correct and current public officials.***

3.1.3 Preparing Mailing Lists

At the beginning of the project, The CONSULTANT shall identify all impacted property owners and tenants (within a minimum of 300 feet of the project corridor) The CONSULTANT shall prepare a mailing list of all such entities and shall update the mailing list as needed during the life of the project.

3.1.4 Median Modification Letters – N/A

3.1.5 Driveway Modification Letters – N/A

3.1.6 Newsletters – N/A

3.1.7 Renderings and Fly-Throughs – N/A

3.1.8 PowerPoint Presentations – N/A

3.1.9 Public Meeting Preparations – N/A

3.1.10 Public Meeting Attendance and Follow-up – N/A

3.1.11 Other Agency Meetings

In addition to scheduled public meetings the CONSULTANT may be required to participate in meetings with local governing authorities and/or Metropolitan Planning Organization (MPO). The CONSULTANT's participation may include, but not be limited to, presentations during the meeting, note taking, and summarizing the meeting in a memo to the file. It is estimated for this project there will be One (1) ***meetings with local governing authorities and/or MPOs during the design.***

3.1.12 Web Site – N/A

3.2 Joint Project Agreements – N/A

3.3 Specifications Package Preparation

The CONSULTANT shall prepare and provide a specifications package in accordance with the DEPARTMENT'S Procedure Topic No. 630-010-005 Specifications Package Preparation and the Specifications Handbook. The CONSULTANT shall provide the LOCAL AGENCY names of at least two team members who have successfully completed the Specifications Package Preparation Training and will be responsible for preparing the Specifications Package for the project. The Specifications Package shall be prepared using the FDOT's Specs on the Web application. The CONSULTANT shall be able to document that the procedure defined in the Handbook for the Preparation of Specifications Packages is followed, which includes the quality assurance/quality control procedures. The specifications package shall address all items and areas of work and include any Mandatory Specifications, Modified Special Provisions, and Technical Special Provisions.

The specifications package must be submitted for review to the District Specifications Office at least 30 days prior to the contract package to Tallahassee or District due date, or sooner if required by the District Specifications Office. This submittal does not require signing and sealing and shall be coordinated through the District's Project Manager. The CONSULTANT shall coordinate with the LOCAL AGENCY on the submittal requirements, but at a minimum shall consist of (1) the complete specifications package, (2) a copy of the marked-up workbook used to prepare the package, and (3) a copy of the final project plans.

Final submittal of the specifications package must occur at least 10 working days prior to the contract package to Tallahassee due date. This submittal shall be digitally signed, dated, and sealed in accordance with applicable Florida Statutes.

3.4 Contract Maintenance and Project Documentation

Contract maintenance includes project management effort for complete setup and maintenance of files, electronic folders and documents, developing technical monthly progress reports and schedule updates. Project documentation includes the compilation and delivery of final documents, reports or calculations that support the development of the contract plans; includes uploading files to Electronic Document Management System (EDMS) or Project Suite Enterprise Edition (PSEE).

3.5 Value Engineering (Multi-Discipline Team) Review – N/A

3.6 Prime Consultant Project Manager Meetings

Includes only the Prime Consultant Project Manager's time for travel and attendance at Activity Technical Meetings and other meetings listed in the meeting summary for Task 3.6 on tab 3 Project General Task of the staff hour forms. Staff hours for other personnel attending Activity Technical Meetings are included in the meeting task for that specific Activity.

3.7 Plans Update – N/A

3.8 Post Design Services – To Be Negotiated as an Optional Service

3.9 Digital Delivery

The CONSULTANT shall deliver final contract plans and documents in digital format. The final contract plans and documents shall be digitally signed and sealed files delivered to the LOCAL AGENCY on acceptable electronic media, as determined by the LOCAL AGENCY.

3.10 Risk Assessment Workshop – N/A

3.11 Railroad, Transit and/or Airport Coordination

Notify CSX of proposed milling and resurfacing near their facility. Since this a new (< 5 years) crossing, no modifications to the existing crossing are anticipated.

3.11.1 Aeronautical Evaluation – N/A

3.12 Landscape and Existing Vegetation Coordination -N/A

3.13 Other Project General Tasks

Contract Maintenance and Local Agency Program Information Tool (LAPIT): Contract maintenance includes project management effort for complete setup and

maintenance of files, developing monthly progress reports, schedule updates, work effort to develop and execute subconsultant agreements, etc. All project files will be stored in the LAPIT system.

4 ROADWAY ANALYSIS

The CONSULTANT shall analyze and document Roadway Tasks in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums.

4.1 Typical Section Package

The CONSULTANT shall provide an approved Typical Section Package prior to the first plans submittal.

4.2 Pavement Type Selection Report – N/A

4.3 Pavement Design Package

The CONSULTANT shall provide an approved Pavement Design Package prior to the Phase II plans submittal date.

4.4 Cross-Slope Correction

The CONSULTANT shall coordinate with the LOCAL AGENCY to obtain existing cross slope data, determine roadway limits where cross slope is potentially out of tolerance and determine a resolution.

4.5 Horizontal/Vertical Master Design Files

The CONSULTANT shall design the geometrics using the Standard Plans that are most appropriate with proper consideration given to the design traffic volumes, design speed, capacity and levels of service, functional classification, adjacent land use, design consistency and driver expectancy, aesthetics, existing vegetation to be preserved, pedestrian and bicycle concerns, ADA requirements, Safe Mobility For Life Program, access management, PD&E documents and scope of work. The CONSULTANT shall also develop utility conflict information to be provided to project Utility Coordinator in the format requested by the LOCAL AGENCY.

Note: When the project includes a 3D Model deliverable, also include Activity 36 3D Modeling.

4.6 Access Management – N/A

4.7 Roundabout Evaluation – N/A

4.8 Roundabout Final Design Analysis – N/A

4.9 Cross Section Design Files

The CONSULTANT shall establish and develop cross section design files in accordance with the FDOT CADD manual.

Note: If the Cross Sections are prepared using a 3D model, use Task 36.5 instead of Task 4.9 for the Cross Section Design Files.

4.10 Temporary Traffic Control Plan (TTCP) Analysis

The CONSULTANT shall design a safe and effective TTCP to move vehicular and pedestrian traffic during all phases of construction. The design shall include construction phasing of roadways ingress and egress to existing property owners and businesses, routing, signing and pavement markings, and detour quantity tabulations, roadway pavement, drainage structures, ditches, front slopes, back slopes, drop offs within clear zone, transit stops, and traffic monitoring sites. Special consideration shall be given to the construction of the drainage system when developing the construction phases. Positive drainage must be maintained at all times. The design shall include construction phasing of roadways to accommodate the construction or relocation of utilities when the contract includes Joint Project Agreements (JPAs).

The CONSULTANT shall investigate the need for temporary traffic signals, temporary highway lighting, detours, diversions, lane shifts, and the use of materials such as sheet piling in the analysis. The Traffic Control Plan shall be prepared by a certified designer who has completed training as required by the FDOT. Before proceeding with the TTCP, the CONSULTANT shall meet with the appropriate LOCAL AGENCY personnel. The purpose of this meeting is to provide information to the CONSULTANT that will better coordinate the Preliminary and Final TTCP efforts.

The CONSULTANT shall consider the local impact of any lane closures or alternate routes. When the need to close a road is identified during this analysis, the CONSULTANT shall notify the LOCAL AGENCY's Project Manager as soon as possible. Proposed road closings must be reviewed and approved by the LOCAL AGENCY. Diligence shall be used to minimize negative impacts by appropriate specifications, recommendations or plans development. Local impacts to consider will be local events, holidays, peak seasons, detour route deterioration and other eventualities. CONSULTANT shall be responsible to obtain local authorities permission for use of detour routes not on state highways.

4.11 Master TTCP Design Files - N/A

4.12 Selective Clearing and Grubbing - N/A

4.13 Tree Disposition Plans - N/A

4.14 Design Variations and Exceptions

If available, the LOCAL AGENCY shall furnish the Variation/Exception Report. The CONSULTANT shall prepare the documentation necessary to gain LOCAL

AGENCY approval of all appropriate Design Variations and/or Design Exceptions before the first submittal.

4.15 Design Report

The CONSULTANT shall prepare all applicable report(s) as listed in the Project Description section of this scope. Reports are to be delivered as a signed and sealed pdf file.

4.16 Quantities

The CONSULTANT shall develop accurate quantities and the supporting documentation, including construction days when required.

4.17 Cost Estimate

4.18 Technical Special Provisions and Modified Special Provisions – N/A

4.19 Other Roadway Analyses – N/A

4.20 Field Reviews

4.21 Monitor Existing Structures – N/A

4.22 Technical Meetings

4.23 Quality Assurance/Quality Control

4.24 Independent Peer Review – N/A

4.25 Supervision

4.26 Coordination

5 ROADWAY PLANS

The CONSULTANT shall prepare Roadway, TTCP, Utility Adjustment Sheets, plan sheets, notes, and details. The plans shall include the following sheets necessary to convey the intent and scope of the project for the purposes of construction.

5.1 Key Sheet

5.2 Summary of Pay Items Including Quantity Input

5.3 Typical Section Sheets

5.3.1 Typical Sections

5.3.2 Typical Section Details

5.4 General Notes/Pay Item Notes

5.5 Summary of Quantities Sheets

5.6 Project Layout

5.7 Plan/Profile Sheet – N/A

5.8 Profile Sheet– N/A

5.9 Plan Sheet

5.10 Special Profile – N/A

5.11 Back-of-Sidewalk Profile Sheet – N/A

5.12 Interchange Layout Sheet – N/A

5.13 Ramp Terminal Details (Plan View) – N/A

5.14 Intersection Layout Details

5.15 Special Details

5.16 Cross-Section Pattern Sheets – N/A

5.17 Roadway Soil Survey Sheets

5.18 Cross Sections

5.19 Temporary Traffic Control Plan Sheets

5.20 Temporary Traffic Control Cross Section Sheets – N/A

5.21 Temporary Traffic Control Detail Sheets

5.22 Utility Adjustment Sheets

5.23 Selective Clearing and Grubbing Sheets – N/A

5.24 Tree Disposition Plan Sheets– N/A

5.25 Project Control Sheets

5.26 Environmental Detail Sheets – N/A

5.27 Utility Verification Sheets (SUE Data)

5.28 Quality Assurance/Quality Control

5.29 Supervision

6a DRAINAGE ANALYSIS

The CONSULTANT shall analyze and document Drainage Tasks in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums.

The CONSULTANT shall be responsible for designing a drainage and stormwater management system. All design work shall comply with the requirements of the appropriate regulatory agencies and the FDOT's Drainage Manual.

The CONSULTANT shall coordinate fully with the appropriate permitting agencies and the LOCAL AGENCY's staff. All activities and submittals should be coordinated through the LOCAL AGENCY's Project Manager. The work will include the engineering analyses for any or all of the following:

6a.1 Drainage Map Hydrology

Create a (pre- and/or post-condition) working drainage basin map to be used in defining the system hydrology. This map shall incorporate drainage basin boundaries, existing survey and/or LiDAR and field observations, as necessary, to define the system. Basin delineations shall also include any existing collection systems in a logical manner to aid in the development of the hydraulic model. Include coordination hours needed to convey drainage hydrologic features onto produced drainage maps.

6a.2 Base Clearance Calculations – N/A

6a.3 Pond Siting Analysis and Report – N/A

6a.4 Design of Cross Drains – N/A

6a.5 Design of Ditches

Design roadway conveyance and outfall ditches. This task includes capacity calculations, longitudinal grade adjustments, flow changes, additional adjustments for ditch convergences, selection of suitable channel lining, design of side drain pipes, and documentation. (Design of linear stormwater management facilities in separate task.)

6a.6 Design of Stormwater Management Facility (Offsite or Infield Pond) – N/A

6a.7 Design of Stormwater Management Facility (Roadside Treatment Swales and Linear Ponds) – N/A

6a.8 Design of Floodplain Compensation – N/A

6a.9 Design of Storm Drains

Delineate contributing drainage areas, determine runoff, inlet locations, and spread. Calculate hydraulic losses (friction, utility conflict and, if necessary, minor losses). Determine design tailwater and, if necessary, outlet scour protection.

6a.10 Optional Culvert Material – N/A

6a.11 French Drain Systems – N/A

6a.11a Existing French Drain Systems – N/A

6a.12 Drainage Wells – N/A

6a.13 Drainage Design Documentation Report

6a.14 Bridge Hydraulic Report – N/A

6a.15 Temporary Drainage Analysis – N/A

6a.16 Cost Estimate – N/A

6a.17 Technical Special Provisions / Modified Special Provisions – N/A

6a.18 Hydroplaning Analysis – N/A

6a.19 Existing Permit Analysis – N/A

6a.20 Other Drainage Analysis – N/A

6a.21 Noise Barrier Evaluation – N/A

6a.22 Field Reviews

6a.23 Technical Meetings

Meetings with LOCAL AGENCY staff, regulatory agencies, local governments such as meetings with District Drainage Engineer, the Water Management District, FDEP, etc.

6a.24 Environmental Look-Around Meetings – N/A

6a.25 Quality Assurance/Quality Control

6a.26 Independent Peer Review – N/A

6a.27 Supervision

6a.28 Coordination

6b DRAINAGE PLANS

The CONSULTANT shall prepare Drainage plan sheets, notes, and details. The plans shall include the following sheets necessary to convey the intent and scope of the project for the purposes of construction.

6b.1 Drainage Map (Including Interchanges)

6b.2 Bridge Hydraulics Recommendation Sheets – N/A

6b.3 Summary of Drainage Structures

6b.4 Optional Pipe/Culvert Material – N/A

6b.5 Drainage Structure Sheet(s) (Per Structure)

6b.6 Miscellaneous Drainage Detail Sheets

6b.7 Lateral Ditch Plan/Profile – N/A

6b.8 Lateral Ditch Cross Sections

6b.9 Retention/Detention Pond Detail Sheet(s) – N/A

6b.10 Retention Pond Cross Sections – N/A

6b.11 Erosion Control Plan Sheet(s)

6b.12 SWPPP Sheet(s)

6b.13 Quality Assurance/Quality Control

6b.14 Supervision

7 UTILITIES

The CONSULTANT shall identify utility facilities and secure agreements, utility work schedules, and plans from the Utility Agency Owners (UAO) ensuring all conflicts that exist between utility facilities and the LOCAL AGENCY's construction project are addressed. The CONSULTANT shall certify all utility negotiations have been completed and that arrangements have been made for utility work to be undertaken.

7.1 Utility Kickoff Meeting – N/A

7.2 Identify Existing Utility Agency Owner(s)

The Consultant shall identify all utilities within and adjacent to the project limits that may be impacted by the project.

7.3 Make Utility Contacts

First Contact: The CONSULTANT shall send letters and two sets of plans to each utility, one set for the utility office, and one set to the LOCAL AGENCY Offices as required by the District. Includes contact by phone for meeting coordination. Request type, size, location, easements, and cost for relocation if reimbursement is claimed. Request the voltage level for power lines in the project area. Send UAO requests for reimbursement to FDOT for a legal opinion. Include the meeting schedule (if applicable) and the design schedule. Include typical meeting agenda. If scheduling a meeting, give 4 weeks advance notice.

Second Contact: At a minimum of 4 weeks prior to the meeting, the CONSULTANT shall transmit two complete sets of Phase II plans and the utility conflict information (when applicable and in the format requested by the LOCAL AGENCY) to each UAO having facilities located within the project limits, and one set to the LOCAL AGENCY Offices as required by the District.

Third Contact: Identify agreements and assemble packages. The CONSULTANT shall send agreements, letters, the utility conflict information (when applicable and in the format requested by the LOCAL AGENCY) and two sets of plans to the UAO(s) including all component sets, one set for the utility office, one set to construction and maintenance if required. Include the design schedule.

Not all projects will have all contacts as described above.

7.4 Exception Processing – N/A

7.5 Preliminary Utility Meeting – N/A

7.6 Individual/Field Meetings

The CONSULTANT shall meet with each UAO as necessary, separately or together, throughout the project design duration to provide guidance in the

interpretation of plans, review changes to the plans and schedules, standard or selective clearing and grubbing work, and assist in the development of the UAO(s) plans and work schedules. The CONSULTANT is responsible for motivating the UAO to complete and return the necessary documents after each Utility Contact or Meeting.

7.7 Collect and Review Plans and Data from UAO(s)

The CONSULTANT shall review utility marked plans and data individually as they are received for content. Ensure information from the UAO (utility type, material and size) is sent to the designer for inclusion in the plans. Forward all requests for utility reimbursement and supporting documentation to the DUO.

7.8 Subordination of Easements Coordination – N/A

7.9 Utility Design Meeting

The CONSULTANT shall schedule (time and place), notify participants, and conduct a Utility meeting with all affected UAO(s). The CONSULTANT shall be prepared to discuss impacts to existing trees/vegetation and proposed landscape, drainage, traffic signalization, temporary traffic control plans (TTCP) (construction phasing), review the current design schedule and letting date, evaluate the utility information collected, provide follow-up information on compensable property rights from FDOT Legal Office, discuss with each UAO the utility work by highway contractor option, discuss any future design issues that may impact utilities, etc., to the extent that they may have an effect on existing or proposed utility facilities with particular emphasis on drainage and TTCP with each UAO. The intent of this meeting shall be to assist the UAOs in identifying and resolving conflicts between utilities and proposed construction before completion of the plans, including utility adjustment details. Also, to work with the UAOs to recommend potential resolution between known utility conflicts with proposed construction plans as may be deemed practical by the UAO. The CONSULTANT shall keep accurate minutes of all meetings and distribute a copy to all attendees within 3 days. See Task 4.5 (Horizontal/Vertical Master Design File) and Task 4.9 (Cross Section Design Files) for utility conflict location identification and adjustments.

7.10 Review Utility Markups & Work Schedules and Processing of Schedules & Agreements

The CONSULTANT shall review utility marked up plans and work schedules as they are received for content and coordinate review with the designer. Send color markups and schedules to the appropriate LOCAL AGENCY office(s) such as survey, geotechnical, drainage, structures, lighting, roadway, signals, utilities, landscape architecture, municipalities, maintaining agency, and District Traffic Operations for review and comment if required by the District. Coordinate with the District for execution. Distribute Executed Final Documents. Prepare Work Order for UAO(s). The CONSULTANT shall coordinate with the DUO the programming of necessary Work Program funds.

7.11 Utility Coordination/Follow-up

The CONSULTANT shall provide utility coordination and follow up. This includes follow-up, interpreting plans, and assisting the UAOs with completion of their work schedules and agreements. Includes phone calls, face-to-face meetings, etc., to motivate and ensure the UAO(s) complete and return the required documents in accordance with the project schedule. Ensure the resolution of all known conflicts. The CONSULTANT shall keep accurate minutes of all meetings and distribute a copy to all attendees. This task can be applied to all phases of the project.

7.12 Utility Constructability Review – N/A

7.13 Additional Utility Services – N/A

7.14 Processing Utility Work by Highway Contractor (UWHC) – N/A

7.15 Contract Plans to UAO(s)

If requested by the District, the CONSULTANT shall transmit the contract plans as processed for letting to the UAO(s). Transmittals to UAO(s) may be by certified mail, return receipt requested.

7.16 Certification/Close-Out

This includes hours for transmitting utility files to the DUO and preparation of the Utility Certification Letter. The CONSULTANT shall certify to the appropriate LOCAL AGENCY representative the following:

All utility negotiations (Full execution of each agreement, approved Utility Work Schedules, Technical Special Provisions or Modified Special Provisions written, etc.) have been completed with arrangements made for utility work to be undertaken and completed as required for proper coordination with the physical construction schedule.

OR

An on-site inspection was made and no utility work will be involved.

OR

Plans were sent to the Utility Companies/Agencies and no utility work is required.

7.17 Other Utilities

The CONSULTANT shall provide other utility services. This includes all efforts for a utility task not covered by an existing defined task. Required work will be defined in the scope and negotiated on a case-by-case basis.

8 ENVIRONMENTAL PERMITS and ENVIRONMENTAL CLEARANCES

The CONSULTANT shall notify the LOCAL AGENCY Project Manager, Environmental Permit Coordinator, and other appropriate LOCAL AGENCY personnel in advance of all scheduled meetings with the regulatory agencies to allow a LOCAL AGENCY representative to attend. The CONSULTANT shall copy in the Project Manager and the Environmental Permit Coordinator on all permit related correspondence and meetings. The Consultant shall use current regulatory guidelines and policies for all permits required as identified in Section 2.4.

8.1 Preliminary Project Research

The CONSULTANT shall perform preliminary project research and shall be responsible for regulatory agency coordination to assure that design efforts are properly directed toward permit requirements. The research shall include but should not be limited to a review of the project's PD&E documents including the Environmental Document, Natural Resources Evaluation Report, and Cultural Resources Assessment Survey Report.

The CONSULTANT shall research any existing easements or other restrictions that may exist both within or adjacent to the proposed project boundary. Project research may include but should not be limited to review of available: federal, state, and local permit files and databases; and local government information including county and property appraiser data. The CONSULTANT shall determine if any Sovereign Submerged Lands easements need to be modified or acquired. Any applicable information will be shown on the plans as appropriate.

8.2 Field Work

8.2.1 Pond Site Alternatives: – N/A

8.2.2 Establish Wetland Jurisdictional Lines and Assessments:

The CONSULTANT shall be responsible for, but not limited to, the following activities:

- Determine landward extent of wetlands and other surface waters as detailed in Rule Chapter 62-340, F.A.C., as ratified in Section 373.4211, F.S..; United States Army Corps of Engineers (USACE) Wetland Delineation Manual (Technical Report Y-87-1); Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (ERD/EL TR-10-20).
- Collect all data and information necessary to determine the jurisdictional boundaries of wetlands and other surface waters as defined by the rules or regulations of each permitting agency processing a LOCAL AGENCY permit application for the project.
- Set seasonal high-water levels in adjacent wetlands with biological indicators
- Obtain a jurisdictional determination as defined by the rules or regulations of each permitting agency processing a LOCAL AGENCY permit application for the project.
- Prepare aerial maps showing the jurisdictional boundaries of wetlands and other surface waters. Aerial maps shall be reproducible, of a scale of 1" = 400'or more detailed and be recent photography. The maps shall show the jurisdictional boundaries of each agency. Photo copies of aerials are not acceptable. When necessary, a wetland specific

survey will be prepared by a registered surveyor and mapper. All surveyed jurisdictional boundaries are to be tied to the project's baseline of survey.

- 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 (and other surface water, if necessary) impacted, size of wetland to be impacted, type of impact, and identify any wetland (by ID number and size) within the project limits that will not be impacted by the project.
- Prepare appropriate agency forms to obtain required permits. Forms may include but are not limited to the USACE "Wetland Determination Data Form – Atlantic and Gulf Coastal Plain Region"; the USACE "Approved Jurisdictional Determination Form"; Uniform Mitigation Assessment Method forms and/or project specific data forms.

8.2.3 Species Surveys: – N/A

8.3 Agency Verification of Wetland Data

The CONSULTANT shall be responsible for verification of wetland and other surface water data identified in Section 8.2 and coordinating regulatory agency field reviews, including finalization of assessments and jurisdictional determinations with applicable agencies.

8.4 Complete and Submit All Required Permit Applications

The CONSULTANT shall collect all of the data and information necessary to prepare the permit applications and obtain the environmental permits required to construct the project as identified in the Project Description and as described in 8.4.1, 8.4.2, and 8.12 (Other Permits). The CONSULTANT shall prepare each permit application in accordance with the rules and/or regulations of the regulatory agency responsible for issuing a specific permit and/or authorization to perform work. The permit application packages must be approved by the LOCAL AGENCY prior to submittal to regulatory agencies.

The CONSULTANT will submit all permit applications, as directed by the LOCAL AGENCY, and be responsible for payment of all permit and public noticing fees.

8.4.1 Complete and Submit all Required Wetland Permit Applications:

The CONSULTANT shall prepare, complete, and submit required wetland permit (i.e. ERP, Section 404) application packages to the appropriate regulatory agencies. This includes, but is not limited to, applications submitted to WMDs and/or DEP, and USACE. The application package may include but is not limited to attachments (i.e. project location map, aerials, affidavit of ownership, pictures, additional technical analysis, etc.), a cover letter with project description as well as completion of applicable agency forms. The CONSULTANT shall prepare and respond to agency Requests for Additional Information (RAIs), including necessary revisions to the application package. All responses and completed application packages must be approved by the District Permit Coordinator prior to submittal to the regulatory agencies. Geotechnical permitting should also be prepared, submitted, and obtained.

8.4.2 Complete and Submit all Required Species Permit Applications: – N/A

8.5 Coordinate and Review Dredge and Fill Sketches

The CONSULTANT shall review Dredge and Fill Detail sheets to ensure information on the sketch(es) meet the requirements of the regulatory agencies and are appropriate for environmental permit application submittal and acquisition. The CONSULTANT will also provide environmental data/information as needed to support the preparation of the Dredge and Fill sketches.

8.6 Prepare USCG Permit Application – N/A

8.7 Prepare Water Management District or Local Water Control District Right of Way Occupancy Permit Application – N/A

8.8 Prepare Coastal Construction Control Line (CCCL) Permit Application – N/A

8.9 Prepare USACE Section 408 Application to Alter a Civil Works Project – N/A

8.10 Compensatory Mitigation Plan – N/A

8.11 Mitigation Coordination and Meetings – N/A

8.12 Other Environmental Permits – N/A

ENVIRONMENTAL CLEARANCES, RE-EVALUATIONS, AND TECHNICAL SUPPORT

8.13 Technical Support to the LOCAL AGENCY for Environmental Clearances and Re-evaluations (use when CONSULTANT provides technical support only) – N/A

8.14 Preparation of Environmental Clearances and Re-evaluations (use when CONSULTANT prepares all documents associated with a re-evaluation) – N/A

8.15 Contamination Impact Analysis – N/A

8.16 Asbestos Survey – N/A

8.17 Technical Meetings

8.18 Quality Assurance/Quality Control

8.19 Supervision

8.20 Coordination

9 STRUCTURES - SUMMARY AND MISCELLANEOUS TASKS AND DRAWINGS

The CONSULTANT shall analyze, design, and develop contract documents for all structures in accordance with applicable provisions as defined in Section 2.19, Provisions for Work. Individual tasks identified in Sections 9 through 18 are defined in the Staff Hour Estimation Handbook and within the provision defined in Section 2. 20, Provisions for Work. Contract documents shall display economical solutions for the given conditions.

The CONSULTANT shall provide Design Documentation to the LOCAL AGENCY with each submittal consisting of structural design calculations and other supporting documentation developed during the development of the plans. The design calculations submitted shall adequately address the complete design of all structural elements. These calculations shall be neatly and logically presented on digital media or, at the LOCAL AGENCY's request, on 8 ½"x11" paper and all sheets shall be numbered. The final design calculations shall be signed and sealed by a Florida-licensed professional engineer. A cover sheet indexing the contents of the calculations shall be included and the engineer shall sign and seal that sheet. All computer programs and parameters used in the design calculations shall include sufficient backup information to facilitate the review task.

9.1 Key Sheet and Index of Drawings – N/A

9.2 Project Layout – N/A

9.3 General Notes and Bid Item Notes – N/A

9.4 Miscellaneous Common Details – N/A

9.5 Incorporate Report of Core Borings – N/A

9.6 Standard Plans- Bridges – N/A

9.7 Existing Bridge Plans – N/A

9.8 Assemble Plan Summary Boxes and Quantities – N/A

9.9 Cost Estimate – N/A

9.10 Technical Special Provisions and Modified Special Provisions – N/A

9.11 Field Reviews

9.12 Technical Meetings – N/A

9.13 Quality Assurance/Quality Control

9.14 Independent Peer Review – N/A

9.15 Supervision

9.16 Coordination

10 STRUCTURES - BRIDGE DEVELOPMENT REPORT - N/A

11 STRUCTURES - TEMPORARY BRIDGE – N/A

12 STRUCTURES - SHORT SPAN CONCRETE BRIDGE – N/A

13 STRUCTURES - MEDIUM SPAN CONCRETE BRIDGE – N/A

14 STRUCTURES - STRUCTURAL STEEL BRIDGE – N/A

15 STRUCTURES - SEGMENTAL CONCRETE BRIDGE – N/A

16 STRUCTURES - MOVABLE SPAN – N/A

17 STRUCTURES - RETAINING WALLS – N/A

18 STRUCTURES - MISCELLANEOUS

The CONSULTANT shall prepare plans for Miscellaneous Structure(s) as specified in Section 2.5.

Concrete Box Culverts

18.1 Concrete Box Culverts

18.2 Concrete Box Culverts Extensions – N/A

18.3 Concrete Box Culvert Data Table Plan Sheets – N/A

18.4 Concrete Box Culvert Special Details Plan Sheets – N/A

Strain Poles

18.5 Steel Strain Poles – N/A

18.6 Concrete Strain Poles – N/A

18.7 Strain Pole Data Table Plan Sheets – N/A

18.8 Strain Pole Special Details Plan Sheets – N/A

Mast Arms

18.9 Mast Arms – N/A

18.10 Mast Arms Data Table Plan Sheets – N/A

18.11 Mast Arms Special Details Plan Sheets – N/A

Overhead/Cantilever Sign Structure

18.12 Cantilever Sign Structures – N/A

18.13 Overhead Span Sign Structures – N/A

18.14 Special (Long Span) Overhead Sign Structures – N/A

18.15 Monotube Overhead Sign Structure – N/A

18.16 Bridge Mounted Signs (Attached to Superstructure) – N/A

18.17 Overhead/Cantilever Sign Structures Data Table Plan Sheets – N/A

18.18 Overhead/Cantilever Sign Structures Special Details Plan Sheets – N/A

High Mast Lighting

18.19 Non-Standard High Mast Lighting Structures – N/A

18.20 High Mast Lighting Special Details Plan Sheets – N/A

Noise Barrier Walls (Ground Mount)

18.21 Horizontal Wall Geometry – N/A

18.22 Vertical Wall Geometry – N/A

18.23 Summary of Quantities – Aesthetic Requirements – N/A

18.24 Control Drawings – N/A

18.25 Design of Noise Barrier Walls Covered by Standards – N/A

18.26 Design of Noise Barrier Walls not Covered by Standards – N/A

18.27 Aesthetic Details – N/A

Special Structures

18.28 Fender System – N/A

18.29 Fender System Access – N/A

18.30 Special Structures – N/A

18.31 Other Structures – N/A

18.32 Condition Evaluation of Signal and Sign Structures, and High Mast Light Poles– N/A

18.33 Condition Evaluation of Signal and Sign Structures, and High Mast Light Poles (No As built or Design Plans Available) – N/A

18.34 Analytical Evaluation of Signal and Sign Structures, and High Mast Light Poles – N/A

18.35 Ancillary Structures Report – N/A

19 SIGNING AND PAVEMENT MARKING ANALYSIS

The CONSULTANT shall analyze and document Signing and Pavement Markings Tasks in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums.

19.1 Traffic Data Analysis

The CONSULTANT shall review the approved preliminary engineering report, typical section package, traffic technical memorandum and proposed geometric design alignment to identify proposed sign placements and roadway markings. Perform queue analysis.

19.2 No Passing Zone Study

The CONSULTANT shall perform all effort required for field data collection, and investigation in accordance with the LOCAL AGENCY's Manual on Uniform Traffic Studies.

The CONSULTANT shall submit the signed and sealed report to the LOCAL AGENCY for review and approval.

19.3 Reference and Master Design File

The CONSULTANT shall prepare the Signing & Marking Design file to include all necessary design elements and all associated reference files.

19.4 Multi-Post Sign Support Calculations – N/A

19.5 Sign Panel Design Analysis – N/A

19.6 Sign Lighting/Electrical Calculations – N/A

19.7 Quantities

19.8 Cost Estimate

19.9 Technical Special Provisions and Modified Special Provisions – N/A

19.10 Other Signing and Pavement Marking Analysis – N/A

19.11 Field Reviews

19.12 Technical Meetings

19.13 Quality Assurance/Quality Control

19.14 Independent Peer Review – N/A

19.15 Supervision

19.16 Coordination

20 SIGNING AND PAVEMENT MARKING PLANS

The CONSULTANT shall prepare a set of Signing and Pavement Marking Plans in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums that includes the following.

20.1 Key Sheet – N/A

20.2 Summary of Pay Items Including Quantity Input – N/A

20.3 Tabulation of Quantities

20.4 General Notes/Pay Item Notes – *To be included with Roadway General Notes Sheet*

20.5 Project Layout – N/A

20.6 Plan Sheet – *To be included with Roadway Plan Sheets*

20.7 Typical Details – N/A

20.8 Guide Sign Work Sheet(s) – N/A

20.9 Traffic Monitoring Site – N/A

20.10 Cross Sections – N/A

20.11 Special Service Point Details – N/A

20.12 Special Details – N/A

20.13 Interim Standards – N/A

20.14 Quality Assurance/Quality Control

The CONSULTANT shall be responsible for the professional quality, technical accuracy and coordination of traffic design drawings, specifications and other services furnished by the CONSULTANT under this contract.

The CONSULTANT shall provide a Quality Control Plan that describes the procedures to be utilized to verify, independently check, and review all design drawings, specifications and other services prepared as a part of the contract. The CONSULTANT shall describe how the checking and review processes are to be documented to verify that the required procedures were followed. The Quality Control Plan may be one utilized by the CONSULTANT as part of their normal operation or it may be one specifically designed for this project.

20.15 Supervision

21 SIGNALIZATION ANALYSIS

The CONSULTANT shall analyze and document Signalization Analysis Tasks in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums.

21.1 Traffic Data Collection – N/A

21.2 Traffic Data Analysis

The CONSULTANT shall determine signal operation plan, intersection geometry, local signal timings, pre-emption phasing & timings, forecasting traffic, and intersection analysis run.

21.3 Signal Warrant Study – N/A

21.4 Systems Timings – N/A

21.5 Reference and Master Signalization Design File

The CONSULTANT shall prepare the Signalization Design file to include all necessary design elements and all associated reference files.

21.6 Reference and Master Interconnect Communication Design File – N/A

21.7 Overhead Street Name Sign Design – N/A

21.8 Pole Elevation Analysis – N/A

21.9 Traffic Signal Operation Report – N/A

21.10 Quantities

21.11 Cost Estimate

21.12 Technical Special Provisions and Modified Special Provisions – N/A

21.13 Other Signalization Analysis – N/A

21.14 Field Reviews

The CONSULTANT shall collect information from the maintaining agencies and conduct a field review. The review should include, but is not limited to, the following:

- Existing Signal and Pedestrian Phasing
- Controller Make, Model, Capabilities and Condition/Age
- Condition of Signal Structure(s)
- Type of Detection as Compared with Current District Standards
- Interconnect Media
- Controller Timing Data

21.15 Technical Meetings

21.16 Quality Assurance/Quality Control

The CONSULTANT shall be responsible for the professional quality, technical accuracy and coordination of traffic design drawings, specifications and other services furnished by the CONSULTANT under this contract.

The CONSULTANT shall provide a Quality Control Plan that describes the procedures to be utilized to verify, independently check, and review all design drawings, specifications and other services prepared as a part of the contract. The CONSULTANT shall describe how the checking and review processes are to be documented to verify that the required procedures were followed. The Quality Control Plan may be one utilized by the CONSULTANT as part of their normal operation or it may be one specifically designed for this project.

21.17 Independent Peer Review – N/A

21.18 Supervision

21.19 Coordination

22 SIGNALIZATION PLANS

The CONSULTANT shall prepare a set of Signalization Plans in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design

memorandums, which includes the following:

22.1 Key Sheet

22.2 Summary of Pay Items Including Designer Interface Quantity Input – N/A

22.3 Tabulation of Quantities

22.4 General Notes/Pay Item Notes

22.5 Plan Sheet

22.6 Interconnect Plans – N/A

22.7 Traffic Monitoring Site – N/A

22.8 Guide Sign Worksheet – N/A

22.9 Special Details – N/A

22.10 Special Service Point Details – N/A

22.11 Mast Arm/Monotube Tabulation Sheet – N/A

22.12 Strain Pole Schedule – N/A

22.13 TTCP Signal (Temporary) – N/A

22.14 Temporary Detection Sheet – N/A

22.15 Utility Conflict Sheet – N/A

22.16 Interim Standards – N/A

22.17 Quality Assurance/Quality Control

The CONSULTANT shall be responsible for the professional quality, technical accuracy and coordination of traffic design drawings, specifications and other services furnished by the CONSULTANT under this contract.

The CONSULTANT shall provide a Quality Control Plan that describes the procedures to be utilized to verify, independently check, and review all design drawings, specifications and other services prepared as a part of the contract. The CONSULTANT shall describe how the checking and review processes are to be documented to verify that the required procedures were followed. The Quality Control Plan may be one utilized by the CONSULTANT as part of their normal operation or it may be one specifically designed for this project.

22.18 Supervision

23 LIGHTING ANALYSIS

The CONSULTANT shall analyze and document Lighting Tasks in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums.

23.1 Lighting Justification Report – N/A

23.2 Lighting Design Analysis Report

The CONSULTANT shall prepare a Preliminary Lighting Design Analysis Report. The report shall be submitted under a separate cover with the Phase II plans submittal. The report shall provide analyses for each signalized intersection lighting design and each typical section of the mainline, typical section for the ramps (one and/or two lanes), interchanges, underdeck lighting, and arterial roads. Each lighting calculation shall be properly identified as to the area that it covers.

The report shall include the Lighting Design Criteria that will be used. For projects with corridor lighting, the report shall include the evaluation of at least three lighting design alternatives. The report shall provide a recommendation on the alternative to use. Each alternative shall be properly described; the alternatives shall consider different pole heights, lamp wattage, and arm lengths. Each alternative shall be provided with a cost estimate that includes initial cost in addition to operations and maintenance cost for one year.

The report shall also include the lighting calculations for each lighted sign.

After approval of the preliminary report, the CONSULTANT shall submit a revised report for each submittal. The Lighting Design Analysis Report shall include:

Voltage drop calculations

Load analysis calculations for each branch circuit

23.3 Voltage Drop Calculations

The CONSULTANT shall submit voltage drop calculations showing the equation or equations used along with the number of luminaries per circuit, the length of each circuit, the size conductor or conductors used and their ohm resistance values. The voltage drop incurred on each circuit (total volts and percentage of drop) shall be calculated, and all work necessary to calculate the voltage drop values for each circuit should be presented in such a manner as to be duplicated by the District.

The Voltage Drop Calculations shall be submitted as part of the Lighting Design Analysis Report.

23.4 FDEP Coordination and Report – N/A

23.5 Reference and Master Design Files

The CONSULTANT shall prepare the Lighting Design file to include all necessary design elements and all associated reference files.

23.6 Temporary Lighting – N/A

23.7 Design Documentation

The CONSULTANT shall submit a Design Documentation with each plans submittal under a separate cover and not part of the roadway documentation book. At a minimum, the design documentation shall include:

- Phase submittal checklist.
- Structural calculations for special conventional pole concrete foundations.
- Correspondence with the power company concerning new electrical service.

23.8 Quantities

23.9 Cost Estimate

23.10 Technical Special Provisions and Modified Special Provisions

23.11 Other Lighting Analysis – N/A

23.12 Field Reviews

The CONSULTANT shall collect information from the maintaining agencies and conduct a field review. The review should include but is not limited to the following:

- Existing Lighting Equipment
- Load Center, Capabilities and Condition/Age
- Condition of Lighting Structure(s)
- Verification of horizontal clearances
- Verification of breakaway requirements

23.13 Technical Meetings

23.14 Quality Assurance/Quality Control

23.15 Independent Peer Review – N/A

23.16 Supervision

23.17 Coordination

24 LIGHTING PLANS – N/A

25 LANDSCAPE ANALYSIS – N/A

26 LANDSCAPE PLANS – N/A

27 SURVEY

The CONSULTANT shall perform survey tasks in accordance with all applicable statutes, manuals, guidelines, standards, handbooks, procedures, and current design memoranda.

The CONSULTANT shall submit all survey notes and computations to document the surveys. All field survey work shall be recorded in approved media and submitted to the LOCAL AGENCY. Field books submitted to the LOCAL AGENCY must be of an approved type. The field books shall be certified by the surveyor in responsible charge of work being performed before the final product is submitted.

The survey notes shall include documentation of decisions reached from meetings, telephone conversations or site visits. All like work (such as bench lines, reference points, etc.) shall be recorded contiguously. The LOCAL AGENCY may not accept field survey radial locations of section corners, platted subdivision lot and block corners, alignment control points, alignment control reference points and certified section corner references. The LOCAL AGENCY may instead require that these points be surveyed by true line, traverse or parallel offset.

27.1 Horizontal Project Control (HPC)

Establish or recover HPC, for the purpose of establishing horizontal control on the Florida State Plane Coordinate System or datum approved by the District Surveyor (DS) or District Location Surveyor (DLS); may include primary or secondary control points. Includes analysis and processing of all field collected data, and preparation of forms.

27.2 Vertical Project Control (VPC)

Establish or recover VPC, for the purpose of establishing vertical control on datum approved by the District Surveyor (DS) or the District Location Surveyor (DLS).; may include primary or secondary vertical control points. Includes analysis and processing of all field collected data, and preparation of forms.

27.3 Alignment and/or Existing Right of Way (R/W) Lines

Establish, recover or re-establish project alignment. Also includes analysis and processing of all field collected data, existing maps, and/or reports for identifying mainline, ramp, offset, or secondary alignments. Depict alignment and/or existing

R/W lines (in required format) per LOCAL AGENCY R/W Maps, platted or dedicated rights of way.

27.4 Aerial Targets

Place, locate, and maintain required aerial targets and/or photo identifiable points. Includes analysis and processing of all field collected data, existing maps, and/or reports. Placement of the targets will be at the discretion of the aerial firm.

27.5 Reference Points

Reference Horizontal Project Control (HPC) points, project alignment, vertical control points, section, ¼ section, center of section corners and General Land Office (G.L.O.) corners as required.

27.6 Topography/Digital Terrain Model (DTM) (3D)

Locate all above ground features and improvements for the limits of the project by collecting the required data for the purpose of creating a DTM with sufficient density. Shoot all break lines, high and low points. Effort includes field edits, analysis and processing of all field collected data, existing maps, and/or reports.

27.7 Planimetric (2D) – N/A

27.8 Roadway Cross Sections/Profiles

Perform cross sections or profiles. May include analysis and processing of all field-collected data for comparison with DTM.

27.9 Side Street Surveys – N/A

27.10 Underground Utilities

Designation includes 2-dimensional collection of existing utilities and selected 3-dimensional verification as needed for designation. Location includes non-destructive excavation to determine size, type and location of existing utility, as necessary for final 3-dimensional verification. Survey includes collection of data on points as needed for designates and locates. Includes analysis and processing of all field collected data, and delivery of all appropriate electronic files.

27.11 Outfall Survey – N/A

27.12 Drainage Survey

Locate underground data (XYZ, pipe size, type, condition and flow line) that relates to above ground data. Includes field edits, analysis and processing of all field collected data, existing maps, and/or reports.

27.13 Bridge Survey (Minor/Major) – N/A

27.14 Channel Survey – N/A

27.15 Pond Site Survey – N/A

27.16 Mitigation Survey – N/A

27.17 Jurisdiction Line Survey – N/A

27.18 Geotechnical Support

Perform 3-dimensional (X,Y,Z) field location, or stakeout, of boring sites established by geotechnical engineer. Includes field edits, analysis and processing of all field collected data and/or reports.

27.19 Sectional/Grant Survey – N/A

27.20 Subdivision Location – N/A

27.21 Maintained R/W – N/A

27.22 Boundary Survey – N/A

27.23 Water Boundary Survey – N/A

27.24 Right of Way Staking, Parcel / Right of Way Line – N/A

27.25 Right of Way Monumentation – N/A

27.26 Line Cutting – N/A

27.27 Work Zone Safety

Provide work zone as required by FDOT standards.

27.28 Vegetation Survey – N/A

27.29 Tree Survey – N/A

27.30 Miscellaneous Surveys – N/A

27.31 Supplemental Surveys – N/A

27.32 Document Research – N/A

27.33 Field Review – N/A

27.34 Technical Meetings – N/A

27.35 Quality Assurance/Quality Control (QA/QC)

Establish and implement a QA/QC plan. Also includes subconsultant review, response to comments and any resolution meetings if required, preparation of submittals for review, etc.

27.36 Supervision

Perform all activities required to supervise and coordinate project. These activities must be performed by the project supervisor, a Florida P.S.M. or their delegate as approved by the District Surveying Office.

27.37 Coordination

Coordinate survey activities with other disciplines. These activities must be performed by the project supervisor, a Florida P.S.M. or their delegate as approved by the District Surveying Office.

28 PHOTOGRAMMETRY – N/A

29 MAPPING – N/A

30 TERRESTRIAL MOBILE LiDAR

The CONSULTANT shall perform Terrestrial Mobile LiDAR tasks in accordance with all applicable statutes, manuals, guidelines, standards, handbooks, procedures, and current design memoranda.

In addition to the maps and LiDAR products, the CONSULTANT shall submit all computations and reports to support the mapping. This will include documentation of all decisions reached from meetings, telephone conversations, and site visits.

30.1 Terrestrial Mobile LiDAR Mission Planning

Research and prepare materials necessary for the successful execution of the Mobile LiDAR Mission. This includes but is not limited to route and safety planning, GPS /data acquisition scheduling, weather reports, and site terrain research.

30.2 Project Control Point Coordination

All efforts necessary to coordinate the proper placement of project ground control i.e. base stations, transformation control points, and validation points, supporting the Mobile LiDAR survey.

30.3 Terrestrial Mobile LiDAR Mobilization

Prepare the LiDAR sensor and vehicle for project data collection, and get specialized personnel and equipment on site.

30.4 Terrestrial Mobile LiDAR Mission

Perform site calibrations of LiDAR sensor and collect laser survey data, including any simultaneous base station GPS occupations and operation of any necessary safety equipment.

30.5 Terrestrial Mobile LiDAR Processing

Download and post process collected measurement data from Mobile LiDAR vehicle sensors, and any base stations occupied during mission. Analyze Mobile LiDAR measurement points and scan route overlaps. Separate any large point cloud data sets into manageable file sizes with corresponding indexes.

30.6 Terrestrial Mobile Photography Processing

Process, reference, and name digital photographic imagery files collected during Mobile LiDAR mission.

30.7 Transformation / Adjustment

Adjust LiDAR point cloud data to Project Control points. Create point cloud data file(s) in approved digital format. Prepare required reports of precision and accuracy achieved. If this task is performed by separate firm, or is the final product to be delivered, include effort for Survey Report.

30.8 Classification / Editing

Identify and attribute (classify) point cloud data into requested groups. Classify or remove erroneous points.

30.9 Specific Surface Reporting

Prepare reports, data and/or graphics of specific surface details such as, but not limited to pavement rutting, bridge structure clearance to roadway surface.

30.10 Topographic (3D) Mapping

Produce three dimensional (3D) topographic survey map(s) from collected Mobile LiDAR data. This includes final preparation of Construction Information Management (CIM) deliverable, if applicable.

30.11 Topographic (2D) Planimetric Mapping – N/A

30.12 CADD Edits

Perform final edit of graphics for delivery of required CADD files. This includes final presentation of CIM deliverable, if applicable.

30.13 Data Merging

Merge Mobile LiDAR survey and mapping files, with other field survey files, and data from other sources.

30.14 Miscellaneous

Other tasks not specifically addressed in this document.

30.15 Field Reviews – N/A

30.16 Technical Meetings – N/A

30.17 Quality Assurance/ Quality Control

Establish and implement a QA/QC plan.

30.18 Supervision

Supervise all Terrestrial Mobile LiDAR activities. This task must be performed by the project supervisor, a Florida P.S.M.

30.19 Coordination

Coordinate with all elements of the project to produce a final product.

31 ARCHITECTURE DEVELOPMENT – N/A

32 NOISE BARRIERS IMPACT DESIGN ASSESSMENT IN THE DESIGN PHASE – N/A

33 INTELLIGENT TRANSPORTATION SYSTEMS ANALYSIS – N/A

34 INTELLIGENT TRANSPORTATION SYSTEMS PLANS – N/A

35 GEOTECHNICAL

The CONSULTANT shall, for each project, be responsible for a complete geotechnical investigation. All work performed by the CONSULTANT shall be in accordance with DEPARTMENT standards, or as otherwise directed by the District Geotechnical Engineer. The District Geotechnical Engineer will make interpretations and changes regarding geotechnical standards, policies and procedures and provide guidance to the CONSULTANT.

Before beginning each phase of investigation and after the Notice to Proceed is given, the CONSULTANT shall submit an investigation plan for approval and meet with the DEPARTMENT's Geotechnical Engineer or representative to review the project scope and

DEPARTMENT requirements. The investigation plan shall include, but not be limited to, the proposed boring locations and depths, and all existing geotechnical information from available sources to generally describe the surface and subsurface conditions of the project site. Additional meetings may be required to plan any additional field efforts, review plans, resolve plans/report comments, resolve responses to comments, and/or any other meetings necessary to facilitate the project.

The CONSULTANT shall notify the DEPARTMENT in adequate time to schedule a representative to attend all related meetings and field activities.

35.1 Document Collection and Review

CONSULTANT will review printed literature including topographic maps, county agricultural maps, aerial photography (including historic photos), ground water resources, geology bulletins, potentiometric maps, pile driving records, historic construction records and other geotechnical related resources. Prior to field reconnaissance, CONSULTANT shall review U.S.G.S., S.C.S. and potentiometric maps, and identify areas with problematic soil and groundwater conditions.

Roadway

The CONSULTANT shall be responsible for coordination of all geotechnical related field work activities. The CONSULTANT shall retain all samples until acceptance of Phase IV plans. Rock cores shall be retained as directed in writing by the District Geotechnical Engineer.

Obtain pavement cores as directed in writing by the District Geotechnical Engineer.

If required by the District Geotechnical Engineer, a preliminary roadway exploration shall be performed before the Phase I plans submittal. The preliminary roadway exploration will be performed and results provided to the Engineer of Record to assist in setting roadway grades and locating potential problem areas. The preliminary roadway exploration shall be performed as directed in writing by the District Geotechnical Engineer.

CONSULTANT shall perform specialized field-testing as required by project needs and as directed in writing by the District Geotechnical Engineer.

All laboratory testing and classification will be performed in accordance with applicable DEPARTMENT standards, ASTM Standards or AASHTO Standards, unless otherwise specified in the Contract Documents.

35.2 Develop Detailed Boring Location Plan

Develop a detailed boring location plan. Meet with DEPARTMENT Geotechnical Project Manager for boring plan approval. If the drilling program expects to encounter artesian conditions, the CONSULTANT shall submit a methodology(s)

for plugging the borehole to the DEPARTMENT for approval prior to commencing with the boring program.

35.3 Stake Borings/Utility Clearance

Stake borings and obtain utility clearance.

35.4 Muck Probing – N/A

35.5 Coordinate and Develop TTCP for Field Investigation

Coordinate and develop Temporary Traffic Control Plan (TTCP). All work zone traffic control will be performed in accordance with the DEPARTMENT's Standard Plans Index 102 series.

35.6 Drilling Access Permits – N/A

35.7 Property Clearances – N/A

35.8 Groundwater Monitoring – N/A

35.9 LBR / Resilient Modulus Sampling – N/A

35.10 Coordination of Field Work

Coordinate all field work required to provide geotechnical data for the project.

35.11 Soil and Rock Classification - Roadway

Refine soil profiles recorded in the field, based on results of laboratory testing.

35.12 Design LBR – N/A

35.13 Laboratory Data

Tabulate laboratory test results for inclusion in the geotechnical report, the report of tests sheet (Roadway Soil Survey Sheet), and for any necessary calculations and analyses.

35.14 Seasonal High-Water Table

Review the encountered ground water levels and estimate seasonal high ground water levels. Estimate seasonal low ground water levels, if requested.

35.15 Parameters for Water Retention Areas – N/A

35.16 Delineate Limits of Unsuitable Material – N/A

35.17 Electronic Files for Cross-Sections – N/A

35.18 Embankment Settlement and Stability

Estimate the total magnitude and time rate of embankment settlements. Calculate the factor of safety against slope stability failure.

35.19 Monitor Existing Structures – N/A

35.20 Stormwater Volume Recovery and/or Background Seepage Analysis – N/A

35.21 Geotechnical Recommendations

Provide geotechnical recommendations regarding the proposed roadway construction project including the following: description of the site/alignment, design recommendations and discussion of any special considerations (i.e. removal of unsuitable material, consolidation of weak soils, estimated settlement time/amount, groundwater control, high groundwater conditions relative to pavement base, etc.) Evaluate and recommend types of geosynthetics and properties for various applications, as required.

35.22 Pavement Condition Survey and Pavement Evaluation Report – N/A

35.23 Preliminary Roadway Report

If a preliminary roadway investigation is performed, submit a preliminary roadway report before the Phase I plans submittal. The purpose of the preliminary roadway report will be to assist in setting road grades and locating potential problems.

- Copies of U.S.G.S. and S.C.S. maps with project limits shown.
- A report of tests sheet that summarizes the laboratory test results, the soil stratification (i.e. soils grouped into layers of similar materials) and construction recommendations relative to Standard Plans Indices 120-001 and 120-002.
- The results of all tasks discussed in all previous sections regarding data interpretation and analysis.
- An appendix that contains stratified soil boring profiles, laboratory test data sheets, sample embankment settlement and stability calculations, design LBR calculation/graphs, and other pertinent calculations.
- The CONSULTANT will respond in writing to any changes and/or comments from the DEPARTMENT and submit any responses and revised reports.

35.24 Final Report

The Final Roadway Report shall include the following:

- Copies of U.S.G.S. and S.C.S. maps with project limits shown.
- A report of tests sheet that summarizes the laboratory test results, the soil stratification (i.e. soils grouped into layers of similar materials) and construction recommendations relative to Standard Plans Indices 120-001 and 120-002.
- The results of all tasks discussed in all previous sections regarding data interpretation and analysis.

- An appendix that contains stratified soil boring profiles, laboratory test data sheets, sample embankment settlement and stability calculations, design LBR calculation/graphs, and other pertinent calculations.
- The CONSULTANT will respond in writing to any changes and/or comments from the DEPARTMENT and submit any responses and revised reports.

35.25 Auger Boring Drafting – N/A

35.26 SPT Boring Drafting

Draft SPT borings as directed by the DEPARTMENT.

Structures

The CONSULTANT shall be responsible for coordination of all geotechnical related fieldwork activities. The CONSULTANT shall retain all samples until acceptance of Phase IV plans. Rock cores shall be retained as directed in writing by the District Geotechnical Engineer.

CONSULTANT shall perform specialized field-testing as required by needs of project and as directed in writing by the District Geotechnical Engineer.

All laboratory testing and classification will be performed in accordance with applicable DEPARTMENT standards, ASTM Standards or AASHTO Standards, unless otherwise specified in the Contract Documents.

The staff hour tasks for high embankment fills and structural foundations for bridges, box culverts, walls, high-mast lighting, overhead signs, mast arm signals, strain poles, buildings, and other structures include the following:

35.27 Develop Detailed Boring Location Plan – N/A

35.28 Stake Borings/Utility Clearance – N/A

35.29 Coordinate and Develop TTCP for Field Investigation – N/A

35.30 Drilling Access Permits – N/A

35.31 Property Clearances – N/A

35.32 Collection of Corrosion Samples – N/A

35.33 Coordination of Field Work – N/A

35.34 Soil and Rock Classification – Structures – N/A

35.35 Tabulation of Laboratory Data – N/A

35.36 Estimate Design Groundwater Level for Structures – N/A

35.37 Selection of Foundation Alternatives (BDR) – N/A

35.38 Detailed Analysis of Selected Foundation Alternate(s) – N/A

35.39 Bridge Construction and Testing Recommendations – N/A

Provide construction and testing recommendations including potential constructability problems.

35.40 Lateral Load Analysis (Optional) – N/A

35.41 Walls – N/A

35.42 Sheet Pile Wall Analysis (Optional) – N/A

35.43 Design Soil Parameters for Signs, Signals, High Mast Lights, and Strain Poles and Geotechnical Recommendations – N/A

35.44 Box Culvert Analysis – N/A

35.45 Preliminary Report – BDR – N/A

35.46 Final Report - Bridge and Associated Walls – N/A

35.47 Final Reports - Signs, Signals, Box Culvert, Walls, and High Mast Lights – N/A

35.48 SPT Boring Drafting – N/A

35.49 Other Geotechnical – N/A

35.50 Technical Special Provisions and Modified Special Provisions – N/A

35.51 Field Reviews

Identify and note surface soil and rock conditions, surface water conditions and locations, and preliminary utility conflicts. Observe and note nearby structures and foundation types.

35.52 Technical Meetings

35.53 Quality Assurance/Quality Control

35.54 Supervision

35.55 Coordination

36 3D MODELING – N/A

37 PROJECT REQUIREMENTS

37.1 Liaison

The LOCAL AGENCY and the CONSULTANT will designate a Liaison and a Project Manager who shall be the representative of their respective organizations for the Project. While it is expected the CONSULTANT shall seek and receive advice from various state, regional, and local agencies, the final direction on all matters of this project remain with the LOCAL AGENCY Project Manager.

37.2 Key Personnel

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

37.3 Progress Reporting

The CONSULTANT shall meet with the LOCAL AGENCY as required and shall provide a written monthly progress report with approved schedule, schedule status, and payout curve or by using the earned value method that describe the work performed on each task. The report will include assessing project risk through monthly documentation of identifying and updating the risk category and approach for monitoring those tasks. Invoices shall be submitted after the LOCAL AGENCY approves the monthly progress report and the payout curve or with earned value analysis. The Project Manager will make judgment on whether work of sufficient quality and quantity has been accomplished by comparing the reported percent complete against actual work accomplished.

37.4 Correspondence

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

37.5 Professional Endorsement

The CONSULTANT shall have a Licensed Professional Engineer in the State of Florida sign and seal all reports, documents, Technical Special Provisions and Modified Special Provisions, and plans as required by LOCAL AGENCY standards.

37.6 Computer Automation

The project will be developed utilizing Computer Aided Drafting and Design (CADD) systems. The DFDOT makes available software to help assure quality and conformance with policy and procedures regarding CADD. It is the responsibility of the CONSULTANT to meet the requirements in the FDOT CADD Manual. The CONSULTANT shall submit final documents and files as described therein.

37.7 Coordination with Other Consultants

The CONSULTANT is to coordinate his work with any and all adjacent and integral consultants so as to effect complete and homogenous plans and specifications for the project(s) described herein.

37.8 Optional Services

At the LOCAL AGENCY's option, the CONSULTANT may be requested to provide optional services. The fee for these services shall be negotiated in accordance with the terms detailed in Exhibit B, Method of Compensation, for a fair, competitive and reasonable cost, considering the scope and complexity of the project(s). Additional services may be authorized by Letter of Authorization or supplemental amendment in accordance with paragraph 2.00 of the Standard Consultant Agreement. The additional services may include Construction Assistance, Review of Shop Drawings, Final Bridge Load Rating, update (Category II) bridge plans electronically (CADD) for the Final "As-Built" conditions, based on documents provided by the LOCAL AGENCY (CADD Services Only) or other Services as required.

38 INVOICING LIMITS

Payment for the work accomplished shall be in accordance with Method of Compensation of this contract. Invoices shall be submitted to the LOCAL AGENCY, in a format prescribed by the LOCAL AGENCY. The LOCAL AGENCY Project Manager and the CONSULTANT shall monitor the cumulative invoiced billings to ensure the reasonableness of the billings compared to the project schedule and the work accomplished and accepted by the LOCAL AGENCY.

The CONSULTANT shall provide a list of key events and the associated total percentage of work considered to be complete at each event. This list shall be used to control invoicing. Payments will not be made that exceed the percentage of work for any event until those events have actually occurred and the results are acceptable to the LOCAL AGENCY.

Project Staff Hour Summary

Name of Consultant: **Pond & Company**

CR 108 from CR 115 (Bay Road) to CR 121A (Middle Road)
441214-1-38-01

		Project Staff Hours													
Activity No.	**Activity**	**Pond & Company**	**Element**	**PY**	**T2**		**DRMP**	**CSI**	**Sub 7**	**Sub 8**	**Sub 9**	**Sub 10**	**Sub 11**	**Sub 12**	**Total Hours**
3	Project Common and General Tasks	85	96												181
4	Roadway Analysis	1536	144												1680
5	Roadway Plans	386													386
6a	Drainage Analysis			113											113
6b	Drainage Plans			123											123
7	Utilities				95										95
8	Env. Permits and Env. Clearances	90													0
9	Structures - Summary, Misc. Tasks, Dwgs.	0													0
18	Miscellaneous Structures	0													0
19	Signing & Pavement Marking Analysis		172	424											596
20	Signing & Pavement Marking Plans			138											138
21	Signalization Analysis			113											113
22	Signalization Plans			36											36
23	Lighting Analysis	0		0											0
24	Lighting Plans			0											0
25	Landscape Analysis	0													0
26	Landscape Plans	0													0
27	Survey - Field and Office Support						270								270
28	Photogrammetry	0													0
29	Mapping	0													0
30	Terrestrial Mobile LiDAR						364								364
31	Architecture Development	0													0
32	Noise Barriers Impact Design Assessment	0													0
33	ITS Analysis	0													0
34	ITS Plans	0													0
35	Geotechnical							53							53
36	3D Modeling	0													0
	Project Total	**2,097**	**412**	**947**	**95**	**0**	**634**	**53**	**0**	**0**	**0**	**0**	**0**	**0**	**4,148**
27	Survey Field Crew Days	64													64

Notes: 1. Staff hours for prime consultant come directly from each discipline's worksheet.
2. Staff hours for subconsultants are to be entered manually into columns D through O.
3. For workbooks prepared by subconsultants, their project hours will be totaled in column C.

Project Activity 3: General Tasks

Estimator:

CR 108 from CR 115 (Bay Road) to CR 121A (Middle Road)
441214-1-38-01

Representing	Print Name	Signature / Date
Nassau County	**Robert Companion**	
Pond & Company	**Tabatha Carlton**	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.1	Public Involvement					
3.1.1	Community Awareness Plan	LS	1	0	0	By Nassau County if needed
3.1.2	Notifications	LS	1	0	0	
3.1.3	Preparing Mailing Lists	LS	1	0	0	
3.1.4	Median Modification Letters	LS	1	0	0	N/A
3.1.5	Driveway Modification Letters	LS	1	0	0	N/A
3.1.6	Newsletters	LS	1	0	0	N/A
3.1.7	Renderings and Fly Throughs	LS	1	0	0	N/A
3.1.8	PowerPoint Presentation	LS	1	0	0	
3.1.9	Public Meeting Preparations	LS	1	0	0	N/A
3.1.10	Public Meeting Attendance/Followup	LS	1	0	0	N/A
3.1.11	Other Agency Meetings	LS	1	0	0	N/A
3.1.12	Web Site	LS	1	0	0	N/A
	3.1 Public Involvement Subtotal				**0**	
3.2	Joint Project Agreements	EA	0	0	0	N/A
3.3	Specifications Package Preparation	LS	1	0	0	BY Element
3.4	Contract Maintenance and Project Documentation	LS	1	28	28	16 hours for initial set-up + 2 hours x 6 months
3.5	Value Engineering (Multi-Discipline Team) Review	LS	1	0	0	N/A
3.6	Prime Consultant Project Manager Meetings	LS	1	40	40	See listing below
3.7	Plans Update	LS	1	0	0	N/A

Project Activity 3: General Tasks

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.8	Post Design Services	LS	1	0	0	To be negotiated under Optional Services
3.9	Digital Delivery	LS	1	15	15	6 for first+3 other Pes *3 hrs each
3.10	Risk Assessment Workshop	LS	1	0	0	N/A
3.11	Railroad, Transit, and/or Airport Coordination	LS	1	2	2	CSX; new crossing, should just be notification (try to stay out of their R/W
3.11.1	Aeronautical Evaluation	LS	1	0	0	N/A
3.12	Landscape and Existing Vegetation Coordination	LS	1	0	0	N/A
3.13	Other Project General Tasks	LS	1	0	0	N/A
3. Project Common and Project General Tasks Total					**85**	

3.6 - List of Project Manager Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments
Roadway Analysis	EA	1	1	1	
Drainage	EA	1	6	6	
Utilities	EA	0	0	0	
Environmental	EA	2	2	4	
Structures	EA	0	0	0	
Signing & Pavement Marking	EA	0	0	0	
Signalization	EA	0	0	0	
Lighting	EA	0	0	0	
Landscape Architecture	EA	0	0	0	
Survey	EA	0	0	0	
Photogrammetry	EA	0	0	0	
ROW & Mapping	EA	0	0	0	
Terrestrial Mobile LiDAR	EA	0	0	0	
Architecture	EA	0	0	0	
Noise Barriers	EA	0	0	0	
ITS Analysis	EA	0	0	0	
Geotechnical	EA	0	0	0	
Progress Meetings	EA	6	1.5	9	Teleconference (inculding notes prep)
Phase Reviews	EA	1	4	4	After 60 %
Field Reviews	EA	2	8	16	Kickoff and Final walk through
Total Project Manager Meetings		13		40	Total PM Meeting Hours carries to Task 3.6 above

Notes:
1. **If the hours per meeting vary in length (hours) enter the average in the hour/unit colum**
2. **Do not double count agency meetings between permitting agencies**

Project Activity 3: General Tasks

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments

3. Project manager meetings are calculated in each discipline sheet and brought forward to Column D, except for Photogrammetry.

Project Activity 4: Roadway Analysis

Estimator:

CR 108 from CR 115 (Bay Road) to CR 121A (Middle Road)
441214-1-38-01

Representing	Print Name	Signature / Date
Nassau County	**Robert Companion**	
Pond & Company	**Tabatha Carlton**	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.1	Typical Section Package	LS	1	16	16	16 for 1 typical section
4.2	Pavement Type Selection Report	LS	1	0	0	N/A
4.3	Pavement Design Package	LS	1	16	16	12 for intial setup and developing one pvmt design + 4 hours to evaluate Friction Only resurfacing
4.4	Cross-Slope Correction	LS	1	24	24	1 hr *7.8 for analysis of existing + 16 hrs for development of details
4.5	Horizontal /Vertical Master Design Files	LS	1	976	976	160 for 1st mile + 120*6.8 miles (includes SAPM and Utilities on Roadway plans)
4.6	Access Management	LS	1	0	0	N/A
4.7	Roundabout Evaluation	LS	1	0	0	N/A
4.8	Roundabout Final Design Analysis	LS	1 -	0	0	N/A
4.9	Cross Section Design Files	LS	1	52	52	Low Range 40 hrs x 7.8 miles /6 for cross sections 1000' to 200' spacing
4.10	Temporary Traffic Control Plan Analysis	LS	1	40	40	Level 1 (Daytime Only lane closures per LAP)
4.11	Master TTCP Design Files	LS	1	0	0	N/A
4.12a	Selective Clearing and Grubbing of Existing VegetationField Assessment	LS	1	0	0	N/A
4.12b	Selective Clearing and Grubbing Site Inventory of Existing Vegetation and Cross-Discipline Coordination (OPTIONAL SERVICES)	LS	1	0	0	N/A
4.12c	Selective Clearing and Grubbing- Existing Vegetation Maintenance Report	LS	1	0	0	N/A
4.13	Tree Dispostion Plan	LS	1	0	0	N/A
4.14	Design Variations and Exceptions	LS	1	72	72	Assume 3 (lateral offset, cross slope, shoulder width) x 24 each
4.15	Design Report	LS	1	36	36	RRR/Design Criteria Report (24 hrs) + Prepare Final Documentation for 100% submittal (12 hrs)
4.16	Quantities	LS	1	80	80	Low Range
4.17	Cost Estimate	LS	1	16	16	2 Eng. Estimates (8 hrs each)
4.18	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	None at this time

Project Activity 4: Roadway Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.19	Other Roadway Analyses	LS	1	0	0	
Roadway Analysis Technical Subtotal					**1328**	

Project Activity 4: Roadway Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.20	Field Reviews	LS	1	32	32	Intial Field Review + Plans in Hand after 60% = 2 people x 8hrs x 2 reviews
4.21	Monitor Existing Structures	LS	1	0	0	
4.22	Technical Meetings	LS	1	14	14	Meetings are listed below
4.23	Quality Assurance/Quality Control	LS	%	5%	66	
4.24	Independent Peer Review	LS	%	0%	0	
4.25	Supervision	LS	%	5%	66	
	Roadway Analysis Nontechnical Subtotal				**178**	
4.26	Coordination	LS	%	2%	30	
	4. Roadway Analysis Total				**1536**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Typical Section	EA	0	0	0			0
Pavement	EA	1	1	1	Teleconference	yes	1
Access Management	EA	0	0	0			0
15% Line and Grade	EA	0	0	0			0
Driveways	EA	0	0	0			0
Local Governments (cities, counties, MPO)	EA	1	0	0			0
Work Zone Traffic Control	EA	0	0	0			0
30/60/90/100% Comment Review Meetings	EA	0	0	0			0
Other Meetings	EA	0	0	0			0
Subtotal Technical Meetings				**1**	**Subtotal Project Manager Meetings**		1
Progress Meetings (if required by FDOT)	EA	6	1.5	9	***PM attendance at Progress Meetings is manually entered on General Task 3***		--
Phase Review Meetings	EA	1	4	4	**PM attendance at Phase Review Meetings is manually entered on General Task 3**		--
Total Meetings				**14**	**Total Project Manager Meetings (carries to Tab 3)**		**1**

Carries to 4.17

Carries to Tab 3

Project Activity 5: Roadway Plans

Estimator:

CR 108 from CR 115 (Bay Road) to CR 121A (Middle Road)

441214-1-38-01

Representing		Print Name	Signature / Date
Nassau County		Robert Companion	
Pond & Company		Tabatha Carlton	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.1	Key Sheet		Sheet	1	8	8	
5.2	Summary of Pay Items Including Quantity Input		Sheet	1	12	12	
5.3	Typical Section Sheets						
5.3.1	Typical Sections		EA	2	6	12	1 Rural with ditches (Context Class C2) & 1 rural with sidewalk (Context Class C2T)
5.3.2	Typical Section Details		EA	2	4	8	Overbuild for Cross Slope.Supereevation Correction & Shoulder Regrading
5.4	General Notes/Pay Item Notes		Sheet	1	8	8	
5.5	Summary of Quantities Sheets		Sheet	10	5	50	
5.6	Project Layout		Sheet	30	4	120	Dual Pane 100 Scale = 7.8 miles * (14*100); 2 panes per sheet (Hours based on each pane); includes typical plan sheets elements and labels such as utilities, wetlands, drainage, M&R limits, etc.
5.7	Plan/Profile Sheet		Sheet	0	0	0	N/A
5.8	Profile Sheet		Sheet	0	0	0	N/A
5.9	Plan Sheet		Sheet	16	2.5	40	Dual Pane 40 Scale (in isolated areas), 2 panes per sheet (Hours based on each pane) Includes 2 sheets from Bay to CR 115; 2 sheets from 1st to County Rd; 2 sheets at US 1 approaches; 1 sheet at bridge box culvert; 9 sheets for SE correction
5.10	Special Profile		Sheet	0	0	0	N/A
5.11	Back-of-Sidewalk Profile Sheet		Sheet	0	0	0	N/A
5.12	Interchange Layout Sheet		Sheet	0	0	0	N/A
5.13	Ramp Terminal Details (Plan View)		Sheet	0	0	0	N/A
5.14	Intersection Layout Details		Sheet	3	6	18	CR 115/Bay Road, US 1, & Pine Ridge
5.15	Special Details		EA	1	8	8	Address setlement at bridge box culvert

Project Activity 5: Roadway Plans

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.16	Cross-Section Pattern Sheet(s)		Sheet	0	0	0	N/A
5.17	Roadway Soil Survey Sheet(s)		Sheet	1	1	1	Provided by Genesis
5.18	Cross Sections		EA	0.25	66	17	36 tangent cross sections(1000' interval) * 6 rural curves (200' interval)/ 30 sections)
5.19	Temporary Traffic Control Plan Sheets		Sheet	2	4	8	Notes and Advance signing (1 sheet)
5.20	Temporary Traffic Control Cross Section Sheets		EA	0	0	0	N/A
5.21	Temporary Traffic Control Detail Sheets		Sheet	2	6	12	Potential Pedestrian detour & Detour for SE correction
5.22	Utility Adjustment Sheets		Sheet	19	0.5	10	Add and label on 40 scale roadway plan sheets only
5.23	Selective Clearing and Grubbing Sheet(s)						
5.23.1	Selective Clearing and Grubbing		Sheet	0	0	0	N/A
5.23.2	Selective Clearing and Grubbing Details		Sheet	0	0	0	N/A
5.24	Tree Disposition Sheet(s)						
5.24.1	Tree Disposition Plan Sheet(s)		Sheet	0	0	0	N/A
5.24.2	Tree Disposition Plan Tables and Schedules		Sheet	0	0	0	N/A
5.25	Project Control Sheet(s)		Sheet	10	1	10	Surveyor to provide text/symbols to placed and plan sheet
5.26	Environmental Detail Sheets		Sheet	0	0	0	
5.27	Utility Verification Sheet(s) (SUE Data)		Sheet	4	2	8	SUE limited
					Roadway Plans Technical Subtotal	**350**	
5.28	Quality Assurance/Quality Control		LS	%	5%	18	
5.29	Supervision		LS	%	5%	18	
					5. Roadway Plans Total	**386**	

CR 108 from CR 115 (Bay Road) to CR 121A (Middle Road)
441214-1-38-01

Representing	Print Name	Signature / Date
Nassau County	Robert Companion	
Pond & Company	Michael Savage	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
	Environmental Permits and Environmental Clearances					
8.1	Preliminary Project Research	LS	1	6	6	
	Permits					
8.2	Field Work					
8.2.1	Pond Site Alternatives	per pond site	1	0	0	
8.2.2	Establish Wetland Jurisdictional Lines and Assessments	LS	1	24	24	Wetlands for just 2 curves for CC correction ~ 3500 LF (both sides) and as needed in shoulder regarding areas
8.2.3	Species Surveys	LS	1	0	0	
8.3	Agency Verification of Wetland Data	LS	1	8	8	
8.4	Complete And Submit All Required Permit Applications					
8.4.1	Complete and Submit All Required Wetland Permit Applications	LS	1	40	40	This task assumes a general permit or less will be required by both SJRWMD and USACE.
8.4.2	Complete and Submit All Required Species Permit Applications	LS	1	0	0	
8.5	Coordinate and Review Dredge and Fill Sketches	LS	1	0	0	
8.6	Prepare USCG Permit Application	LS	1	0	0	
8.7	Prepare Water Management District or Local Water Control District Right of Way Occupancy Permit Application	LS	1	0	0	
8.8	Prepare Coastal Construction Control Line (CCCL) Permit Application	LS	1	0	0	
8.9	Prepare USACE Section 408 Application to Alter a Civil Works Project	LS	1	0	0	
8.10	Compensatory Mitigation Plan	LS	1	0	0	Assume mitigation bank credits will be used to offset unavoidable impacts.
8.11	Mitigation Coordination and Meetings	LS	1	0	0	
8.12	Other Environmental Permits	LS	1	0	0	
	Environmental Clearances/Reevaluations					
8.13	Technical support to Department for Environmental Clearances and Reevaluations (use when consultant provides technical support only)					
8.13.1	NEPA or SEIR Reevaluation	LS	1	0	0	
8.13.2	Archaeological and Historical Resources	LS	1	0	0	
8.13.3	Wetland Impact Analysis	LS	1	0	0	
8.13.4	Essential Fish Habitat Impact Analysis	LS	1	0	0	
8.13.5	Protected Species and Habitat Impact Analysis	LS	1	0	0	
8.14	Preparation of Environmental Clearances and Reevaluations (use when consultant prepares all documents associated with reevaluation)					
8.14.1	NEPA or SEIR Reevaluation	LS	1	0	0	
8.14.2	Archaeological and Historical Resources	LS	1	0	0	
8.14.3	Wetland Impact Analysis	LS	1	0	0	
8.14.4	Essential Fish Habitat Impact Analysis	LS	1	0	0	
8.14.5	Protected Species and Habitat Impact Analysis	LS	1	0	0	
8.15	Contamination Impact Analysis	LS	1	0	0	
8.16	Asbestos Survey	LS	1	0	0	
	Environmental Permits and Environmental Clearances/Reevaluations Technical Subtotal				**78**	
8.17	Technical Meetings	LS	1	4	4	Meetings are listed below
8.18	Quality Assurance/Quality Control	LS	%	3%	2	
8.19	Supervision	LS	%	3%	2	
	Environmental Permits and Environmental Clearances Nontechnical Subtotal				**8**	
8.20	Coordination	LS	%	5%	4	
	8. Environmental Permits and Environmental Clearances Total				**90**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
WMD	EA	1	2	2		yes	1
NMFS	EA	0	0	0			0
USACE	EA	1	2	2		yes	1
USCG	EA	0	0	0			0
USFWS	EA	0	0	0			0
FFWCC	EA	0	0	0			0
FDOT	EA	0	0	0			0
Other Meetings	EA	0	0	0			0
Subtotal Technical Meetings				**4**	**Subtotal Project Manager Meetings**		**2**
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				**4**	**Total Project Manager Meetings (carries to Tab 3)**		**2**

[illegible] [illegible]

Project Activity 3: General Tasks

Estimator:

CR 108 from CR 115 (Bay Road) to CR 121A (Middle Road)
441214-1-38-01

Representing	Print Name	Signature / Date
Nassau County	Robert Companion	
Element Engineering Group		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.1	Public Involvement					
3.1.1	Community Awareness Plan	LS	1	0	0	
3.1.2	Notifications	LS	1	0	0	
3.1.3	Preparing Mailing Lists	LS	1	0	0	
3.1.4	Median Modification Letters	LS	1	0	0	
3.1.5	Driveway Modification Letters	LS	1	0	0	
3.1.6	Newsletters	LS	1	0	0	
3.1.7	Renderings and Fly Throughs	LS	1	0	0	
3.1.8	PowerPoint Presentation	LS	1	0	0	
3.1.9	Public Meeting Preparations	LS	1	0	0	
3.1.10	Public Meeting Attendance/Followup	LS	1	0	0	
3.1.11	Other Agency Meetings	LS	1	0	0	
3.1.12	Web Site	LS	1	0	0	
	3.1 Public Involvement Subtotal				**0**	
3.2	Joint Project Agreements	EA	0	0	0	
3.3	Specifications Package Preparation	LS	1	32	32	Bid/ Spec Package (LAP Big 4)
3.4	Contract Maintenance and Project Documentation	LS	1	24	24	LAP Documentation
3.5	Value Engineering (Multi-Discipline Team) Review	LS	1	0	0	
3.6	Prime Consultant Project Manager Meetings	LS	1	0	0	See listing below
3.7	Plans Update	LS	1	0	0	

Project Activity 3: General Tasks

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.8	Post Design Services	LS	1	0	0	
3.9	Digital Delivery	LS	1	0	0	
3.10	Risk Assessment Workshop	LS	1	0	0	
3.11	Railroad, Transit, and/or Airport Coordination	LS	1	0	0	
3.11.1	Aeronautical Evaluation	LS	1	0	0	
3.12	Landscape and Existing Vegetation Coordination	LS	1	0	0	
3.13	Other Project General Tasks	LS	1	40	40	Maintenance of LAPIT Files, LAP Clear Letter and Construction Checklist
3. Project Common and Project General Tasks Total					**96**	

3.6 - List of Project Manager Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments
Roadway Analysis	EA	0	0	0	
Drainage	EA	1	0	0	
Utilities	EA	0	0	0	
Environmental	EA	2	0	0	
Structures	EA	0	0	0	
Signing & Pavement Marking	EA	0	0	0	
Signalization	EA	0	0	0	
Lighting	EA	0	0	0	
Landscape Architecture	EA	0	0	0	
Survey	EA	0	0	0	
Photogrammetry	EA	0	0	0	
ROW & Mapping	EA	0	0	0	
Terrestrial Mobile LiDAR	EA	0	0	0	
Architecture	EA	0	0	0	
Noise Barriers	EA	0	0	0	
ITS Analysis	EA	0	0	0	
Geotechnical	EA	0	0	0	
Progress Meetings	EA	0	0	0	
Phase Reviews	EA	0	0	0	
Field Reviews	EA	0	0	0	
Total Project Manager Meetings		3		0	Total PM Meeting Hours carries to Task 3.6 above

Notes:

1. **If the hours per meeting vary in length (hours) enter the average in the hour/unit colum**
2. **Do not double count agency meetings between permitting agencies**

Project Activity 3: General Tasks

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments

3. Project manager meetings are calculated in each discipline sheet and brought forward to Column D, except for Photogrammetry.

Project Activity 4: Roadway Analysis

Estimator:

CR 108 from CR 115 (Bay Road) to CR 121A (Middle Road)
441214-1-38-01

Representing	Print Name	Signature / Date
Nassau County	Robert Companion	
Element Engineering Group		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.1	Typical Section Package	LS	1	0	0	
4.2	Pavement Type Selection Report	LS	1	0	0	
4.3	Pavement Design Package	LS	1	0	0	
4.4	Cross-Slope Correction	LS	1	0	0	
4.5	Horizontal /Vertical Master Design Files	LS	1	0	0	
4.6	Access Management	LS	1	0	0	
4.7	Roundabout Evaluation	LS	1	0	0	
4.8	Roundabout Final Design Analysis	LS	1	0	0	
4.9	Cross Section Design Files	LS	1	0	0	
4.10	Temporary Traffic Control Plan Analysis	LS	1	0	0	
4.11	Master TTCP Design Files	LS	1	0	0	
4.12a	Selective Clearing and Grubbing of Existing VegetationField Assessment	LS	1	0	0	
4.12b	Selective Clearing and Grubbing Site Inventory of Existing Vegetation and Cross-Discipline Coordination (OPTIONAL SERVICES)	LS	1	0	0	
4.12c	Selective Clearing and Grubbing- Existing Vegetation Maintenance Report	LS	1	0	0	
4.13	Tree Dispostion Plan	LS	1	0	0	
4.14	Design Variations and Exceptions	LS	1	0	0	
4.15	Design Report	LS	1	144	144	Road Safety Audit - Effort includes coordination and project management (16 hours), pre-meeting with stakeholders (2x4), RSA field review (2x6), download and analysis of crash reports and development of collsion diagrams for hot-spot locations through 8 mile corridor (60), an RSA report (40), and a de-brief meeting with key stakeholders (2x4). All meetings and field reviews include two team members from ELEMENT

Project Activity 4: Roadway Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.16	Quantities	LS	1	0	0	
4.17	Cost Estimate	LS	1	0	0	
4.18	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
4.19	Other Roadway Analyses	LS	1	0	0	
Roadway Analysis Technical Subtotal					**144**	

Project Activity 4: Roadway Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.20	Field Reviews	LS	1	0	0	
4.21	Monitor Existing Structures	LS	1	0	0	
4.22	Technical Meetings	LS	1	0	0	Meetings are listed below
4.23	Quality Assurance/Quality Control	LS	%	5%	7	
4.24	Independent Peer Review	LS	%	0%	0	
4.25	Supervision	LS	%	5%	7	
				Roadway Analysis Nontechnical Subtotal	**14**	
4.26	Coordination	LS	%	2%	3	
				4. Roadway Analysis Total	**161**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Typical Section	EA	0	0	0			0
Pavement	EA	0	0	0			0
Access Management	EA	0	0	0			0
15% Line and Grade	EA	0	0	0			0
Driveways	EA	0	0	0			0
Local Governments (cities, counties, MPO)	EA	0	0	0			0
Work Zone Traffic Control	EA	0	0	0			0
30/60/90/100% Comment Review Meetings	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 4.17

Carries to Tab 3

Project Activity 19: Signing and Pavement Marking Analysis

Estimator:

CR 108 from CR 115 (Bay Road) to CR 121A (Middle Road)
441214-1-38-01

Representing	Print Name	Signature / Date
Nassau County	Robert Companion	
Element Engineering Group		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
19.1	Traffic Data Analysis	LS	1	0	0	
19.2	No Passing Zone Study	LS	1	156	156	2 people x 5 hours per mile x 6.8 miles for field review plus (24 + 8 x 8 for analysis and report)
19.3	Reference and Master Design File	LS	1	0	0	
19.4	Multi-Post Sign Support Calculations	EA	1	0	0	
19.5	Sign Panel Design Analysis	EA	1	0	0	
19.6	Sign Lighting/Electrical Calculations	EA	1	0	0	
19.7	Quantities	LS	1	0	0	
19.8	Cost Estimate	LS	1	0	0	
19.9	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
19.10	Other Signing and Pavement Marking	LS	1	0	0	
	Signing and Pavement Marking Analysis Technical Subtotal				**156**	
19.11	Field Reviews	LS	1	0	0	
19.12	Technical Meetings	LS	1	0	0	Meetings are listed below
19.13	Quality Assurance/Quality Control	LS	%	5%	8	
19.14	Independent Peer Review	LS	%	0%	0	
19.15	Supervision	LS	%	5%	8	
	Signing and Pavement Marking Analysis Nontechnical Subtotal				**16**	
19.16	Coordination	LS	%	0%	0	
	19. Signing and Pavement Marking Analysis Total				**172**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number

Project Activity 19: Signing and Pavement Marking Analysis

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments		
Sign Panel Design		EA	0	0	0			0
Queue Length Analysis		EA	0	0	0			0
Local Governments (cities, counties)		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 19.12

Carries to Tab 3

Project Activity 7: Utilities

Estimator:

CR 108 from CR 115 (Bay Road) to CR 121A (Middle Road)
441214-1-38-01

Representing	Print Name	Signature / Date
Nassau County	**Robert Companion**	
T2 Utility Engineers	**Terry Crews**	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
7.1	Utility Kickoff Meeting	LS	0	0	0	Not Applicable for this project.
7.2	Identify Existing Utility Agency Owner(s)	LS	7	1	7	Pull Updated design ticket, secure GIS/as-builts and file accordingly, setup project folders (T2 file and T2 Utility Status Database). - Task 7.2 Includes UPM peform field review to get familiarized
7.3	Make Utility Contacts	LS	7	1	7	UC/UPM to compile Initial, FYI, and Final Statute Contact Packages with associated plans, clearance forms etc...and send out to the UAO's for response. Contact Package to be sent via T2
7.4	Exception Processing	LS	0	0	0	Not Applicable for this project.
7.5	Preliminary Utility Meeting	LS	0	0	0	Not Applicable for this project.
7.6	Individual/Field Meetings	LS	1	8	8	Estimated as holding one (1) individual meetings — 2 hr prep + 2 hrs travel + 2 hr mtg + 2 hr minutes
7.7	Collect and Review Plans and Data from UAO(s)	LS	7	2	14	Collect, review, update T2's project information database, and file on T2 servers any UAO provided information/markups. Also, forward any markups and GIS information on to the EOR/Designer for
7.8	Subordination of Easements Coordination	LS	0	0	0	Not Applicable for this project.
7.9	Utility Design Meeting	LS	1	8	8	60% Design Meeting with EOR and UAO's - Meeting Location TBD - 2 hr prep + 2 hrs travel + 2 hr mtg + 2 hr minutes
7.10	Review Utility Markups & Work Schedules, and Processing of Schedules & Agreements	LS	7	3	21	Acquire and review utility markups/RGB's, contact forms, and assist UAO's with any documentation needed to achieve preparation of the final Utility Certification package in a timely manner. Assist
7.11	Utility Coordination/Followup	LS	7	1	7	Follow-up and finalize all RGB's and associated Utility Work Schedules and associated contact forms.
7.12	Utility Constructability Review	LS	0	0	0	Not Applicable for this project.
7.13	Additional Utility Services	LS	0	0	0	Not Applicable for this project.
7.14	Processing Utility Work by Highway Contractor (UWHC)	LS	0	0	0	Not Applicable for this project.
7.15	Contract Plans to UAO(s)	LS	1	4	4	Send out Final Plans to UAO's to ensure no changes have been made between 90% and Final Plans that would negativley impact the UAO's written disposition described in the Utility Work
7.16	Certification/Close-Out	LS	7	1	7	Clean-up Server Files to ensure all information is accurately depicted, review the Utility Project Information Databse to ensure all UAO dispositions have been identified and all information
7.17	Other Utilities	LS	1	12	12	Clerical/Admin for monthly financial closeout and invoicing
				7. Utilities Total	**95**	

Project Activity 7: Utilities

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Kickoff (see 7.1)	EA	0	0	0			0
Preliminary Meeting (see 7.5)	EA	0	0	0			0
Individual UAO Meetings (see 7.6)	EA	0	0	0			0
Field Meetings (see 7.6)	EA	0	0	0			0
Design Meeting (see 7.9)	EA	0	0	0			0
Other Meetings *(this is automatically added into Utilities Total (cell F27))*	EA	0	0	0			0
Total Meetings				**0**	**Total Project Manager Meetings (carries to Tab 3)**		**0**

Carries to Tab 3

Project Activity 6a: Drainage Analysis

Estimator:

CR 108 from CR 115 (Bay Road) to CR 121A (Middle Road)
441214-1-38-01

Representing	Print Name	Signature / Date
Nassau County	**Robert Companion**	
Peters & Yaffee	**Mike Molkenbur**	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.1	Drainage Map Hydrology	Per Map	1	12	12	For ditch relocations at superelevation correction and new closed system mentioned in 6a.9 below
6a.2	Base Clearance Calculations	Per Location	0	0	0	N/A
6a.3	Pond Siting Analysis and Report	Per Basin	0	0	0	N/A
6a.4	Design of Cross Drains	EA	0	0	0	Cross drains will be replaced "in kind"; no hydraulic analysis required
6a.5	Design of Ditches	Per Ditch Mile	0.57	28	16	3000' feet of relocated ditch plus sidedrains
6a.6	Design of Stormwater Management Facility (Offsite or Infield Pond)	EA	0	0	0	N/A
6a.7	Design of Stormwater Management Facility (Roadside Treatment Swales and Linear Ponds)	Per Cell	0	0	0	N/A
6a.8	Design of Floodplain Compensation	Per Floodplain Basin	0	0	0	N/A
6a.9	Design of Storm Drains	EA	3	3	9	For location near US1 with shoulder buildup & no ditch
6a.10	Optional Culvert Material	EA	0	0	0	N/A
6a.11	French Drain Systems	Per Cell	0	0	0	N/A
6a.11.a	Existing French Drain Systems	Per Cell	0	0	0	N/A
6a.12	Drainage Wells	EA	0	0	0	N/A
6a.13	Drainage Design Documentation Report	LS	1	35	35	Prepare existing drainage inventory report
6a.14	Bridge Hydraulic Report	EA	0	0	0	N/A

Project Activity 6a: Drainage Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.15	Temporary Drainage Analysis	LS	1	0	0	N/A
6a.16	Cost Estimate	LS	1	0	0	N/A
6a.17	Technical Special Provisions / Modified Special Provisions	LS	1	0	0	N/A
6a.18	Hydroplaning Analysis	LS	1	0	0	N/A
6a.19	Existing Permit Analysis	LS	1	0	0	N/A
6a.20	Other Drainage Analysis	LS	1	0	0	N/A
6a.21	Noise Barrier Evaluation	LS	1	0	0	
				Drainage Analysis Technical Subtotal	**72**	
6a.22	Field Reviews	LS	1	16	16	2 people x 8 hours x 1 review for existing drainage inventory
6a.23	Technical Meetings	LS	1	14	14	Meetings are listed below
6a.24	Environmental Look-Around (ELA) Meeting	LS	1	0	0	
6a.25	Quality Assurance/Quality Control	LS	%	5%	4	
6a.26	Independent Peer Review	LS	%	0%	0	
6a.27	Supervision	LS	%	5%	4	
				Drainage Analysis Nontechnical Subtotal	**38**	
6a.28	Coordination	LS	%	3%	3	
				6a. Drainage Analysis Total	**113**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Base Clearance Water Elevation	EA	0	0	0			0
Pond Siting	EA	0	0	0			0
Agency	EA	0	0	0			0
Local Governments (cities, counties)	EA	1	6	6	Meet w/ Nassau County to discuss drainage requirements	yes	1
FDOT Drainage	EA	0	0	0			0
Other Meetings	EA	0	0	0			0
Subtotal Technical Meetings				**6**			**1**
Progress Meetings (if required by FDOT)	EA	4	1	4	*PM attendance at Progress Meetings is manually entered on General Task 3*		--
Phase Review Meetings	EA	1	4	4	*PM attendance at Phase Review Meetings is manually entered on General Task 3*		--
Total Meetings				**14**	**Total Project Manager Meetings (carries to Tab 3)**		**1**
				Carries to 6.19			Carries to Tab 3

6b. Drainage Plans

Estimator:

CR 108 from CR 115 (Bay Road) to CR 121A (Middle Road)
441214-1-38-01

Representing	Print Name	Signature / Date
Nassau County	**Robert Companion**	
Peters & Yaffee	**Mike Molkenbur**	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
6b.1	Drainage Map (Including Interchanges)		Sheet	1	24	24	drainage map for ditch relocations and new collection system
6b.2	Bridge Hydraulics Recommendation Sheets		Sheet	0	0	0	N/A
6b.3	Summary of Drainage Structures		Sheet	1	12	12	for new collection system & new MES with pipes
6b.4	Optional Pipe/Culvert Material		Sheet	0	0	0	N/A
6b.5	Drainage Structure Sheet(s) (Per Structure)		EA	3	2	6	
6b.6	Miscellaneous Drainage Detail Sheets		Sheet	1	34	34	ditch limits/outlines (12 hrs), 29 MES replacements (12 require replacement with pipe and new MES due to 1:2 MES slopes) (4 hrs for replacement in kind + 1 hr/pipe & MES replacement x 16 = 16 hrs) , 2 cross drain replacements - CADD work (2 hr) MM-Revise to remove cross drain replacement
6b.7	Lateral Ditch Plan/Profile		Sheet	0	0	0	N/A
6b.8	Lateral Ditch Cross Sections		EA	60	0.25	15	draw proposed ditches into roadway cross sections (3000 LF of ditch/50' spacing = 60 cross sections)
6b.9	Retention/Detention Ponds Detail Sheet(s)		Sheet	0	0	0	N/A
6b.10	Retention Pond Cross Sections		EA	0	0	0	N/A
6b.11	Erosion Control Plan Sheet(s)		Sheet	10	1	10	Draw erosion control features into CADD file (labeling by POND), 29 plan sheets at 100 scale, estimate erosion control features required on 10 sheets
6b.12	SWPPP Sheet(s)		Sheet	2	4	8	
					Drainage Plans Technical Subtotal	**109**	
6b.13	Quality Assurance/Quality Control		LS	%	8%	9	elevated due to low # of hours
6b.14	Supervision		LS	%	5%	5	
					6. Drainage Plans Total	**123**	

Project Activity 19: Signing and Pavement Marking Analysis

Estimator:

CR 108 from CR 115 (Bay Road) to CR 121A (Middle Road)

441214-1-38-01

Representing	Print Name	Signature / Date
Nassau County	Robert Companion	
Peters & Yaffee	Russell Yaffee	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
19.1	Traffic Data Analysis	LS	1	4	4	Review approved preliminary engineering report, typical section package and proposed geometric design alignment, queue analysis and No Passing Zone Study.
19.2	No Passing Zone Study	LS	1	0	0	n/a (to be completed by Element)
19.3	Reference and Master Design File	LS	1	302	302	All efforts required for establishing the signing and marking master design file to include reference files of topo, r/w, roadway, utility files etc. Includes design and layout of signs, lane lines, gores, pavement markings, rpm's, etc. and efforts required for drafting, clean up and clipping files in accordance with the departments CADD manual and FDOT Design Manual. (LS - Lower Range: 30 hours for set up, and 35 hours per mile including cross roads; Add 12 hours per signalized intersection.) Total length 41,000 feet or 7.77 miles - (30 hrs setup) + (35 hrs/mile x 7.77 miles) = 302 hours
19.4	Multi-Post Sign Support Calculations	EA	1	0	0	n/a
19.5	Sign Panel Design Analysis	EA	1	0	0	n/a
19.6	Sign Lighting/Electrical Calculations	EA	1	0	0	n/a
19.7	Quantities	LS	1	40	40	Includes all work required to determine the quantities for each plan sheet. The total project length is 41,000 feet, of that 31,000 feet can be designed using 100 scale plan sheets. This will leave 10,000 feet that will be designed using 40 scale plans. = 18 (40 Scale) and 22 (100 Scale) = 40 sheets x 1 hours per plan sheet = 40 hrs
19.8	Cost Estimate	LS	1	8	8	2 estimates x 4 hrs / estimate = 4 hours
19.9	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	n/a
19.10	Other Signing and Pavement Marking	LS	1	0	0	n/a
	Signing and Pavement Marking Analysis Technical Subtotal				**354**	
19.11	Field Reviews	LS	1	16	16	2 Review x 2 people x 4 hrs
19.12	Technical Meetings	LS	1	6	6	Meetings are listed below
19.13	Quality Assurance/Quality Control	LS	%	5%	18	
19.14	Independent Peer Review	LS	%	0%	0	
19.15	Supervision	LS	%	5%	18	
	Signing and Pavement Marking Analysis Nontechnical Subtotal				**58**	
19.16	Coordination	LS	%	3%	12	

Project Activity 19: Signing and Pavement Marking Analysis

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
	19. Signing and Pavement Marking Analysis Total				**424**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Sign Panel Design	EA	0	0	0			0
Queue Length Analysis	EA	0	0	0			0
Local Governments (cities, counties)	EA	1	4	4			0
Other Meetings	EA	0	0	0			0
Subtotal Technical Meetings				**4**	**Subtotal Project Manager Meetings**		0
Progress Meetings (if required by FDOT)	EA	2	1	2	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				**6**	**Total Project Manager Meetings (carries to Tab 3)**		**0**

Carries to 19.12

Carries to Tab 3

Project Activity 20: Signing and Pavement Marking Plans

Estimator:

CR 108 from CR 115 (Bay Road) to CR 121A (Middle Road)
441214-1-38-01

Representing	Print Name	Signature / Date
Nassau County	Robert Companion	
Peters & Yaffee	Russell Yaffee	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
20.1	Key Sheet		Sheet	1	4	1	4	1 Key Sheet Required
20.2	Summary of Pay Items Including Input		LS	1	0		0	n/a
20.3	Tabulation of Quantities		Sheet	3	6	3	18	3 TOQ Sheets Required
20.4	General Notes/Pay Item Notes		Sheet	1	4	1	4	1 GN Sheet Required
20.5	Project Layout		Sheet	0	0	0	0	n/a
20.6	Plan Sheet		Sheet	40	2.5	40	100	40 Plan Sheets
20.7	Typical Details		EA	0	0		0	n/a
20.8	Guide Sign Worksheet(s)		EA	0	0		0	n/a
20.9	Traffic Monitoring Site		EA	0	0		0	n/a
20.10	Cross Sections		EA	0	0		0	n/a
20.11	Special Service Point Details		EA	0	0		0	n/a
20.12	Special Details		LS	1	0		0	n/a
20.13	Interim Standards		LS	1	0		0	n/a
Signing and Pavement Marking Plans Technical Subtotal						**45**	**126**	
20.14	Quality Assurance/Quality Control		LS	%	5%		6	
20.15	Supervision		LS	%	5%		6	
20. Signing and Pavement Marking Plans Total						**45**	**138**	

Project Activity 21: Signalization Analysis

Estimator:

CR 108 from CR 115 (Bay Road) to CR 121A (Middle Road)

441214-1-38-01

Representing	Print Name	Signature / Date
Nassau County	2	
Peters & Yaffee		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
21.1	Traffic Data Collection	LS	1	0	0	n/a
21.2	Traffic Data Analysis	PI	2	4	8	Includes determining signal operation plan, intersection geometry, local signal timings, pre-emption phasing and timings, forecasting traffic, intersection analysis run, etc. per intersection. (2 RRFB Locations (Hilliard Middle/Senior High and Hilliard First Baptist Church) = 2 x 4 hrs = 8 hrs
21.3	Signal Warrant Study	LS	1	0	0	n/a
21.4	System Timings	LS	1	0	0	n/a
21.5	Reference and Master Signalization Design File	PI	2	30	60	All efforts required per intersection for establishing the signal master design file to include reference files of topo, r/w, roadway, pavement markings, utilities files, etc. Includes the design and layout of proposed detection, pedestrian signals, conduit, pull boxes, service points, etc. Also includes proposed call outs, pay item numbers, controller timing chart, signal/ pedestrian head details, sign details, controller notes, signal operating plan, etc. (2 RRFB Locations (Hilliard Middle/Senior High and Hilliard First Baptist Church) - 2 RRFBs x 30 hrs/RRFB = 60 hrs
21.6	Reference and Master Interconnect Communication Design File	LS	1	0	0	n/a
21.7	Overhead Street Name Sign Design	EA	0	0	0	n/a
21.8	Pole Elevation Analysis	LS	1	0	0	n/a
21.9	Traffic Signal Operation Report	LS	1	0	0	n/a
21.10	Quantities	LS	1	8	8	Includes all work required to determine the quantities for each signalized intersection - 2 Intersections x 4 hrs each = 8 hrs
21.11	Cost Estimate	LS	1	6	6	2 estimates x 3 hrs = 6 hrs
21.12	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	n/a
21.13	Other Signalization Analysis	LS	1	0	0	n/a
	Signalization Analysis Technical Subtotal				**82**	
21.14	Field Reviews	LS	1	16	16	2 reviews x 2 people x 4 hrs
21.15	Technical Meetings	LS	1	4	4	Meetings are listed below
21.16	Quality Assurance/Quality Control	LS	%	5%	4	
21.17	Independent Peer Review	LS	%	0%	0	

Project Activity 21: Signalization Analysis

21.18	Supervision	LS	%	5%	4	
Signalization Analysis Nontechnical Subtotal					**28**	

Project Activity 21: Signalization Analysis

21.19	Coordination	LS	%	3%	3	
	21. Signalization Analysis Total				**113**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
FDOT Traffic Operations	EA	0	0	0			0
FDOT Traffic Design	EA	0	0	0			0
Power Company (service point coordination)	EA	1	4	4			0
Maintaining Agency (cities, counties)	EA	0	0	0	Cover with SAPM		0
Railroads	EA	0	0	0			0
Other Meetings	EA	0	0	0			0
Subtotal Technical Meetings				**4**	**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				**4**	**Total Project Manager Meetings (carries to Tab 3)**		**0**

Carries to 21.15

Carries to Tab 3

Project Activity 22: Signalization Plans

Estimator:

CR 108 from CR 115 (Bay Road) to CR 121A (Middle Road)
441214-1-38-01

Representing	Print Name	Signature / Date
Nassau County	Robert Companion	
Peters & Yaffee	Russell Yaffee	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
22.1	Key Sheet		Sheet	1	4	1	4	1 Key Sheet Required
22.2	Summary of Pay Items Including Designer Interface Input		Sheet	0	0	0	0	n/a
22.3	Tabulation of Quantities		Sheet	1	8	1	8	1 TOQ Sheet Required
22.4	General Notes/Pay Item Notes		Sheet	1	4	1	4	1 GN Sheet Required
22.5	Plan Sheet		Sheet	2	4	2	8	2 Plan Sheets
22.6	Interconnect Plans		Sheet	0	0	0	0	n/a
22.7	Traffic Monitoring Site		EA	0	0		0	n/a
22.8	Guide Sign Worksheet		EA	0	0		0	n/a
22.9	Special Details		Sheet	1	8	1	8	1 Misc. Detail Sheet
22.10	Special Service Point Details		EA	0	0		0	n/a
22.11	Mast Arm/Monotube Tabulation Sheet		PI	0	0		0	n/a
22.12	Strain Pole Schedule		PI	0	0		0	n/a
22.13	TTCP Signal		EA	0	0		0	n/a
22.14	Temporary Detection Sheet		PI	0	0		0	n/a
22.15	Utility Conflict Sheet		Sheet	0	0	0	0	n/a
22.16	Interim Standards		LS	0	0		0	n/a
	Signalization Plans Technical Subtotal					**6**	**32**	
22.17	Quality Assurance/Quality Control		LS	%	5%		2	
22.18	Supervision		LS	%	5%		2	
	22. Signalization Plans Total					**6**	**36**	

27. Survey

Estimator:

CR 108 from CR 115 (Bay Road) to CR 121A (Middle Road)
441214-1-38-01

Representing	Print Name	Signature / Date
Nassau County	Robert Companion	
DRMP	Bill Faust	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
27.1	Horizontal Project Control (HPC)									Recover or establish horizontal control points throughout the project limits to Nassau County requirements. Control will be referenced to NAD83/2011 Adjustment. Set 3 Static GPS pairs, run conventional traverse to set primary and secondary control points.
	2-Lane Roadway	Mile	6.00	0.75	6.00	1.25	7.50	3.00	18.00	
	Multi-lane Roadway	Mile			0.00		0.00		0.00	
	Interstate	Mile			0.00		0.00		0.00	
27.2	Vertical PC / Bench Line									Recover or establish vertical geodetic control points throughout the project limits to Nassau County requirements. Control will be referenced to NAVD88. Bench Marks set every mile, TBM's set every 1,000 feet.
	2-Lane Roadway	Mile	9.00	0.67	6.00	1.25	7.50	3.00	18.00	
	Multi-lane Roadway	Mile			0.00		0.00		0.00	
	Interstate	Mile			0.00		0.00		0.00	
27.3	Alignment and Existing R/W Lines									Recover or establish the baseline and right of way lines of CR108 from Bay Road to Middle Road
		Mile	8.00	1.00	8.00	1.25	10.00	6.00	48.00	
27.4	Aerial Targets			Units/Day						Provide mobile lidar targets for a Type "A" high accuracy survey. This accuracy of survey will allow us to provide 3D planimetric topographic design files of the project limits. Targets to be placed at 1000 feet spacing along the project route, with verifications points placed at 1,000'. Conventional survey methods will be utilized to establish horizontal and vertical values for the targets. Total of 94 mobile targets and 35 verification points.
	2-Lane Roadway	EA	129.00	25.80	5.00		0.00		0.00	
	Multi-lane Roadway	EA			0.00		0.00		0.00	
	Interstate	EA			0.00		0.00		0.00	
27.5	Reference Points	"A"		Units/Day						Reference baseline at PC's, PT's, PI's and POT's at 1,000 feet stations along the project routte. Estimate based on 40 baseline points and 80 reference points for a total of 120 points.
	2-Lane Roadway	EA	120.00	24.00	5.00	1.25	6.25	3.00	15.00	
	Multi-lane Roadway	EA			0.00		0.00		0.00	
	Interstate	EA			0.00		0.00		0.00	
	Reference Points	"B"		Units/Day						
	Non Alignment Points/Approximate	EA			0.00		0.00		0.00	
27.6	Topography/DTM (3D)									3D DTM in 5 areas (assuming 500-700 feet each area) utilize conventional survey methods to obtain survey information for the obscured area in these 5 areas

27. Survey

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
		Mile	13.00	1.00	13.00	1.25	16.25	3.00	39.00	3D survey of curb and drainage at US1 and several miscellaneous drainage areas along the project route Conventional survey of obscured area for 200' cross sections (+- 33) in the curves and
27.7	Planimetric (2D)									
		Mile			0.00		0.00		0.00	
27.8	Roadway Cross-Sections/Profiles									mobile lidar verification sections
		Mile	8.00	0.13	1.00	1.25	1.25	3.00	3.00	
27.9	Side Street Surveys									
		Mile			0.00		0.00		0.00	
27.10	Underground Utilities									Utility designations: preform utility designations at the at mid-block crossing for First Baptist Church and at existing school crossing. Mid Block Crossing at school and church - foundation clearance holes for pole foundations 4 days budgeted.
	Designates	Mile/Site	2.00	1.25	2.50	1.25	3.13	3.00	7.50	
	Locates	Point	4	1	4.00	1.25	5.00	3.00	12.00	
	Survey		25%	6.50	1.63	1.25	2.03	3.00	4.88	
27.11	Outfall Survey									N/A
		Mile			0.00		0.00		0.00	
27.12	Drainage Survey			Units/Day						obtain invert, pipe size and materials for 15 cross drains/culverts, 75 side drains/drive culverts and 30 catch basins/MES/endwalls
		EA	120.00	45.00	2.67	1.25	3.33	3.00	8.00	
27.13	Bridge Survey									N/A
	Minor / Major	EA			0.00		0.00		0.00	
27.14	Channel Survey									N/A
		EA			0.00		0.00		0.00	
27.15	Pond Site Survey									N/A
		EA			0.00		0.00		0.00	
27.16	Mitigation Survey									N/A
		Mile			0.00		0.00		0.00	
27.17	Jurisdiction Line Survey									N/A
		Mile			0.00		0.00		0.00	
27.18	Geotechnical Support			Units/Day						Geotech support. Assumed 42 pavement borings.
		EA	42	25	1.68	1.25	2.10	3.00	5.04	
27.19	Sectional / Grant Survey									N/A
		Corner			0.00		0.00		0.00	

27. Survey

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
		Mile			0.00		0.00		0.00	
27.20	Subdivision Location									N/A
		Block			0.00		0.00		0.00	
27.21	Maintained R/W									N/A
		Mile			0.00		0.00		0.00	
27.22	Boundary Survey									N/A
		EA			0.00		0.00		0.00	
27.23	Water Boundary Survey									N/A
		EA			0.00		0.00		0.00	
27.24	R/W Staking / R/W Line									N/A
		EA			0.00		0.00		0.00	
		Mile			0.00		0.00		0.00	
27.25	R/W Monumentation									N/A
		Point			0.00		0.00		0.00	
27.26	Line Cutting									N/A
		Mile			0.00					
27.27	Work Zone Safety									MOT as required
			0.125	56.47	7.06					
27.28	Vegetation Survey									
		LS							0	
27.29	Tree Survey									
		LS							0	
27.30	Miscellaneous Surveys									N/A
					0.00		0.00		0.00	
Survey Subtotal				**Crew Days**	**64**	**Field Support Hours**	**64**	**Office Support Hours**	**178**	
27.31	Supplemental Surveys									THE % FOR SUPPLEMENTAL WILL BE DETERMINED AT NEGOTIATIONS. THIS ITEM CAN ONLY BE USED IF AUTHORIZED IN WRITING BY THE DISTRICT SURVEYOR
				64	0		0		0	
27.32	Document Research	Units								
									0	
27.33	Field Reviews	Units								
									0	

27. Survey

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
27.34	Technical Meetings	LS								
			0.00						0	
27.35	Quality Assurance / Quality Control	LS								
								5%	9	
27.36	Supervision	LS								
								5%	12	
27.37	Coordination	LS								
								3%	6	
	27. Survey Total			**Crew Days**	**64**	**Field Support Hours**	**64**	**Office Support Hours**	**205**	

SPLS =
PLS =
Office Support =
Total Hours = 270

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number	Comments
Kickoff Meeting with FDOT	EA	0	0	0		0	
Baseline Approval Review	EA	0	0	0		0	
Network Control Review	EA	0	0	0		0	
Vertical Control Review	EA	0	0	0		0	
Local Governments (cities, counties)	EA	0	0	0		0	
Final Submittal Review	EA	0	0	0		0	
Other Meetings	EA	0	0	0		0	
Subtotal Technical Meetings				**0**	**Subtotal PM Meetings**	0	
Progress Meetings (if required by FDOT)	EA	0	0	0	**	- -	
Phase Review Meetings	EA	0	0	0	**	- -	
Total Meetings				**0**	**Total PM Mtgs (carries to Tab 3)**	**0**	

Carries to 27.32 | Carries to Tab 3

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

30. Terrestrial Mobile LIDAR

Estimator

CR 108 from CR 115 (Bay Road) to CR 121A (Middle Road)
441214-1-38-01

Representing	Print Name	Signature / Date
Nassau County	Robert Companion	
DRMP	Bill Faust	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units	Hour / Unit	Hours					Total Range	Comments
					PSM	Senior LiDAR Technician	LiDAR Technician	LiDAR Operator	Field Technician		
30.1	Terrestrial Mobile LiDAR Mission Planning										
	[illegible]	Scan Miles	[illegible]	0.100	1.60					1.60	PSM Only
		Scan Miles	16.00	0.500		8.00				8.00	Sr. LiDAR Tech Only
		Scan Miles	16.00	0.000			0.00			0.00	LiDAR Technician Only
30.2	Project Control Point Coordination										
	2-Lane Roadway	Point	129	0.020	2.58					2.58	PSM Only
		Point	129	0.040		5.16				5.16	Sr. LiDAR Tech Only
		Point	129	0.000			0.00			0.00	LiDAR Technician Only
30.3	Terrestrial Mobile LiDAR Mobilization										
	2-Lane Roadway	Personnel	1	5.0				5.00		5.00	LiDAR Operator Only
		Personnel	1	10.0					10.00	10.00	Field Technician Only
30.4	Terrestrial Mobile LiDAR Mission										
	2-Lane Roadway	Scan Miles	16.00	0.200				3.20		3.20	LiDAR Sensor Operator
		Scan Miles	16.00	0.400		Number of Field Technician(s) =		2.00	3.20	6.40	1-Technician to drive vehicle , 1-base station
30.5	Terrestrial Mobile LiDAR Processing										
	2-Lane Roadway	Scan Miles	16.00	0.100	1.60					1.60	PSM Only
		Scan Miles	16.00	0.400		6.40				6.40	Sr. LiDAR Tech Only
		Scan Miles	16.00	0.600				9.60		9.60	LiDAR Operator
30.6	Terrestrial Mobile Photography Processing										
	2-Lane Roadway	Scan Miles	16.00	0.030	0.48					0.48	PSM Only
		Scan Miles	16.00	0.100		1.60				1.60	Sr. LiDAR Tech Only
		Scan Miles	16.00	0.500			8.00			8.00	LiDAR Technician Only
30.7	Transformation / Adjustment										
	2-Lane Roadway	Scan Miles	16.00	0.400	6.40					6.40	PSM Only
		Scan Miles	16.00	1.000		16.00				16.00	Sr. LiDAR Tech Only
		Scan Miles	16.00	0.000			0.00			0.00	LiDAR Technician Only
30.8	Classification / Editing										
	2-Lane Roadway	Corridor Miles	2.00	0.400	3.20					3.20	PSM Only
		Corridor Miles	8.00	2.000		16.00				16.00	Sr. LiDAR Tech Only
		Corridor Miles	8.00	2.000			16.00			16.00	LiDAR Technician Only
30.9	Specific Surface Reporting										
	2-Lane Roadway	Corridor Miles	2.00	0.200	1.60					1.60	PSM Only
		Corridor Miles	8.00	1.000		8.00				8.00	Sr. LiDAR Tech Only
		Corridor Miles	8.00	2.000			16.00			16.00	LiDAR Technician Only
30.10	Topographic (3D) Mapping										
	2-Lane Roadway	Corridor Miles	2.00	0.300	2.40					2.40	PSM Only
		Corridor Miles	8.00	5.000		40.00				40.00	Sr. LiDAR Tech Only
		Corridor Miles	8.00	10.000			80.00			80.00	LiDAR Technician Only
30.11	Topographic (2D) Planimetric Mapping										
	2-Lane Roadway	Corridor Miles	0.00	0.000	0.00					0.00	PSM Only
		Corridor Miles	0.00	0.000		0.00				0.00	Sr. LiDAR Tech Only
		Corridor Miles	0.00	0.000			0.00			0.00	LiDAR Technician Only
30.12	CADD Edits										
	2-Lane Roadway	Corridor Miles	2.00	0.200	1.60					1.60	PSM Only
		Corridor Miles	8.00	0.500		4.00				4.00	Sr. LiDAR Tech Only
		Corridor Miles	8.00	2.000			16.00			16.00	LiDAR Technician Only
30.13	Data Merging										
	2-Lane Roadway	Corridor Miles	2.00	0.200	1.60					1.60	PSM Only
		Corridor Miles	8.00	0.500		4.00				4.00	Sr. LiDAR Tech Only
		Corridor Miles	8.00	1.000			8.00			8.00	LiDAR Technician Only
30.14	Miscellaneous										
	Survey Report	LS	1	6	6					6.00	PSM Only
		LS	1	6		6				6.00	Sr. LiDAR Tech Only
		LS	0	0			0			0.00	LiDAR Tech Only
		LS	0	0				0		0.00	LiDAR Operator Only
		LS	0	0					0	0.00	Field Technician Only
								Mobile Scan Technical Subtotal		322.42	

30. Terrestrial Mobile LIDAR

Task No.	Task	Units	No. of Units	Hour / Unit	Hours					Total Range	Comments
					PSM	Senior LIDAR Technician	LIDAR Technician	LIDAR Operator	Field Technician		
30.15	Field Reviews										
		LS	0		0.00					0.00	See Tab Z7
		LS	0							0.00	
30.16	Technical Meetings										
		LS								0.00	From Meetings Table Below
30.17	Quality Assurance / Quality Control										
		LS	5%							16	
30.18	Supervision										
		LS	5%							16	
									Mobile Scan Nontechnical Subtotal	32.00	
30.19	Coordination										
		LS	3%							10	
									30. Terrestrial Mobile LIDAR Mapping Total	364	

* The low end of the range is for rural 2 lane, medium range is for typical Multi- Lane, the high end of the range is for urban / interstate.

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Terrestrial Mobile LIDAR Mapping Submittal Review	EA	0	0	0			0
Other Meetings	EA	0	0	0			0
Subtotal Technical Meetings				0	Subtotal PM Meetings		0
Progress Meetings (if required by FDOT)	EA	0	0	0	--		--
Phase Review Meetings	EA	0	0	0	--		--
Total Meetings				0	Total PM Mtgs (carries to Tab 3)		0

Carries to Tab 1

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

35. Geotechnical

Estimator:

CR 108 from CR 115 (Bay Road) to CR 121A (Middle Road)
441214-1-38-01

Representing	Print Name	Signature / Date
Nassau County	**Robert Companion**	
CSI Geo	**Bruce Khosrozadeh**	

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	2	2	The existing roadway along CR 108 from CR 115 (Bay Road) and CR 121A (Middle Road) shows evidence of extensive cracking, rutting and raveling. Symptoms are indicative of asphalt and roadway age, as well as possible base failures, water intrusion in the base, and substandard roadway and drainage conditions. Roadway depressions and differential settlement are evident at three box culvert structures. Several attempts to repair these areas with asphalt overlays and patches are evident. In addition, three cross drains show evidence of loss of backfill with roadway depressions and potholes on the roadway above the cross drains. The geotechnical exploration will consist of performing a total of 42 pavement cores for pavement thickness determination. Due to the severity of the rutting, cracking, and pavement failures observed, and the presence of several patches, overlays, and depressions, pavement cores will be performed at a frequency of one core per half a mile per lane, with additional cores performed in cracked sections. The settlement and depression evaluation is not part of the current scope of work. Two LBR samples will be collected along a section of roadway that may require reconstruction. Pavement Cores with base depth check: 42 cores TOTAL: 42 pavement cores
35.2	Develop Detailed Boring Location Plan	LS	1	2	2	
35.3	Stake Borings/Utility Clearance	Boring	48	0.2	10	48
35.4	Muck Probing	Crew Day	0	8	0	
35.5	Coordinate and Develop MOT Plans for Field Investigation	EA	1	2	2	
35.6	Drilling Access Permits	Location	0	4	0	
35.7	Property Clearances	EA	0	0	0	
35.8	Groundwater Monitoring	EA	0	0	0	
35.9	LBR/Resilient Modulus Sampling	EA	0	12	0	Already accounted for
35.10	Coordination of Field Work	100 lf of boring	0	0	0	
35.11	Soil and Rock Classification - Roadway	100 lf of boring	0	1	0	
35.12	Design LBR	LS	0	0	0	
35.13	Laboratory Data	100 lf of boring	0	1	0	

35. Geotechnical

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
35.14	Seasonal High Water Table	Boring	6	0.1	1	
35.15	Parameters for Water Retention Areas	EA	0	0	0	
35.16	Delineate Limits of Unsuitable Material	Cross-section	0	10	0	
35.17	Electronic Files for Cross-Sections	100 lf of boring	0	0.5	0	
35.18	Embankment Settlement and Stability	Embankment Boring	0	0	0	
35.19	Monitor Existing Structures	LS	0	5	0	
35.20	Stormwater Volume Recovery and/or Background Seepage Analysis	EA	0	0	0	
35.21	Geotechnical Recommendations	LS	0	0	0	
35.22	Pavement Condition Survey and Pavement Evaluation Report	LS	0	0	0	
35.23	Preliminary Roadway Report	LS	1	20	20	
35.24	Final Report	EA	1	5	5	
35.25	Auger Boring Drafting	100 lf boring	0	3.5	0	
35.26	SPT Boring Drafting	100 lf boring	0	0	0	
			Roadway Geotechnical Subtotal		**42**	
	Structures					
35.27	Develop Detailed Boring Location Plan	LS	1	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	0	0	0	
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	See Basis for reducing by 35.35
35.39	Bridge Construction and Testing Recommendations	Bridge boring	0	0	0	
35.40	Lateral Load Analysis (Optional)	Bridge boring	0	0	0	Duplication of Structural Effort?

35. Geotechnical

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
35.41	Walls	Wall Boring	0	0	0	
35.42	Sheet Pile Wall Analysis (Optional)	Wall Boring	0	0	0	Duplication of Structural Effort?
35.43	Design Soil Parameters for Signs, Signals, High Mast Lights, and Strain Poles and Geotechnical Recommendations	Boring	0	0	0	
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	1	0	0	
				Structural Geotechnical Subtotal	**0**	
				Geotechnical Technical Subtotal	**42**	
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	2	2	Meetings listed below
35.53	Quality Assurance/Quality Control	LS	%	5%	2	
35.54	Supervision	LS	%	3%	1	
				Geotechnical Nontechnical Subtotal	**9**	
35.55	Coordination	LS	%	3%	2	
				35. Geotechnical Total	**53**	

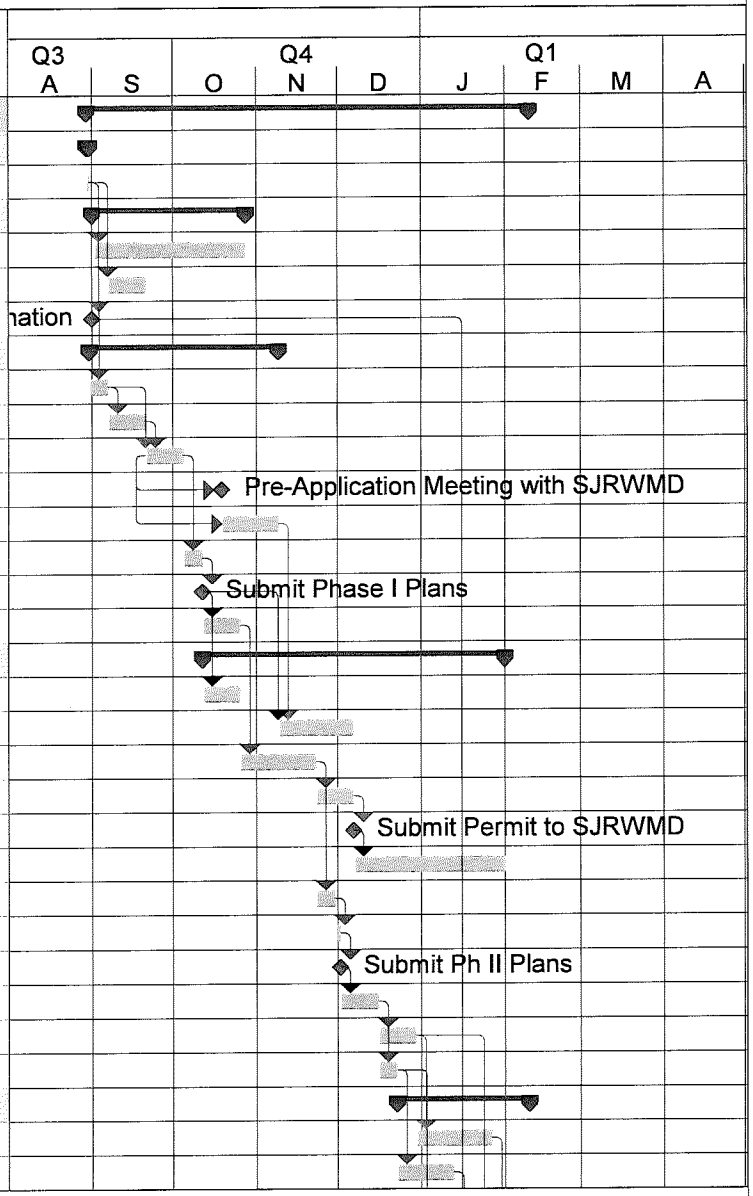
Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Kickoff Meeting with FDOT	EA	0	0	0			0
Boring Layout Approval	EA	0	0	0			0
Attend in BDR Review Meeting	EA	0	0	0			0
30/60/90% Submittal Review	EA	2	1	2			0
Other Meetings	EA	0	0	0			0
Subtotal Technical Meetings				**2**	**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				**2**	**Total Project Manager Meetings (carries to Tab 3)**		**0**

Carries to 33.18

Carries to Tab 3

Safety Improvements to CR 108

ID	Task Name	Duration	Start	Finish
1	CR 108 Safety Improvements	118 days	Mon 8/30/21	Wed 2/9/22
2	Contract Administration	1 day	Mon 8/30/21	Mon 8/30/21
3	Anticipated Notice to Proceed	1 day	Mon 8/30/21	Mon 8/30/21
4	Design Survey, Environmental and Geotech	41 days	Tue 8/31/21	Wed 10/27/21
5	Design Survey	40 days	Thu 9/2/21	Wed 10/27/21
6	Wetland Delineation	10 days	Tue 9/7/21	Mon 9/20/21
7	Begin RR Coordination	0 days	Tue 8/31/21	Tue 8/31/21
8	Preliminary Design	50 days	Tue 8/31/21	Mon 11/8/21
9	Establish Design Criteria & RRR Report	5 days	Tue 8/31/21	Mon 9/6/21
10	Prepare and Submit Roadway Safety Audit	10 days	Tue 9/7/21	Mon 9/20/21
11	Prepare Phase I (30%) Conceptual Plans	10 days	Tue 9/21/21	Mon 10/4/21
12	Pre-Application Meeting with SJRWMD	0 days	Mon 10/18/21	Mon 10/18/21
13	Geotechnical	15 days	Tue 10/19/21	Mon 11/8/21
14	QA/QC Phase I Plans	5 days	Tue 10/5/21	Mon 10/11/21
15	Submit Phase I Plans	0 days	Mon 10/11/21	Mon 10/11/21
16	Nassau & FDOT Review Ph I (30%) Design Plans	10 days	Tue 10/12/21	Mon 10/25/21
17	Phase II Plans - 60%	80 days	Tue 10/12/21	Mon 1/31/22
18	Initial Utility Contact	10 days	Tue 10/12/21	Mon 10/25/21
19	Final Geotech Report	20 days	Tue 11/9/21	Mon 12/6/21
20	Prepare Ph II (60%) Design Plans	20 days	Tue 10/26/21	Mon 11/22/21
21	Prepare Permit Documents	10 days	Tue 11/23/21	Mon 12/6/21
22	Submit Permit to SJRWMD	0 days	Mon 12/6/21	Mon 12/6/21
23	Permits Certified	40 days	Tue 12/7/21	Mon 1/31/22
24	QA/QC Ph II Design Plans And Documents	5 days	Tue 11/23/21	Mon 11/29/21
25	Ph II (60%) Design Plans Estimate	2 days	Tue 11/30/21	Wed 12/1/21
26	Submit Ph II Plans	0 days	Wed 12/1/21	Wed 12/1/21
27	Nassau & FDOT Review Ph II (60%) Design Plans	10 days	Thu 12/2/21	Wed 12/15/21
28	Final Utility Contact	10 days	Thu 12/16/21	Wed 12/29/21
29	Respond To Comments	5 days	Thu 12/16/21	Wed 12/22/21
30	Final Plans, Specifications, & Bid Documents	35 days	Thu 12/23/21	Wed 2/9/22
31	Utility Work Schedules	20 days	Thu 12/30/21	Wed 1/26/22
32	Prepare Final Design Plans	15 days	Thu 12/23/21	Wed 1/12/22

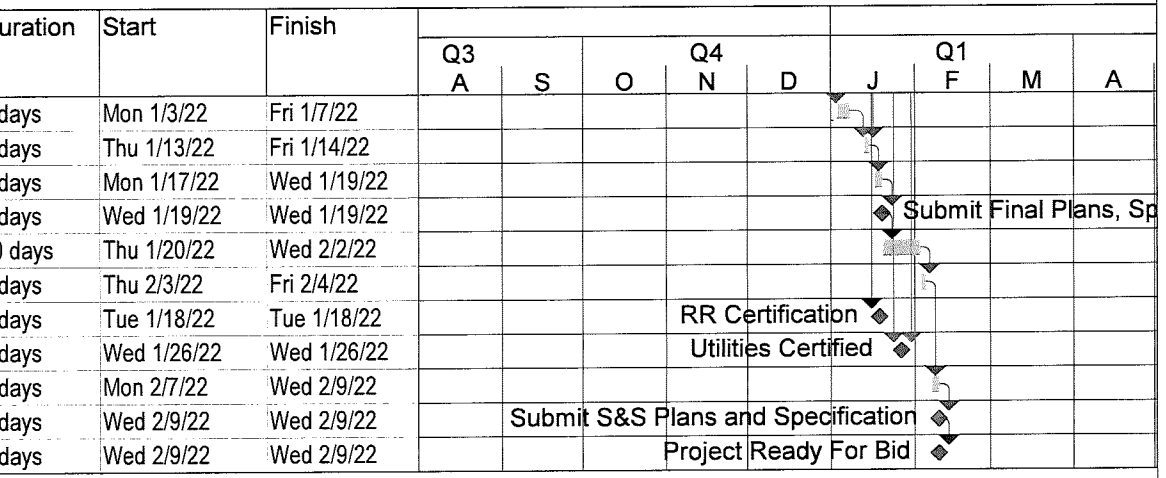


Date: Sun 8/22/21

Task Milestone Summary Critical

Safety Improvements to CR 108

ID	Task Name	Duration	Start	Finish
33	Prepare Specifications	5 days	Mon 1/3/22	Fri 1/7/22
34	QA/QC Final Plans & Documents	2 days	Thu 1/13/22	Fri 1/14/22
35	Prepare Final Construction Estimate & Bid Tabs	3 days	Mon 1/17/22	Wed 1/19/22
36	Submit Final Plans, Specifications, & Bid Documents	0 days	Wed 1/19/22	Wed 1/19/22
37	Nassau & FDOT Review Final Plans & Documents	10 days	Thu 1/20/22	Wed 2/2/22
38	Respond to Comments	2 days	Thu 2/3/22	Fri 2/4/22
39	RR Certification	0 days	Tue 1/18/22	Tue 1/18/22
40	Utilities Certified	0 days	Wed 1/26/22	Wed 1/26/22
41	Prepare Signed & Sealed Plans	3 days	Mon 2/7/22	Wed 2/9/22
42	Submit S&S Plans and Specification	0 days	Wed 2/9/22	Wed 2/9/22
43	Project Ready For Bid	0 days	Wed 2/9/22	Wed 2/9/22



Date: Sun 8/22/21

Task Milestone Summary Critical

ATTACHMENT B

FEE SCHEDULE

NC 20-24 CR 108 Resurfacing and Safety Improvements

FPID: 441214-1-38-01

Pond Project No. TBD Client Contract No. CM3012

		Contractual Limits	Comments
Lump Sum Costs			
Pond - Project Management	$	15,943.22	
Pond - Roadway Analysis/Design & Plans	$	291,010.00	
Pond - Environmental Surveys & Permitting	$	6,869.00	
Element - LAP Coord. and Spec. Pkg	$	19,078.00	
Element - RSA and NPZ Study	$	47,207.00	
T2 - Utility Coordination	$	15,356.00	
Peters & Yaffee - Drainage Design and Plans	$	32,398.00	
Peters & Yaffee - SAPM Design & Plans	$	77,494.00	
Peters & Yaffee - Signal Design & Plans	$	20,457.00	
Direct Expenses	$	-	Include with specific design task
Time and Material Costs			
DRMP - Survey	$	218,064.00	
CSI - Geotech	$	20,150.00	
Reimbursable Future Costs			
Post Design Services			To Be Negotiated prior to Construction
Total Amount (Not To Exceed)	**$**	**764,026.22**	

POND

OH	182.45%
OM	27%
FCCM	0.588%
Expenses	7.52%
	217.558%

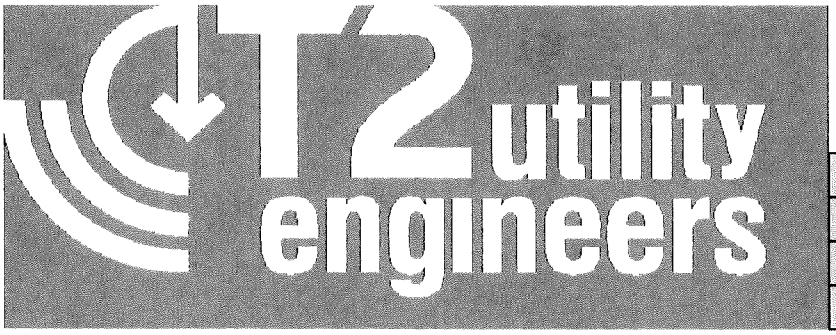
Title	Average of each pay grade	Loaded Rates
Project Manager 3	**$79.52**	**$252.52**
Chief Engineer 1	**$100.96**	**$320.61**
Chief Engineer 2	**$73.27**	**$232.67**
Senior Engineer 1	**$85.63**	**$271.92**
Senior Engineer 2	**$96.49**	**$306.41**
Engineer 1	**$41.09**	**$130.49**
Engineer 1		
** PE registration pending*		
Engineer 2	**$65.14**	**$206.86**
Engineering Intern	**$33.56**	**$106.57**
Senior Designer	**$32.87**	**$104.38**
Sr Environmental Specialist	**$49.04**	**$155.73**
Environmental Specialist	**$31.49**	**$100.00**
Contract Coordinator	**$28.11**	**$89.25**
Contract Coordinator		
Senior Electrical Engineer	**$86.20**	**$273.74**

ELEMENT

ENGINEERING GROUP

OH	146.76%
OM	34%
FCCM	0.552%
Expenses	4.90%
	186.212%

Element Engineering Group		
Title	**Average of each pay grade**	**Loaded Rates**
Chief Designer	**$44.72**	**$127.99**
Chief Engineer 1	**$79.00**	**$226.11**
Chief Engineer 2	**$76.50**	**$218.95**
Engineer 1	**$48.75**	**$139.53**
Engineer 2	**$61.37**	**$175.65**
Engineering Intern	**$37.00**	**$105.90**
Secretarial/Clerical	**$44.30**	**$126.79**
Senior Designer	**$68.60**	**$196.34**



OH	200.28%
OM	24%
FCCM	0.399%
Expenses	23.92%
	248.599% OK

T2 UES, Inc		
Title	**Average of each pay grade**	**Loaded Rates**
CADD/Computer Technician	**$29.95**	**$104.41**
Secretarial/Clerical	**$25.30**	**$88.20**
Senior Uitility Coordinator	**$50.96**	**$177.65**

peters yaffee

OH	173.04%
OM	30%
FCCM	0.360%
Expenses	0.26%
	203.660%

FDOT Classification	Average Rate	Loaded Rate
(Principal Engineer)	$95.24	$289.19
(Chief Engineer 2)	$74.87	$227.35
(Chief Engineer 1)	$77.56	$235.52
(Senior Engineer 1)	$71.69	$217.70
(Engineer 2)	$53.94	$163.81
(Engineer 1)	$41.71	$126.64
(Engineering Intern)	$32.28	$98.01
(Engineering Technician)	$30.15	$91.56
(Senior Designer)	$33.08	$100.45
(Design Intern)	$16.00	$48.59

DRMP, Inc.

WAGE RATE CALCULATION BY CLASSIFICATION	Hrly Loaded Rates	Day Rates
SUR Chief Surveyor	$ 244.18	
SUR Senior Surveyor	$ 181.56	
SUR Senior Project Surveyor	$ 163.18	
SUR 5urvey/GIS/SUE Analyst 3	$ 95.67	
SUR UAS Operator	$ 144.21	
SUR Mobile Survey Analyst 3	$ 157.63	
SUR Mobile Survey Operator	$ 97.88	
SUR Survey Technician 2	$ 51.90	
2-Staff Survey Crew	$ 156.39	$ 1,251.12
3-Staff Survey Crew	$ 208.31	$ 1,666.48
4-Staff Survey Crew	$ 271.30	$ 2,170.40
SUR SUE Technician 3	$ 112.09	
SUR SUE Technician 2	$ 88.41	
SUR SUE Technician 1	$ 75.78	
2-Staff SUE Crew	$ 200.51	$ 1,604.08
3-Staff SUE Crew	$ 276.29	$ 2,210.32
4-Staff SUE Crew	$ 352.07	$ 2,816.56
SUR Secretarial/Clerical	$ 88.41	

CSIGeo
Geotechnical · CMT · CEI

Geotechnical Item	Cost / Unit
Field Investigation	
Crew & Equipment Mobilization / Demobilization:	
Pavement Coring Equip Mobilization	$400.00
Pavement Coring for Pavement Thickness Determination:	
42 Pavement Cores with Base Depth Check	$125.00
LBR Sample Pickup for Roadway Reconstruction	$90.00
MOT	$1,150.00
Laboratory Testing	
LBR	$335.00
Engineering/Support Services	
Project Manager 1	$251.76
MAT Senior Engineer	$185.42
MAT Engineer Intern	$170.51
MAT CADD/Computer Technician	$131.68
MAT Senior Engineering Technician	$101.80
MAT Secretary/Clerical	$61.81

Attachment "C"

Proposal

DESIGN SERVICES

SAFETY IMPROVEMENTS TO CR 108

Nassau County, Florida

Bid No. NC20-024

11.24.20

POND

POND

1200 Riverplace Blvd., Suite 600
Jacksonville, FL 32207

T: 904.543.0400
www.pondco.com

November 24, 2020

Nassau County Board of County Commissioners, c/o John A. Crawford Ex-Officio Clerk
76347 Veterans Way, Suite 456
Yulee, Florida 32097

RE: Design Services Safety Improvements to CR 108 from Bay Road to Middle Road
BID NO. NC20-024

Dear Evaluation Committee:

Pond is excited to submit our qualifications to perform the Design Services for Safety Improvements on CR 108 from Bay Road to Middle Road in Nassau County. Pond is the best technical team with the greatest familiarity with this project, and it is our sincere desire to be a valuable partner to Nassau County for this work. Pond's extensive roadway design experience, depth of resources, and unique use of innovative cost saving concepts will deliver a successful project to Nassau County.

We understand this project will develop plans for improvements to CR 108 from CR 115 (Bay Road) to CR 121A (Middle Road), and includes milling & resurfacing; superelevation/cross slope correction; pavement marking and signage improvements; potential widening and shoulder construction; drainage repairs; and the analysis and design of intersection improvements. The Pond Team will provide all associated services including roadway and drainage design, signal design, geotechnical investigations, survey, utility coordination, railroad coordination, LAP coordination, environmental analysis and permitting, and R/W coordination.

To provide excellent care and service, we have assembled an experienced team which brings together a full complement of engineering discipline specialists to effectively design and bring innovative solutions to this project. Collectively, our team has members that have performed similar services on numerous projects.

We are the right team for the project based on the following:

- **Understanding the requirements of this project**: Pond has been providing design services on similar projects in Florida for over 14 years and throughout the Southeast for over 50 years. Our team members have the necessary understanding of all aspects related to the safety improvements and resurfacing as described in this Proposal. Pond has unparalleled familiarity with this corridor and with Nassau County's needs and objectives for this project, which will allow us to hit the ground running and achieve the stringent schedule that is expected for this project.

- **Innovative Solutions**: Through our experience, the Pond team brings Nassau County multiple innovative solutions that can be implemented. These solutions will save money and provide for a more efficient traffic solution for the users of this vital corridor.
- **Partnership**: Pond brings together a team committed to the successful completion of this project. This team has years of experience working together and with Nassau County. We understand the needs for this project, and we look forward to a strong partnership to deliver a quality roadway project to the community.

If you have any questions or require further explanation on information contained in our proposal, please do not hesitate to contact me, Nina C. Sickler, PE.

Nina C. Sickler, PE | Vice President
1200 Riverplace Blvd, Suite 600 | Jacksonville, Florida 32207
Email: SicklerN@pondco.com | Phone: 904.396.3556 | Fax: 678.336.7744

We look forward to the opportunity to partner with the Nassau County for this contract. We are confident our qualifications will exceed your expectations for this contract.

Sincerely,

Nina Sickler, PE
Vice President

Tabatha Carlton, PE
Project Manager

POND

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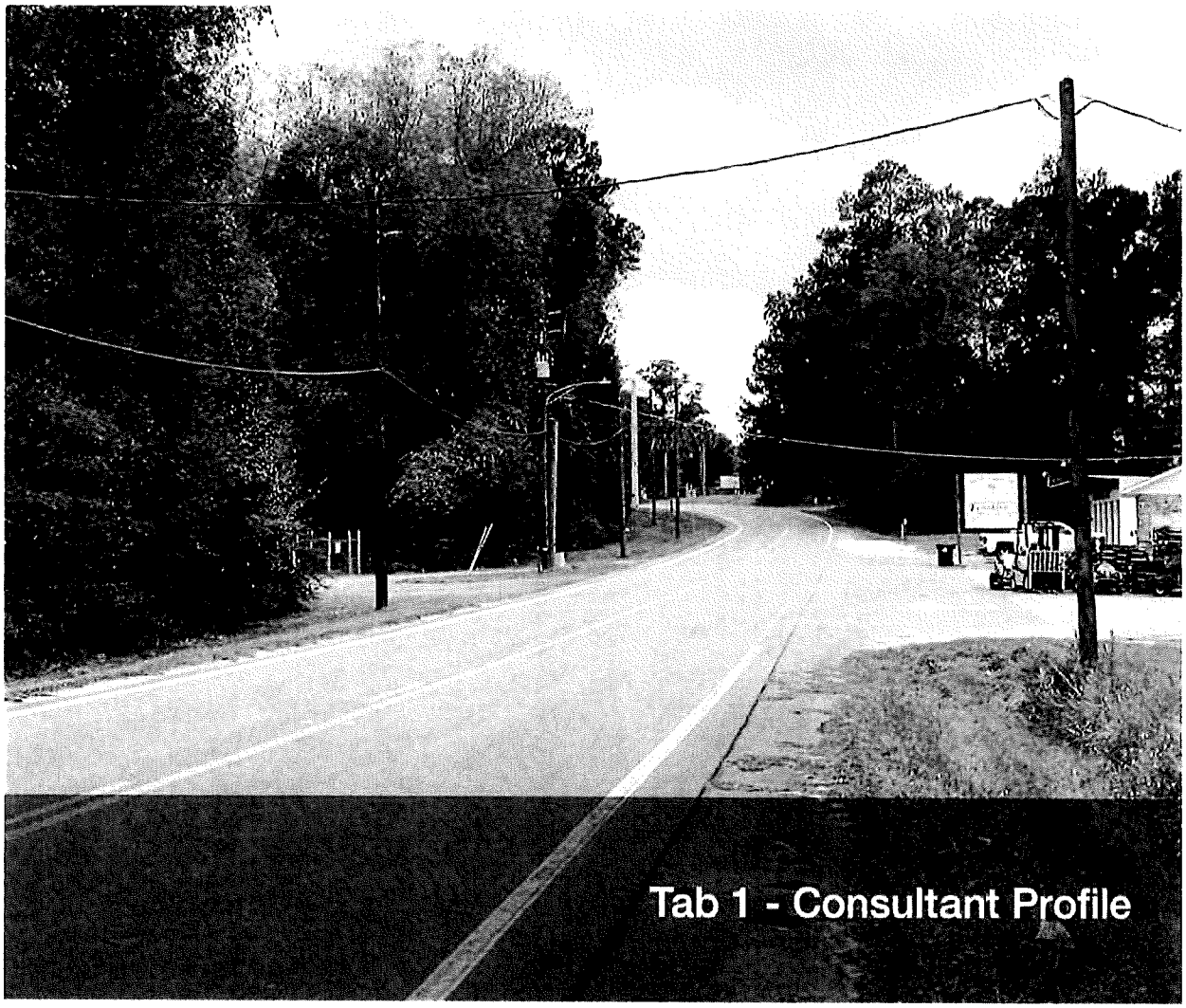


Tab 1 - Consultant Profile

Tab 1 - Consultant Profile

Pond & Company (Pond) offers a highly talented team of individuals in-house along with specialized project partners to provide the necessary services to successfully complete the design for Safety Improvements on CR 108 from Bay Road to Middle Road. We have the depth of expertise and range of experience required to provide effective solutions to meet the needs of the County and other stakeholders. Our firm has recent experience designing new roadway and safety improvements in Nassau County and across the Southeast, most recently the Wildlight Drive extension that connects Wildlight Elementary School to SR 200 and William Burgess Boulevard. The following information details our firm organization, background, locations, and accomplishments.

Firm Overview

Pond is a full-service, engineering, planning, architecture, and construction firm providing services to local, state, and federal agencies. Pond is able to bring together the mixture of skills that are necessary and unique, to make each project successful. As a result, Pond has a history of producing award-winning, context sensitive, and innovative projects to serve our clients' needs. Our capabilities benefit our clients by delivering greater value in the following ways: teamwork, responsiveness, communication, quality control, and project coordination.

Pond's staff have designed hundreds of miles of resurfacing projects with safety and ADA upgrades. The project's multi-disciplinary elements require a competent, qualified team of design professionals. Our proposed Project Manager, Tabatha Carlton, PE has experience leading these type of multi-disciplinary projects with resurfacing, safety and ADA upgrades, drainage, and intersection improvements.

Pond's experience on similar projects includes roadway design, signing and marking, intersection improvements, signal design, drainage design, pavement design, lighting design, maintenance of traffic design, utility coordination, structural design, construction cost estimates and post design services.

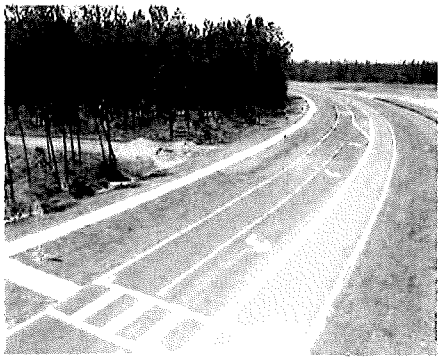
Firm Background & Years of Experience

Pond was originally founded in 1965 as Armour & Associates, and with the addition of two partners, built a solid reputation as Armour, Cape & Pond. In 1998, the firm changed its name to Pond & Company as a reflection of the exponential growth of services and people since the company's inception.

Pond opened our Jacksonville office in 2006 and over the past 14 years has served cities, counties, as well as state and federal agencies on projects throughout Florida. In 2015, Pond opened our Tampa office, which further expanded our transportation and traffic engineering capabilities in the state. In early 2017, Pond acquired the Jacksonville-based firm, Landmark Engineering Inc., which provided additional local expertise and a wealth of knowledge in bridge and roadway engineering, with a strong focus on North Florida projects.

Number of Employees

Nationwide, Pond's staff of **530+** professionals among 20 offices provides a deep bench of experience and ability to offer personalized solutions to help clients manage projects from concept to completion – and everything in between. We offer over **35 professional staff in Florida** to provide responsive full-service capabilities to Nassau County.



Office Locations

Our Downtown Jacksonville office will be the primary design office for this contract. The office is located *less than 45 minutes* from CR 108 at:

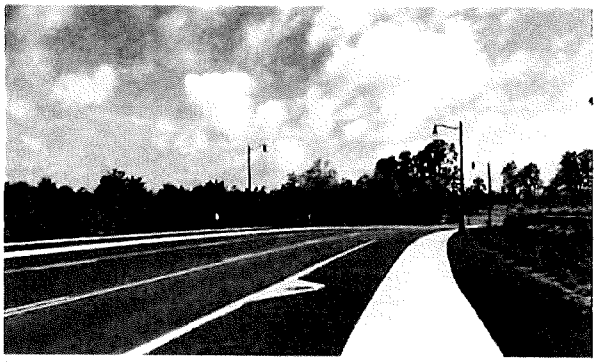
1200 Riverplace Blvd, Suite 600 | Jacksonville, FL 32207

Additional services may also be provided out of offices around the Southeast including:

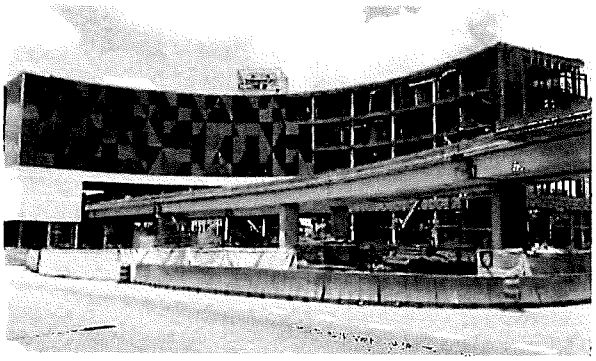
4902 Eisenhower Blvd, Suite 207 | Tampa, Florida 33634
3500 Parkway Lane | Peachtree Corners, GA 30092
49 Park of Commerce Way, Suite 203, Savannah, GA 31405

Awards & Accomplishments

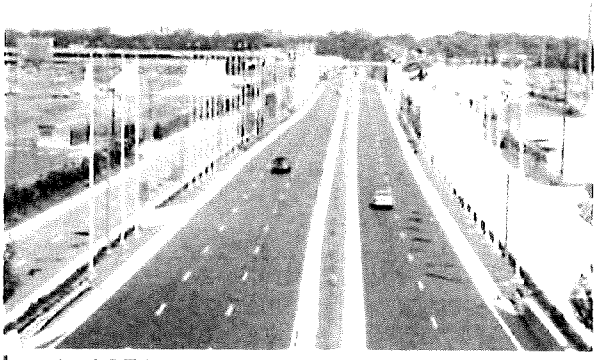
Pond takes pride in providing a quality design while meeting budget and schedule constraints. Pond's Quality and Management scores on recent FDOT projects is 3.6, while the average score for Schedule is a 3.8. In addition to receiving high marks on FDOT projects, Pond is proud to have been involved in numerous award winning projects. We take great pride in bringing our clients the most innovative designs possible while delivering exceptional projects. Some of our awards and accomplishments include:



Berckmans Rd Relocation & Intersection Design received the 2015 ACEC Honor Award



Jacksonville Regional Transportation Center received the 2017 AIA Jacksonville Award of Merit



2013 ACEC State Award & People's Choice Award for Improvements to Aviation Boulevard at Hartsfield-Jackson Atlanta Airport

POND

Tab 2 - Qualifications and Experience

Tab 2 - Qualifications and Experience

Firm's Ability to Produce Design Services

As experienced professionals who are very familiar with roadway design and improvements on County and State roads, we understand the unique aspects and constraints associated with the the safety improvements needed on CR 108. Our team is extremely well-suited to effectively address these issues because we have the experience to develop creative, yet practical, solutions while being mindful of budget, as well as availability and feasibility of construction methods and materials. The Pond Team has the capacity to perform the services required by this RFQ as evidenced by our recent, relevant experience. Our team has experience on design services that include:

- Roadway Design
- Pavement Design
- New Alignment
- Intersection Improvements
- Signalization Improvements
- ADA/Safety Improvements
- Sidewalk & Multi-Use Path Design
- Roundabout Design
- Drainage Design
- Signal & Sign Structure Design
- Bridge & Culvert Design
- Survey
- Geotechnical Engineering
- Environmental Assessments & Permitting
- Railroad Coordination
- Utility Coordination
- Post Design Services
- Public Involvement

Experience and Expertise of the Firm on Similar Projects

Pond brings together technical skills that make each project successful and the design acumen to make each project unique. Our transportation design group consists of highly-trained, experienced and responsive professionals who have built an outstanding reputation for excellence in quality and client satisfaction. Below is a listing of several projects with similar technical design elements completed by the Pond Team. Additional relevant projects performed by our team members are provided in the individual staff resumes located at the end of this section.

Project Name & Client	Roadway	Drainage	Signals/Traffic	Safety/ADA	Intersection Improvements	Utilities	County/Local Road
Wildlight Avenue Extension, *Nassau County Schools*	■	■		■	■	■	■
SR 189 RRR & Carmel Dr / Clifford St Intersection Improvements, *FDOT District 3*	■	■	■	■	■	■	■
San Pablo Widening, Jacksonville Transportation Authority	■	■	■	■	■	■	■
SR 292 at SR 727 & SR 295 at CR 298A Intersection Improvements, *FDOT District 3*	■	■	■	■	■	■	■
Blackrock Rd Intersection Improvements, *FDOT District 2*	■	■	■	■	■	■	■
SR 111 (Cassat Avenue) at SR 128 (San Juan Avenue) Signal Upgrade, *FDOT District 2*	■	■	■	■	■	■	
8th Street Corridor Improvements, *JTA*	■		■	■	■	■	■
SR 5 (US 1), Sidewalks & Lighting, *FDOT District 2*	■	■	■	■		■	
Avenida Menendez at Marina Mid-block Crossing, *City of St. Augustine*	■	■	■	■	■	■	■
SR 111 Resurfacing, *FDOT District 2*	■	■	■	■		■	

Firm's Ability to Communicate with Staff, Officials, Boards, Committees & the Public

The Pond Team clearly understands the importance of Communication in a multi-disciplinary project such as this. One of our top priorities is to effectively communicate with the County; internal staff and subconsultants; permitting and government agencies; and the stakeholders involved in the project. To do this, we utilize a three-tiered approach for communications: Design Team Coordination, Coordination with Nassau County staff, and Communication with Officials and the Public.

DESIGN TEAM COORDINATION

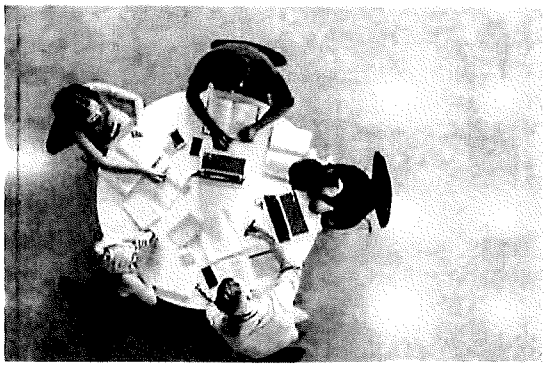
As each design discipline involved in the project provides the basis for subsequent design decisions, continuous coordination within the design team is a key factor to meeting the project schedule. In addition to ongoing QC procedures, progress meetings will be held to review comments and discuss optimal methods to address them. We will coordinate with adjacent public or private projects, including past projects that may have been shelved. Internal Communications involves weekly Pond staff meetings and bi-weekly team meetings during active design periods.

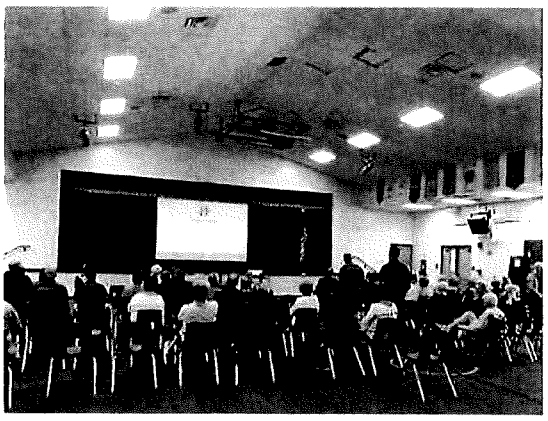
COORDINATION WITH NASSAU COUNTY

For communications with Nassau County, Ms. Carlton will be the primary contact point and will provide monthly progress reports on the design effort, along with schedule and budget updates. We will begin the project with a Kickoff Meeting to establish lines of communication between members of the County and Consultant team members, to identify key project issues and establish critical schedule dates.

COMMUNICATION WITH OFFICIALS & THE PUBLIC

We understand the importance of safety improvements on this segment of CR 108 running through the Town of Hilliard. External communications with Elected Officials, Boards, and the Public will be crucial to the success of this project. Stakeholders will be outlined at the beginning of the project and we will work closely with Nassau County Staff to ensure that these stakeholders are informed and involved as needed. This may include periodic updates to the Nassau County Commission, as needed. Further discussion of our public involvement capabilities are included in Tab 4 - Project Approach.





Experience with Budgets and Schedules

Pond has a long history of successfully designing transportation projects through strong project management. The first step in appropriately overseeing the schedule and budget of a project, is to provide a competent and experienced project manager. Tabatha Carlton, PE has proven to be a solid project manager who has worked for similar local government agencies over the past 28 years and understands not only the project elements but also the people element. Pond prides itself in understanding the needs of the Client by first listening to their concerns and issues. Our Project Management Approach and proposed project schedule is further discussed in Tab 4 - Project Approach, but below are some details related to schedule and budget management. Additionally, we understand this is a Local Agency Program (LAP) funded project that has a defined scope, schedule, and budget and will ensure we stay within the limits of all three.

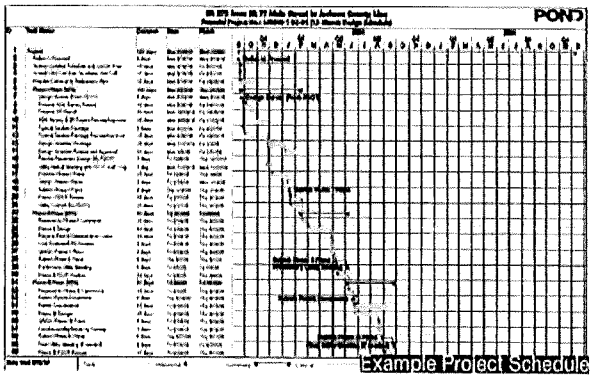
CAPABILITY TO MEET SCHEDULE

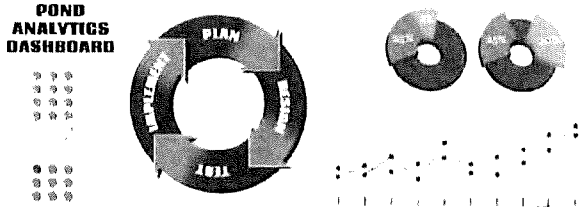
Our proposed core team for this project brings significant experience managing similar types of roadway safety projects. As such, we are able to effectively estimate the amount of time and effort that will be required to execute the proposed project with great success. Our team has ample workload availability to execute the tasks identified with this proposed project. Our Project Manager and Deputy Project Manager will be 100% available to work on this project by the anticipated Notice To Proceed in January 2021. We can also utilize additional Pond staff from multiple offices to accelerate the design efforts, if necessary.

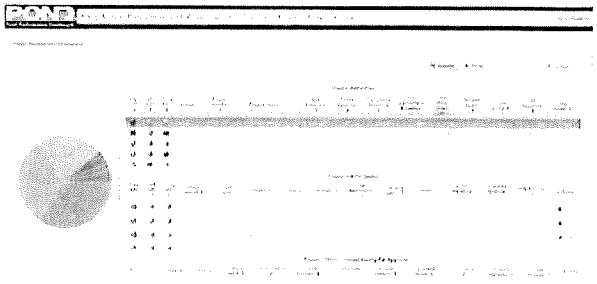
BUDGET MANAGEMENT

The key to successful budget management is experience and organization. Pond's depth of experience on similar projects has been outlined above and in our resumes in Tab 3. Our internal processes and procedures also play a large role in the success of our projects. We will tailor our communication and coordination plan method to all aspects of the project to stay on task and enhance quality, which minimizes risk to the projects budget and outcome.

Additionally, Pond has a PM handbook and requires all PMs to go through our in-house certification process. Budgets and schedules are required to be updated on a monthly basis, but can be updated weekly through our PM Dashboard. Progress on project deliverables is initialized and tracked utilizing OneNote Project Execution Checklists. We utilize the Newforma File Management software to track and store all submittals on the project, including emails. Additionally, Pond utilizes the Newforma Project Information Management software to manage the flow of electronic information within the design and owner team. With Newforma, we are able to file project emails and information in a single location; securely transfer project files to our clients and other project team members; track incoming and outgoing project deliverables such as submittals and RFIs, and create and track action items and punch list items through the completion of the project.







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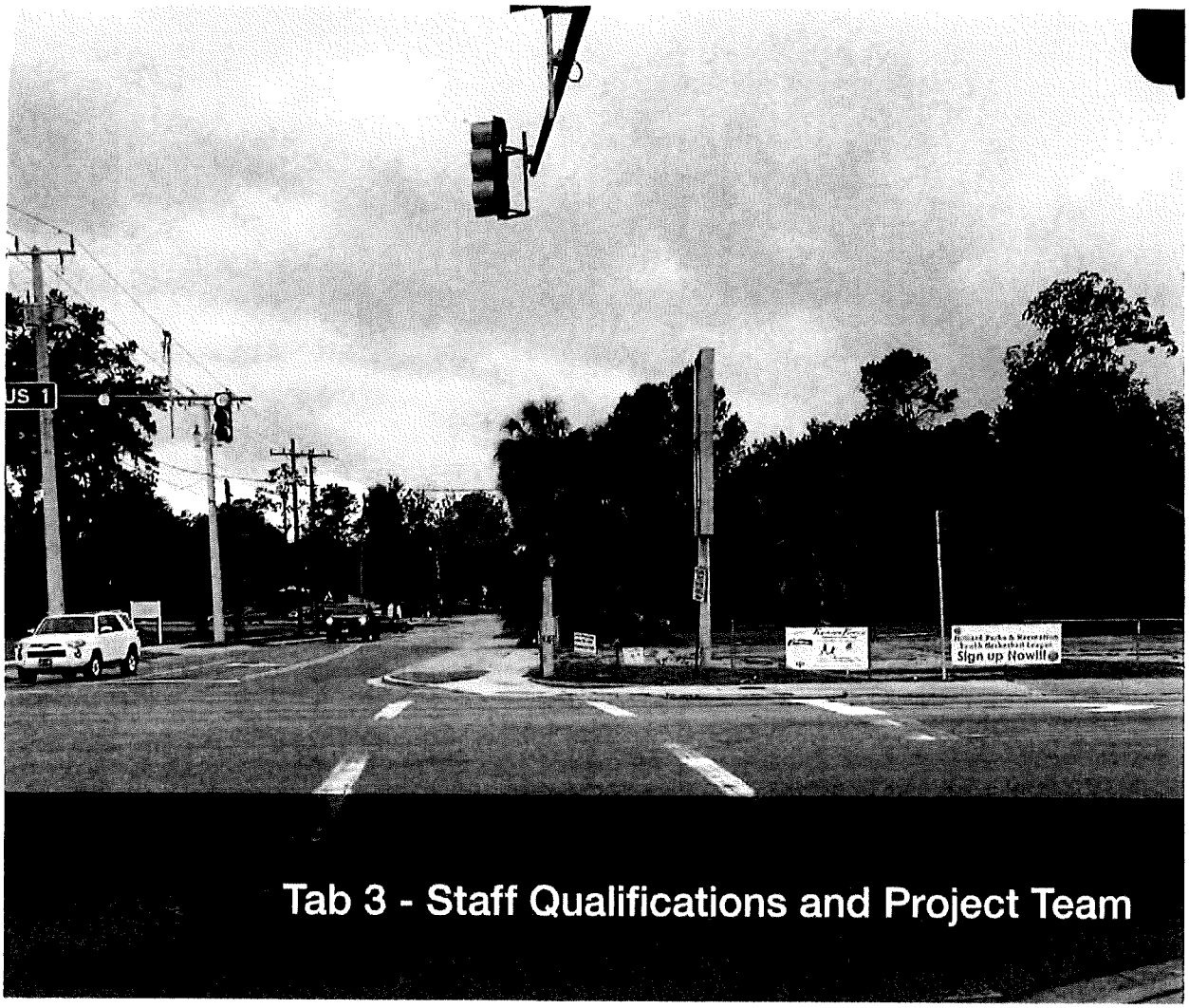


Tab 3 - Staff Qualifications and Project Team

Tab 3 - Staff Qualifications and Project Team

As experienced professionals who are very familiar with roadway design on County and local roads, we understand the unique aspects and constraints of this project including safety improvements, milling & resurfacing, drainage, intersection improvements, utility coordination, and funding considerations. Our extensive experience with similar projects allows us to develop creative yet practical solutions. Below you will find short biographies and a description of services to be performed by our Project Manager, Tabatha Carlton, PE, and key project team members proposed for this contract. An organizational chart and resumes can be found at the end of this section.

TABATHA CARLTON, PE - PROJECT MANAGER

Tabatha Carlton, PE will serve as Project Manager for this contract and be the primary contact with Nassau County. Ms. Carlton has 28 years of experience designing and managing projects for numerous municipalities and agencies. Ms. Carlton will oversee coordination with the subconsultants and Pond staff and be responsible for the daily operations of design. Ms. Carlton has worked on a range of projects including milling and resurfacing, safety improvements, intersection improvements, and drainage design.

NINA SICKLER, PE - PRINCIPAL-IN-CHARGE

Nina Sickler, PE will serve as Principal-in-Charge and will ensure all necessary resources are made available to successfully complete this project. Ms. Sickler's professional background includes project management, design, and inspection for a broad range of projects throughout the State including projects in Nassau County. Her management responsibilities also includes overseeing quality control and training programs for the Florida Operations of Pond .

ALBERTO IZQUIERDO - QA/QC MANAGER

Alberto Izquierdo, PE will serve as the Project QA/ QC Manager and will ensure a thorough and effective QA/ QC review is performed throughout the project design and production. Alberto has over 40 years of experience in the design of safety improvements, resurfacing, highways, drainage, signing and marking, and maintenance of traffic. Alberto's strong design and construction background allows him to create and utilize a customized QA/QC process on projects and to focus on constructability.

JUSTIN PHILLIPS, EI - DEPUTY PM

Justin Phillips, EI will serve as the lead roadway and Deputy Project Manager responsible for ensuring the design satisfies all applicable design criteria and that the project is constructible and biddable. Justin has 6 years of experience on numerous projects including safety improvements, sidewalk and intersection improvements, widening of urban and rural roadways, and roundabouts.

RICHARD FANGMANN, PE, PTOE - TRAFFIC ENG

Richard Fangmann, PE PTOE will lead the Safety Study/Road Safety Audit. Richard has over 28 years of traffic and transportation engineering experience. He is experienced in intersection design, traffic operations analysis, signal design, ITS and communications design, traffic simulation, traffic studies, interchange justification reports, and access management.

DAVID FINLEY, PE - SR. STRUCTURAL ENGINEER

David Finley, PE will serve as the Senior Structural Engineer and will ensure the structural design elements have been designed in accordance with all applicable design criteria. David has 36 years of structural engineering experience with extensive design of highway structures including box culverts, overhead sign structures, retaining walls, mast arms, and strain pole signal structures.

RUSSELL YAFFEE, PE, PTOE - TRAFFIC ENGINEER

Russell Yaffee, PE, PTOE is a Senior Traffic Engineer and will be responsible for the design of all traffic signal plans and ensure compatibility with Nassau County Standards. Mr. Yaffee has extensive experience in Nassau County including several projects on Miner Road.

MIKE MOLKENBUR, PE - DRAINAGE ENGINEER

Mike Molkenbur, PE will serve as Senior Drainage Engineer for this project and brings over 25 years of roadway and drainage design experience. His experience includes drainage conveyance systems and drainage treatment systems, stormwater permitting, pond siting reports, and the integration of roadway elements with drainage elements.

SAM KADI, PE - SR. LIGHTING ENGINEER

Sam is a Senior Lighting Engineer with 19 years of design and project management experience with a broad range of transportation infrastructure projects. His expertise includes lighting design, roadway design, traffic engineering including signal design, signing and pavement marking design, traffic studies, and traffic signal warrant studies.

DEREK GIL, PE - LAP & RR COORDINATOR

Derek Gil, PE will assist with LAP Coordination efforts to ensure the project is designed and completed on the schedule under the LAP agreement. Derek has managed ELEMENT's District Two LAP Program Contract since 2015. He has managed 63 LAP projects in the last 10 years. The lessons learned from supporting the District will prove invaluable.

ANTHONY CHAUMONT, PE - SAFETY AUDITS

Anthony Chaumont, PE will complete the Road Safety Audit/Safety Study tasks. Anthony worked in the development of FDOT's Off-System Road Safety Audit (RSA) program and has compiled RSA reports for more than 50 locations. He serves to identify crash locations for RSA studies, provides crash data analysis support for the District's SHS RSA program, and identifies candidate locations for implementation of proactive safety improvements.

BILL FAUST, PSM - SURVEYOR

Bill Faust, PSM will serve as the Surveyor of Record for this project and ensure the accuracy of the topographic information and R/W mapping for this project. Mr. Faust is a professional land surveyor with more than 31 years of experience in land surveying, construction layout, engineering design and project management.

BRUCE KHOSROZADEH, PE - GEOTECHNICAL

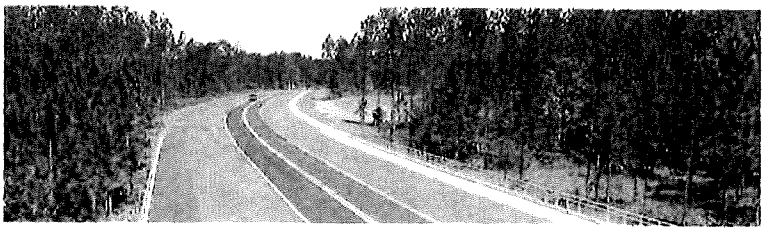
Bruce Khosrozadeh, PE is the Sr. Geotechnical Engineer and will be responsible for geotechnical reports and recommendations. Mr. Khosrozadeh has over 32 years of experience in geotechnical engineering, construction management and inspection, and materials testing services. Mr. Khosrozadeh has been engaged in performance of geotechnical studies for roadway and bridge projects, many in Nassau County.

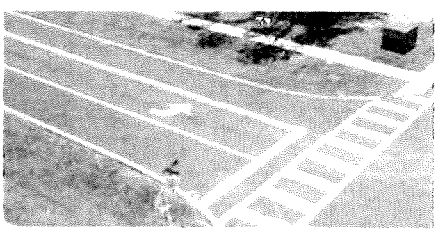
MICHAEL SAVAGE - ENVIRONMENTAL SCIENTIST

Michael Savage will serve as Sr. Environmental Scientist and will ensure all environmental documents are prepared in accordance with the applicable reviewing agency requirements to ensure all permits are obtained. Michael is an environmental scientist with 17 years of experience including Environmental Impact Statements and Environmental Assessments preparation following NEPA guidelines, preliminary site investigations, wetlands delineations, permitting and mitigation; water quality and benthic investigations; habitat and wildlife assessment; and endangered species assessments.

TERRY CREWS - SR. UTILITY COORDINATOR

Terry Crews will serve as Utility Coordinator and will ensure that all utility impacts are identified and resolved with the Utility Agency Owners or prepare necessary utility work schedules. Mr. Crews has 22 years of experience in the utility coordination field related to transportation design projects.





Organizational Chart

PROJECT MANAGER

Tabatha Carlton, PE (28)

PRINCIPAL-IN-CHARGE

Nina Sickler, PE (29)

DEPUTY PROJECT MANAGER

Justin Phillips, EI (6)
Deputy Project Manager

QUALITY ASSURANCE / QUALITY CONTROL

Alberto Izquerdo, PE (44)
QA/QC Manager

SURVEY & SUE

Bill Faust, PSM (31) *(DRMP)*
Surveyor of Record

GEOTECHNICAL

Bruce Khosrozadeh, PE (32) *(CSI)*
Sr. Geotechnical Engineer

John Iya, PE (25) *(CSI Geo)*
Geotechnical Engineer

ENVIRONMENTAL

Michael Savage (17)
Sr. Environmental Scientist

Kaili Stevens (8)
Environmental Scientist

UTILITY COORDINATION

Terry Crews (21) *(T2)*
Utility Coordinator

SAFETY STUDIES

Richard Fangmann, PE, PTOE (27)
Sr. Traffic Engineer

Matthew Weaver, PE (14) *(Element)*
Traffic Engineer

Anthony Chaumont, PE(13)*(Element)*
Traffic Engineer

ROADWAY & DRAINAGE

Arwin Lopez, PE (13)
Roadway Engineer

Mike Molkenbur, PE (25) *(PY)*
Drainage Engineer

Christian Morales, EI (4)
Roadway Engineer

Terri Becraft (32)
Roadway Designer

SIGNING, MARKING & SIGNAL DESIGN

Russell Yaffee, PE, PTOE (29) *(PY)*
Sr. Traffic Engineer

Wayne Petrone, PE (39) *(PY)*
Sr. Traffic Engineer

LIGHTING DESIGN

Karl Zimmerman, PE (34)
Sr. Lighting Engineer

Sam Kadi, PE (19) *(PY)*
Sr. Traffic Engineer

STRUCTURAL DESIGN

David Finley, PE (36)
Sr. Structural Engineer

LAP COORDINATION

Derek Gil, PE (26) *(Element)*
LAP Coordinator

Subconsultant Team

Peters & Yaffee (PY)
DRMP, Inc. (DRMP)
CSI Geo, Inc. (CSI)
Element Engineering Group, LLC (Element)
T2 Utility Engineers (formerly Cardno) (T2)

Tabatha Carlton, PE

Project Manager | Pond

Education
BS, Civil Engineering, Georgia Institute of Technology, 1992

Registration
Professional Engineer, Florida #57676

Professional Affiliations
Florida Engineering Society

Years Experience
28

(P) 813-327-5002, (E) CarltonT@pondco.com

Tabatha Carlton, PE has 28 years of transportation design and management experience. Ms. Carlton's professional background includes a broad range of projects including milling and resurfacing, safety & ADA improvements, intersection improvements, drainage design and permitting, signing and marking, and MOT. Ms. Carlton has recent project experience working in Nassau County including the NCSB Wildlight Avenue Extension.

Project Experience

NCSB Wildlight Avenue Extension, *Nassau County*
QA/QC: This project consists of a 1.5-mile new roadway alignment from SR 200 to a new school in Yulee, FL. This project includes a new profile and typical section, open and closed drainage, new utilities and multi-use path design, roadway design, multi-use path design, signing and pavement marking design and Specification Package creation.

Mid-block Crossing on Avenida Menendez at Marina Street serving the St. Augustine Municipal Marina, City of St. Augustine
Project Manager: The main purpose of the project is to enhance pedestrian access. Pond was tasked with developing a concept for this three-legged intersection and then preparing final design plans for construction. Unique elements of this design included incorporating the City of St. Augustine's Architectural guidelines for pavers and handrail coatings into the design, replacing steps with a pedestrian ramp, and providing a pedestrian detour during construction.

SR 189 RRR from Manring Drive to SR 188 / Racetrack Road, *FDOT District 3*
QA/QC: This project consisted of milling and resurfacing 1 mile of a 4-lane divided urban arterial and installing 4,280 LF of new sidewalk with limited R/W and utility conflicts in Fort Walton Beach, FL. This project includes, roadway design, sidewalk design, design exceptions and utility coordination.

SR 636 (Main Street) Resurfacing, *FDOT District 1*
Project Manager: Ms. Carlton managed the RRR design and plan production on seven miles of urban and rural roadway including addition of paved shoulders, safety improvements, guardrail, box culvert extensions, Stormwater Pollution Prevention Plan, and Signing and Marking Plans.

MobilityWorks San Pablo Widening, *JTA*
Project Manager: This project involves the widening of San Pablo Road from Beach Boulevard to Atlantic Boulevard in Jacksonville, Florida. Project tasks include 2.5 miles of road reconstruction and widening; adding turn lanes, bike lanes and sidewalk; R/W mapping and acquisition; drainage design and permitting; Maintenance of Traffic; and Public Involvement including a public meeting. This project also requires signal upgrades at Atlantic and Beach, new signal design at Osprey Point Drive, and the replacement of strain poles with mast arms.

8th Street Mobility Corridor, *JTA*
Project Manager: This project includes modifications to the 8th Street corridor adjacent to I-95 in Jacksonville, Florida associated with the JTA Complete Streets Study. These modifications include pedestrian improvements including crosswalks, ADA curb ramp improvements, pedestrian signal improvements, keyhole bike lanes, and shared lane bicycle markings. Additional tasks including milling and resurfacing and signal loop replacement.

Justin Phillips, EI

Deputy Project Manager & Roadway Design | Pond

Education
BS, Civil Engineering, University of North Florida, 2015

Professional Affiliations
American Society of Highway Engineers (ASHE)

Years Experience
6

(P) 904-396-3556, (E) PhillipsJ@pondco.com

Justin Phillips, EI has experience with a broad range of transportation design projects including sidewalk, multi-use paths, trail and trailhead, pedestrian safety improvements, and capacity projects throughout northeast Florida. Mr. Phillips has technical expertise with design and analysis software, specifically in Microstation and Geopak. Mr. Phillips was a key design team member for the Wildlight Avenue Extension for the Nassau County School Board.

Project Experience

NCSB Wildlight Avenue Extension, *Nassau County*
Project Engineer: This project consists of a 1.5-mile new roadway alignment from SR 200 to a new school in Yulee, FL. This project includes a new profile and typical section, open and closed drainage, new utilities, roadway design, multi-use path design, signing and pavement marking design and Specification Package creation.

8th Street Mobility Corridor, *JTA*
Project Engineer: This project includes modifications to the 8th Street corridor adjacent to I-95 in Jacksonville, Florida associated with the JTA Complete Streets Study. These modifications include safety and pedestrian improvements including crosswalks, ADA curb ramp improvements, pedestrian signal improvements, keyhole bike lanes, and shared lane bicycle markings. Additional tasks including milling and resurfacing and signal loop replacement.

SR 5 (US-1) Sidewalks and Lighting, *FDOT District 2*
Roadway Engineer: This project will add sidewalk and lighting along both sides of SR 5/US 1 from south of Bella Vista Boulevard to Big Oak Road in St. Johns County. POND is leading the design effort on this project. Challenging issues include limited R/W, drainage impacts, utility impacts, and archeological concerns.

SR 189 RRR from Manring Drive to SR 188 / Racetrack Road, FDOT District 3
Project Engineer: This project consisted of milling and resurfacing 1 mile of a 4-lane divided urban arterial and installing 4,280 LF of new sidewalk with limited Right of Way and utility conflicts in Fort Walton beach, FL. This project includes, roadway design, sidewalk design, design exceptions and utility coordination.

Signal Upgrade Projects, *FDOT District 2*
Project Engineer: Pond completed signal upgrades on several intersections in Jacksonville. The first, SR 11 at SR 128 consisted of upgrading the traffic signals and ADA features at the intersection of SR 111 and SR 128. This project includes R/W acquisition, miscellaneous roadway design, temporary traffic control design, signal design, SAPM design and utility coordination. The second, SR 10 at Empire Point included upgrading the traffic signals and ADA features at the intersection of SR 10 and Empire Point. This project includes R/W acquisition, miscellaneous roadway design, temporary traffic control design, signal design, SAPM design and utility coordination.

Nina Sickler, PE

Principal-in-Charge | Pond

Education
BS, Civil Engineering, Georgia Institute of Technology, 1991

Registration
Professional Engineer, Florida #52405

Professional Affiliations
American Society of Highway Engineers (Past President)
Florida Institute of Consulting Engineers, Florida Engineering Society, WTS

Years Experience
29

(P) 904-396-3556, (E) SicklerN@pondco.com

Nina Sickler, PE has more than 29 years of experience designing & managing capital programs for Government Agencies, with particular emphasis on community development and transportation projects. Her professional background includes project management, design, and inspection for a broad range of projects throughout the State of Florida. Her management experience includes overseeing quality control and training programs for the Florida Operations of Pond & Company.

Project Experience

SR 200 from Stratton Rd to Griffin Rd, *FDOT District 2*
Principal-in-Charge: Pond Staff was part of the design team for the widening of SR 200 from two-lanes to four-lanes from Stratton Road to Griffin Road in Nassau County. The project included roadway widening and reconstruction, bridge replacements, drainage and permitting, and Maintenance of Traffic. Pond Staff's responsibilities included roadway and structures peer review and development of the Bridge Hydraulic Reports for two bridge replacements.

I-75 from North of US 441 to Columbia County Line, *FDOT District 2*
Project Manager: This project included eight miles of milling and resurfacing of I-75 in Alachua County. Project tasks include roadway, drainage, structures, signing & marking, and bridge mounted signs. The project requires cross slope correction to improve drainage and reduce wet weather accidents and the addition of guardrail. The MOT plan includes details of milling and resurfacing operation and includes a detour plan for the CR 236 interchange.

NCSB Wildlight Avenue Extension, *Nassau County*
Principal-in-Charge: This project consists of a 1.5-mile new roadway alignment from SR 200 to a new school in Yulee, FL. This project includes a new profile and typical section, open and closed drainage, new utilities, roadway design, multi-use path design, signing and pavement marking design and Specification Package creation.

8th Street & 14th Street Resurfacing, *FDOT District 2*
Project Manager: This project included resurfacing of 8th and 14th Street in Nassau County. Tasks included asphalt overlay, drainage improvements, bridge railing retrofit, guardrail improvements and signing and pavement markings. The project received a final CPPR score of 102.

Blackrock Road Interchange Improvements, *FDOT District 2*
Project Engineer and QA/QC: This project consisted of an intersection improvement to add a turn lane at SR 200/Blackrock Road in Nassau County. Project tasks included roadway design, structures design, signing and marking, signalization, maintenance of traffic, drainage and utility coordination.

Alberto Izquierdo, PE

QA/QC Manager | Pond

Education
Civil Engineering, University of Puerto Rico, 1976

Registration
Professional Engineer, Florida #43616

Professional Affiliations
American Concrete Institute

Years Experience
43

(P) 904-396-3556, (E) izquierdoa@pondco.com

Alberto Izquierdo, PE has more than 43 years of civil and structural project management and engineering, construction cost estimates, specifications preparation and contract administration, with a strong focus on FDOT and infrastructure projects. With over 17 years of field inspection combined with his structural design experience, Mr. Izquierdo brings an ideal combination of skills to ensure delivery of high quality, thorough, and timely plans and reports which are compatible with FDOT requirements. In addition, Mr. Izquierdo's strong design and project management background allows him to create and utilize a customized QA/QC process on each project.

Project Experience

MobilityWorks San Pablo Widening, *JTA*
QA/QC: This project involves the widening of San Pablo Road from Beach Boulevard to Atlantic Boulevard in Jacksonville, Florida. Project tasks include 2.5 miles of road reconstruction and widening; adding turn lanes, bike lanes and sidewalk; R/W mapping and acquisition; drainage design and permitting; Maintenance of Traffic; and Public Involvement including a public meeting. This project also requires signal upgrades at Atlantic and Beach, new signal design at Osprey Point Drive, and the replacement of strain poles with mast arms.

JTA MobilityWorks Roundabout at University Blvd & Merrill Blvd, *JTA*
QA/QC Manager: Pond is currently completing the design for this TURBO Roundabout to replace the existing intersection of University Blvd and Merrill Road in Jacksonville. This project was identified as part of the JTA MobilityWorks Complete Streets Initiative. As part of the design project, Pond performed analysis of the roundabout and other intersection improvements and conducted extensive community outreach. Project tasks include roadway and drainage design, permitting, pavement design, landscape design, utility coordination, right-of-way acquisition, and public involvement.

Loest Road over Long Branch, *City of Jacksonville*
QA/QC Manager: This project includes the emergency replacement of the bridge carrying Loest Road over Long Branch in Duval County, Florida. The bridge was damaged during Hurricane Irma and the replacement design was completed. The replacement structure will be a triple 10x5 bridge culvert with two 10 ft. lanes with 2 ft. paved shoulders. Additional tasks include roadway design, structural design, drainage design, MOT including a temporary on-site diversion.

SR 21 Blanding Blvd from N of Wells Rd to Collins Rd, *FDOT District 2*
Project Engineer: The project includes the construction of approximately 7,000 linear feet of sidewalk on NB and SB sides of SR 21/Blanding Boulevard from Wells Road to Collins Road. New crosswalks were provided at ramps at the I-295 interchange as well as at two locations across SR 21. Pond Staff eliminated the need to widen the bridge over McGirts Creek by narrowing travel lanes and shoulders on the bridge. This project also includes signing & pavement marking plans, pedestrian signal plans, drainage design for several new side drains and ditch capacity verification where sidewalk fill encroaches into existing ditches.

Richard Fangmann, PE PTOE

Senior Traffic Engineer | Pond

Education

MS, Civil Engineering, Georgia Institute of Technology, 1992

BS, Civil Engineering, Georgia Institute of Technology, 1991

Registration

Registered Professional Engineer, Florida #78263, Georgia #22957

Professional Affiliations

Institute of Transportation Engineers, American Council of Engineering Companies (ACEC), GA Partnership for Transportation Quality (GPTQ)

Years Experience

28

(P) 813-327-5002, (E) FangmannR@pondco.com

Richard Fangmann, PE PTOE is a professional engineer with 28 years of experience in transportation engineering and planning. He is experienced in intersection design and operations, traffic operations analysis, traffic signal design, ITS and communications design, traffic simulation, traffic studies, interchange justification reports, and access management. He has prepared traffic and transportation studies for corridors and intersections, as well as City and County wide studies.

Project Experience

San Pablo Widening, *JTA*

Sr. Traffic Engineer: This project involves the widening of San Pablo Road from Beach Boulevard to Atlantic Boulevard in Jacksonville, Florida. Project tasks include 2.5 miles of road reconstruction and widening; adding turn lanes, bike lanes and sidewalk; R/W mapping and acquisition; drainage design and permitting; Maintenance of Traffic; and Public Involvement including a public meeting. This project also requires signal upgrades at Atlantic and Beach, new signal design at Osprey Point Drive, and the replacement of strain poles with mast arms.

Berckmans Road Safety Improvements, *City of Augusta*

Sr. Traffic Engineer: This project included operational analysis of signalized and unsignalized intersections using Synchro software. Intersections along the congested Washington Road corridor were included in the analysis. Richard led detailed traffic analysis of the intersection which confirmed the operation of a roundabout and prepared materials for and presented the roundabout solution in a public meeting. The displayed materials included videos of similar roundabouts in operation for the community to see how the roundabout may operate.

Complete Streets Corridor Projects, *JTA*

Sr. Transportation Engineer: Richard is serving as senior transportation engineer for this project to develop complete streets plans and conceptual designs for three corridors in Jacksonville, FL. Recommendations for the first corridor include: road diets, bus stop modifications, pedestrian crossing upgrades, midblock pedestrian crossings, roundabouts, bike lanes, and multi-use trails.

Continuing Contract, City of St. Augustine

Project Manager: Richard led several studies for the City under this continuing contract. One representative task included the North Davis Shores Neighborhood Study where Pond worked with the historic community to identify potential solutions to speeding, cut-through traffic, and overflow parking concerns. Several solutions ranging from small tactical modifications to larger infrastructure investments were proposed to provide an appropriate range of potential solutions to the neighborhood. Another representative task included a study along Leonardi Street on the west side of St. Augustine, which was suffering from high-speed cut through traffic along the narrow residential street. Pond worked with residents and businesses to identify improvements that would improve safety on the road while maintaining crucial access for businesses and emergency vehicles.

Arwin Lopez, PE

Roadway Engineer | Pond

Education
BS, Civil Engineering, Florida International University, 2005

Registration
Professional Engineer, Florida #73159

Professional Affiliations
American Society of Highway Engineers (ASHE)

Years Experience
13

(P) 678-336-7740, (E) LopezA@pondco.com

Arwin Lopez, PE has 13 years of experience serving as a Roadway Engineer. He has worked on numerous projects with varying complexities. He has worked on State, County, and local municipal projects from concept phase to final plans and has also provided construction administration support for projects he has designed. Project experience includes new alignments, sidewalk and intersection improvements, widening of urban and rural roadways, and roundabouts. Arwin has worked on several intersection improvement projects where he has evaluated various intersection configurations such as roundabout, jug-handle intersection, continuous green T intersection, and traditional signalized intersection.

Project Experience

MobilityWorks San Pablo Widening, *JTA*
Project Engineer: This project involves the widening of San Pablo Road from Beach Boulevard to Atlantic Boulevard. Project tasks include 2.5 miles of road reconstruction and widening; adding turn lanes, bike lanes and sidewalk; R/W mapping and acquisition; drainage design and permitting; MOT; and Public Involvement including a public meeting. This project also requires signal upgrades at Atlantic and Beach, new signal design at Osprey Point Drive, and the replacement of strain poles with mast arms.

New World Avenue Extension to Chaffee Road Design Build, *City of Jacksonville*
Project Engineer: Pond was the lead design firm on this Design-Build project for the 1.5-mile extension of New World Avenue to Chaffee Road. New World Avenue is a 4-lane divided facility. This project will construct just the eastbound lanes, but the ponds and cross drains will be sized for the ultimate 4-lane section. Other tasks include: improvements at Chaffee Road, SAPM, lighting, and landscaping design and construction support.

NCSB Wildlight Avenue Extension, *Nassau County*
Project Engineer: This project consists of a 1.5-mile new roadway alignment from SR 200 to a new school in Yulee, FL. This project includes a new profile and typical section, open and closed drainage, new utilities, roadway design, multi-use path design, signing and pavement marking design and Specification Package creation.

SR 5 (US-1), Sidewalks & Lighting, *FDOT District 2*
Project Engineer: This project will add sidewalk and lighting along both sides of SR 5/US 1 from south of Bella Vista Boulevard to Big Oak Road in St. Johns County. Pond is leading the design effort on this project. Challenging issues include limited R/W, drainage impacts, utility impacts, and archeological concerns.

SR 189 RRR from Manring Drive to SR 188 / Racetrack Road, *FDOT District 3*
Project Engineer: This project consisted of milling and resurfacing 1 mile of a 4-lane divided urban arterial and installing 4,280 LF of new sidewalk with limited R/W and utility conflicts in Fort Walton Beach, FL. This project includes, roadway design, sidewalk design, design exceptions and utility coordination.

Christian Morales, EI

Roadway Design | Pond

Education
BS, Civil Engineering, University of North Florida, 2017

Professional Affiliations
American Society of Highway Engineers (ASHE)

Years Experience
4

(P) 904-396-3556, (E) MoralesC@pondco.com

Christian Morales, EI has experience with a broad range of transportation design projects including sidewalk, multi-use paths, trail and trailhead, pedestrian safety improvements, and capacity projects throughout northeast Florida. Mr. Morales has technical expertise with design and analysis software, specifically in Microstation and Geopak. Mr. Morales assisted with the design for both the Wildlight Avenue Extension for the Nassau County School Board and the New World Avenue Extension.

Project Experience

NCSB Wildlight Avenue Extension, *Nassau County*
Project Engineer: This project consists of a 1.5-mile new roadway alignment from SR 200 to a new school in Yulee, FL. This project includes a new profile and typical section, open and closed drainage, new utilities, roadway design, multi-use path design, signing and pavement marking design and Specification Package creation.

MobilityWorks San Pablo Widening, *JTA*
Project Engineer: This project involves the widening of San Pablo Road from Beach Boulevard to Atlantic Boulevard. Project tasks include 2.5 miles of road reconstruction and widening; adding turn lanes, bike lanes and sidewalk; R/W mapping and acquisition; drainage design and permitting; MOT; and Public Involvement including a public meeting. This project also requires signal upgrades at Atlantic and Beach, new signal design at Osprey Point Drive, and the replacement of strain poles with mast arms.

8th Street Mobility Corridor, *JTA*
Project Engineer: This project includes modifications to the 8th Street corridor adjacent to I-95 in Jacksonville, Florida associated with the JTA Complete Streets Study. These modifications include safety and pedestrian improvements including crosswalks, ADA curb ramp improvements, pedestrian signal improvements, keyhole bike lanes, and shared lane bicycle markings. Additional tasks including milling and resurfacing and signal loop replacement.

Mid-block Crossing on Avenida Menendez, *City of St. Augustine*
Project Engineer: The main purpose of the project is to enhance pedestrian access. Pond was tasked with developing a concept for this three-legged intersection and then preparing final design plans for construction. Unique elements of this design included incorporating the City of St. Augustine's Architectural guidelines for pavers and handrail coatings into the design, replacing steps with a pedestrian ramp, and providing a pedestrian detour during construction.

Emerald Trail, *City of Jacksonville*
Project Engineer: Pond has been selected to provide design services on the 30-mile trail network project that will connect at least 14 historic neighborhoods to the downtown area and the North and Southbank riverwalks. The project includes signal design, geotechnical investigations, structural design, traffic control, lighting and landscape design, as well as public art and interactive elements.

SR 5A/Nova Rd Milling & Resurfacing, *FDOT District 5*
Project Engineer: The project included the resurfacing of SR 5A from Brentwood Drive to Flomich Street for 2 miles and an additional 0.74 miles on Frontage Road. Pond provided a designated bike lane on both sides of SR 5A by reducing lanes to 11' in width. The project also included signalization plans, signing & pavement marking plans, utility coordination, temporary traffic control plans, survey & SUE, and public involvement.

Terri Becraft

Senior Roadway Designer | Pond

Training
Advanced Work Zone Traffic Control
FDOT Specifications Preparation Training

Additional Skills
Microstation, GeoPak, Project Wise, Quantity Manager, AutoTurn, MS Office

Years Experience
36

(P) 904-396-3556, (E) becraftt@pondco.com

Terri Becraft has 36 years of experience in the transportation engineering industry. Her experience on transportation projects include, roadway & drainage design, Maintenance of Traffic, Signing and Pavement Marking, ITS, utilities, and plans production. Her experience in highway design include federal, state, and local roadway systems ranging from 2-lane local collector roads to major interchanges. She is certified in Work Zone Traffic Control and is experienced with Specifications Preparation and Digital Delivery for FDOT projects. Ms. Becraft has advanced technical skills specifically in Microstation and Geopak.

Project Experience

8th Street Mobility Corridor, *JTA*
Sr. Roadway Designer: This project includes modifications to the 8th Street corridor adjacent to I-95 in Jacksonville, Florida associated with the JTA Complete Streets Study. These modifications include pedestrian improvements including crosswalks, ADA curb ramp improvements, pedestrian signal improvements, keyhole bike lanes, and shared lane bicycle markings. Additional tasks including milling and resurfacing and signal loop replacement.

MobilityWorks San Pablo Widening, *JTA*
Senior Roadway Designer: This project involves the widening of San Pablo Rd from Beach to Atlantic Blvd. Project tasks include 2.5 miles of road reconstruction and widening; adding turn lanes, bike lanes and sidewalk; R/W mapping and acquisition; drainage design and permitting; MOT; and Public Involvement. This project also requires signal upgrades at Atlantic and Beach, new signal design at Osprey Point Dr, and the replacement of strain poles with mast arms.

SR 636 (Main Street) Resurfacing, *FDOT District 1*
Sr. Roadway Designer: Designer for the preparation of construction documents on seven miles of urban and rural roadway including addition of paved shoulders, safety improvements, guardrail, box culvert extensions, Stormwater Pollution Prevention Plan, and Signing and Marking Plans.

CR 18 Trail and Trailhead, *FDOT District 2*
Project Designer: This project consists of a 6-mile long asphalt trail within a current FDEP rails to trails corridor. This project encompasses Segments 3A, 3B, & 3C of the Palatka to Lake Butler Trail. Issues along Segment 3A included relocation of the trailhead, driveway encroachments, minor wetland impacts. Segment 3B included the replacement of an old railroad bridge with a box culvert to facilitate the future realignment on 49th Street. Segment 3C includes the replacement of an old railroad bridge over Double Run Creek with a weathered steel structure and designing a mid-block crossing at SR 100 to align with Segment 3D that has already been constructed. This project required extensive coordination with CSX railroad, City of Hampton, and Bradford County.

SR 35 NB/US 17 Resurfacing, *FDOT District 1*
Sr. Roadway Designer: Designer for the preparation of construction documents on one-mile section of a one-way urban roadway. This project included the replacement of sidewalks, curb cut ramps, and driveways to bring the corridor into compliance with current ADA standards. This project also included major drainage improvements along the corridor based on planned improvements to the entire drainage basin.

M. David Finley, PE

Structural Engineer | Pond

Education
BS, Civil Engineering, University of Florida, 1984

Registration
Professional Engineer, Florida #40119

Professional Affiliations
Florida Engineering Society, National Society of Professional Engineers

Years Experience
36

(P) 904-396-3556, (E) FinleyD@pondco.com

David Finley, PE is a registered professional engineer with 36 years of structural engineering experience. His bridge design experience includes prestressed concrete girder bridges, flat slab bridges, and steel plate girder bridges. His bridge projects include new construction, widenings, rehabilitation, and repairs. His highway structures experience includes box culverts, overhead sign structures, retaining walls, mast arms, and strain pole signal structures.

Project Experience

Districtwide Miscellaneous Design Contract, *FDOT District 3*
Sr. Structural Engineer: Pond Staff is currently providing structural design support for this District 3 Miscellaneous Minor Design Contract. A representative task work order includes the design of four mastarms at the intersection of US 98 and Cauley Avenue in Bay County. An additional task work order completed under this contract was the design of spread footings for light poles to resolve potential utility conflicts on SR 69 (Pear Street) from Blountstown High School to South of Pine Street.

US 17/92 Design-Build, *FDOT District 5*
Structural Engineer of Record: This project included the design of 28 mast arms with drilled shaft foundations along US 17/SR 92 in Volusia County. Special foundations were required at some locations to resolve utility conflicts.

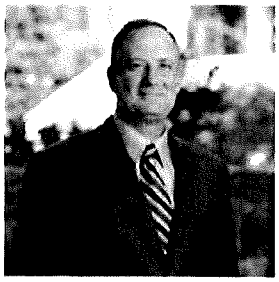
Standard Mast Arm Drawings, *Seminole County*
Structural Engineer of Record: Project work included the development of standard drawings for decorative mast arms to be used throughout Seminole County. Drawings have been updated periodically as AASHTO/FDOT criteria was revised. The drawings allow for the selection of pre-designed drilled shaft foundations based upon structure base reactions and site soil conditions.

CR 259 Bridge over Ward Creek Replacement, *FDOT District 3*
QA/QC: The project involves the replacement of a structurally deficient 135 ft. long, 9-span, cast-in-place concrete bridge on timber piles with a new concrete structure along with all associated roadway, drainage, permitting, and utility work. The replacement bridge is a 160 ft. long, 3-span bridge comprised of prestressed slab beams with a concrete topping. Approximately 800 ft. of roadway was reconstructed to accommodate a higher required bridge elevation and to provide 11 ft. lanes and 6 ft. shoulders with guardrail. A temporary on-site diversion with temporary bridge was utilized to convey traffic during removal of the existing bridge and construction of new bridge on the existing alignment.

Loest Road over Long Branch, *City of Jacksonville*
QA/QC: This project includes the emergency replacement of the bridge carrying Loest Road over Long Branch. The bridge was damaged during Hurricane Irma and the replacement design was completed. The replacement structure will be a triple 10x5 bridge culvert with two 10 ft. lanes with 2 ft. paved shoulders. Additional tasks include roadway design, structural design, drainage design, MOT including a temporary on-site diversion, and SAPM.

Karl Zimmerman, PE, RCDD, CEM, LEED AP

Lighting Engineer | Pond



Education
BS, Electrical Engineering, Georgia Institute of Technology, 1985

Registration
Professional Engineer, Florida #64479

Years Experience
35

(P) 678-336-7740, (E) ZimmermanK@pondco.com

Karl Zimmerman, PE, RCDD, CEM, LEED AP has more than 35 years of experience in electrical engineering. He has extensive experience in design of electrical and communications systems for a wide variety of government, institutional, military and industrial facilities. He is a member of National Fire Protection Association and has certifications as Certified Energy Manager (CEM), Registered Communications Distribution Designer (RCDD) and LEED AP. Karl performs short circuit, protective coordination, and arc flash risk assessments and is experienced in the design of copper and optical fiber cabling systems to support non-secure and secure networks.

Project Experience

MobilityWorks San Pablo Widening, *JTA*
Lighting EOR: This project involves the widening of San Pablo Rd from Beach Blvd to Atlantic Blvd. Project tasks include 2.5 miles of road reconstruction and widening; adding turn lanes, bike lanes and sidewalk; R/W mapping and acquisition; drainage design and permitting; MOT; and Public Involvement. This project also requires signal upgrades at Atlantic and Beach, new signal design at Osprey Point Drive, and the replacement of strain poles with mast arms.

New World Avenue Extension to Chaffee Road Design Build, *City of Jacksonville*
Lighting Engineer: Pond was the lead design firm on this Design-Build project for the 1.5-mile extension of New World Avenue to Chaffee Road. New World Avenue is a 4-lane divided facility. This project will construct just the eastbound lanes, but the ponds and cross drains will be sized for the ultimate 4-lane section. Other tasks include: improvements at Chaffee Road, SAPM, lighting, and landscaping design and construction support.

SR 5 (US-1), Sidewalks & Lighting, *FDOT District 2*
Lighting EOR: This project will add sidewalk and lighting along both sides of SR 5/US 1 from south of Bella Vista Boulevard to Big Oak Road in St. Johns County. Pond is leading the design effort on this project. Challenging issues include limited R/W, drainage impacts, utility impacts, and archeological concerns.

CR 18 Trail and Trailhead, *FDOT District 2*
Lighting EOR: This project consists of a 6-mile long asphalt trail within a current FDEP rails to trail corridor. Other features include a trailhead with information kiosk and lighted parking area, and multiple pedestrian bridges where the trail crosses existing wetlands.

Hastings Trailhead, *FDOT District 2*
Lighting EOR: This project consists of a new trail and trail head along SR 207. This project includes site design and drainage, a restroom building, new utility design, multi-use path design, a lighted paved parking area, stormwater retention, security gate with ornamental fencing, sidewalks, and approximately 1000' of raised boardwalk trail with interpretive signage. Mr. Zimmerman was responsible for the lighting photometrics and site electrical design.

SR 22, Roadway Widening and Improvements with Raised Median, *FDOT District 3*
Lighting EOR: This capacity improvement project primarily consists of widening SR 22 from 2 to 4 lanes from SR 30 (US 98B) to CR 2315 (Star Avenue). The proposed typical section shall consist of an urban section with one 12' outside travel lane and one 11' inside travel lane in each direction separated by a 22' raised median. 4' bicycle lanes will be constructed on each side of the roadway, along with 6' sidewalk adjacent to the curb and gutter. Pond is responsible for the lighting design on this project.

Michael Savage

Sr. Environmental Scientist | Pond

Education

BS, Marine Biology, Texas A&M University, 2002

Years Experience

17

(P) 904-396-3556, (E) savagem@pondco.com

Michael Savage is an Environmental Services Project Manager who leads the efforts of engineers, planners and scientists to effectively provide renewable energy, power, land development and agriculture sector clients with innovative solutions to challenging environmental issues. He has managed projects for thousands of Megawatts (MW) of clean, renewable solar energy, as well as transmission line corridors, commercial, industrial and residential developments, enforcement/ litigation, and wetland and surface water restoration. His extensive experience includes feasibility studies, local, state and federal environmental permitting and entitlement, biological studies and Endangered Species Act permitting, cultural resources assessments and State Historic Preservation Office concurrence, wetland delineation, functional assessment and mitigation planning, glint and glare analysis and FAA and DOD clearance, and natural gas pipeline, power plant and transmission line Siting. Michael's 17 years of public and private sector regulatory experience has resulted in strong professional relationships with agency regulators. These well established relationships allow for Michael to anticipate regulatory pitfalls, deliver clean and efficient deliverables and seamlessly navigate the complex web of environmental regulations.

Project Experience

Jackson 5 Solar Sites; Confidential Client: Marketing Executive and Project Manager. Conducted comprehensive permitting services in support of the development of five 50-MW solar facilities for JEA. Services included: site due diligence and critical issues analyses, Dossier recommendations, Phase I Environmental Site Assessments, Phase I Cultural Resources Assessments, local land use and zoning support, wetland delineations, listed species surveys, Alta and topographic surveys, geotechnical investigations, civil engineering and design, construction plan approval, photosimulations and public outreach, state environmental resource permitting, well and septic permitting, driveway and road improvement permitting.*

Jekyll Island Authority Wetland Permitting and Mitigation Banking Master Plan: Project Manager. Pond is providing environmental consulting support for completion of the Jekyll Island Golf Master Plan. Pond is responsible for determining potentially regulated resources on or near the site, identifying environmental concerns and regulated resources, screening of potential jurisdictional resources, environmental feasibility studies, GIS mapping, and permitting assistance.

City of Palm Coast, Environmental Services for New Public Works Facility: Environmental Lead. Michael is leading Pond's environmental efforts for the design of the new 177,000 SF public works project. The newly developed site will include administrative space, a vehicle maintenance shop, associated parking for employees and visitors, and three retention ponds.

Duval-Raven 230-kV Transmission Line Permitting; FPL; FDEP: Project Manager Project involved permitting of a 39-mile-long transmission line in Duval, Nassau, Baker and Columbia counties, Florida. Provided FDEP review of the wetland delineations, environmental impact statements, sovereign submerged lands easement, compensatory mitigation plan and cumulative impact assessment under the state's Transmission Line Siting Act certification. Worked with applicant and consultants to address heightened public concerns through public education and information sessions. Coordinated review with U.S. Army Corps of Engineers, state and federal fish and wildlife agencies and the state historic preservation officer.*

Kaili Stevens

Environmental Scientist | Pond

Education

MS, Natural Resources, University of Delaware, In-Progress

BS, Forest Resources and Wildlife Biology, University of Georgia, 2012

Registration

Level 1A Georgia Soil and Water Conservation

EPA Lead Inspector

EPA Asbestos Inspector

Authorized Gopher Tortoise Agent

Years Experience

8

(P) 904-396-3556, (E) stevensk@pondco.com

Kaili is an Environmental Field Lead and Regulatory Specialist with significant experience on linear energy projects. Her expertise includes waters delineation, environmental liabilities evaluation, Section 401/404 permitting, Endangered Species Act studies, state and local stream buffer identification and permitting, botanical and zoological surveys, Phase 1 assessments, NEPA analysis and documentation, and GIS/ GPS applications. Kaili has delineated and permitted more than 100 miles of natural gas pipelines in the southeast as well as many other linear and site projects for energy, industrial, development, and government projects.

Project Experience

FPU – Calpine Phase 1 Environmental Site Assessment, Auburndale, FL: Scientist II. Kaili performed a Phase 1 Environmental Site Assessment to determine potential environmental liabilities or concerns associated with the acquisition of properties involved in the Calpine and Auburndale Power Partners easements. This site visit was also used to evaluate waters of the US within the site, potential endangered species habitat, and identify the needs for any further survey or sampling analysis. She thoroughly reviewed environmental databases for historic records of hazardous materials on, and adjacent, to the subject property.

Florida Public Utilities (FPU) – Westlake to Arden Pipeline, Palm Beach County, FL: Scientist II. Kaili Stevens performed pre-site desktop investigations and conducted a field visit to delineate waters of the US and state waters located within the proposed easements, potential endangered species habitat, and any further environmental constraints to influence the proposed pipeline alignment. Kaili also coordinated with various state agencies and management districts to secure appropriate permits for project success.

AGL Resources – Paulding Tap & Main Pipeline, Douglas & Paulding Counties, GA: Scientist II. Kaili conducted the desktop survey and waters delineations and worked to create technical reports and permit applications for this approximately 6-mile pipeline. She also prepared the NPDES Notice of Intent (NOI) and Erosion, Sedimentation, and Pollution Control (ES&PC) plan for the project and compiled the environmental construction manual (ECM) for the on-site contractors.

FPU – Westlake to Arden Pipeline, Palm Beach County, FL: Pond Environmental Services team performed a field visit to delineate waters of the US and state waters located within the proposed easements, potential endangered species habitat, and any further environmental constraints to influence the proposed pipeline alignment. Pond ES secured permits for work through various state agencies.

Russell Yaffee, PE PTOE

Sr. Traffic Engineer | Peters & Yaffee

Education
BS, Civil Engineering, Tulane University, New Orleans, LA, 1991

Registration
Professional Engineer, Florida #64513

Years Experience
29

(P) 904-265-0751, (E) RYaffee@petersandyaffee.com

Russell Yaffee, PE PTOE is a project manager/senior traffic engineer with over 29 years of experience in both the public and private sectors. He is experienced in the preparation of traffic impact studies, level of service analysis, pavement marking design and parking lot layout and design. In addition, Mr. Yaffee has extensive sign design experience including construction detour signs, guide signs, motorist information signs, wayfinding signage systems and trailblazing signage systems, as well as experience in intelligent transportation systems, including ramp metering design, variable message sign design and lane use signal design. Mr. Yaffee is a member of the National Committee on Uniform Traffic Control Devices (NCUTCD), serving on the guide sign and motorist information, technical sub-committee.

Project Experience

Miner Road (RRR) Project, *Nassau County*
Sr. Traffic Engineer: Responsible for the design of the Signage and Pavement Marking Plans, Signalization Plans, Maintenance of Traffic Plans and Flexible Pavement Design.

US 1 at Ratliff Road Intersection Improvements Project, *Nassau County*
Sr. Traffic Engineer: Responsible for the design of the Signage and Pavement Marking Plans, Signalization Plans, Maintenance of Traffic Plans and Flexible Pavement Design for the milling and resurfacing and widening of approximately 0.1 miles of a rural arterial roadway. This design also included the widening for right turn lanes on US 1 at Ratliff Rd and a right turn lane on Ratliff Rd at US 1.

Citrona Drive at Sadler Road Intersection Improvements Project, *Nassau County*
Sr. Traffic Engineer: Responsible for the design of the Signage and Pavement Marking Plans, Signalization Plans, Maintenance of Traffic Plans and Flexible Pavement Design for the milling and resurfacing and widening of approximately 0.15 miles of an urban collector roadway. This design also included the widening of the existing travel lanes to accommodate the extension of a proposed left turn lane for the northbound traffic on Citrona Drive.

Blackrock Road (RRR) Project, *Nassau County*
Sr. Traffic Engineer: Responsible for all the traffic elements in conjunction with the milling and resurfacing of approximately two miles of a rural collector roadway. This design also included the widening of the existing travel lanes from currently nine foot to a twelve for travel lanes. In addition, paved shoulders and sidewalk were designed and incorporated into the project. Safety upgrades included providing guardrail and proposed bridge replacement at Gravel Creek. Also, utility coordination and relocation efforts are included for all existing and proposed utility companies within project limits. Project cost estimating, specifications are also provided for Nassau County.

Concourse Loop Road, Transportation Impact Fee Study, *Nassau County*
Sr. Traffic Engineer: The project consisted of a traffic study for the proposed construction of Concourse Loop Road in Yulee. Concourse Loop Road was to be completed in several phases and traverse between Gene Lasserre Boulevard and Nassau Center Court on both the north and south side of SR 200 (US A1A). In addition, connector roads would be built to tie the loop road into Nassau Place and Flora Parke Boulevard. The ultimate goal was to alleviate the westbound and eastbound traffic on SR 200, specifically the traffic accessing each of the commercial properties along the corridor.

Wayne Petrone, PE, PTOE

Sr. Traffic Engineer | Peters & Yaffee

Education
BS, Civil Engineering, University of New Haven, 1981

Registration
Professional Engineer, Florida #42860

Years Experience
39

(P) 904-265-0751, (E) WPetrone@petersandyaffee.com

Wayne Petrone, PE is a traffic engineer with over 39 years of experience and is a licensed professional engineer in Florida as well as Georgia. He has extensive experience in traffic signal inspection, traffic signal design, traffic studies, transportation planning, transportation operations and signing & pavement marking design. Mr. Petrone is an expert in using several software programs such as SYNCHRO, SimTraffic, Traffix, Passer II, Passer III, and Guide Sign. Mr. Petrone is a member of the Institute of Traffic Engineers, the International Municipal Signal Association (IMSA) and American Society of Highway Engineers. Over the course of his career, Mr. Petrone has worked on thousands of projects involving intersection analysis, signal warrant studies and traffic signal design.

Project Experience

SR 200 Traffic Signal Design, *FDOT District Two*
Sr. Traffic Engineer: Responsible for the signal design of eight intersections along SR 200 from Miner Road to Old Nassauville Road. The design included standard mast arms, traffic signal equipment layout, signage, video detection zones, fiber optic, communication and Bluetoad plans. The design included plans, technical special provisions, bid documents and construction cost estimates.

I-10 (SR 8) at US 301 (SR 200) Traffic Signal Design, *FDOT District Two*
Sr Traffic Engineer: Responsible for the signal design of two intersections on SR 200 (US 301) located at the on and off ramps for SR 8 (I-10). The design included two dropbox span wire traffic signal layout, loop layout, signage, and communication plans.

Sadler Road/14th Street Traffic Signal Design, *Nassau County*
Sr. Traffic Engineer: Responsible for the design of one traffic signal. The signal design included traffic signal equipment layout, loop layout, pedestrian feature upgrades and interconnect plans.

Radio Avenue Project, *Nassau County*
Sr. Traffic Engineer: Responsible for the design of the signing and pavement markings for one mile of rural roadway. The signing and pavement marking design met both the vehicular and pedestrian criteria for a safe school zone.

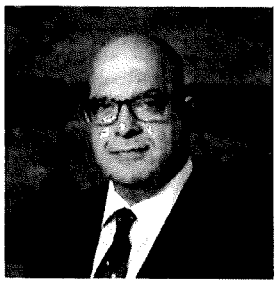
US 301/Ford Road Intersection Improvement, *Nassau County*
Sr. Traffic Engineer: Conducted a traffic study to determine the need for exclusive turn lanes. A conceptual recommended improvement plan depicting the length of each turn lane was prepared. A cost estimate for the recommended improvements was estimated.

Lem Turner Road/Spring Lake Road Intersection Improvement, *Nassau County*
Sr. Traffic Engineer: Conducted a traffic study to determine the need for exclusive turn lanes. A conceptual recommended improvement plan depicting the length of each turn lane was prepared. A cost estimate for the recommended improvements was estimated.

14th Street/Lime Street Intersection Improvement, *Nassau County*
Sr. Traffic Engineer: Conducted a traffic study to determine the need for exclusive turn lanes. A conceptual recommended improvement plan depicting the length of each turn lane was prepared. A cost estimate for the recommended improvements was estimated.

Sam Kadi, PE

Sr. Lighting Engineer | Peters & Yaffee



Education

MS, Civil Engineering, University of Central Florida, 1997

BS, Civil Engineering, Florida Institute of Technology, 1986

Registration

Professional Engineer, Florida #57498

Years Experience

19

(P) 904-265-0751, (E) SKadi@petersandyaffee.com

Sam Kadi, PE is a Senior Lighting Engineer with 19 years of design and project management experience with a broad range of transportation infrastructure projects. His expertise includes lighting design, roadway design, traffic engineering including signal design, signing and pavement marking design, traffic studies, and traffic signal warrant studies. He has served as project manager and as project engineer on numerous projects for both public and private clients such as the Florida Department of Transportation (FDOT), the Florida Logos Signing Project, Walt Disney World, City of Panama City Beach, City of Jacksonville, Brevard County, Nassau County, and St. Johns County.

Project Experience

SR 228 (Normandy Blvd) Improvements, *FDOT District 2*
Project Manager: Sam coordinated with FDOT and the Jacksonville Electric Authority (JEA) for a Joint Project Agreement (JPA) for the proposed lighting design, lighting calculations, pole layout and electrical calculations to support the lighting design. Other improvements consisted of traffic signals upgrades for five full signal upgrades with ADA curb ramps improvements and various upgrades at another fourteen signals starting at New World Avenue near MP 10.834 and ending at Cassat Avenue near MP 21.068 in Duval County. In addition, the project provided the installation of fiber optic interconnect and several arterial dynamic message *signs.*

Hart Bridge Expressway & Talleyrand Connector, *City of Jacksonville*
Project Engineer: Sam provided roadway corridor and intersection lighting for multi-lane urban reconstruction project that spans from Lafayette Street to Talleyrand Avenue. The project included coordination with maintaining agencies that included COJ, JEA and FDOT. Lighting design conformed to the latest requirements in the FDOT Design Manual and Standard Indexes for Conventional Lighting. The proposed lighting design also included: lighting calculations, pole layout and electrical calculations to support the lighting design and construction cost estimate.

Alta Drive, *City of Jacksonville DPW*
Project Engineer: Sam provided a preliminary engineering study for the multi-lane urban reconstruction of 3 miles of an existing two lane rural roadway to a four lane divided urban facility that included extensive right-of-way acquisition and public involvement support. Project Engineer responsible for Lighting Plans and design calculations for the 50% Plans Submittal to the COJ.

SR 212 Improvements, *FDOT District 2*
Project Manager: This project consisted of milling & resurfacing, base work, drainage improvements, curb & gutter, traffic signals, lighting, highway signing, guardrail, sidewalks, and other incidental construction on SR 212/US 90 in Duval County with project length of 3 miles. Developed several design exceptions and variations.

SR 212/SR 109 Intersection Improvements, *FDOT District 2*
Project Manager: This project consisted of milling and resurfacing and widening in order to provide additional left turn lanes on all four approaches of the intersection in Duval County. Developed several design concepts due to considerable right of way restraints while maximizing access management and enhancing safety throughout an intersection known to have a high crash rate by both FDOT and the City of Jacksonville.

Mike Molkenbur, PE

Sr. Drainage Engineer | Peters & Yaffee

Education
BS, Civil Engineering, University of New Haven, 1981

Registration
Professional Engineer, Florida #42860

Years Experience
25

(P) 904-265-0751, (E) MMolkenbur@petersandyaffee.com

Mike Molkenbur, PE serves as a Senior Drainage Engineer for Peters and Yaffee. He has over 25 years of experience in the management and design of roadway and drainage projects for various clients, which include the Florida Department of Transportation, municipalities, counties, and private sector clients. Mr. Molkenbur's design expertise includes the design of drainage conveyance systems and drainage treatment systems, stormwater permitting, pond siting reports, and the integration of roadway elements with drainage elements. His successes in management and design include roadway reconstruction and drainage projects for the Florida Department of Transportation, the City of Jacksonville and the Jacksonville Transportation Authority, St. Johns County, Florida, as well as many resurfacing projects for the Florida Department of Transportation. Relevant project experience includes:

Project Experience

SR 100 Reconstruction, *FDOT District 5*
Project Engineer: Mike was responsible for the design of the reconstruction of 1 ½ miles of roadway as well as ½ mile of overbuild resurfacing. This project included the design of multiple wet detention stormwater ponds including the design of a storm "surge" pond to provide additional attenuation for the existing stormwater collection system to alleviate a historical flooding problem that was occurring in the downtown area of Bunnell, Florida. A Pond Siting Report was prepared for this project to assist in establishing right-of-way requirements.

SR 79 Reconstruction, *FDOT District 3*
Project Manager & Drainage Engineer: This project that included the widening of 5.5 miles of roadway from a two lane undivided typical section to a four lane divided typical section. This project included the a Pond Siting Report and the final design of fifteen stormwater ponds and numerous cross drains.

Wonderwood Connector, *JTA*
Drainage Engineer: Mike was responsible for the design of multiple drainage collection systems as well as numerous stormwater ponds that allowed the JTA to obtain the conceptual stormwater permit for the entire corridor of this new hurricane evacuation route. Also, completed the final drainage design for the segment from the ICW to Mayport Road.

Monument Road Reconstruction, *JTA*
Drainage Engineer: Mike was responsible for the design of drainage collection systems as well as stormwater ponds for this roadway reconstruction project.

SR A1A/May Street & I-10/Cassat Avenue Drainage Improvements, *FDOT District 2*
Project Manager: These two drainage improvement projects including May Street & Cassat Avenue. May Street project involved the reconstruction of the existing stormwater collection system. I-10/Cassat Avenue project involved the analysis of the existing collection system including the existing outfall ditch and the development of potential drainage solutions to the existing flooding problems.

Fox Creek Regional Pond, *St. Johns County, FL*
Project Manager: Mike was responsible for the design of a 40 acre regional pond that serves a 1000+ acre basin. Design effort included regrading an existing creek to provide for reduction in flood elevations as well as a reduction in the time of flooding of surrounding properties in addition to design of the regional pond. The pond was also modeled to accommodate hurricane storm surges through the utilization of a stormwater pumping system.

Derek Gil, PE

LAP & RR Coordination | Element Engineering

Education
MS, Civil Engineering, University of South Florida
BS, Civil Engineering, University of South Florida

Registration
Professional Engineer, Florida #54798

Years Experience
26

(P) 813-386-2101, (E) DGil@elementeg.com

Derek Gil, PE has more than 26 years of engineering experience specializing in transportation, structural, utility and construction engineering. Derek has served as the Project Manager or Design Engineer on numerous County, Municipal and Florida Department of Transportation (FDOT) projects. Derek has managed ELEMENT's District Two LAP Program Contract since 2015. In that time, he has built invaluable relationships with the District and their local agencies. In fact, he has managed 63 local agency program (LAP) projects in the last 10 years. The lessons learned from supporting the District will prove invaluable with this Contract.

Project Experience

Local Agency Program (LAP) Contract, *FDOT District 2*
Contract Manager: This contract involves providing engineering services to Local Agencies throughout District Two. Task assignments include providing roadway design, drainage, environmental, survey, geotechnical, landscape/streetscape, lighting and signals, miscellaneous structures, survey, safety studies, ADA compliance, public involvement, and LAP administration.

DW Safety Studies and Concepts Contract, *FDOT District 2*
Deputy Contract Manager: This $1.5 million contract involves managing the off-system Highway Safety Improvement Program and Safe Routes to School Program for the District Two Safety Office. Safety studies, constructability and feasibility analysis, preparation of concepts, and evaluation of potential projects are covered under this task. Also included is significant coordination with local agencies across District Two to support potential safety project applications.

Live Oak Rail Trail from US 90 to Southern City Limit, *FDOT District 2*
Engineer of Record: The primary purpose of this FDOT LAP task work order for Suwannee County was to add trail lighting on the existing Heritage Trail along with the proposed additional trail.

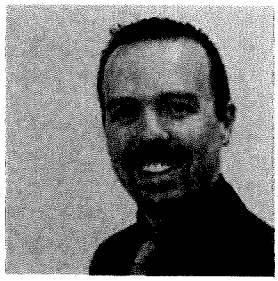
CR 32 from CR 337 to SR24, *FDOT District 2*
Project Manager: The primary purpose of this FDOT LAP project for Levy County was to construct a sidewalk along the corridor. Project responsibility included sidewalk layout, drainage signing and pavement marking analysis and working with the local agency to prepare the bid package for construction.

CR 23A from CR 125 to SR 121, *FDOT District 2*
Project Manager: The primary purpose of this FDOT LAP project for Baker County was to reduce lane departure crashes by construct shoulder improvements along the corridor. Project responsibility included roadway resurfacing, shoulder pavement design, drainage, signing and pavement marking analysis and coordination with the local agency.

Wildwood Dr at US 1 Intersection, *FDOT District 2*
Project Manager: The primary purpose of this FDOT LAP project for St. Johns County was to add a right turn lane from Wildwood Drive onto US 1. Project responsibility included project management and preparation of the roadway plans to accommodate the intersection turn lane widening. The design included sidewalk, drainage and temporary traffic control plans.

Matthew Weaver, PE, RSP, CPM

Safety Studies | Element Engineering



Education
BS, Civil Engineering, University of Toledo

Registration
Professional Engineer, Florida #71752

Years Experience
14

(P) 813-386-2101, (E) MWeaver@elementeg.com

Matthew Weaver, PE, RSP, CPM has 14 years of engineering experience specializing in transportation engineering with a focus on safety, signing, pavement markings, and project management. Matthew currently leads the Districtwide Safety Studies and Concepts Contract for the District Two Safety Office and manages local road highway safety improvement program and safe routes to school application review and development. Matthew has long-standing relationships with Central Office Safety personnel, the District Two Safety Office and numerous local agencies across the District. His focus on multimodal safety in his numerous roles while at the Department of Transportation have prepared him to focus his efforts on developing safety-focused solutions for any project design issues. Matthew has completed traffic analysis, benefit-cost analysis and made recommendations for additional safety enhancements for a number of the tasks on the current LAP contract and will continue to utilize these skills moving forward.

Project Experience

Local Agency Program (LAP) Contract, *FDOT District 2*
Task Manager: This contract involves providing engineering services to Local Agencies in D2. Tasks include providing roadway design, drainage, environmental, survey, geotechnical, landscape/ streetscape, lighting and signals, miscellaneous structures, survey, safety studies, ADA compliance, public involvement, and LAP administration.

CR 329 (S. Main Street) at SR 331 (SE Williston Road), *FDOT District 2*
Signing and Pavement Marking: The primary purpose of this FDOT LAP project for Alachua County was to reduce run-off-the road crashes for traffic on CR 329 approaching SR 331. Project responsibility included signing and pavement marking analysis and identifying an innovative solution involving use of internally illuminated raised pavement markers to enhance delineation of the horizontal curves.

CR 235 at NW 94th Ave, *FDOT District 2*
Signing and Pavement Marking: The primary purpose of this FDOT LAP project for Alachua County was to construct an overhead flashing beacon and improve the signing in the intersection. Project responsibility included signing and pavement marking and coordination with the local agency.

Districtwide Safety Studies and Concepts Contract, *FDOT District 2*
Contract Manager: This $1.5 million contract involves managing the off-system Highway Safety Improvement Program and Safe Routes to School Program for the District Two Safety Office. Safety studies, constructability and feasibility analysis, preparation of concepts, and evaluation of potential projects are covered under this task. Also included is significant coordination with local agencies across District Two to support potential safety project applications. As the prime consultant, ELEMENT is responsible for contract management and successful completion of all tasks assigned under this contract to support the Department's goal of reducing severe injury and fatal crashes across the District.

CR 241 and CR 18, *FDOT District 2*
Safety Analysis, Signing and Pavement Marking: The primary purpose of this FDOT LAP project for Union County was to reduce roadway departure crashes by enhancing the edge line and centerline striping. Additionally, the project replaced substandard guardrail along the corridor and developed an innovative solution that received additional safety funds. Project responsibility included analysis of crashes, coordination with local agencies, and development of signing and pavement marking plans.

Anthony Chaumont, PE

Road Safety Audits | Element Engineering

Education
BS, Civil Engineering, University of South Florida

Registration
Professional Engineer, Florida #72473

Years Experience
13

(P) 813-386-2101, (E) AChaumont@elementeg.com

Anthony Chaumont, PE has expertise is in traffic operations and safety, having worked for the Florida Department of Transportation as a Traffic Operations Studies Specialist for over two years fielding citizen requests and conducting traffic signal related studies. Prior to joining ELEMENT, he served as a project engineer and deputy project manager for FDOT Districts Four and Seven and local county and city engineering agencies.

Anthony worked in the development of FDOT's Off-System Road Safety Audit (RSA) program and has compiled RSA reports for more than 50 locations. He serves to identify crash locations for RSA studies, provides crash data analysis support for the District's SHS RSA program, and identifies candidate locations for implementation of proactive safety improvements. He also contributed to the development of a pilot transit focused RSA program in District One, a pedestrian RSA program in District Seven, a senior RSA in District Four, and an electronic mobile RSA data collection, review, and reporting process.

Project Experience

Districtwide Safety Studies and Concepts Contract, *FDOT District 2*
Task Manager: This $1.5 million contract involves managing the off-system Highway Safety Improvement Program and Safe Routes to School Program for the District Two Safety Office. Safety studies, constructability and feasibility analysis, preparation of concepts, and evaluation of potential projects are covered under this task. Also included is significant coordination with local agencies across District Two to support potential safety project applications. As the prime consultant, ELEMENT is responsible for contract management and successful completion of all tasks assigned under this contract to support the Department's goal of reducing severe injury and fatal crashes.

Mobile RSA Pilot Project, *FDOT District 7*
Project Engineer: Integrated RSA evaluation process of locations during construction phase for potential safety enhancements/improvements within the projects. Developed a methodology for collecting field review notes electronically with mobile devices, which allows for more accurate data collection, standardized reporting, digital collaboration, and an efficient turnaround.

Safety Studies and Minor Design, *FDOT District 7*
Project Engineer: Served as an extension of FDOT staff, provide daily engineering support for on-going safety projects and citizen requests and technical support for crash data management and web collaboration. Provide a broad range of traffic safety/operations studies and safety program management services. Support safety education and enforcement activities and systemic countermeasures approaches.

Safety Studies/Rd Safety Audits, FDOT District 4
Project Engineer: Conduct safety studies and road safety audits in Broward, Palm Beach, Martin, St. Lucie, and Indian River counties to recommend short-, mid-, and long-term countermeasures and follow-up studies. Preliminary focus has been on pedestrian and bicycle safety issues including several "hot-spot" locations identified by FDOT Central Office. Recommendations include signing, marking, and signalization modifications; upgrades roadside features above and beyond FDOT standards; mid-block crossings and pedestrian signals at locations; relocation of transit stops; deployment of innovative improvements from the State's Innovative Products List (IPL); ATMS upgrades; safety improvement additions to 3R and Work Program projects.

Bruce Khosrozadeh, PE

Sr. Geotechnical Engineer | CSI Geo

Education
BS, Civil Engineering, University of Florida, 1986

Registration
Professional Engineer, Florida #45273

Years Experience
32

(P) 904-641-1993, (E) BruceK@csi-geo.com

Mr. Khosrozadeh has over 32 years of experience in geotechnical engineering, construction management and inspection, and materials testing services. He has been engaged in performance of geotechnical studies for roadways, major highway and bridge projects, as well as large high-rise office buildings, seaports, and large industrial and commercial projects. His responsibilities have also included marketing, project management, and cost control. He has managed, inspected, tested, and provided technical review along with providing recommendations for foundation types. Mr. Khosrozadeh's extensive experience has included pavement condition surveys, shallow foundation design, design and installation supervision of deep foundations such as drilled shafts, auger cast piles, pre-stressed concrete piles, steel H-piles and pipe piles. Review of plans, specifications, geotechnical reports, pile/drilled shaft installation plans, review of production pile logs, observation of test piles, and pile dynamic load tests, as well as observation of drilled shaft installation are also amongst some of his strongest abilities. Mr. Khosrozadeh has also performed a wide range of forensic investigations and remediation studies, asphalt and concrete testing, prestress/precast inspections, aggregate and soils tests, and non-destructive testing evaluations.

Project Experience

JEA William Burgess Force Main and Reclaim Water Main, *Nassau County, Florida*
Geotechnical Project Manager for the proposed force main and reclaim water main project from Harts Road to SR 200. The new pipes are proposed to be installed parallel to the existing 10-inch force main by means of open-cut pipe installation methods. The alignment of the new pipes is also proposed to cross five existing culverts areas. In these areas, pipes will be installed deeper to provide proper vertical separation from possible future culvert extensions. Temporary sheet pile walls will be required to facilitate excavation, dewatering, and compaction processes. Horizontal directional drilling (HDD) could also be considered at the culvert extension areas based on constructability issues at each of the culvert areas.

JEA Yulee Wetlands Diffuser, *Nassau County, Florida.*
Geotechnical Project Manager for the geotechnical exploration of the existing subsurface conditions within the limits of the proposed gravel access roadway, pipeline and potential borrow pit area. CSI Geo provided geotechnical exploration services and evaluated the acquired data and information to help formulate site preparation and earthwork construction recommendations.

I-95 from Nassau County Line to the Georgia Border, *FDOT District 2*
Geotechnical Project Manager. The proposed project consists of the milling and resurfacing of I-95, from the Nassau County line north to the Florida-Georgia border. In addition, nearly 30 overhead signs are to be replaced to meet new wind speed criteria. Most of these signs will be founded on drilled shaft foundations to be able to sustain the anticipated lateral and torsional forces. CSI Geo staff will be providing geotechnical exploration services necessary to evaluate the site for the proposed construction.

Radio Avenue Improvements, *Nassau County, Florida.*
Geotechnical Project Manager responsible for providing geotechnical services with recommendations for the extension of Radio Avenue from the existing roadway on the southwest side of Yulee High School property to just southeast of the school property at the intersection with Miner Road in Nassau County, Florida. The overall project length was approximately 4,100 feet. Other elements of the project consisted of a new cross drain culvert, and construction of drainage swells along the southern side of the roadway alignment, and milling and resurfacing of the existing school access road on the high school property.

John Iya, PE

Sr. Geotechnical Engineer | CSI Geo

CSI Geo
Geotechnical · CMT · CEI

Education

ME, Geotechnical Engineering, North Carolina A&T State University, 1996

BS, Building, ABU Zaria, 1983

Registration

Professional Engineer, Florida #77294

Years Experience

25

(P) 904-641-1993, (E) JohnI@csi-geo.com

Mr. Iya has over 25 years of experience in civil, environmental, and geotechnical engineering projects. During these years, he has served as a geotechnical engineer for a variety of projects at the local, state and federal government levels, as well as commercial. Mr. Iya has been responsible for conducting geotechnical investigations and design services for roadways, major highways and bridge projects, commercial and residential buildings, as well as large high-rise office buildings, airports, seaports, and large industrial and commercial projects. His extensive experience has included shallow foundation design, deep foundation design such as drilled shafts, auger cast piles, driven piles, and sheet piles, and pavement condition surveys. He has conducted field investigations and laboratory testing for many projects throughout Florida, Georgia and North Carolina, in many cases, using non-traditional in-situ soil characterization methods such as the cone penetrometer, piezocone, seismic cone, Texam pressure meter, Probex rock dilatometer, vane shear, and Iowa borehole shear test equipment, flat dilatometer, etc. Review of plans, specifications, geotechnical reports, pile/drilled shaft installation plans, review of production pile logs, observation of test piles, and pile dynamic load tests, as well as observation of drilled shaft installation are also among his strongest abilities. Mr. Iya is highly familiar with modeling software and new technological advances, versed in standard software such as CWALSHT, FB-Deep, LPile, PCStable, CWALSSI, GRLWEAP, and finite elements programs such as FBPier, Plaxis, SeepW, SlopeW, Seep2D, and other geotechnical and civil engineering software.

Project Experience

Radio Avenue Improvements, *Nassau County, Florida.*
Geotechnical Project Engineer responsible for providing geotechnical services with recommendations for the extension of Radio Avenue from the existing roadway on the southwest side of Yulee High School property to just southeast of the school property at the intersection with Miner Road in Nassau County, Florida. The overall project length was approximately 4,100 feet. Other elements of the project consisted of a new cross drain culvert, and construction of drainage swells along the southern side of the roadway alignment, and milling and resurfacing of the existing school access road on the high school property.

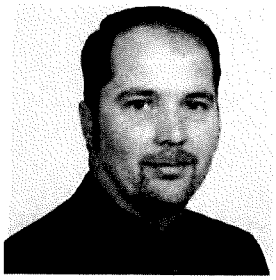
JEA Yulee Wetlands Diffuser, *Nassau County, Florida.*
Geotechnical Project Engineer for the geotechnical exploration of the existing subsurface conditions within the limits of the proposed gravel access roadway, pipeline and potential borrow pit area. CSI Geo provided geotechnical exploration services and evaluated the acquired data and information to help formulate site preparation and earthwork construction recommendations.

I-95 from Nassau County Line to the Georgia Border, *FDOT District 2*
Geotechnical Project Engineer. The project consisted of the milling and resurfacing of I-95, from the Nassau County line north to the Florida-Georgia border. In addition, nearly 30 overhead signs were constructed to meet new wind speed criteria. Most of these signs were designed to be founded on drilled shaft foundations to be able to sustain the anticipated lateral and torsional forces. CSI Geo staff provided geotechnical exploration services necessary to evaluate the site for the proposed construction.

FDOT District 2, US 1 Bridge (Over St. Mary's River), *Nassau County, Florida*
Geotechnical Project Engineer responsible for directing the geotechnical exploration to obtain subsurface data for use in the design of scour revetment countermeasures. CSI Geo developed deep foundation design and construction recommendations for the subsurface modifications. Recommendations consisted of precast square concrete piles, steel pipe piles, and drilled shafts to be selected for design of new crutch bents.

Terry Crews

Sr. Utility Coordinator / SUE Quality Control | T2



Education
AS, Computer Aided Drafting Technology, ITT Technical Institute, 1997

Professional Affiliations
Florida Utilities Coordinating Committee

Years Experience
22

(P) 386-755-2626, (E) TerryCrews@cardno.com

As a senior utility coordinator, Mr. Crews assists with identifying utility/design conflicts, developing work schedules for utility re-locations, negotiating satisfactory resolutions to utility relocation, as well as final certification of utilities. This often involves processing reimbursement agreements, confirming appropriate funding availability and overseeing the processing of contract invoice transmittal for partial and final billing after utility work had been completed. Mr. Crews prepares utility work by highway contractor agreements (UWHCA) with utility owners and FDOT which involved utility work such as fiber optic installation for signal interconnect, lump sum agreements (i.e., manhole and valve adjustments), and major installation of facilities within roadway project corridors to be completed by the contractor. These agreements required coordinating with County, design consultants, and the utility owners' representatives.

Project Experience

FDOT District Two Utility Verification During Construction, *District Wide, FL*
Project Manager - Under the FDOT District Two GEC contract, Cardno provided on call subsurface utility designating services for FDOT facilities during construction to help in mitigating impact and damage to FDOT facilities on active construction projects throughout the District.

Districtwide CEI Utility Inspection, *Various Counties, FL*
Project Manager - On a task work order basis, Cardno provides on-call utility inspection. This includes reviewing plans and ensuring utility facilities are being constructed properly to avoid schedule delays and budget overruns.

SR 111 from Blanding Boulevard to Lenox Avenue, *Duval County, FL*
Senior Utility Coordinator - Cardno provided a full control, alignment and design survey for this milling and resurfacing project. In addition, our services included complete designating (CI/ASCE 38-02 Quality Level B) and locating (CI/ASCE 38-02 Quality Level A) of the subsurface utilities to map their horizontal and vertical position within the project limits.

SR 202 / J. Turner Butler Boulevard at San Pablo – Diverging Diamond Interchange (DDI), *Duval County, FL*
Senior Utility Coordinator - Cardno provided a full control, alignment and design survey as well as R/W mapping for this DDI project. Our services also included complete designating (CI/ASCE 38-02 Quality Level B) and locating (CI/ASCE 38-02 Quality Level A) of the subsurface utilities to map their horizontal and vertical position within the project limits.

D2 Signalization - SR 10 and SR 111, *Duval County, FL*
Senior Utility Coordinator - Cardno provided a full control, alignment, and design survey as well as R/W control survey and R/W mapping for this signalization project. Our services also included complete designating (CI/ASCE 38-02 Quality Level B) and locating (CI/ASCE 38-02 Quality Level A) of subsurface utilities and full utility coordination services.

SR 9B from CR 2209 to the I-95 Interchange, St. Johns and Duval Counties, FL
Senior Utility Coordinator/Project Manager. Cardno provided complete designating (CI/ASCE 38-02 Quality Level B) and locating (CI/ASCE 38-02 Quality Level A) of the subsurface utilities to map their horizontal and vertical position within the project limits for this roadway construction design-build project. Cardno also provided complete utility coordination services.

C. William "Bill" Faust III, PSM

Survey Project Manager | DRMP

Education
BS, Construction Technology, University of Akron, 2000
AS, Civil Engineering, Stark State College, 1992

Registration
Professional Surveyor and Mapper, Florida No. LS6600

Years Experience
31

(P) 904-224-2905, (E) CFaust@drmp.com

C. William "Bill" Faust, III, PSM, is the Jacksonville Survey Manager for DRMP's Surveying and Mapping/ Geomatics Division. He is currently responsible for the supervision and management of land development, roadway construction, boundary, topographic, design survey and subsurface utility engineering projects. His tasks include field supervision, data processing, calculations, contract and project management and proposals and estimates. Mr. Faust is proficient in the latest versions of AutoCAD Civil 3D and MicroStation.

Mr. Faust has more than 31 years of experience working as a professional land surveyor and CADD technician in civil engineering, building construction and land development. He has strong technical skills in land surveying, construction layout, engineering design and project management. Mr. Faust has more than 20 years of experience using AutoCAD and other surveying and design software to prepare survey drawings and engineering plans.

Project Experience

Continuing Surveying Services Contract, *Nassau County, Florida:* Project Surveyor responsible for boundary surveys, bridge data surveys, centerline control for County projects, control survey drawings, construction and as-built surveys, construction layout surveys, court exhibit preparation, drainage design surveys, eminent domain surveys, environmental surveys, FDEP and WMD acquisition surveys, GPS, GIS, and CaiCE, hydrographic surveys, legal description (preparation and/or verification), plat preparation, plat review for compliance with state statutes, property sketches, retracement surveys, R/W mapping, roadway maintenance maps (specific-purpose maps), special purpose surveys, subsurface utility engineering, topographic surveys, tree surveys and 3D scanning. A sampling of tasks assigned under this contract are provided below:

Bryceville Landfill Boundary Survey (Task)
Project Surveyor on this 24.8-acre parcel. Responsible for researching the existing public records, calculating the record boundary lines, directing the field crews daily activities, analyzing the found monumentation and preparing the map of survey in accordance with the Florida Statutes pertaining to boundary surveys.

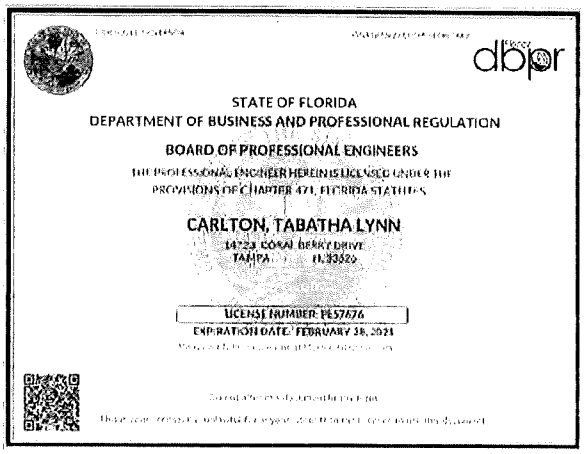
Lofton Creek Landfill Boundary Surveys
Project Surveyor on this 62.1-acre parcel. Responsible for researching the existing public records, calculating the record boundary lines, directing the field crews daily activities, analyzing the found monumentation and preparing the map of survey in accordance with the Florida Statutes pertaining to boundary surveys.

SR 200, FDOT District Two, *Nassau County, Florida:* Project Survey on 9.95- mile roadway re-paving project. Prepared the necessary calculation to establish the mainline alignment and to stake miscellaneous pavement and drainage structures. Performed layout of the mainline alignment and project stationing and layout of pavement widening areas and new guardrail.

14th Street and Simmons Road Intersection, *Amelia Island, Florida:* Project Surveyor on a 0.31-mile roadway improvement project. Performed a horizontal and vertical control survey, collecting the existing monumentation and analyzing the data for placement of the proposed roadway alignment. Provided layout of the roadway alignment, new drainage structures, curb and pavement and prepared a record survey of the constructed improvements.

Staff Licenses

TABATHA CARLTON, PE



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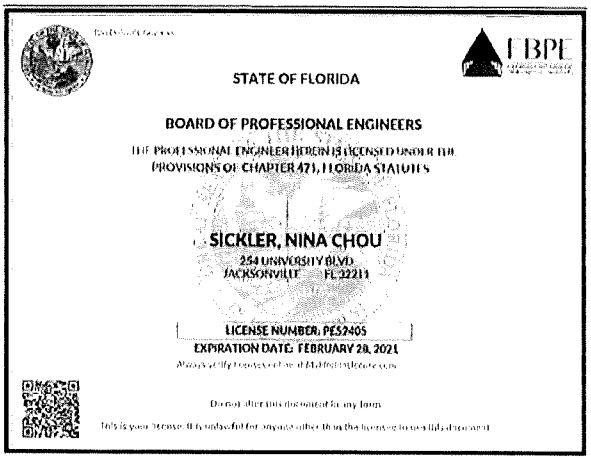
CARLTON, TABATHA LYNN
14723 CORAL BERRY DRIVE
TAMPA FL 33626
LICENSE NUMBER: PE57676
EXPIRATION DATE: FEBRUARY 28, 2021

RICHARD FANGMANN, PE, PTOE



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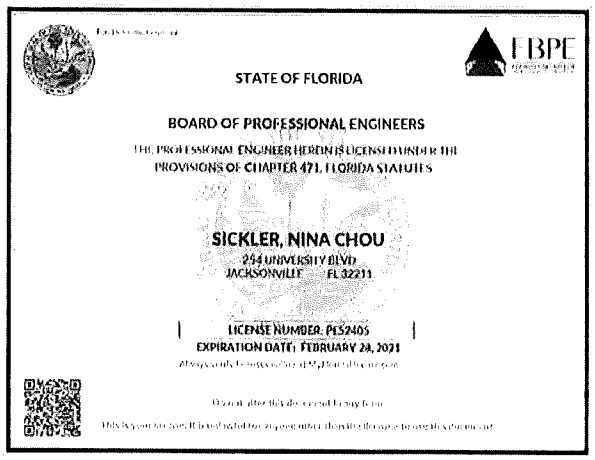
SICKLER, NINA CHOU
254 UNIVERSITY BLVD
JACKSONVILLE FL 32211
LICENSE NUMBER: PE52405
EXPIRATION DATE: FEBRUARY 28, 2021

NINA SICKLER, PE



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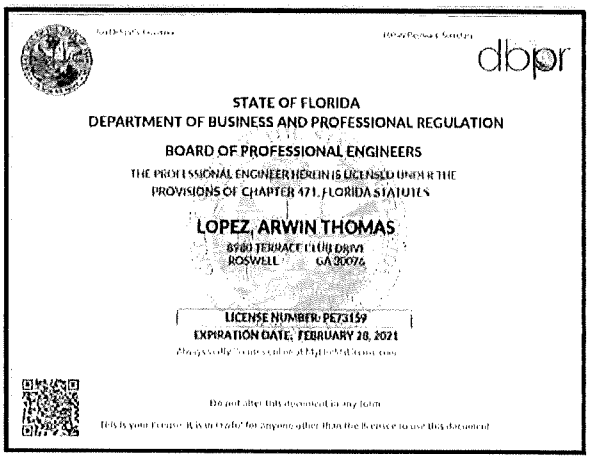
LICENSE NUMBER: PE52405
EXPIRATION DATE: FEBRUARY 28, 2021

ARWIN LOPEZ, PE



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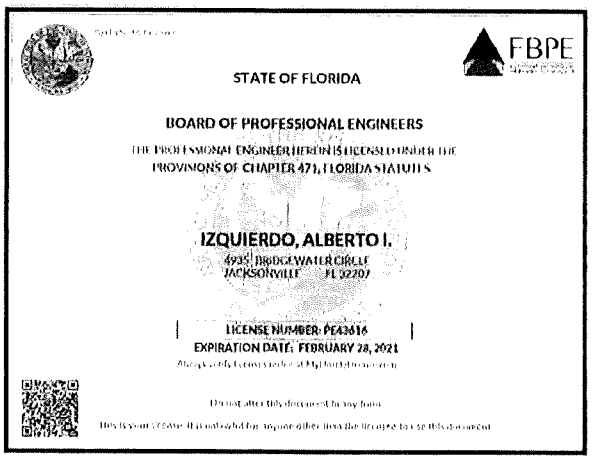
LOPEZ, ARWIN THOMAS
8980 TERRACE POND DRIVE
ROSWELL GA 30076
LICENSE NUMBER: PE73159
EXPIRATION DATE: FEBRUARY 28, 2021

ALBERTO IZQUIERDO, PE



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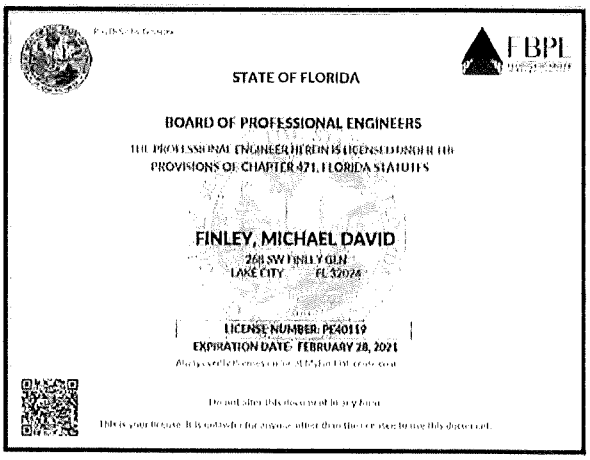
IZQUIERDO, ALBERTO I.
4935 BRIDGEWATER CIRCLE
JACKSONVILLE FL 32207
LICENSE NUMBER: PE43616
EXPIRATION DATE: FEBRUARY 28, 2021

DAVID FINLEY, PE



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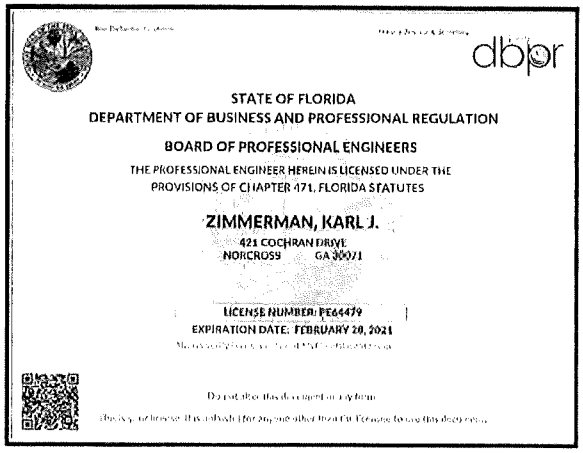
FINLEY, MICHAEL DAVID
268 SW FINLEY GLN
LAKE CITY FL 32024
LICENSE NUMBER: PE40119
EXPIRATION DATE: FEBRUARY 28, 2021

KARL ZIMMERMAN, PE



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ZIMMERMAN, KARL J.
421 COCHRAN DRIVE
NORCROSS GA 30071

LICENSE NUMBER: PE64479
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MIKE MOLKENBUR, PE

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MOLKENBUR, MICHAEL R.
203 WOODLAND GREENS DRIVE
PONTE VEDRA FL 32081

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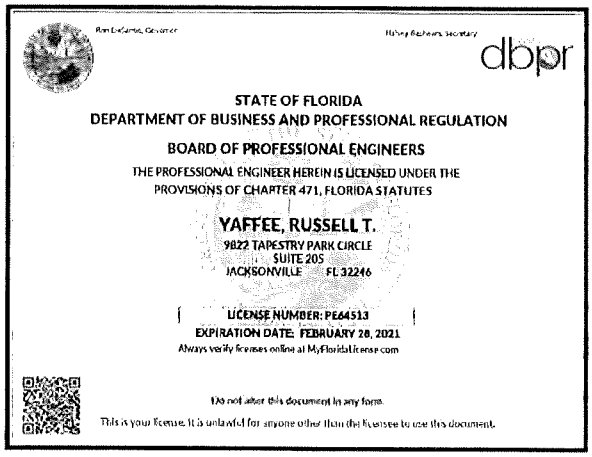
RUSSELL YAFFEE, PE, PTOE



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YAFFEE, RUSSELL T.
9822 TAPESTRY PARK CIRCLE
SUITE 205
JACKSONVILLE FL 32246

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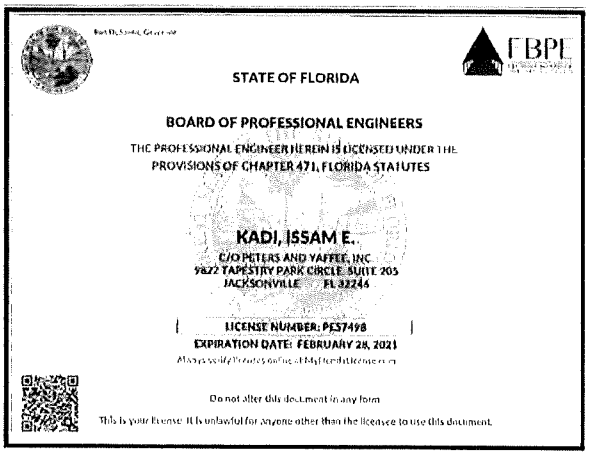
SAM KADI, PE



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KADI, ISSAM E.
C/O PETERS AND YAFFEE, INC
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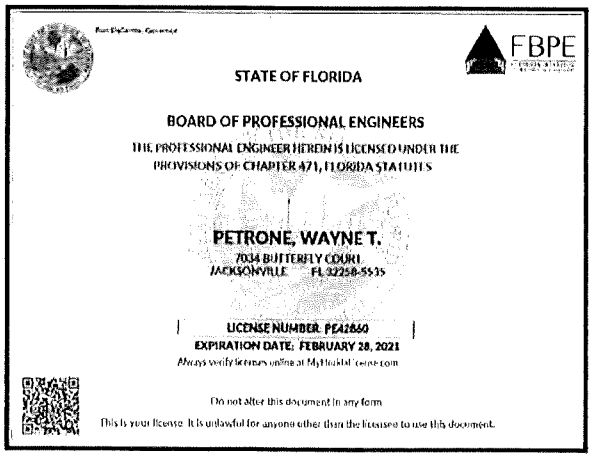
WAYNE PETRONE, PE



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PETRONE, WAYNE T.
7034 BUTTERFLY COURT
JACKSONVILLE FL 32258-5535

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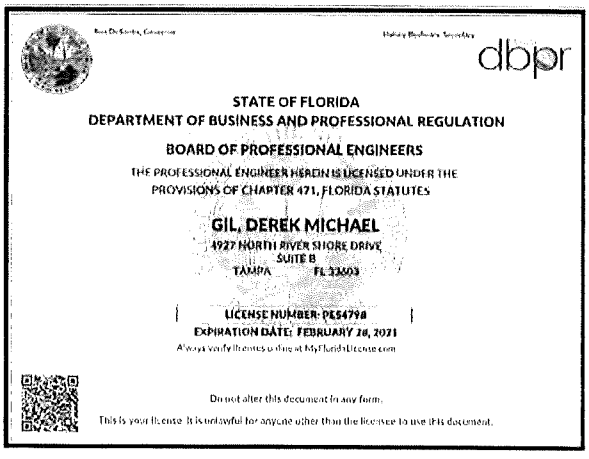
DEREK GIL, PE



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GIL, DEREK MICHAEL
4927 NORTH RIVER SHORE DRIVE
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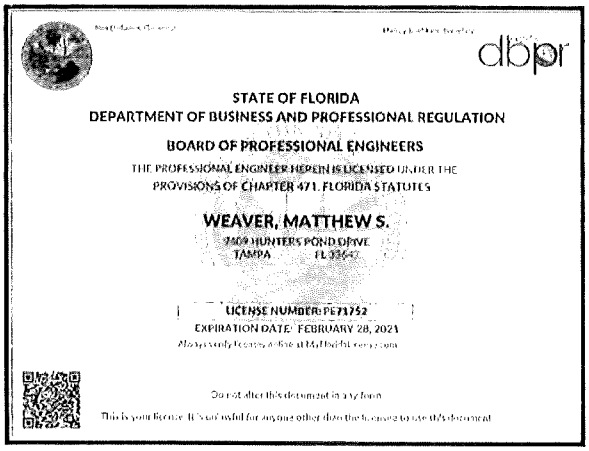
MATT WEAVER, PE



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WEAVER, MATTHEW S.
7409 HUNTERS POND DRIVE
TAMPA FL 33647

LICENSE NUMBER: PE71752
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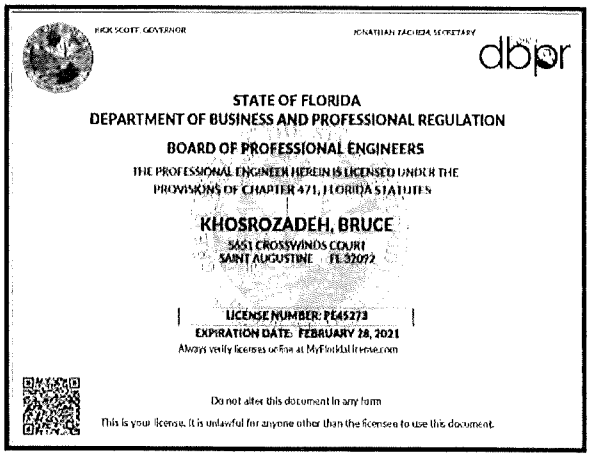
BRUCE KHOSROZADEH, PE



RICK SCOTT, GOVERNOR
JONATHAN ZACHEM, SECRETARY

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KHOSROZADEH, BRUCE
5651 CROSSWINDS COURT
SAINT AUGUSTINE FL 32092

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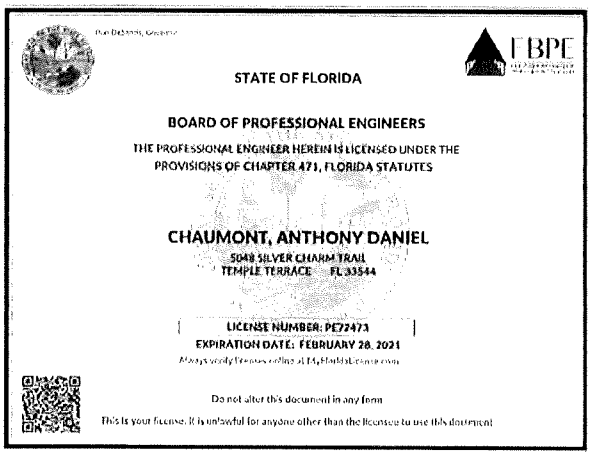
ANTHONY CHAUMONT, PE



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CHAUMONT, ANTHONY DANIEL
5048 SILVER CHARM TRAIL
TEMPLE TERRACE FL 33544

LICENSE NUMBER: PE72473
EXPIRATION DATE: FEBRUARY 28, 2021

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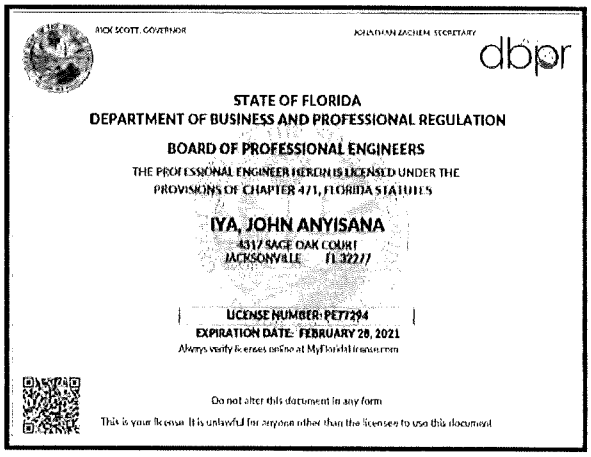
JOHN IYA, PE



RICK SCOTT, GOVERNOR
JONATHAN ZACHEM, SECRETARY

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BOARD OF PROFESSIONAL ENGINEERS
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IYA, JOHN ANYISANA
4317 SAGE OAK COURT
JACKSONVILLE FL 32277

LICENSE NUMBER: PE77294
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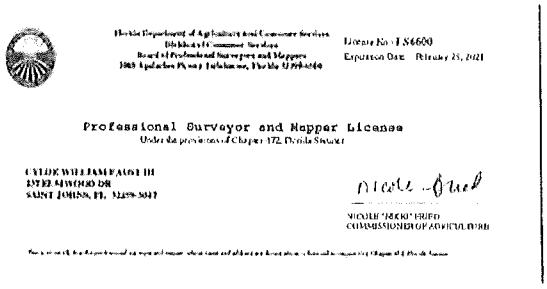
BILL FAUST, PSM



Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
License No. LS6600
Expiration Date: February 28, 2021

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

CLYDE WILLIAM FAUST III
[redacted]

NICOLE "NIKKI" FRIED
COMMISSIONER OF AGRICULTURE

POND

Tab 4 - Project Approach

Tab 4 - Project Approach

The following sections outline the services our team proposes to meet the scope as outlined in the RFQ, our method of approach, specific design issues, project management plan, innovative and cost savings solutions and schedule.

Proposed Design Services, Understanding of Scope & Approach

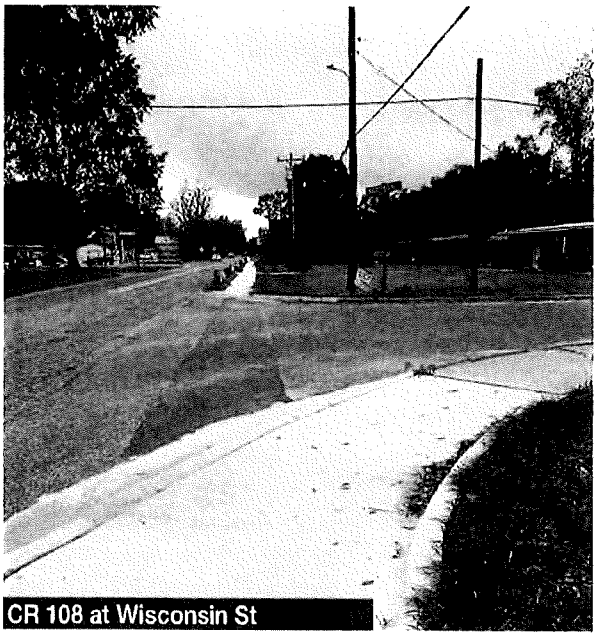
Our team understands that Nassau County wishes to solicit proposals from qualified firms to provide Professional Engineering services for the CR 108 Safety Improvement Project in Nassau County, Florida. The project will resurface and construct safety improvements along CR 108 from CR 115 (Bay Road) to CR 121A (Middle Road). Our Team has reviewed available project information, visited the site several times, and analyzed potential design options. Our team is aware of the need to avoid R/W acquisition and any adverse impacts to neighboring properties and wetlands. Pond understands that this project will be funded through a Local Agency Program (LAP) Agreement with the Florida Department of Transportation (FDOT). Our team's knowledge and experience with LAP Agreements will ensure that Nassau County can successfully execute the project in compliance with the agreement.

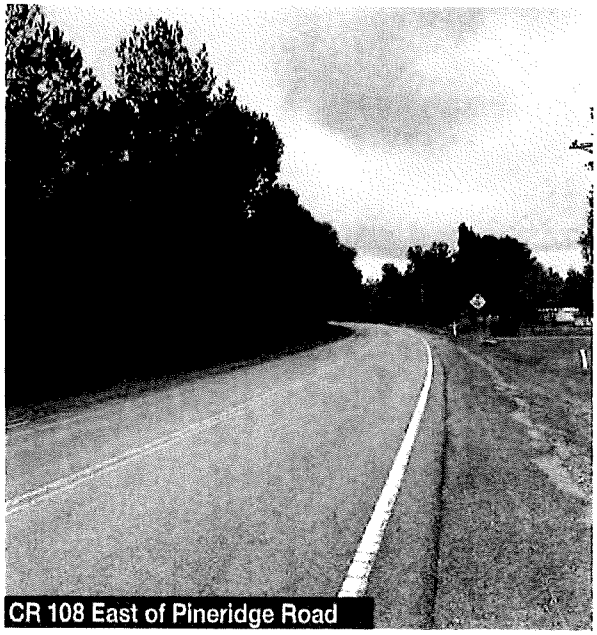
Design Services as listed in the scope and needed support services will include:

- Roadway Design
- Pavement Design
- Intersection Improvements
- Signalization Improvements
- ADA/Safety Improvements
- Drainage Design
- Signal & Sign Structure Design
- Bridge & Culvert Design
- Survey
- Geotechnical Engineering
- Environmental Assessments & Permitting
- Railroad Coordination
- Utility Coordination
- Post Design Services
- Public Involvement

Deliverables will be as outlined in the scope and the proposed project schedule.

Before defining the project approach, you must first understand the existing conditions, known safety issues based on available crash data, and the proposed design criteria.


CR 108 at Wisconsin St


CR 108 East of Pineridge Road

EXISTING CONDITIONS

CR 108 currently travels west to east from Bay Road (beginning of project) to Middle Road (end of project). It is a two-lane road with paved and unpaved shoulders and left turn lanes at US 1/CR 115A (Kings Ferry Road), a left turn lane in front of the Jacksonville ARTCC (apparently a leftover from a previous entrance to the ARTCC) and a left turn at Middle Road. The project runs through the Town of Hilliard, passes in front of the Hilliard Middle Senior High, crosses the CSX railroad, and intersects New Kings Road (US 1). However, the majority of the project is through a rural portion of Nassau County.

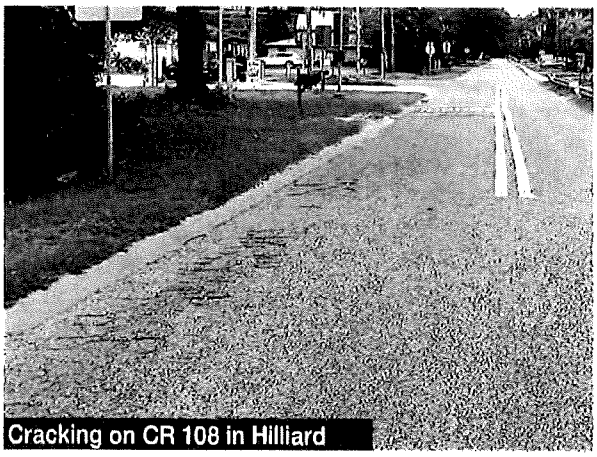
The existing roadway shows evidence of extensive cracking, rutting and raveling. Two out of five cross drains show evidence of loss of backfill with depressions and potholes on the roadway above the cross drains, as well as attempts to repair these areas with asphalt patches. In addition, numerous side drains show evidence of erosion problems at the bottom of the miters and some of the miters have deteriorated considerably. These symptoms are indicative of asphalt and roadway age, as well as possible base failures, water intrusion in the base, and substandard roadway and drainage conditions.

The existing roadway east of the Town of Hilliard has a paved shoulder approximately five feet wide that is lower than the main roadway pavement, as it appears the main roadway had an asphalt overlay placed in the past. The grassed shoulder adjacent to the paved shoulder is overgrown thus creating a "gutter" along the roadway which prevents stormwater runoff from leaving the roadway efficiently as observed by the accumulation of sand along the grassed shoulder. During heavy rains the spread of water onto the roadway can be significant enough to create hydroplaning problems and loss of driver control. During our site visits, traffic was observed travelling at speeds higher than the posted speed limits which could be a contributor for the number of traffic accidents that have occurred throughout the corridor. The existing superelevation on some of the curves may need to be corrected as in some cases they appeared excessive while in others they appeared deficient as further discussed in the Roadway Design section.

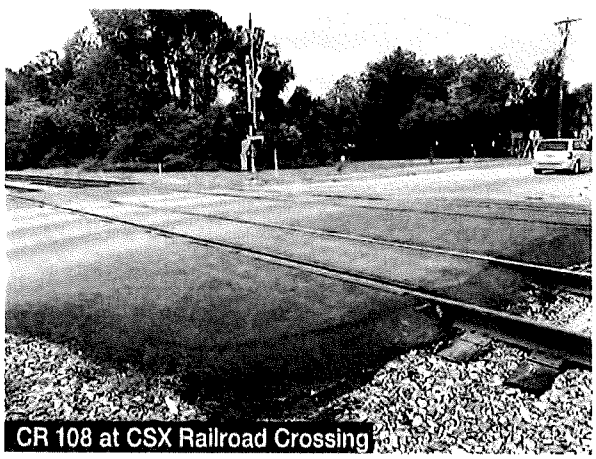
The intersection of Bay Road and CR 108 is not signalized and traffic on Bay Road is controlled by a stop sign. CR 108 is a free flow condition in the north and south directions. The only existing signalized intersection is at the intersection of New Kings Road (US 1) and CR 108. The existing signals do not have backplates on any of the four quadrants and appear to function adequately.

From the beginning of the project eastward, across New Kings Road (US 1), up to Eastwood Road the corridor is illuminated (on average) with streetlights on every other power pole which are mostly located on one side of the road. The rural portion of the corridor from Eastwood Road to Middle Road is not illuminated with streetlights.

The CSX railroad crossing, west of New Kings Road, has been reconstructed with asphalt but the adjacent segments of roadway are deteriorated. The railroad signal arms were observed to be properly operating as a train traveled on the crossing during our site visit. However, along the north side of the crossing, the existing sidewalk did not have pedestrian control arm.



Cracking on CR 108 in Hilliard



CR 108 at CSX Railroad Crossing

DESIGN CRITERIA

Pond will design the project in accordance with Nassau County Standards, FDOT Standards and Criteria, and the Florida Greenbook, as applicable to ensure a safe, proper and economic design is provided. Posted speeds vary from 30 mph to 60 mph along the corridor. However, given that observed speeds exceeded posted speeds, we recommend utilizing a 35 mph design speed from Bay Road to Eastwood Road, 50 mph design speed from Eastwood Road to approximately 1.5 miles east, and 60 mph design speed from that point to Middle Road. The following design criteria will be used to analysis existing conditions and recommend improvements. Non-complaint elements, such as ADA compliance, cross slope, superelevation, and clear zone violations will be discussed with Project Issues. We will document all existing and proposed design elements in a Design Report and will request variations for any element that cannot be brought up to standard.

Design Element	Design Criteria	Florida Greenbook 2016
Cross Section		
Lane Widths	<50mph = 11', >=50mph = 12'	Table 3-10
Shoulder Width (Outside)	8'	Table 3-11
Shoulder Width (Median or Left)	8'	Table 3-11
Pavement Cross Slope	.015-.04	Section C.7.b.2
Cross Slope Breakover	4%	Section C.7.b.2
Shoulder Cross Slope	2% to 6%	Table 3-12
Front Slope	1:4 for New Slopes	Section C.7.f.2
Back Slope	1:3 New Slopes	Section C.7.f.2
Border Width	14 ft	
Horizontal Alignment		
e_{MAX}	10% rural 5% urban	Figure 3-1 to 3-3
Min. Radius (per NC)	35 = 295 ft 50 = 695 ft 60 = 1095 ft	Table 3-5
Clear Zone/Recoverable Terrain	<=40 = 10 ft 50 = 18 ft 60 = 30 ft	Table 3-15
Vertical Alignment		
G_{MAX}	<=45 = 7 50 = 6 60 = 5	Table 3-7
G_{MIN} (for curbed sections	0.3%	Section C.5.b
K_{MIN} for Crest Curve	35 = 29 50 = 84 60 = 151	Table 3-9
L_{MIN} for Crest Curve	50 = 300 60 = 400	Table 3-9
K_{MIN} for Sag Curve	35 mph = 49 50 mph = 96 60 mph = 136	Table 3-9
L_{MIN} for Sag Curve	50 mph = 200 60 mph = 300	Table 3-9
Min. Vert. Clearance	17ft	Section C.7.j.4.(a)
Min. Base Clearance Above SHW	3ft	
Max. Change in Grade w/o Curve	35 mph = .9 50 mph = .60 60 mph = .40	Table 3-8
Min. Stopping Sight Distance	35 = 250 50 = 425 60 = 570	Table 3-3
Min Passing Sight Distance	35 = 550 50 = 800 60 = 1000	Table 3-4
ADA Features		
Max SW Longitudinal Grade	5%	Ch 8.B.1
Max SW Cross Slope	2%	Ch 8.B.1
Continuous Clear Width of SW	36"	ADAAG 4.2.1
Single Point Clear Width of SW	32"	ADAAG 4.2.1

Project Approach

ROADWAY DESIGN

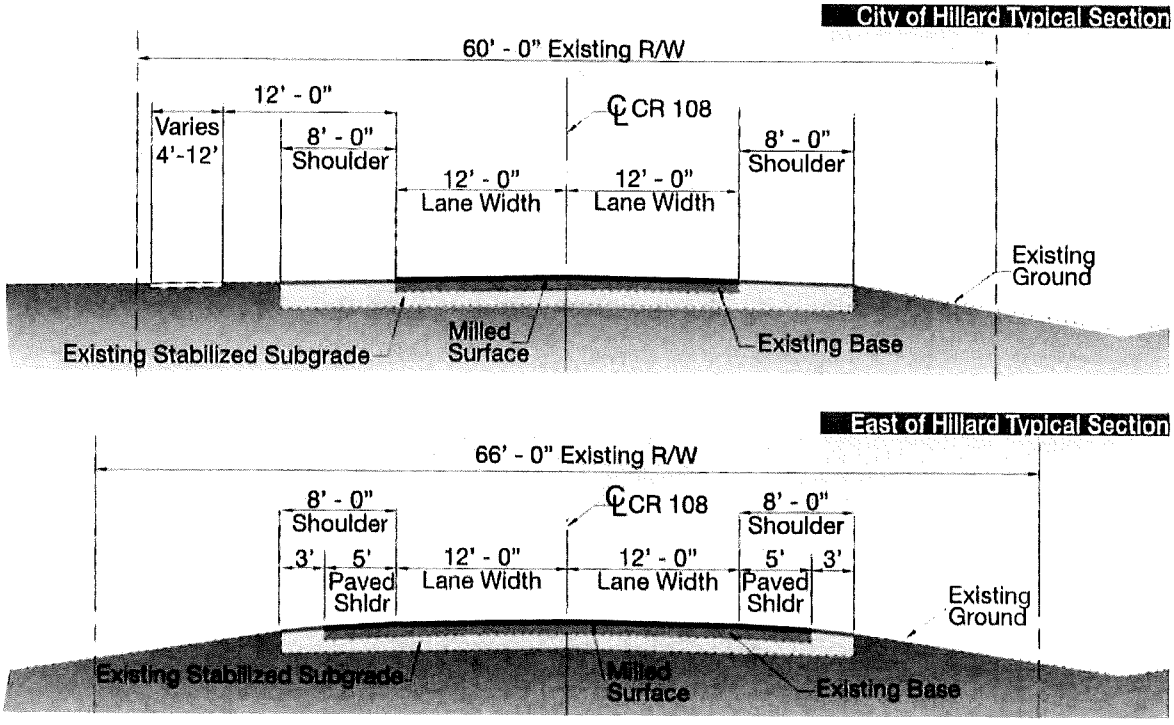
The existing typical section east of the Town of Hilliard consists of two 12' lanes with 8' shoulder (5' (typ) paved). The existing typical section through and west of the Town of Hilliard consists of two 12' lanes with 8' grassed shoulders and a sidewalk along the north side. These typical sections, shown below are anticipated to be maintained with the milling and resurfacing operation within the existing R/W with the possible exception of adding a paved shoulder where none exist if needed for bicycle connectivity. We will also examine existing cross slopes and superelevation rates to determine where there may be deficiencies that might be a contributing factor to crashes, especially crashing involving vehicles leaving the roadway. If deficiencies with associated crashes are found, we recommend using over-build to correct the cross slope of superelevation.

The adjacent table shows three curves within the rural limits (east of US 1) that we evaluated for superelevation correction. Curve 1 appears to meet superelevation criteria for an approximate 55 mph design speed, so no action is required. Curves 2 and 3 both do not meet superelevation criteria for their respective design speeds and have crashes within the influence area of the curve. Superelevation correction on these two curves is recommended, not only due to the substandard superelevation rate, but also to reduce the likelihood of standing water and hydroplaning in these areas due to flatter slopes.

Superelevation		
Location	Existing	Proposed
Curve 1:	6% WB	7.7% 60 MPH
200' E of Pineridge	6.7% EB	5.7% 50 MPH
Curve 2:	5.5% WB	7.7% 60 MPH
2500' E of Pineridge	2.5% EB	5.7% 50 MPH
Curve 3:	4.5% WB	5.5% 60 MPH
5000' W of Middle Rd	1.7% EB	

There are nine horizontal curves along the corridor and they meet minimum design criteria, with the exception of the western most curve which is off by 10' per R/W maps. No change is recommended. No vertical profile deficiencies were noted during the field review. The vertical profile of the roadway is not anticipated to be revised except where superelevation may be revised to correct any deficiencies found.

The design process will consider other elements associated with safety issues such as clear zone criteria, front slopes of ditches, stopping sight distances, grassed shoulder rework to improve drainage, ADA requirements, speed limits, additional warning signs where they may be warranted, replacement of signs with poor reflectivity, guardrail requirements, striping and improved lighting in critical areas.



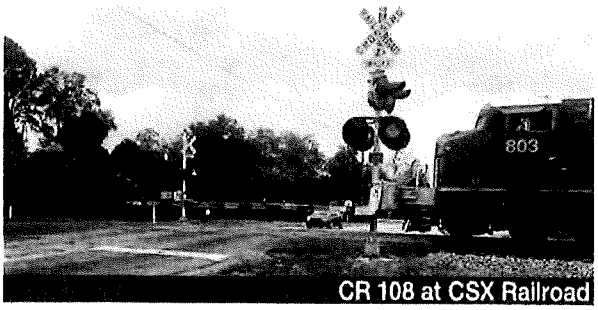
ROADWAY SAFETY AUDITS

Our team has completed over forty Road Safety Audits and countless safety studies across the state, we are well suited to bring together stakeholders together for a thorough evaluation of the project corridor, identification of any underlying challenges and subsequently development of data-driven solutions. In addition to gathering all available data, we completed a drive through (both daytime and nighttime) to see if there is anything that is confusing or could be easily corrected. Typically items we note are missing or broken signs, skid marks, evidence of crashes that may not be documented (roadway departure crashes where a fence or guardrail is hit but the vehicle can drive away and thus may not be reported), observe driver behavior at high crash locations, and items that aren't being maintained (existing lighting, guardrail, curb, sidewalks, etc.).

R/R COORDINATION

The R/R crossing is fairly new and will be excepted out of the CR 108 project. However, R/R coordination will still be required due to the proximity of the crossing to the limits of milling and resurfacing. Our TTCP will overlap the crossing with our advance warning signs and will need R/R approval. The project scope does not call for pedestrian gates on the approaches. This is a safety concern as pedestrians can walk unimpeded across the tracks. Again, this can be temporarily addressed in the TTCP but a permanent solution will need to be coordinated with the County and CSX.

Due to the shortened design period proposed on this project and typical RR coordination time, we may need to stop the milling and resurfacing limits 50' from the tracks. These would allow us to move forward with construction without the final RR agreement. Milling and Resurfacing within this 50' buffer adjacent to the tracks could be included in the plans as a add alternate pending the RR agreement.



CR 108 at CSX Railroad

ENVIRONMENTAL PERMITTING

The western end of the project goes through the center of Hilliard, and the rest of the project traverses a rural area composed of forested wetlands and silvicultural land uses. The road segment crosses small creeks that flow north and east into the Little St. Mary's River system. Box culverts are present at most of these crossings. Additional wetlands occur along the roadside that are not associated with creeks or box culverts. Wetland systems occur near or within the existing R/W. All wetlands and waters that occur in the area are jurisdictional to and regulated by both the St. Johns River Water Management District (SJRWMD) and U.S. Army Corps of Engineers (USACE). We will delineate the extent of jurisdictional wetlands within the proposed project corridor pursuant to the rules and regulations of both agencies. If wetland impacts are minor in nature, the project will likely qualify for a General Permit from SJRWMD, and a Nationwide Permit from USACE. If wetland impacts are more extensive, we will prepare applications for standard Environmental Resource and Individual Permits as necessary. We will prepare and submit all environmental permit documentation for the SJRWMD and USACE permit applications. If wetland mitigation is required, we will work with SJRWMD and/or USACE to identify the amount needed and will assist Nassau County to secure it.

Preliminary surveys for all potentially occurring state and/or federally listed species will be performed and permitting implications of any identified species will be identified. The road corridor is not located within the Core Foraging Area of a wood stork nesting colony. The project does not appear to contain xeric habitat. However, gopher tortoises may still be present in the roadside edges of the mesic upland habitats that occur along the project's length. Based on our experience with similar road projects, it is likely that if tortoises are present, they are present in small numbers. We will perform a preliminary survey for gopher tortoises. Due to Florida Wildlife Conservation Commission requirements, this preliminary survey cannot be used for tortoise relocation permitting. However, the information collected can be used to estimate the gopher tortoise survey and permitting efforts that must be performed within 90 days of construction. No documented active eagle nests are located within five miles of the road segment.

SURVEY

We recommend the use of Terrestrial Mobile LiDAR to collect most of the roadway features along the project

corridor. Utilizing Mobile LiDAR allows survey crews to safely and efficiently collect the data within the visible line of sight, while providing a safe environment for motorists, pedestrians and field crews. From this LiDAR data they can extract survey break lines for pavement, slopes, ditches, driveways and curbing and because of the detail of the point cloud they can extract and highlight any pavement rutting or ponding. 2D data such as above ground utilities, signs and overhead wires, essentially anything within that line of sight can be extracted from the 3D point cloud. With the point cloud being a true 3D environment, typical 2D features such as overhead power lines, can easily be measured for vertical clearance issues. Conventional survey methods will be used to collect features in the obscured areas to finalize the design survey. Both data sets will be merged together to create the typical survey deliverable.

RIGHT-OF-WAY (R/W)

Our initial assessment of this project indicates that R/W does not appear to be required in order to implement milling and resurfacing on the roadway and recommended safety improvements. Our Team will be proactive in studying potential critical areas, such as at the intersections, drainage improvements, and the superelevation correction areas. During this process our main goal is to find solutions that will not require R/W acquisitions as the project schedule does not allow for R/W acquisition. In areas with limited R/W, we can explore the use of License Agreements for harmonization of slopes. However, we understand that if the property owner is unwilling to enter into a License Agreement, we must be able to construction the project within the existing R/W. We have recent experience working with R/W specialists and License Agreements on our ongoing San Pablo Road project and SR 289 Bridge Replacement project. If the County needs assistance in this task, we can provide the required letters and sketches.

GEOTECHNICAL ENGINEERING

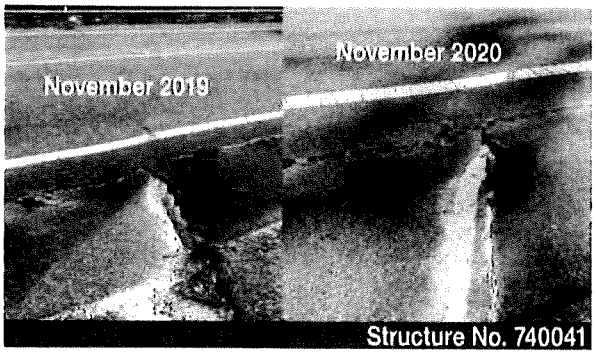
Our geotechnical subconsultant has reviewed existing archival data from geotechnical projects along the CR 108 corridor. Results of the review indicate that the soil conditions in the area of the project corridor are expected to consist generally of an overburden of fine sands and slightly silty fine sands, with occasional plastic clayey sands and plastic clays generally in the upper 5 to 10 feet of depth. The groundwater level is expected to range from 4 to 6 feet below existing ground surface.

For typical geotechnical investigations, we will perform the data collection and background research including a thorough review of all available internal and published information, including USDA Soil Survey/ USGS maps, topographic maps, historic aerials, nearby well data, existing plans/reports and as-builts, etc. We will coordinate and perform a field review to identify conditions that may impact the project and/or investigation. After the appropriate team resources are identified for the task, we will prepare an investigation plan for the geotechnical investigation for approval by the County. A Pavement Core and Condition Survey will be prepared to establish limits and depths for the milling and resurfacing operations. For widening and/or shoulder construction, auger borings will be performed to a depth of 5.0 feet on one hundred feet spacing with 20-foot deep auger borings every 500 feet in the roadway widening areas and soil samples for laboratory soil testing will be obtained. Soil samples for pipe corrosion testing will also be obtained. Additionally, samples will be collected from the existing subgrade soils determine the design LBR value. Work will also include review of the encountered ground water levels and estimates of the seasonal high ground water levels. Soil samples will be classified, containerized, and marked in the field and returned to the laboratory for visual inspection and classification by the geotechnical engineer. The results of the study will be presented in a report.

MISCELLANEOUS STRUCTURES

There are two bridge culverts on this project.

One is Structure No. 740064 which is a double 12'x5' concrete box culvert carrying a branch of the Little St. Mary's River under CR 108 located 0.42 miles east of US 1. Built in 1950 and widened in 2000, it has a sufficiency rating of 98 and a health index of 77.17. The latest inspection report indicates some minor repairs are required to address delaminated areas in the exterior walls of both barrels, voids at the bottom of interior and exterior walls, and voids in the underside of both barrels at the south end. The existing guardrail appears to be adequate. There is some transverse pavement cracking which coincides with the outside edge of the culvert top slab which could be indicative of the approach embankment settling relative to the culvert. This apparent differential settlement will be reviewed to determine if it may be an ongoing maintenance issue and if there are any remedial actions which can be employed.



The second bridge culvert is Structure No. 740041 which is a skewed concrete box culvert consisting of four 9.5'x 7' barrels carrying a branch of the Little St. Mary's River under CR 108 located 0.6 miles east of US 1. Built in 1950 and widened in 2000, it has a sufficiency rating of 33.4 and a health index of 68.62. It is currently designated structurally deficient due to significant undermining of the barrels along the north end of the culvert. The latest inspection report indicates scour as deep as 4.5' extending as much as 11.0' under the culvert. If this undermining has not yet been fully addressed it should be considered for correction as part of this project to prevent further differential settlement issues. It appears that the existing cracks were sealed since we first looked at this in 2019. However, it appears the settlement has gotten slightly worse. Scour countermeasures should also be installed to prevent further erosion problems. There is significant transverse pavement cracking and settling of shoulder pavement which coincides with the outside edge of the culvert top slab. This suggests the approach embankment has settled relative to the culvert. This apparent differential settlement will be reviewed to determine if it may be an ongoing maintenance issue and if there are some remedial actions which can be employed. Pond has extensive in-house structures capabilities and can efficiently and effectively handle the design required if the county decides to address the deficiencies within this project.

UTILITY COORDINATION & SUE

Utility Coordination will be important to the success of this project. With multiple utilities present, utility coordination will begin early in the design process using approved practice/procedures. During the design process, this starts with the initial contact, continues with the request and interpretation of RGB's and Utility Work Schedules (UWS), and concludes with a formal Utility Certification letter to the County. Utility Coordination support will continue over into construction as needed to mitigate any unforeseen issues/concerns. We will work with each of the UAO's and their relocation design engineers to assure all relocation design is completed in a timely manner.

In reviewing the existing site conditions, if signals and/or lighting is proposed, we noticed that there is overhead Okeefenoke Rural Electric Distribution, as well as FPL Distribution facilities within the proposed project limits operating at <50kV, with various primary and secondary facilities crossing throughout project limits. The constructability of the project's design needs to meet all minimum clearances outlined in OSHA Rule 29 CFR Part 1926 – Subpart CC and/or protective measures are fully vetted and subsequently added to the respected UAO utility work schedules. It's imperative that a thorough utility coordination process is followed to negate the potential for delay claims during construction. Also, it should be noted that municipal (Town of Hilliard) water and sewer facilities exist within the footprint of this project (within Town Limits). Historically, these types of facilities have been found to be placed shallower than what is in the FDOT Utility Accommodation Manual (UAM). If determined that full depth widening is slated within the Town Limits, there's a good possibility that conflicts to water and sewer facilities will be present. These impacts are typically costly to mitigate and has the great potential of impacting the overall schedule during Design, as well as during construction. Close coordination and communication with all parties will be KEY to the success of this project. It's imperative that a thorough utility coordination process is followed to negate the potential for delay claims during construction.

LIGHTING

Pond will review all Nassau County, JEA and FDOT standards and requirements for roadway lighting. At present, lighting is not noted in the scope, but it is anticipated that lighting will be required at unsignalized mid-block crossings to enhance visibility.

PUBLIC INVOLVEMENT

Our Team has extensive experience with Public Involvement on roadway projects and we are ready to assist the County with any public involvement efforts necessary. It is imperative that stakeholders, such as the residents along the corridor, the Hilliard Middle Senior High, the First Baptist church of Hilliard, the Jacksonville ARTCC, to name a few, are well informed of the upcoming project. With our experience and knowledge of different public outreach methodologies Pond can be a strategic partner to Nassau County. Our overall company public involvement process stresses creative problem solving. Should the County

desire, we can craft a public outreach plan to include public mailings, newsletters, and agency meetings as we have done on other projects throughout the State. We understand that a formal public meeting is not required. However, we would recommend that letters describing the Temporary Traffic Control Plan and any potential impacts during construction be sent to key stakeholders such as the school, churches, Jacksonville ARTCC, as well as other businesses.

LAP FUNDING CONSIDERATIONS

The key to a successful Local Agency Program (LAP) project involves the initial scoping, budget and schedule of the project. The Scope of Work must meet the programmed funding for design. Sometimes the local's desired improvements exceed the budgeted amounts or are outside the approved LAP funded items. In these cases, coordination will be required to manage the estimated design costs and scale back the work, if necessary, or assist the County in obtaining additional funding. LAP projects seek to use lower cost countermeasures such as signing, pavement marking, and minor geometric changes to address known crash issues on local roadways.

As a local project, plans will conform to The Florida Greenbook for off-system roadways and will meet FDOT LAP Agreement requirements. We understand that FDOT is counting on the selected consultant to ensure quality of design and completeness of plans with minimal FDOT oversight. We have added ELEMENT to the team, as they hold the current Districtwide LAP design contract and have worked with Nassau County on several LAP projects.

CONSTRUCTION COORDINATION/POST DESIGN

We understand the importance of coordination with Nassau County, the Contractor, and the CEI team. We are committed to providing prompt and thorough coordination to the County and the Contractor for any issues encountered during construction. The Pond Team includes personnel with construction experience as they have been contractors, field inspectors or CEI Resident Engineers. This experience is unique to our team and allows our team to design "Buildable Designs". The Team also understands the need to respond quickly when unforeseen conditions surface during construction.

Pond strives to eliminate/reduce the need for Change Orders. This is accomplished by developing a detailed scope and schedule incorporating all project milestones. Using scheduling software to track the project ensures we have the available resources to keep the project on time and on budget. We field truth our plans to avoid conflicts and unforeseen conditions. We attend pre-bid and pre-construction meetings with the contractor to clarify and confirm the project intent and construction schedule.

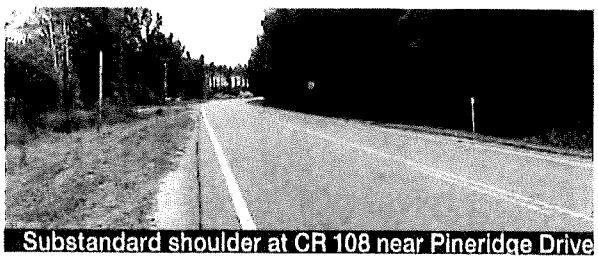
Project Issues

PAVEMENT DESIGN

The existing pavement is in poor condition, with rutting being a more critical issue than cracking. While pavement cracking is not severe, when there is cracking, it is deep. On the resurfacing project to the east they called for a friction only resurfacing that varied from 1" to 1.5" milling and resurfacing depth. However, to fully correct the existing cracking and rutting, deeper milling and resurfacing may be needed in some locations. Contributing factor to the existing pavement conditions may include: 1) Truck traffic - While less than 5%, this is a main haul route for the timber industry with Rayonier owning several large parcels along the corridor. 2) Excessive asphalt - There are at least three lifts of asphalt visible on the shoulders. 3) Groundwater intrusion in the base - We noticed standing water in shallow swales along the corridor. In the poor pavement areas, we recommend obtaining core data to determine the depth of the cracks and rutting and the underlying cause. Potential repair solutions may include one or a combination of the following: 1) Variable milling for cross slope; 2) Regrading of existing ditches and swales; 3) Deeper milling with an added Superpave layer; and/or 4) Utilization of a geofabric for additional pavement strength. The final pavement design will not be a "one size fits all" approach. We will recommend the appropriate milling and resurfacing depth and other low-cost solutions that meet the budgetary constraints of the County and provide the maximum life expectancy for the pavement.

ROADSIDE SAFETY AND GUARDRAIL

There is substandard shoulder for approximately 1,500 feet near Pineridge Road. To correct this issue it would require regrading ditches, extending culverts, impacting wetlands, and potential utility conflicts. We will analyze this section against the crash data to determine if a wider shoulder is warranted or we will apply for a design variation.



Substandard shoulder at CR 108 near Pineridge Drive

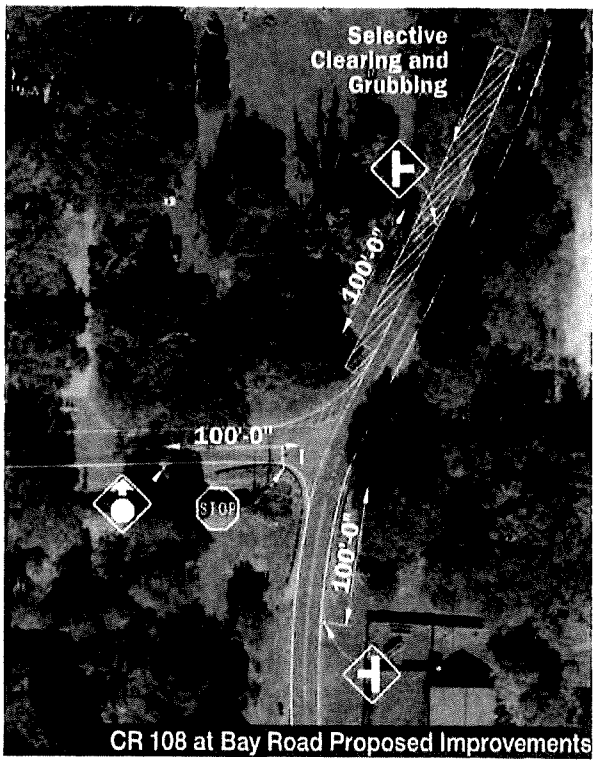
At the west end of the project, where CR 108 makes a 90 degree turn at 1st Avenue, there is existing guardrail along the north side of the roadway up to the school. The existing guardrail does not meet current criteria as to separation from the roadway and deflection clearance (4' to the hazard). It is understood the guardrail has been placed to protect the sidewalk that is used by students located behind the guardrail. The guardrail shows signs of impacts by vehicles at the end sections. Additionally, the guardrail on the southwest quadrant of the intersection with Bay Road was observed to have been impacted and repaired recently. It is unlikely that the existing guardrail will be able to be brought up to standard within the existing R/W with this project. Therefore, we will recommend any needed repairs and prepare a design variation for the existing guardrail to remain.

INTERSECTION IMPROVEMENTS

At the intersection of CR 108 and Bay Road, there have been two single vehicle crashes that have impacted the guardrail in the southwest and southeast quadrant. Based on observations during our site visit, issues with sight distance and horizontal geometry are likely the leading causes of these accidents. The eastbound traffic on Bay Road is currently controlled by a stop sign and stop bar but the stop bar is located where sight visibility is poor. The north south traffic is a through movement and is not presently controlled. The existing north-south geometry of CR 108 is an S-curve that starts just south of Bay Road and ends just south of W 1st Ave. Bay Road intersects CR 108 on the curved portion of the geometry and not on the tangent. Our proposed modifications include reducing the turning radius of the northwest quadrant by restriping the edge line, thus retaining the asphalt to prevent off-tracking by trucks, selective clearing and grubbing to improve sight distance, and intersection ahead signs.

In discussing this project with one of our Pond employee's that lives in Hillard, she recommended we look at adding a 3-way stop at CR 108/1st Ave/Indiana St. intersection. While this intersection does not have a significant crash history when compared with other intersections, our staff member stated there were lots of near misses and it is a confusing intersection, even for locals. We would recommend converting this intersection to a 3-way stop.

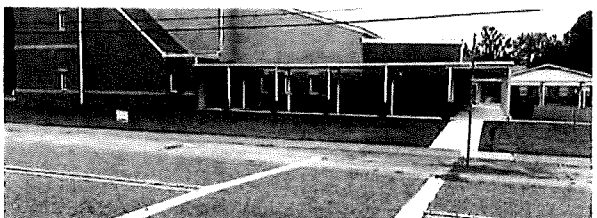
At the intersection of CR 108 and US 1, the eastbound left turn lane does not meet the minimum turn lane length criteria. For a 35-mph design speed, the minimum deceleration length is 145'. If we use a minimum 50; queue, we would need to extend the existing left turn lane approximately 100'.



CR 108 at Bay Road Proposed Improvements

ADA IMPROVEMENTS

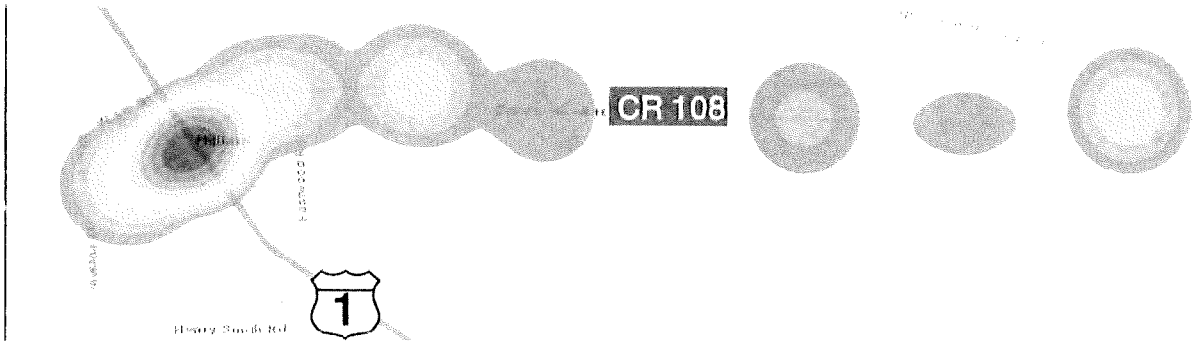
The existing ADA ramps at the intersection of CR 108 and US 1 will be evaluated to ensure compliance with the latest ADA requirements. During our field visit it was observed that a Nassau County Sheriff's Officer had to direct traffic at the school when school ended for the day. There is an existing school crossing used by students which is also controlled by the Nassau County Sheriff's Officer. It is recommended that an economic analysis be performed to determine if pedestrian actuated signals and/or RRFBs may be a more efficient and inexpensive way to handle vehicular and pedestrian traffic both in the morning and evening during school days. Additionally, the mid-block crossing at the First Baptist Church should be upgraded to be high emphasis.


Mid-Block Crossing at First Baptist Church

SAFETY ANALYSIS AND RECOMMENDATIONS

From 2014 to 2019, there have been 89 crashes in the corridor. As can be expected, the crashes are primarily at the intersections, as shown in the crash heat map. There were also several severe crashes at Pineridge Road and the curve to the east and these are noted below. A summary of the crash data is as follows:

- 89 crashes
- 2 fatality crashes
- 30 injury crashes resulting in 41 injuries
- 57 property damage only crashes
- 21 Rear-End (1 incapacitating injury E of Pineridge Road)
- 19 Off-Road (1 incapacitating injury at Pineridge Road)
- 11 Left-Turn
- 9 Animal
- 7 Angle
- 4 Backing
- 4 Sideswipe
- 3 Head-On (1 fatality, 1 incapacitating injury E of Pineridge Road)
- 1 Unknown
- 10 Other (2 incapacitating injury at Pineridge Road)



Over 40% of the total crashes are at the US 1 intersection with a significant number being rear ends in the eastbound direction. It was noted that the eastbound left turn lane does not meet minimum deceleration criteria. It was also difficult to see the signal heads during sunrise and sunset. Operational improvements at this intersection could mitigate a significant number of these crashes and will be discussed with signalization. Our preliminary analysis found that a high percentage of the crashes in the rural section, east of Hillard, were caused by driver inattention or distraction (i.e. texting), reckless driving, and excessive speed. The use of auditory and vibratory markings in these areas, that would alert drivers to a possible road or lane departure, would provide an easy and cost-effective solution to mitigate these types of crashes.

Of the two fatal crashes, one occurred at CR 108 and Eastwood Road and involved a left turning westbound vehicle. We will analyze the stopping sight distance for eastbound vehicles as they come around the curve just to the west of Eastwood Road. We also recommend a speed study in this area as the posted speed changes from 35 mph to 50 mph just east of this intersection.

The other fatal crash was near Pineridge Road and involved wet pavement and hydroplaning. During the field review, limited sight distance when turning from Pineridge Road onto CR 108 was noted. Similarly, sight distance and speed studies are warranted for Pineridge Road, as well as an analysis of superelevation and existing drainage conditions. The installation of advance side street signs should be considered to mitigate crashes associated with side streets with limited sight distance.

It is recommended that the crash data be scrutinized in further detail to ensure that any roadway related root causes of the accidents are addressed in an economically feasible manner.

SIGNALS

There is one existing signalized intersection within the County Road 108 project corridor and is located at the intersection of US 1. The existing signal is a mast arm mounted system made up of two double mast arms, located in the southwest and northeast quadrants. The existing signal heads appear to be dated and do not have backplates. Currently, the vehicular detection at the intersection is via Video Detection. The intersection

has full pedestrian access, with signal heads, signage and detectors that meet current Nassau County and MUTCD standards, with the exception of the spacing requirements within the curb ramps. Additionally, there is a CCTV located on the mast arm in the northeast quadrant. When reviewing the crash data from Signal 4 Analytics from 1/1/14 to 11/1/19 there was 89 crashes along the corridor of which 39 occurred within the influence area of this signalized intersection. Of those crashes 48% are Angle or Left Turn Crashes and 24% are Rear End Crashes. We recommend adding new signal heads with retroreflective backplates, as well as replacing the 5-section heads with 4-section flashing yellow arrows. These mitigation measures have been proven to reduce crashes at signalized intersections.

FDOT has a resurfacing project programmed along this section of US 1 (FPN 445351-1-52-01) to be let to construction in FY 2024. Recommended improvements to the signal at the US 1 intersection could be held for this resurfacing project and would result in a cost savings on this project. However, the addition of flexible backplates to the existing signal heads could be done without a structural analysis and no change to the existing mast arms per FDOT Roadway Bulletin 20-08 and would provide an immediate safety enhancement.

SIGNING & PAVEMENT MARKING/SIGNALS

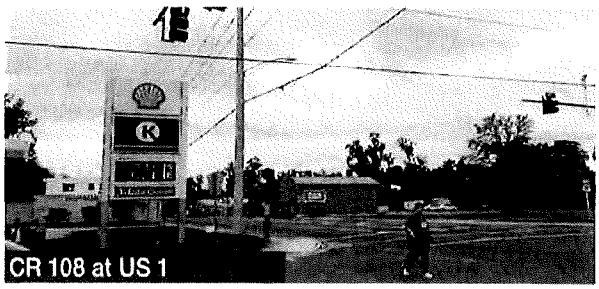
All markings will be replaced to conform to current standards. All signs will be evaluated for damage and proper usage and upgraded as needed with special attention of school zone and school crossing signs. Additional signage may be warranted at T-intersection locations such as Eastwood Road and Pineridge Road as well as at the existing curves east of Pineridge Road. Additional signs that may be required would be advance warning of T-intersections, chevrons delineating curves and additional speed limit signs. Our plans will add new turn lanes or remove any old turning lanes such as the one in front of the Jacksonville ARTCC, as needed. We will ensure that special emphasis crosswalks are included at signalized intersections and the two mid-block crossings for the school and the First Baptist Church. In addition, it is highly recommended that auditory and vibratory right edge lane markers be used.

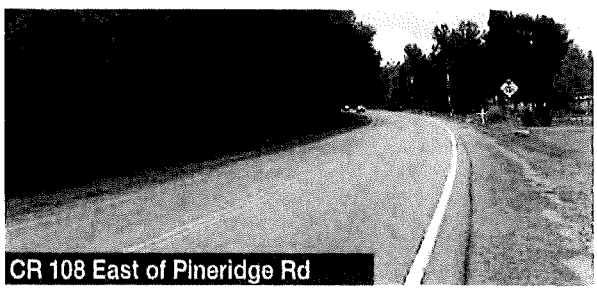
It is recommended that a No Passing Zone study be performed to ensure the adequacy of the existing striped zones and to verify if additional signage may be warranted. A no passing zone study would be prepared using the guidelines contained in Chapter 11 of FDOT's Manual on Uniform Traffic Studies. The No-Passing Zone Study will determine where it is safe to allow passing on this two-lane facility. There are seven warrants for determining no-passing zones that will be evaluated. The minimum passing sight distance and minimum stopping sight distance will be used to determine the no-passing zones. These are based on the posted speed limit and design speed, respectively. Each speed zone limit will be identified to ensure the no passing zones are properly identified.

Based on the number of crashes seen in the curve section east of Pineridge Road (8 from 1/1/14 to 11/1/19), we recommend an Advisory Speed Study. This study is based on Chapter 10 of the Manual on Uniform Traffic Studies (MUTS). The purpose of the Advisory Speed Study (Form No. 750-020-12) is to determine the safe speed a vehicle can negotiate a given horizontal curve under ideal conditions. The study is also used to determine where turn and curve signs with advisory speed plaques are required for horizontal curves. There are currently three methods that have been developed to determine advisory speeds along horizontal curves: the design speed equation, the ball-bank indicator, and accelerometer method. We recommend the ball-bank indicator as it provides real field conditions by measuring the overturning force, in degrees, on a vehicle negotiating a horizontal curve.

DRAINAGE

There are existing areas adjacent to side drains exhibiting serious erosion of the front slope of the ditches. These areas, if left unrepaired, could potentially


CR 108 at US 1


CR 108 East of Pineridge Rd

undermine the roadway. The design will look at those side drains and cross drains suffering from erosion to determine root causes and solutions to prevent future erosion.

Drainage improvements will generally be confined to improvements that increase the safety for users of the project corridor. Stormwater runoff from the roadway pavement discharges directly to roadside ditches and is then conveyed to existing outfalls located throughout the project corridor. During our field review, we noted several side-drain and cross drain end treatments that are larger than 24" and located within the clear zone that should have grates added to them to make them crashworthy. Addition of these grates would reduce the flow area at the entrance mitered end section as well as increase the head loss at the exit mitered end section which may necessitate hydraulic calculations. We also noted several mitered end sections in poor condition that should be replaced. Desilting of some of the side-drain and cross drain pipes should also be considered. There is sediment accumulation within the gutter located in the southeast quadrant of the CR 108/ US 1 intersection. The elevations along this curb return will be checked and corrections will be proposed to provide positive drainage around this curb return.

The existing pavement is exhibiting settlement at two cross drain locations (5000' west of Middle Road and 200' east of Pineridge Road). We noted previous pipe lining installations at both of these locations, however, it appears this lining may have failed. Replacement of these two cross drains should be considered.

The grass shoulder is built up at the edge of the paved shoulder in some locations. This causes runoff to be trapped by this edge and spread onto the pavement areas. These locations should be graded to allow runoff to discharge effectively to the roadside ditches.

If the existing left turn lane at US 1 is extended, we would need to take a close look at the existing drainage patterns. It does not appear to be good drainage system in place in this area as there are no defined ditches or inlets. The additional impervious may negatively impact existing drainage conditions in this area by creating ponding and spread issues. We will look closely at the existing drainage patterns between the RR and US 1, in conjunction with the crash data, to determine if adding inlets along this section of the roadway is warranted.

Erosion at Side Drain

MAINTENANCE OF TRAFFIC

Our Team is fully committed to developing a temporary traffic control plan (TTCP) that safely and efficiently moves traffic through the work zone while providing a safe working environment for construction personnel. The traffic control plan will be developed in accordance with the MUTCD and the 102-600 Series of the FDOT Standard Index.

Most of the proposed work will be through undeveloped areas and construction can be completed by using daytime lane closures. The length of allowable lane closures will be determined to ensure vehicular traffic is not unduly impaired while employing a two-way, one-lane closure plan. In the urban area, the TTCP will ensure that side streets are not closed without proper advance notice and that proper detour plans are established for when side streets need to be closed.

The project corridor includes Hilliard Middle Senior High and access to the school will be maintained during construction. The TTCP engineers will evaluate the need for temporary sidewalks, longitudinal pedestrian barriers and other devices to provide safe access for school children and persons with disabilities. Although the TTCP engineers will strive to provide safe access through the construction zone, the main goal will be to prepare a construction phasing and schedule that will require the contractor to construct the project during the summer vacation period. This will reduce conflicts and accidents during construction due to decreased traffic since the school will be out of session.

The traffic control plan will be built into the design rather than added on after the fact. That means that the TTCP engineers will work closely with roadway engineers to develop a design that simplifies construction.

Project Management Approach

Our team will be led by Tabatha Carlton, PE, who has a long history designing and managing projects. She will ensure that the County is her highest priority. She has extensive experience in designing and managing projects for numerous municipalities and understands the need to meet with Nassau County staff and Commissioners, as needed, to discuss this project. She understands that as project manager she must represent the interests of Nassau County first and foremost.

Pond implements a strong management plan for every project. Our management plan focuses on 6 key elements necessary for a successful project:

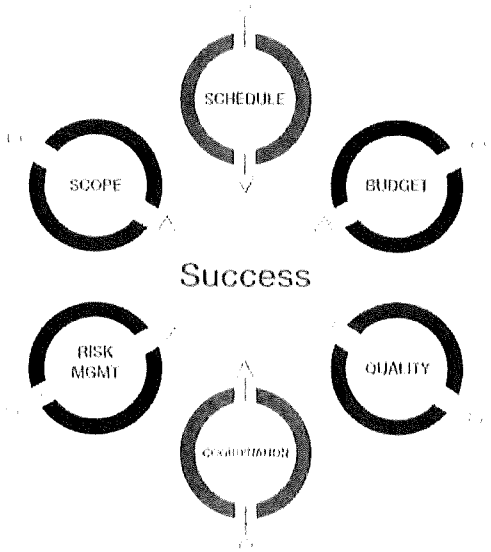
- **Scope:** For scoping, we ensure that everyone on the team understands their roles and responsibilities through organizational charts and scoping meetings. We will begin with a thorough scope meeting with Nassau County to ensure that all team members are on the same page.
- **Schedule:** The schedule, including deliverables and milestone dates, is established during the project kick-off and reviewed monthly.
- **Budget:** The budget is tracked through internal project controls and summarized on the monthly progress report submitted to the County.
- **Risk Management:** The key to risk management is to identify potential risks to the project's success early and develop ways to mitigate these risks. In addition to the team's personal experience, we will also explore our corporate Knowledge Exchange database for potential risks.
- **Communication/Coordination:** Communication and coordination efforts include internal staff, County staff, and external stakeholders. A communication plan will be developed for this project that identifies the team and stakeholders and defines when and how often they will be communicated with.
- **Quality:** We will ensure a quality product through the implementation of a Project Specific Quality Control Plan. Our QA/QC process is further discussed in Tab 5.

MANAGEMENT TOOLS

Pond provides several "value added" management software tools to our staff to assist with tracking and maintaining key management elements: Microsoft Project, Newforma Project Center, and the PM Performance Dashboard. Pond utilizes Microsoft Project to develop and track schedules for the variety of projects that are occurring simultaneously. This software allows the PM to input the tasks necessary to complete each phase of the project and then dynamically track and modify those tasks as the project progresses. This ability to have real-time information allows Pond to keep Nassau County updated on the effects that modifications to the scope of the project will have on the project schedule. This tool also assists the PM in identifying critical path tasks and preemptively spot periods that require additional resources.

Newforma Project Center allows Project Managers and other team members to track multiple projects and receive real-time information. It allows storage of project files and documents with internal and external team members having controlled access to various levels of information. In addition, emails and drawings are stored in Newforma and archived. Finally, it provides an easy way to transfer information that is too large for emails or multiple recipients that require information. Nassau County is assured that project data is organized and readily accessible.

Pond's PM Performance Dashboard provides interactive real-time information regarding the budget of the project. This program allows the Pond PM to have accurate budget information to pass on to Nassau County. Through incorporation of the negotiated fee and hourly rates for personnel classifications the PM is able to spot any potential pitfalls to the project's budget. This forward-looking information allows Pond and Nassau County to proactively manage the budget.



Subconsultant Team

Pond will be the primary point of contact for Nassau County. To complement our Project Team, we have chosen highly qualified subconsultant firms based on their experience in Nassau County, previous teaming experience with Pond Staff, and experience with projects with similar considerations. Below is a brief bio of each firm, along with their role on the project.

peters yaffee
TRANSPORTATION & TRAFFIC ENGINEERING

SIGNING, MARKING, SIGNALS, LIGHTING & DRAINAGE

Peters and Yaffee is a minority owned and certified DBE in Florida professional services consulting firm providing comprehensive professional engineering design in the fields of Traffic and Transportation Engineering. Clients consist of state, city and county municipalities, developers, architects and other engineering firms. Peters and Yaffee has completed the design of over 30 projects in Nassau County since 2008.

LAP COORDINATION, SAFETY AUDIT & RAILROAD COORDINATION

Element Engineering Group, LLC has served the engineering needs of public- and private-sector clients since 2006 in the areas of transportation engineering, structures, utilities, civil, and survey. Element has been the FDOT District 2 LAP Design team since 2015 and complete the design of improvements to CR 108 adjacent to this project.

DRMP

SURVEY

DRMP, Inc. is a privately-held and employee-owned firm striving to provide each of their clients with comprehensive professional and technical expertise to develop innovative solutions for a wide range of projects. Their mission is to achieve excellence in surveying, civil engineering, planning, environmental sciences and construction inspection services; to meet our clients' goals and objectives. DRMP has provided survey, SUE and utility coordination on Pond projects since 2006.

CSI Geo
Geotechnical · CMT · CEI

GEOTECHNICAL ENGINEERING

CSI Geo provides geotechnical engineering, CEI, and construction materials testing services throughout the Southeast. CSI Geo's 5,000 sf facility contains a fully equipped soils, concrete, and asphalt-testing laboratory certified by AASHTO, USACE and FDOT.

T2 utility engineers

UTILITY COORDINATION

T2 Utility Engineers (T2) (formerly Cardno) is a multi-disciplinary company providing a full range of professional services related to Utility Infrastructure, including Subsurface Utility Engineering (SUE), Utility Mapping, CCTV, Utility Coordination, Utility Design, and Surveying for public and private clients across Canada and the United States. In October 2019, Cardno's Utility Engineering & Surveying group demerged from Cardno and became T2 Utility Engineers.

Innovative Concepts & Cost Saving Ideas

Throughout the discussion of project issues, we have presented numerous recommendations for the County's consideration; all of which we have successfully implemented on previous projects. A summary of those recommendations are as follows:

- Use of Geofabrics to strengthen base, if needed
- Intersection improvements at Bay Rd, 1st Ave, & US 1
- Utilize high emphasis striping on all cross walks, including mid-block crossings
- Use of auditory and vibratory striping
- Install advance street warning signs for all side streets
- Add new signal heads with back plates at US 1
- Add crash worthy grates to MES on pipes over 24" diameter

Additionally, we have identified three innovative approaches that will enhance safety, shorten the overall project schedule, reduce construction costs, and minimize impacts to the travelling public.

- **Limited Survey:** We believe this is an excellent candidate for developing plans from limited survey. This would not change how the data is collected through mobile LiDAR, just the amount of data that is processed. For those areas that we know are going to require detailed design for the needed improvements, a full DTM will be obtained. Those areas on this project would include all intersections, areas were cross slope or superelevation correction is anticipated, and areas requiring drainage improvements. The roadway between these DTM areas would still need cross sections every 200' to 1000', depending on if it is in a curve or tangent section. Limited survey does not mean limited design. If there are any questions regarding the design in a specific area, we can request additional data be processed from the point cloud or verify the proposed design with a field visit and field measurements.
- **Enhance Pedestrian Safety at R/R Crossing:** The pedestrian movements at the R/R crossing are not protected and the R/R crossing is being excepted out of the project. Our first choice for correcting this situation would be to add pedestrian gates. However, we understand this would require extensive coordination with the R/R and could adversely impact our schedule and budget. It should also be noted that the R/R crossing is fairly new, so there may not have been enough pedestrian traffic to warrant a separate pedestrian gate in these quadrants. A cost effective option is installing "LOOK FOR TRAIN" signs a safe distance from the tracks.
- **Drainage:** We recommend paving to the R/W line for side street connections. This prevents dirt from being dragged onto the travel lanes and ultimately building up on the shoulders. This will result in improved safety for cars and motorcyclists by minimizing buildup on the shoulders that tends to lead to standing water on the travel lanes.
- **Increased Pavement Strength:** If it is determined that the existing sub-soils, stabilization, or base is not sufficient or does not provide an adequate structural number, we recommend exploring the use of geofabrics in lieu of full depth reconstruction. In this application, the geofabric would need to be placed between 2 lifts of Superpave. Geofabrics can also be used if muck is identified. The geofabric would be placed below the stabilization in areas of fill due to widening or superelevation correction.

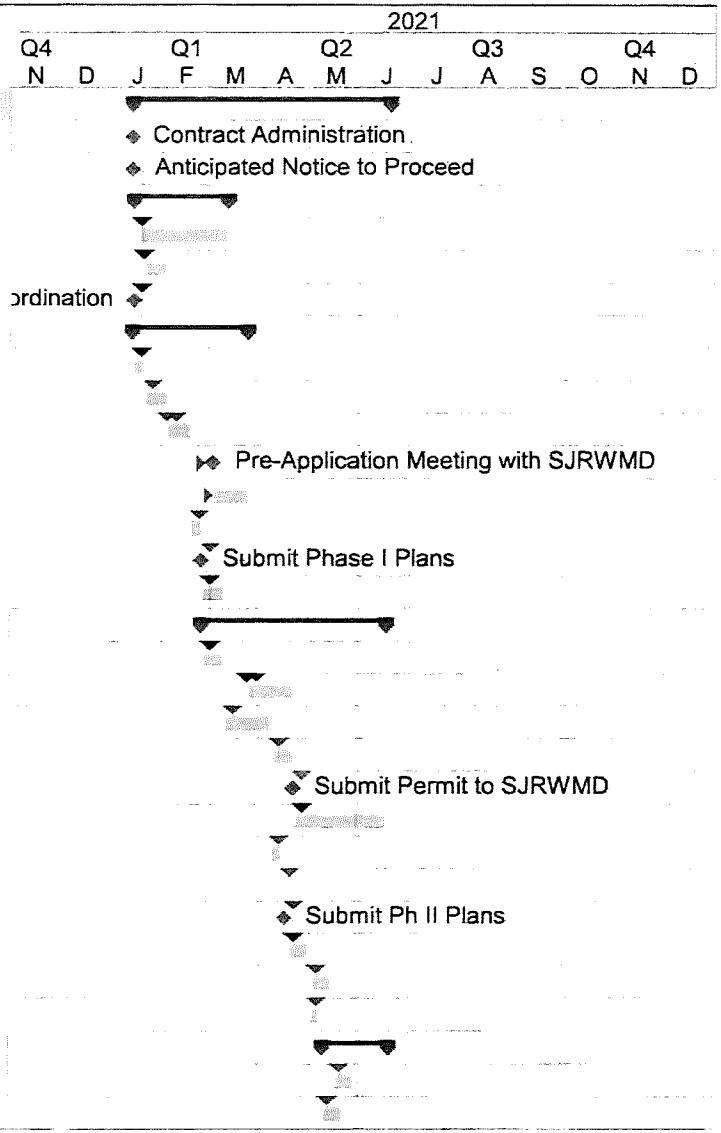
Proposed Design Schedule

A design schedule that includes all the deliverables and submittals outlined in the Scope of Services attached to the RFP would require a minimum of 11 months and would push construction to the beginning of 2022. Understanding that the County would like to construct this in the summer of 2021, we have developed a 6-month schedule that matches the design submittals shown in the County's schedule attached to the RFP of 30%, 60% and Final. If order to achieve this reduced schedule we used the following assumptions:

- We will use the limited survey approach previously discussed
- The 30% submittal will be conceptual on aerials to provide a graphically representation of recommendation in the RRR and Safety reports and to provide preliminary cost estimates.
- No R/W acquisition will be required
- For permitting, we will either be exempt or a General Permit from SJRWMD and a Nationwide Permit from USACE
- We will design around existing utilities in order to minimize or avoid impacts and expediate utility coordination.
- Nassau County and FDOT review periods will be a maximum of 10 working days.
- NTP will be issued in January 2021. If NTP is delayed, we will work with the County to identify additional schedule reductions.

Safety Improvements to CR 108

ID	Task Name	Duration	Start	Finish
1	**CR 108 Safety Improvements**	**112 days**	**Thu 1/14/21**	**Fri 6/18/21**
2	Contract Administration	0 days	Thu 1/14/21	Thu 1/14/21
3	Anticipated Notice to Proceed	0 days	Thu 1/14/21	Thu 1/14/21
4	Design Survey, Environmental and Geotech	41 days	Thu 1/14/21	Fri 3/12/21
5	Design Survey	40 days	Mon 1/18/21	Fri 3/12/21
6	Wetland Delineation	10 days	Thu 1/21/21	Wed 2/3/21
7	Begin RR Coordination	0 days	Thu 1/14/21	Thu 1/14/21
8	Preliminary Design	50 days	Thu 1/14/21	Wed 3/24/21
9	Establish Design Criteria & RRR Report	5 days	Thu 1/14/21	Wed 1/20/21
10	Prepare and Submit Roadway Safety Audit	10 days	Thu 1/21/21	Wed 2/3/21
11	Prepare Phase I (30%) Conceptual Plans	10 days	Thu 2/4/21	Wed 2/17/21
12	Pre-Application Meeting with SJRWMD	0 days	Wed 3/3/21	Wed 3/3/21
13	Geotechnical	15 days	Thu 3/4/21	Wed 3/24/21
14	QA/QC Phase I Plans	5 days	Thu 2/18/21	Wed 2/24/21
15	Submit Phase I Plans	0 days	Wed 2/24/21	Wed 2/24/21
16	Nassau & FDOT Review Ph I (30%) Design Plans	10 days	Thu 2/25/21	Wed 3/10/21
17	**Phase II Plans - 60%**	**80 days**	**Thu 2/25/21**	**Wed 6/16/21**
18	Initial Utility Contact	10 days	Thu 2/25/21	Wed 3/10/21
19	Final Geotech Report	20 days	Thu 3/25/21	Wed 4/21/21
20	Prepare Ph II (60%) Design Plans	20 days	Thu 3/11/21	Wed 4/7/21
21	Prepare Permit Documents	10 days	Thu 4/8/21	Wed 4/21/21
22	Submit Permit to SJRWMD	0 days	Wed 4/21/21	Wed 4/21/21
23	Permits Certified	40 days	Thu 4/22/21	Wed 6/16/21
24	QA/QC Ph II Design Plans And Documents	5 days	Thu 4/8/21	Wed 4/14/21
25	Ph II (60%) Design Plans Estimate	2 days	Thu 4/15/21	Fri 4/16/21
26	Submit Ph II Plans	0 days	Fri 4/16/21	Fri 4/16/21
27	Nassau & FDOT Review Ph II (60%) Design Plans	10 days	Mon 4/19/21	Fri 4/30/21
28	Final Utility Contact	10 days	Mon 5/3/21	Fri 5/14/21
29	Respond To Comments	5 days	Mon 5/3/21	Fri 5/7/21
30	**Final Plans, Specifications, & Bid Documents**	**30 days**	**Mon 5/10/21**	**Fri 6/18/21**
31	Utility Work Schedules	10 days	Mon 5/17/21	Fri 5/28/21
32	Prepare Final Design Plans	10 days	Mon 5/10/21	Fri 5/21/21

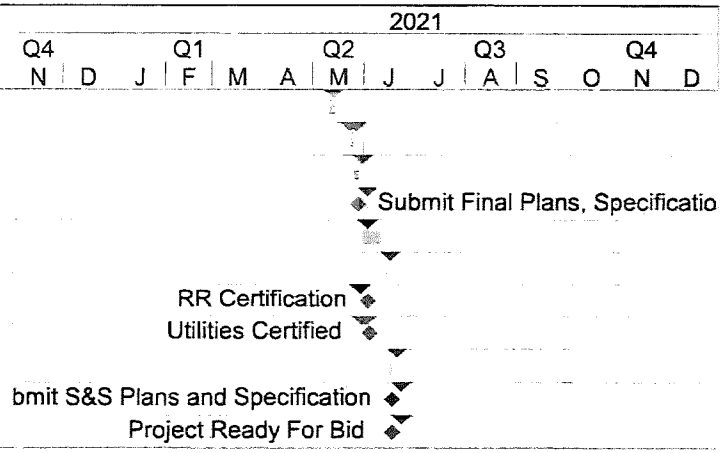


Date: Mon 11/23/20

Task — Milestone ◆ — Summary — Critical

Safety Improvements to CR 108

ID	Task Name	Duration	Start	Finish
33	Prepare Specifications	5 days	Mon 5/10/21	Fri 5/14/21
34	QA/QC Final Plans & Documents	2 days	Mon 5/24/21	Tue 5/25/21
35	Prepare Final Construction Estimate & Bid Tabs	3 days	Wed 5/26/21	Fri 5/28/21
36	Submit Final Plans, Specifications, & Bid Documents	0 days	Fri 5/28/21	Fri 5/28/21
37	Nassau & FDOT Review Final Plans & Documents	10 days	Mon 5/31/21	Fri 6/11/21
38	Respond to Comments	2 days	Mon 6/14/21	Tue 6/15/21
39	RR Certification	0 days	Thu 6/3/21	Thu 6/3/21
40	Utilities Certified	0 days	Fri 6/4/21	Fri 6/4/21
41	Prepare Signed & Sealed Plans	3 days	Wed 6/16/21	Fri 6/18/21
42	Submit S&S Plans and Specification	0 days	Fri 6/18/21	Fri 6/18/21
43	Project Ready For Bid	0 days	Fri 6/18/21	Fri 6/18/21



Date: Mon 11/23/20

Task Milestone Summary Critical

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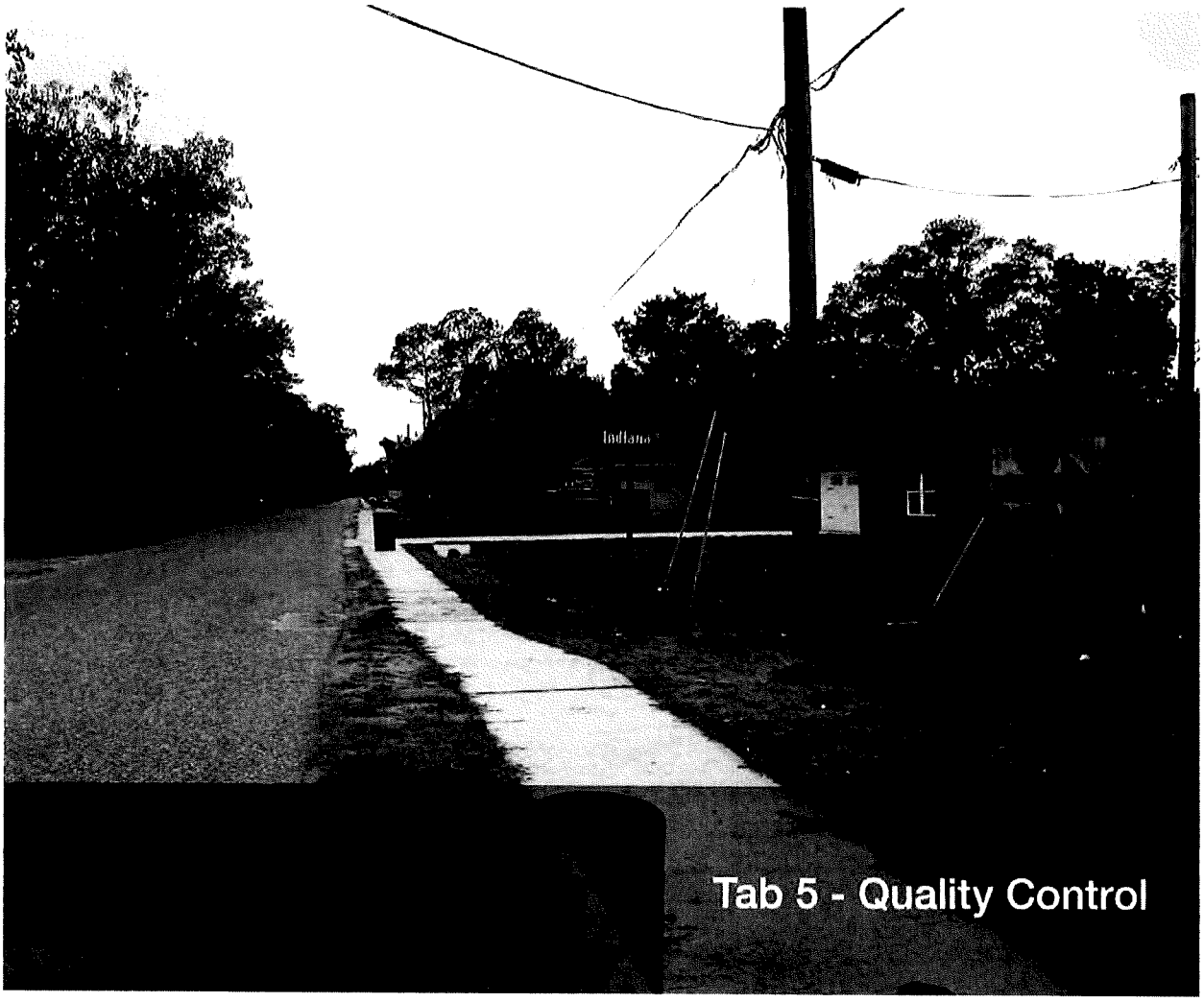
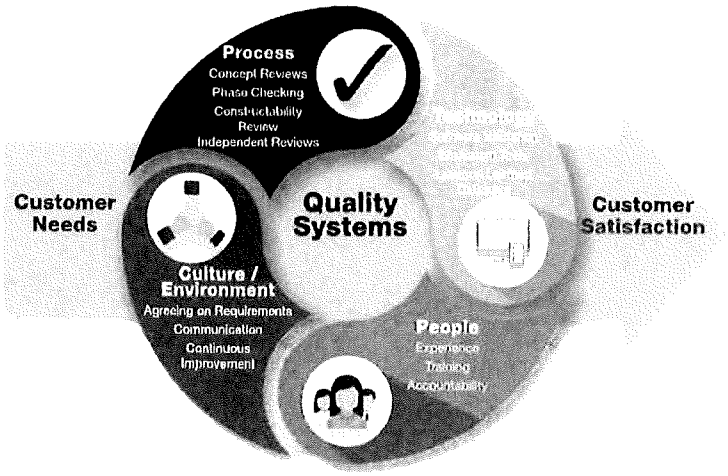


Tab 5 - Quality Control

Tab 5 - Quality Control

The goal of Pond's Quality Management System (QMS) is to convert Customer Needs into Customer Satisfaction by providing a Quality product which meets client objectives. Additionally, we will design a safe and effective facility, that can be constructed on schedule and within budget. Plans checking is often the most visible part of the Quality Management process, but our QMS includes much more than checking. Pond's QMS encompasses a thorough, integrated approach to Quality which engages: 1) Our Process, 2) Our Technology, 3) Our People, and 4) Our Culture.



PROCESS

PROJECT KICKOFF

Based on our Project Management Approach described in Tab 4 of this proposal, at the start of a project, a Project Management Plan (PMP) is developed to formally document the work plan for the project. The PMP is an important tool for communication among team members and the client, and it is a critical first step toward mapping out a strategy for successful delivery. Potential Project Risks are identified in the Project Management Plan along with proposed mitigation strategies to minimize the possible impacts to schedule or budget. Examples of these risks include potential utility conflicts, stakeholder issues, or R/W needs. By identifying risks and developing mitigation strategies at the beginning of the project, all team members are made aware of the issues and will be prepared to address them early in the design where the cost and schedule impacts are smaller compared to finding out about them in later phases or in construction, where addressing them can affect the project in both time and money. Another key aspect of the PMP is identification of individual and team responsibilities for QA/QC. The submittal schedule is established in the PMP, which clearly blocks out dates for internal plan reviews.

SUBMITTAL REVIEWS

The preliminary design submittal is a critical opportunity for our Team, Nassau County, and other approval agencies to confirm initial agreement on design direction, project milestones and standards. It is also an opportunity for our cost estimator to gauge if the design is in line with the construction budget.

The 60% design review provides an opportunity to review constructability and bid-ability issues with the contract documents. Particular attention is paid to verifying that the design is following the agreed scope and is responding to the identified critical success factors. Specific attention is paid to reviewing the clarity of the verbiage in the plans and specifications. It also focuses on several other issues:

- Is construction cost in line with available budget?
- Do methods and technologies represent state-of-the-art techniques for which proven construction methods exist?
- Is sufficient information available regarding subsurface and hydrographic conditions?
- Are there other potential unknowns that need to be clarified in the documents?
- Are site conditions fully described and accurate?

Once the design has advanced to the 90% stage, a comprehensive constructability review, which concentrates on the clarity, completeness and consistency of pre-final design documents, is conducted. The pre-final review will focus on such questions as:

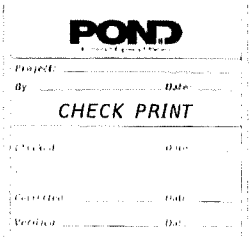
- Is there effective coordination of documents among all disciplines in the project (e.g. roadway, traffic operations, etc.), and are the design drawings consistent with bid specifications?
- Do bid documents include adequate information and clear instructions to allow bidders to price the work in a competitive manner, without incorporating factors for unknown risks?
- Are clear and adequate contract provisions included for conditions that could result in change orders due to lack of sufficient information?
- Are plans fully compatible with actual conditions?

DOCUMENT CHECKING

In keeping with our policy and sound engineering practice, all design analyses, drawings, specifications, cost estimates, other contract documents and reports produced by Pond are to be checked prior to submission to clients. The project manager or project engineers for specific disciplines appoint experienced engineers as checkers. Checkers are expected to perform their checking independent of the engineers who prepared the design. The checker should have experience equal to or greater than that of the designer. A set of check prints will be formalized to document the checking process. Different colors are used to identify the various stages of the checking process.

is used by the checker to indicate agreement, and all lines, dimensions and written text are to be yellowed-in if correct.

- **Red** is used by the checker to indicate corrections and additions.
- **Green** is used by the backchecker to indicate approval of checker's changes, plus additional changes as agreed to by checker.
- **Blue** is used to indicate that changes to the document original have been made.
- **Green** is also used to verify that the change to the document original is correct.
- **Black** is used for non-record comments or instructions.



Check prints are formalized through the addition of a check print stamp. On the stamp, each participant in the checking process signs on the appropriate line, indicating that that stage of the process is completed. In order to avoid Change Orders and Claims during the construction of this project, it is extremely important to avoid any and all errors and omissions in the design plans and specifications. In order to achieve this goal on this project, our team will strictly adhere to QA/QC requirements.

CONSTRUCTABILITY

During the pre-final constructability review, one or more senior engineers will review the project using checklists developed from lessons learned on previous projects, their own experience, and the FDOT's Construction Project Administration Manual (CPAM). By utilizing the CPAM checklist, which was developed by FDOT CEI and Construction staff responsible for construction quality in the field, we are looking at the project through the CEI and Construction Personnel's eyes, which has proven to reduce change orders and claims. An important part of the Constructability Review is a plans-in-hand review in the field between the Reviewer and EORs. These plan-in-hand reviews have proven to be effective tool in finding changes in existing conditions and any issues that need additional detailing to avoid contractor change orders and delay.

TECHNOLOGY

Technology is an integral part of our project delivery. We perform our design utilizing CADD software, custom spreadsheets, and specialized programs for analyses such as drainage, signing, roadway geometry, and structures. Technology ensures that we use the most current methodologies in both design and production and therefore provides important contributions to quality but also incurs additional responsibility in pursuit of quality due to its technology's ability to make errors more difficult to identify while also being able to duplicate errors multiple times if left unidentified.

Pond's QMS utilizes several methods to address quality in electronic delivery. First, we utilize software validation to verify new and updated software. This involves utilizing established "test cases" that have been thoroughly checked for expected results for each software program that we use. As new versions of analysis programs are released, we run the test cases in the updated software to ensure that the results match the verified test case. This provides confidence that new software versions perform as expected. We also use technology to verify plan integrity. Utilizing Bluebeam software, in the checking process, we overlay previous versions of drawings with the newest version of the same drawing. This overlay mode highlights in color those areas which have changed between the two files, allowing the EOR and Designer to verify that only those changes intended to be incorporated have been made to the drawing.

Another technology platform that Pond uses to ensure file version integrity and establish project documentation is Newforma. The Newforma platform allows us to send and receive large file submittals and stores project emails in the project record. The software is integrated into our Microsoft Outlook program, ensures that every version of our design files sent or received is readily accessible and can be retrieved by keyword search. During construction,

Newforma can track receipt and responses to RFIs and Shop Drawing Submittals. The Newforma Submittal review platform can send reminders and reports to all parties, allowing full transparency of the status of the construction review pipeline.

PEOPLE

Our greatest assets in the path to quality are Pond's responsible professionals providing planning, coordination, supervision, technical direction, design, and plans production. Pond's QA/QC Program is the responsibility of all the team members. Experienced, qualified individuals who are not directly responsible for performing the work will verify our team's quality through checking, reviewing and oversight of all design activities.

Our Quality Control program is designed to:

- Include all levels of the project team
- Ensure that quality assurance and control are an integral part of the project from day #1 and not just an "end of job" review
- Ensure that documents are technically complete, workable, and within budgetary and scheduling guidelines (provide cost and schedule control)
- Commit the resources necessary to achieve the objectives established by Nassau County
- Ensure frequent communication on progress, problems, and accomplishments
- Provide periodic review of project performance related to the planned schedule and budget goals.

The project team members identified in Tab 3 offer an average of 25+ years of experience designing similar projects. This wealth of experience ensures that our team can anticipate key issues and potential challenges in order to address them early in the project to minimize impacts to budget and schedule. We provide continuous training opportunities through Pond's Center of Learning and Innovation to foster continued advancement and growth for our employees.

CULTURE

At POND, Quality is more than a checklist or color-coded plan review set. Quality is integrated into every aspect of our business. Pond's QMS is designed to ensure that all aspects of our operations contribute to an end product which effectively meets client objectives.

Fundamental Aspects of Quality:

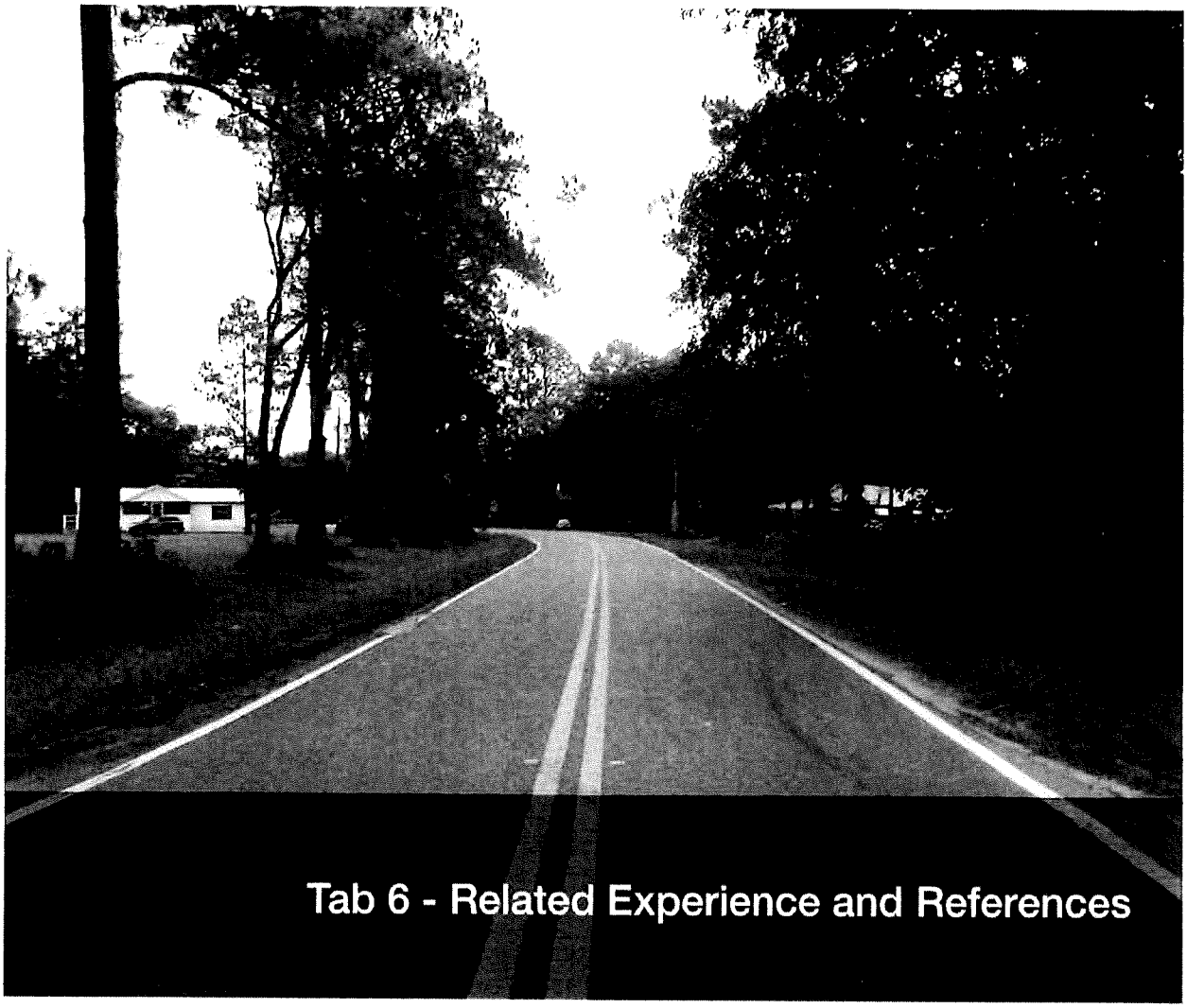
1. Quality Is Defined as Conformance to Requirements. Requirements must be identified and mutually agreed to by the client, the project manager and senior project staff before work on the project begins.
2. The System for Achieving Quality Is Prevention. This occurs by working to avoid problems, identifying the causes when they occur and taking the steps necessary to eliminate the conditions that cause them.
3. The Performance Standard Is Zero Defects. This precise quality standard requires a personal commitment to take requirements seriously. Conventional standards convey the impression that some level of error and wasted effort are acceptable. This must not be the case.
4. The Measurement of Quality is the Cost of Nonconformance, or the cost of doing things wrong. Measurement of the cost of wasted effort and the "fix" to make things right is a good tool for identifying areas needing attention and setting priorities for the elimination of problems. To ensure outstanding quality at all steps within a project, POND builds quality assurance and quality control into all aspects of our operation.

COMMITMENT TO CONTINUOUS IMPROVEMENT

Every project has the potential for unforeseen conditions, and every design has the possibility of being subject to human error. The goal of Pond's QMS is to identify, avoid, and mitigate for those potential conditions and, importantly, to learn from past issues for the benefit of every project. The experience gained in previous project reviews will accumulate over the life of the contract and will apply to future projects as well. During construction, our design teams receive feedback from the field regarding actual implementation practices. Our Team maintains a list of "lessons learned" on all projects in an online database. At project closeout, a "Lessons Learned" meeting is conducted, each issue is discussed, and the item and solution are entered into our web-based database. This then makes the issue available for all future projects. For each new project, the Project Manager searches the lessons learned database for potential issues that could be associated with the current project, provides a list to all design and review team members to use in the design and review process, and discusses each item during the design project kickoff meeting.

Pond also looks to our customers to identify areas for improvement. Pond engages a third party to perform annual client surveys every year to get honest feedback from our customers regarding our performance, quality, communication, and responsiveness.

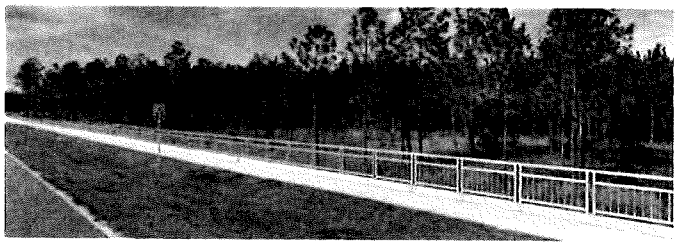
POND

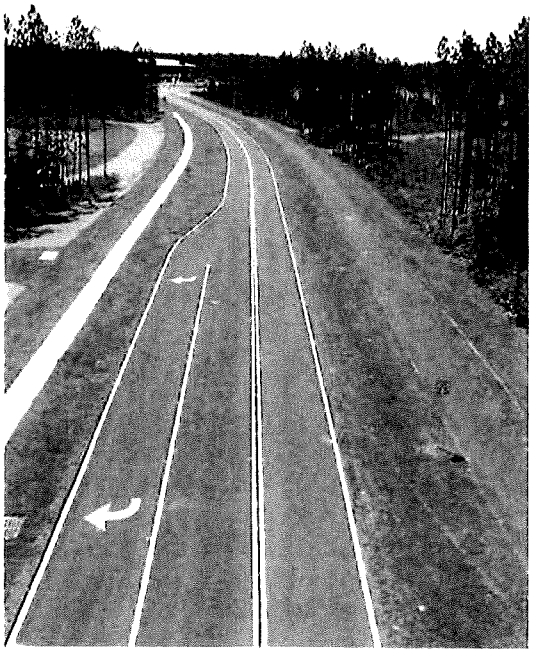


Tab 6 - Related Experience and References

Wildlight Avenue Extension, Nassau County School Board

Nassau County, Florida





Project Description:

Pond completed the roadway design of this important extension of Wildlight and Curiosity Avenues to connect not only Wildlight Elementary School to SR 200 but to William Burgess Boulevard as well.

Project work included complete engineering, drainage, and signing and pavement marking design for this 1.5-mile new roadway. The project consists of two 12-ft lanes, a 5-ft sidewalk on one-side and a 12-ft multi-use path along the entire length of the project. Drainage design included a hybrid system of open swales and a closed storm sewer system. Additional tasks included minimizing wetland impacts by reducing the footprint of the road through the use of retaining walls.

The project required extensive coordination with Nassau County Staff and the Nassau County School Board to ensure that the design met County standards while providing the desired vehicular and pedestrian connectivity to the school.

Dates: 2015-2017

Contract Value: $185K

Construction Value: $3.4M

Services Performed

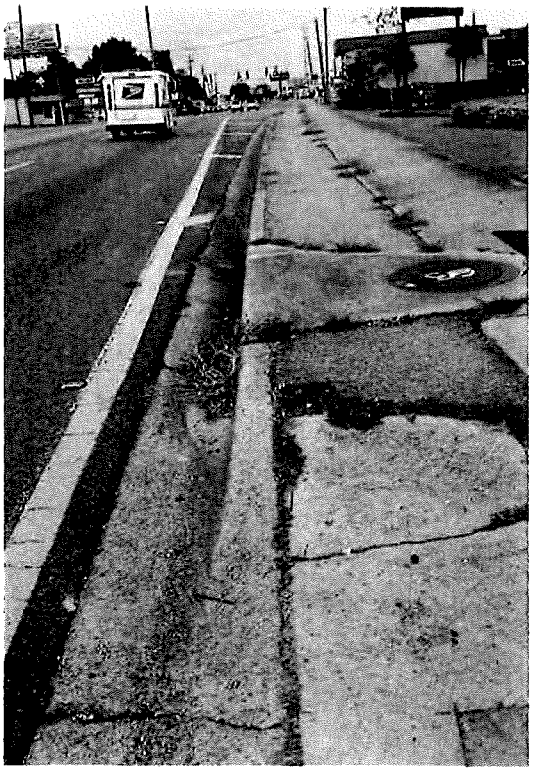
Roadway Design, Multi-Use Path Design, Drainage, SAPM, Landscape Architecture

Owner Contact:

Jeffrey Bunch | Nassau County School Board
p: 904.225.5343 | f: 904.225.0094
jeffrey.bunch@nassau.k12.fl.us
86334 Goodbread Rd. | Yulee, FL 32097

SR 189/Beal Parkway Resurfacing & Intersection Improvements, FDOT District 3

Fort Walton Beach, Florida



Project Description:
This project consisted of resurfacing and intersection improvements on SR 189 in Fort Walton Beach, Florida. The milling and resurfacing project included 1 mile of a 4-lane divided urban arterial and pedestrian upgrades, including installation of nearly 1 mile of new sidewalk to fill in gaps and meet ADA requirements. Project constraints included limited Right-of-Way and extensive utility conflicts.

Additionally, the intersection of SR 189 and Carmel St/ Clifford St was improved as part of this project. Pond provided the design for extending the turn lanes on SR 189 and formalizing a left turn lane on Clifford St. The drainage design included replacing inlets and pipe due to turn lane widening. The original scope included R/W acquisition but Pond was able to develop an alternate design to widen to the median and eliminate the need for additional R/W and reduce the project schedule and cost. This project included roadway design, signing and pavement marking plans, signal design, temporary, traffic control plans, utility relocations, and drainage design.

Dates: 2015-2018

Contract Value: $675K

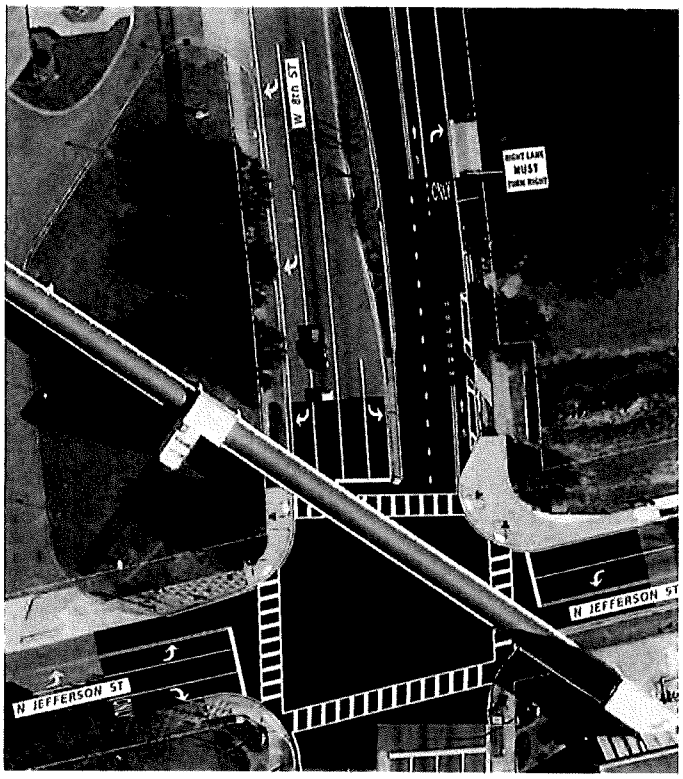
Construction Value: $1.5M

Services Performed
Roadway Design, Sidewalk Design, Signal Design, Lighting, Drainage, SAPM

Owner Contact:
Kerrie Harrell, PE | FDOT District 3
p: 850.330.1513 | f: 850.330.1148
Kerrie.Harrell@dot.state.fl.us
Highway 90 East | Chipley, Florida 32428-0607

8th Street Improvements, JTA

Jacksonville, Florida



Project Description:

This project includes modifications to the 8th Street in Jacksonville, Florida. Pond initially identified safety and intersection modifications through a Complete Streets Study for the JTA. These modifications include pedestrian improvements, ADA curb ramp improvements, pedestrian signal improvements, keyhole bike lanes, shared lane bicycle markings, milling and resurfacing and signal loop replacement.

Intersection improvements will include milling & resurfacing; turn lane additions; crosswalks adjustments; curb ramp reconstruction; concrete separator design at one intersection; and the addition of bike lanes in some areas. Signal improvements included the addition of a Rectangular Rapid Flashing Beacon (RRFB) for the S-Line Rail Trail Crossing. All intersections are receiving updated pedestrian signals to match new curb ramp configurations. Vehicle detecting loops will be replaced as impacted by the milling and resurfacing operations. Additionally, utility improvements will include the replacement of a 12-inch water main between Francis and Boulevard Street for JEA.

Dates: 2017-Current

Contract Value: $500K

Construction Value: $2.5M

Services Performed

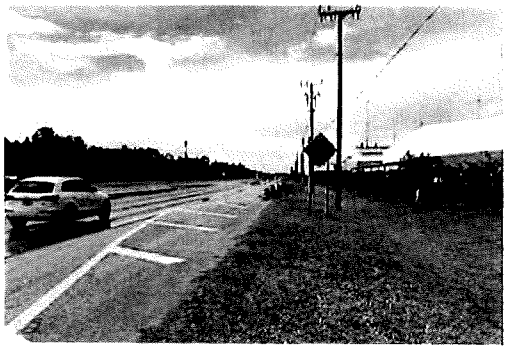
Roadway Design, Sidewalk & Pedestrian Improvements, Signal Design, Lighting, SAPM

Owner Contact:

Andy Rodgers, PE | JTA
p: 904.633.8537 | f: 904.630.3166
acrodgers@jtafla.com
121 West Forsyth St, Ste 200 | Jacksonville, FL 32202

SR 5 Sidewalks & Drainage, FDOT District 2

St. Johns County FL



Project Description:

This project will add sidewalk and lighting along both sides of SR 5/US 1 from south of Bella Vista Boulevard to Big Oak Road in St. Johns County. Pond led the design effort on this project. Challenging issues included limited R/W, drainage impacts, utility impacts, and archeological concerns. Pond utilized 3D design to accurately show our fill limits which allowed us to minimize wetland and R/W impacts. The drainage impacts consisted of piping 1000 LF of ditches, utilizing ICPR to ensure the required capacity was maintained in all ditch sections, and resetting several storm drain systems to provide the necessary HGL clearances for the system operate probably and be self-cleaning.

Dates:
2016-2019

Contract Value: $1.2M

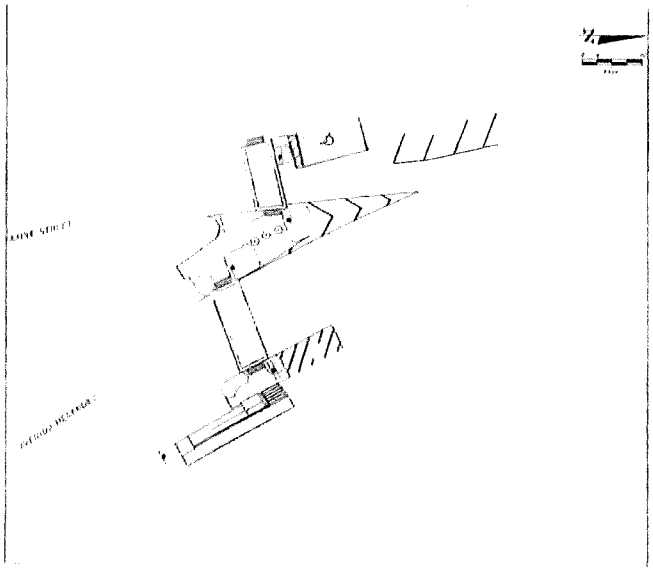
Construction Value: $3M

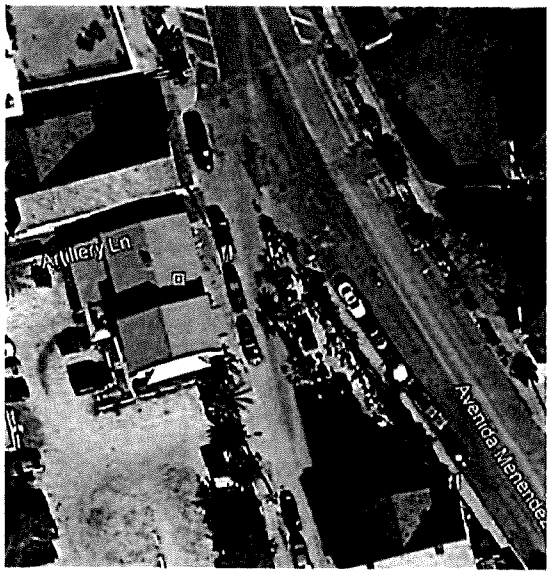
Services Performed
Roadway Design, Sidewalk & Pedestrian Improvements, Drainage Design, SAPM

Owner Contact:
Renee Brinkley | FDOT District 2
p: 386-961-7392 | f: N/A
Renee.Brinkley@dot.state.fl.us
1109 South Marion Avenue | Lake City, FL 32025

City of St. Augustine Continuing Contract

St. Augustine, Florida





Project Description:

Pond has a Continuing Service contract with the City of St. Augustine for roadway, traffic, and transportation engineering. As part of this contract, we have worked on several traffic safety studies and a mid-block crossing.

Mid-block Crossing on Avenida Menendez at Marina Street serving the St. Augustine Municipal Marina. The main purpose of the project is to enhance pedestrian access. Pond was tasked with developing a concept for this three-legged intersection and then preparing final design plans for construction. Unique elements of this design included incorporating the City of St. Augustine's Architectural guidelines for pavers and handrail coatings into the design, replacing steps with a pedestrian ramp, and providing a pedestrian detour during construction.

North Davis Shores Neighborhood Study: Pond worked with the historic North Davis Shores community to identify potential solutions to speeding, cut-through traffic, and overflow parking concerns due to the impact of the nearby Bridge of Lions and commercial corridor along A1A. Several solutions ranging from small tactical modifications to larger infrastructure investments were proposed to provide an appropriate range of potential solutions to the neighborhood.

Dates: 2018-Current

Contract Value: $80K

Construction Value: TBD

Services Performed

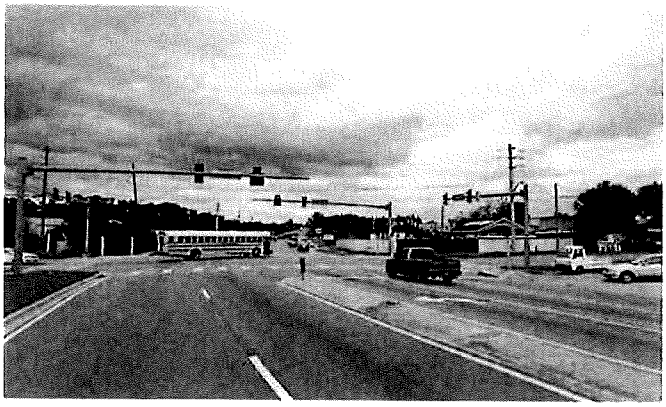
Traffic Design, Sidewalk & Pedestrian Improvements, Signal Design, SAPM

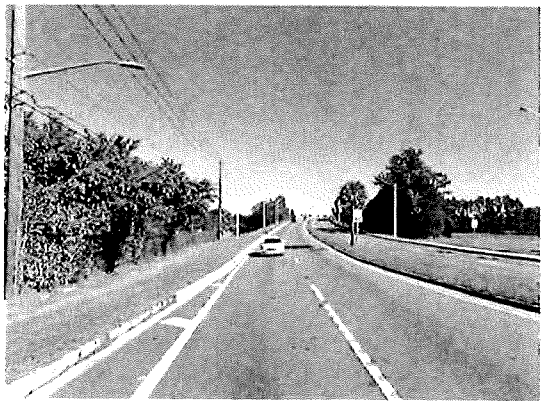
Owner Contact:

Reuben Franklin, PE | City of St. Augustine
p: 904.209.4279 | f: N/A
RFranklin@citystaug.com
75 King Street | St. Augustine, FL 32084

SR 111 Resurfacing, FDOT District 2

Jacksonville, Florida





Project Description:

This project involves milling and resurfacing SR 111 as well as safety and ADA upgrades, vehicular and pedestrian signals, drainage improvements, and lighting. The first phase of this project included providing sidewalk continuity between Ina Street and Edgewood Drive. This phase included the addition of 1800 LF of sidewalk along Edgewood Avenue which required modifications to the 800 ft bridge over CSX and Norfolk Southern Railroads. To reduce construction impacts over the active rail yard, Pond Staff developed an innovative approach to provide a 5 ft sidewalk within the existing bridge footprint by relocating the existing parapet toward the travel lanes, taking advantage of the available bridge shoulder width. The first phase provided a sidewalk, handrail, and guardrail along the Northbound side of the bridge.

In the second phase, improvements included milling and resurfacing, drainage improvements, traffic signals, lighting, signing & pavement marking, and guardrail on SR 111 from Old Kings Road to US 1. In addition to roadway and maintenance of traffic services; specialty items included details for new electrical service required for additional overhead roadway & pedestrian lighting, cleaning and installation of new joint sealant at bridge expansion joints, and railroad coordination for work over the active rail yard.

Dates: 2012-2017

Contract Value: $700K

Construction Value: $2M

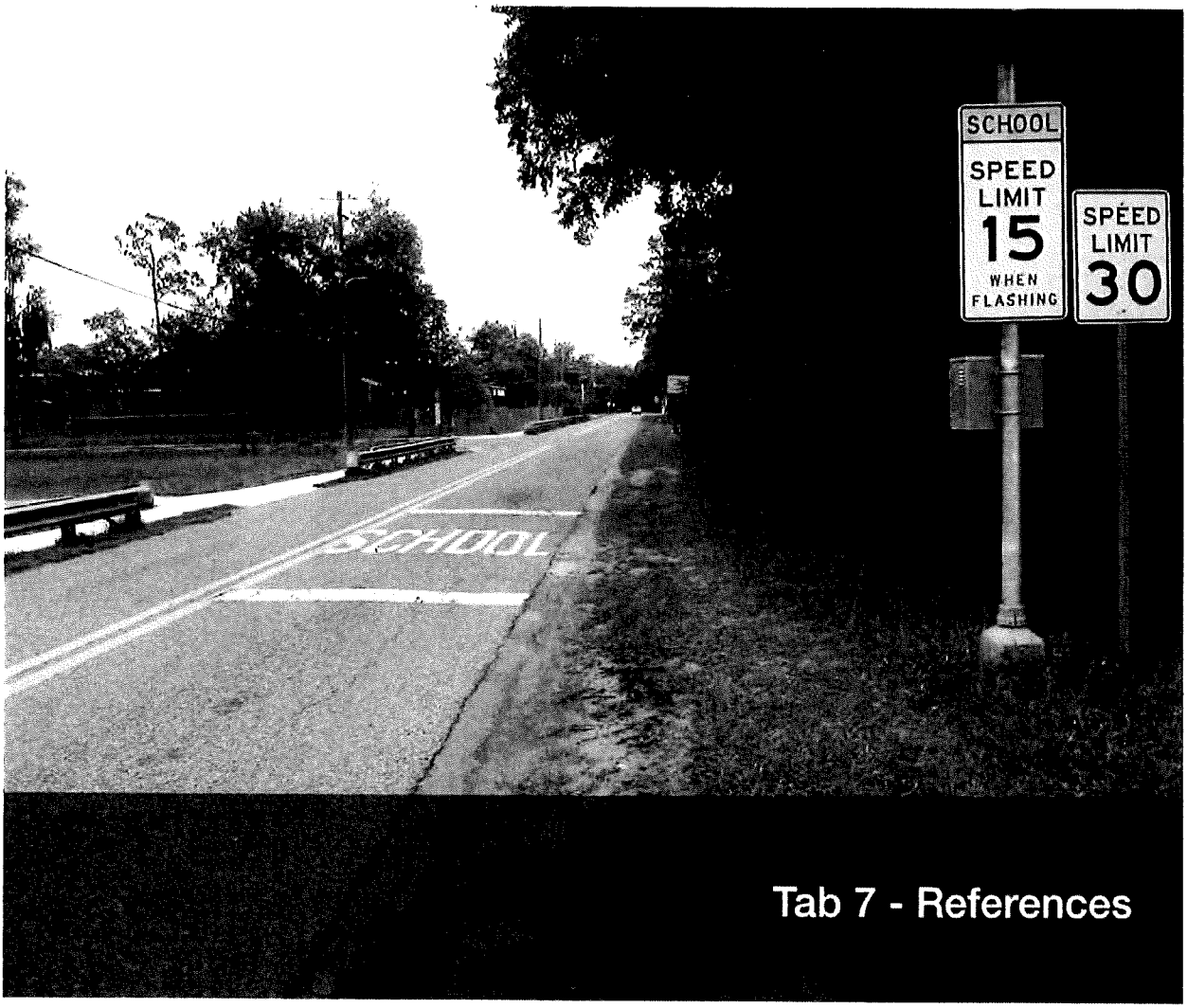
Services Performed

Roadway Design, Sidewalk & Pedestrian Improvements, Signal Design, Lighting, SAPM

Owner Contact:

Will Lyons | FDOT District 2
p: 904.360.5574 | f: N/A
will.lyons@dot.state.fl.us
2198 Edison Avenue | Jacksonville, FL 32204

POND



Tab 7 - References

Tab 7 - References

Florida Department of Transportation

RON DESANTIS
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

KEVIN J. THIBAULT, P.E.
SECRETARY

November 8, 2019

RE: Letter of Recommendation

To Whom It May Concern:

Please allow this to serve as a letter of recommendation for Pond and Company (Pond). As a Project Manager for FDOT District 2, I have recently had the opportunity to work with Pond on the Interstate 10 over Piddlin' Creek bridge replacement project in Madison County. This project has completed the Preliminary Engineering & Design (PDE) phase and has transitioned into the design phase.

Pond demonstrated a high level of competence in design and project management. It is my absolute pleasure to offer this letter of recommendation for Pond. Please feel free to contact me with any questions.

Sincerely,

Brittany P. Chastain
Project Manager
Planning & Environmental Management Office
FDOT, District Two
1109 S. Marion Avenue
Lake City, FL 32025
386-961-7520

www.fdot.gov

Florida Department of Transportation

RON DESANTIS
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

KEVIN J. THIBAULT, P.E.
SECRETARY

November 6, 2019

RE: Letter of Recommendation

To Whom It May Concern:

Please allow this to serve as a letter of recommendation for Pond and Company (Pond). As a Project Manager for FDOT District 2, I have had the opportunity to work with Pond on several projects including most recently the CR 18/ Hampton Trail, the Hastings Trailhead, and the design for sidewalk additions on SR 21 from Collins Road to Wells Road. These projects provide a great example of the quality of work that Pond produces.

All projects required close coordination with adjacent projects and multiple agencies. The CR 18/Hampton Trail project included 3 segments of the Palatka to Lake Butler trail and is scheduled for construction in 2021 and 2022. Construction has been completed on the Hastings Trailhead and SR 21 sidewalk projects.

Pond demonstrated a high level of competence in design and project management. It is my pleasure to offer this letter of recommendation for Pond. Please feel free to contact me with any questions.

Sincerely,

Aaron Kaster

Aaron Kaster, PE
Project Manager
(386.961.7481)

www.fdot.gov

ONE CITY ONE JACKSONVILLE

City of Jacksonville, Florida

Lenny Curry, Mayor

Department of Public Works
Engineering & Construction Management Division
214 N. Hogan Street, 10th Floor
Jacksonville, FL 32202
(904) 255-8762
www.coj.net

November 12, 2019

To Whom It May Concern:

Please allow this to serve as a project satisfactory letter for Pond and Company (Pond). I am currently serving as the City of Jacksonville Project Manager on two projects with Pond as the Prime Consultant. Pond is currently serving as the Owner's Representative for The District and has just kicked off the design for the Model Mile for the Emerald Trail.

For The District, Pond is serving as Owner's Representative and reviewing the Developer's engineering plan submittals to ensure compliance with City of Jacksonville regulations. Additionally, their team will provide Construction Engineering Inspection services. This high-profile redevelopment project has elements related to public infrastructure including roadways, parks, trails, and waterfront amenities.

While the Emerald Trail project has just begun, Pond has displayed flexibility and professionalism working with this public private partnership project which is a joint effort between the City of Jacksonville and the non-profit group Groundwork Jacksonville. This multi-use trail, once complete, will provide 33 miles of connected greenways, parks, residential neighborhoods, businesses, and commercial establishments.

To date, their performance has been satisfactory and met all city budget and project schedules and their related requirements. If I can provide any additional information regarding this writing, please feel free to contact me with any questions.

Sincerely,

Kelsey Cox

Kelsey Cox, PE
Project Manager
Public Works
City of Jacksonville
(904) 255-8931

POND

ATTACHMENT "B"

Addendum Acknowledgment

Acknowledgment is hereby made of receipt of addenda issued during the solicitation period. **BID NO. NC20-024**	Addendum #1 through #1 Initial: Date: **11/24/2020**
Person Completing RFQ (Signature)	
Name (Printed): **Nina C. Sickler, PE**	Title: **Vice President**

>>>Failure to submit this form may disqualify your response<<<

ATTACHMENT "C"

NASSAU COUNTY

SWORN STATEMENT UNDER SECTION 287.133(3)(a),
FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES

TO BE RETURNED WITH BID

THIS MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICER AUTHORIZED TO ADMINISTER OATHS

1. This sworn statement is submitted with Bid, Proposal or Contract for **Design Services - Safety Improvements CR 108 Bay Road to Middle Road (NC20-024)**

2. This sworn statement is submitted by **Pond & Company** (entity submitting sworn statement), whose business address is **1200 Riverplace Blvd, Suite 600, Jacksonville, Florida 32207** and its Federal Employee Identification Number (FEIN) is **58-1639128**. (if the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement:_____).My name is ___ (please print name of individual signing), and my relationship to the entity named above is **Nina C. Sickler, Vice President**.

3. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including, but not limited to, any bid or contract for goods or services, any leases for real property, or any contract for the construction or repair of a public building or public work, to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

4. I understand that "convicted" or "conviction" as defined in paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction or a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, non-jury trial, or entry of a plea of guilty or nolo contendere.

5. I understand that an "affiliate" as defined in paragraph 287.133(1)(a), Florida Statutes, means:
   a) A predecessor or successor of a person convicted of a public entity crime; or
   b) An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime.

The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not to fair market value under an arm's length agreement, shall be prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding thirty-six (36) months shall be considered an affiliate.

6. I understand that a "person" as defined in Paragraph 287.133(1)(e), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into binding contract and which bids or applies to bid on contracts let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

7. Based on information and belief, the statement, which I have marked below, is true in relation to the entity submitting this sworn statement. (Please indicate which statement applies.)

_X_ Neither the entity submitting this sworn statement, nor any of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, nor any affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989.

_____ The entity submitting this sworn statement, or one of more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989, and (Please indicate which additional statement applies.)

_____ There has been a proceeding concerning the conviction before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the Hearing Officer did not place the person or affiliate on the convicted vendor list. (Please attach a copy of the final order.)

_____ The person or affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate from the convicted vendor list. (Please attach a copy of the final order.)

_____ The person or affiliate has not been placed on the convicted vendor list. (Please describe any action taken by or pending with the Department of General Services.)

(Signature)

November 23, 2020
Date

STATE OF FLORIDA
COUNTY OF Florida

PERSONALLY APPREARED BEFORE ME, the undersigned authority, Dina Beckler, who, after first being sworn by me, affixed his/her signature in the space provided above on this 19 day of November, 2020.

(Notary Public)

My Commission Expires: 3/16/24 (seal)

DONNA M. MCQUADE
MY COMMISSION # GG 956955
EXPIRES: March 16, 2024
Bonded Thru Notary Public Underwriters

ATTACHMENT "D"

DRUG FREE WORKPLACE CERTIFICATE

I, the undersigned, in accordance with Florida Statute 287.087, hereby certify that _____

Pond & Company (print or type name of firm)

- Publishes a written statement notifying that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance in the workplace named above, and specifying actions that will be taken against violations of such prohibition.

- Informs employees about the dangers of drug abuse in the workplace, the firm's policy of maintaining a drug free working environment, and available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug use violations.

- Gives each employee engaged in providing commodities or contractual services that are under bid or proposal, a copy of the statement specified above.

- Notifies the employees that as a condition of working on the commodities or contractual services that are under bid or proposal, the employee will abide by the terms of the statement and will notify the employer of any conviction of, plea of guilty or nolo contendere to, any violation of Chapter 1893, or any controlled substance law of the State of Florida or the United States, for a violation occurring in the work place, no later than five (5) days after such conviction, and requires employees to sign copies of such written statement to acknowledge their receipt.

- Imposes a sanction on, or requires the satisfactory participation in, a drug abuse assistance or rehabilitation program, if such is available in the employee's community, by any employee who is so convicted.

- Makes a good faith effort to continue to maintain a drug free work place through the implementation of a drug free work place program.

"As a person authorized to sign a statement, I certify that the above named business, firm, or corporation complies fully with the requirements set forth herein."

Authorized Signature

11/23/2020

Date Signed

State of: Florida

County of: Nassau

Sworn to and subscribed before me this 19 day of November, 2020

Personally known ✓ or Produced Identification _____

(Specify type of Identification)

Notary Public

3/16/24

My commission expires

DONNA M. MCQUADE
MY COMMISSION # GG 956955
EXPIRES: March 16, 2024
Bonded Thru Notary Public Underwriters

ATTACHMENT "E"

FDOT Form 375-040-84 -LAP Terms for Federal Aid Contracts

LOCAL AGENCY PROGRAM FEDERAL-AID TERMS For PROFESSIONAL SERVICES CONTRACTS

TERMS FOR FEDERAL AID CONTRACTS (APPENDIX I):

The following terms apply to all contracts in which it is indicated that the services involve the expenditure of federal funds:

A. It is understood and agreed that all rights of the Local Agency relating to inspection, review, approval, patents, copyrights, and audit of the work, tracing, plans, specifications, maps, data, and cost records relating to this Agreement shall also be reserved and held by authorized representatives of the United States of America.

B. All tracings, plans, specifications, maps, computer files and/or reports prepared or obtained under this Agreement, as well as all data collected, together with summaries and charts derived therefrom, will be considered works made for hire and will become the property of the Agency upon completion or termination without restriction or limitation on their use and will be made available, upon request, to the Agency at any time during the performance of such services and/or completion or termination of this Agreement. Upon delivery to the Agency of said document(s), the Agency will become the custodian thereof in accordance with Chapter 119, Florida Statutes. The Consultant will not copyright any material and products or patent any invention developed under this agreement. The Agency will have the right to visit the site for inspection of the work and the products of the Consultant at any time.

C. It is understood and agreed that, in order to permit federal participation, no supplemental agreement of any nature may be entered into by the parties hereto with regard to the work to be performed hereunder without the approval of the U.S. Department of Transportation, anything to the contrary in this Agreement not withstanding.

D. The consultant shall provide access by the Florida Department of Transportation (recipient), the Agency (subrecipient), the Federal Highway Administration, the U.S. Department of Transportation's Inspector General, the Comptroller General of the United States, or any of their duly authorized representatives to any books, documents, papers, and records of the consultant which are directly pertinent to that specific contract for the purpose of making audit, examination, excerpts, and transcriptions.

E. Compliance with Regulations: The Consultant shall comply with the Regulations: relative to nondiscrimination in Federally-assisted programs of the U.S. Department of Transportation Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this Agreement.

F. Nondiscrimination: The Consultant, with regard to the work performed during the contract, shall not discriminate on the basis of race, color, national origin, sex, age, disability, religion or family status in the selection and retention of subcontractors, including procurements of material and leases of equipment. The Consultant shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.

G. Solicitations for Subcontracts, Including Procurements of Materials and Equipment: In all solicitations made by the Consultant, either by competitive bidding or negotiation for work to be performed under a subcontract, including procurements of materials and leases of equipment, each potential subcontractor or supplier shall be notified by the Consultant of the Consultant's obligations under this contract and the Regulations relative to nondiscrimination on the basis of race, color, national origin, sex, age, disability, religion or family status.

H. Information and Reports: The Consultant will provide all information and reports required by the Regulations, or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Local Agency, Florida Department of Transportation, Federal Highway Administration, Federal Transit Administration, Federal Aviation Administration, and/or Federal Motor Carrier Safety Administration to be pertinent to ascertain compliance with such Regulations, orders and instructions. Where any information required of the Consultant is in the exclusive possession of another who fails or refuses to furnish this information, the Consultant shall so certify to the Local Agency, Florida Department of Transportation, Federal Highway Administration, Federal Transit Administration, Federal Aviation Administration, and/or the Federal Motor Carrier Safety Administration as appropriate, and shall set forth what efforts it has made to obtain the information.

I. Sanctions for Noncompliance: In the event of the Consultant's noncompliance with the nondiscrimination provisions of this contract, the Local Agency shall impose such contract sanctions as it or the Florida Department of Transportation, Federal Transit Administration, Federal Aviation Administration, and/or Federal Motor Carrier Safety Administration may determine to be appropriate, including, but not limited to,

   1. withholding of payments to the Consultant under the contract until the Consultant complies and/or
   2. cancellation, termination or suspension of the contract, in whole or in part.

J. Incorporation or Provisions: The Consultant will include the provisions of Paragraph C through K in every subcontract, including procurements of materials and leases of equipment unless exempt by the Regulations, order, or instructions

issued pursuant thereto. The Consultant shall take such action with respect to any subcontract or procurement as the Local Agency, Florida Department of Transportation, Federal Highway Administration, Federal Transit Administration, Federal Aviation Administration, and/or the Federal Motor Carrier Safety Administration may direct as a means of enforcing such provisions, including sanctions for noncompliance. In the event a Consultant becomes involved in, or is threatened with, litigation with a subconsultant or supplier as a result of such direction, the Consultant may request the Local Agency to enter into such litigation to protect the interests of the Local Agency, and, in addition, the Consultant may request the United States to enter into such litigation to protect the interests of the United States.

K. Compliance with Nondiscrimination Statutes and Authorities: Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d et seq., 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21; The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects); Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 et seq.), (prohibits discrimination on the basis of sex); Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 et seq.), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27; The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 et seq.), (prohibits discrimination on the basis of age); Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex); The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not); Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 -- 12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38; The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex); Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations; Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100); Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq).

L. Interest of Members of Congress: No member of or delegate to the Congress of the United States will be admitted to any share or part of this contract or to any benefit arising therefrom.

M. Interest of Public Officials: No member, officer, or employee of the public body or of a local public body during his tenure or for one year thereafter shall have any interest, direct or indirect, in this contract or the proceeds thereof. For purposes of this provision, public body shall include municipalities and other political subdivisions of States; and public corporations, boards, and commissions established under the laws of any State.

N. Participation by Disadvantaged Business Enterprises: The Consultant shall agree to abide by the following statement from 49 CFR 26.13(b). This statement shall be included in all subsequent agreements between the Consultant and any subconsultant or contractor.

1. The Consultant, sub recipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the Consultant to carry out these requirements is a material breach of this contract, which may result in termination of this contract or other such remedy as the recipient deems appropriate.

O. It is mutually understood and agreed that the willful falsification, distortion or misrepresentation with respect to any facts related to the project(s) described in this Agreement is a violation of the Federal Law. Accordingly, United States Code, Title 18, Section 1020, is hereby incorporated by reference and made a part of this Agreement.

P. It is understood and agreed that if the Consultant at any time learns that the certification it provided the Local Agency in compliance with 49 CFR, Section 26.51, was erroneous when submitted or has become erroneous by reason of changed circumstances, the Consultant shall provide immediate written notice to the Local Agency. It is further agreed that the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transaction" as set forth in 49 CFR, Section 29.510, shall be included by the Consultant in all lower tier covered transactions and in all aforementioned federal regulation.

Q. The Local Agency hereby certifies that neither the consultant nor the consultant's representative has been required by the Local Agency, directly or indirectly as an express or implied condition in connection with obtaining or carrying out this contract, to

1. employ or retain, or agree to employ or retain, any firm or person, or

2. pay, or agree to pay, to any firm, person, or organization, any fee, contribution, donation, or consideration of any kind;

The Local Agency further acknowledges that this agreement will be furnished to a federal agency, in connection with this contract involving participation of Federal-Aid funds, and is subject to applicable State and Federal Laws, both criminal and civil.

R. The Consultant hereby certifies that it has not:

1. employed or retained for a commission, percentage, brokerage, contingent fee, or other consideration, any firm or person (other than a bona fide employee working solely for the above contractor) to solicit or secure this contract;

2. agreed, as an express or implied condition for obtaining this contract, to employ or retain the services of any firm or person in connection with carrying out this contract; or

3. paid, or agreed to pay, to any firm, organization or person (other than a bona fide employee working solely for the above contractor) any fee contribution, donation, or consideration of any kind for, or in connection with, procuring or carrying out the contract.

The consultant further acknowledges that this agreement will be furnished to the Local Agency, the State of Florida Department of Transportation and a federal agency in connection with this contract involving participation of Federal-Aid funds, and is subject to applicable State and Federal Laws, both criminal and civil.

S. The Consultant shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the Contractor during the term of the Contract and shall expressly require any subcontractors performing work or providing services pursuant to the Contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the Contract term.

ATTACHMENT "F"

FDOT-LAP Required forms

LAP-Conflict of Interest 375-030-50

LAP- Vendor Certification Regarding Scrutinized Companies List- Form 375-030-60

LAP- Truth in Negotiation- Form 375-030-30

LAP- Lobbying Activities- Form 375-030-33

LAP- Disclosure of Lobbying Activities-Form 375-030-34

LAP- Debarment, Suspension Certification- Form 375-030-32

LAP- DBE or Small Business Commitment Form- 375-030-83

LAP- DBE Bid Package Information- Form 275-030-11

LAP- Bid Opportunity List- Form 375-040-62

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

CONFLICT OF INTEREST/CONFIDENTIALITY CERTIFICATION FOR CONSULTANT/CONTRACTOR/TECHNICAL ADVISORS

375-030-50
PROCUREMENT
OGC – 03/17

I certify that I have no present conflict of interest, that I have no knowledge of any conflict of interest that my firm may have, and that I will recuse myself from any capacity of decision making, approval, disapproval, or recommendation on any contract if I have a conflict of interest or a potential conflict of interest.

Consultants/Contractors are expected to safeguard their abillty to make objective, fair, and impartial decisions when performing work for the Department, and therefore may not accept benefits of any sort under circumstances in which it could be inferred by a reasonable observer that the benefit was intended to influence a pending or future decision of theirs, or to reward a past decision. Consultants performing work for the Department should avoid any conduct (whether in the context of business, financial, or social relationships) which might undermine the public trust, whether or not that conduct is unethical or lends itself to the appearance of ethical impropriety.

I will maintain the confidentiality of all information not made public by the Florida Department of Transportation ("Department") related to the procurement of the above-referenced ("Project") that I gain access to as a result of my involvement with the Project ("Procurement Information"). I understand that Procurement Information includes, but is not limited to, documents prepared by or for the Department related to procurement of the Project. I also understand that Procurement Information includes, but is not limited to, documents submitted to the Department by entities seeking an award of the Project ("Proposers"). I understand that Procurement Information may include documents submitted by Proposers related to letters of response/letters of interest, technical proposals, price proposals, financial proposals, and information shared during exempt meetings. I also understand that Procurement Information may also include documents that evaluate or review documents submitted by Proposers, and information regarding Project cost estimates. I also agree not to discuss the Project with anyone who is a member of or acting on behalf of a Proposer.

Unless so ordered by a court of competent jurisdiction or an opinion of the Office of the Florida Attorney General, I will not divulge any Procurement Information except to individuals who have executed a Conflict of Interest/Confidentiality Certification which has been approved by the Department ("Project Personnel"). I understand that a list of Project Personnel will be maintained by Department. If I am contacted by any member of the public or the media with a request for Procurement Information, I will promptly forward such request to the Department's Procurement Office. I will also maintain security and control over all documents containing Procurement Information which are in my custody.

I agree not to solicit or accept gratuities, unwarranted privileges or exemptions, favors, or anything of value from any firm under consideration for an agreement associated with the Project, and I recognize that doing so may be contrary to statutes, ordinances, and rules governing or applicable to the Department or may otherwise be a violation of the law.

I agree not to engage in bid tampering, pursuant to Section 838.22, Florida Statutes.

I realize that violation of the above mentioned standards could result in the termination of my work for the Department. I further realize that violation of the above mentioned statute would be punishable in accordance with Section 838.22, Florida Statutes..

Advertisement No./ Solicitation No	Description	Financial Project Number(s)
Bid NC-20-024	Design Services - CR 108 from Bay Rd to Middle Rd	441214-1-38-01

Each undersigned individual agrees to the terms of this Conflict of Interest/Confidentiality Certification.

Printed Names	Signatures	Date
Nina C. Sickler, Pond & Company		11.23.2020
Russell Yaffee, Peters & Yaffee		11.23.2020
Bill Price, CSI Geo		11.23.2020
Bill Faust, DRMP		11.23.2020
Terry Crews, T2 Engineers		11.23.2020

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

CONFLICT OF INTEREST/CONFIDENTIALITY CERTIFICATION FOR CONSULTANT/CONTRACTOR/TECHNICAL ADVISORS

375-030-50
PROCUREMENT
OGC – 03/17

Additional Page

Advertisement No./ Solicitation No	Description	Financial Project Number(s)
Bid NC-20-024	Design Services - CR 108 from Bay Rd to Middle Rd	441214-1-38-01

Each undersigned individual agrees to the terms of this Conflict of Interest/Confidentiality Certification.

Printed Names	Signatures	Date
Derek Gil, PE, ELEMENT Engineering		11.23.2020

Florida Statutes:
287.135

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

VENDOR CERTIFICATION REGARDING SCRUTINIZED COMPANIES LISTS

375-030-60
PROCUREMENT
OGC – 08/18

Respondent Vendor Name: **Pond & Company**

Vendor FEIN: **58-1639128**

Vendor's Authorized Representative Name and Title: **Nina C. Sickler, PE - Vice President**

Address: **1200 Riverplace Blvd | Suite 600**

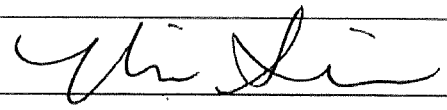
City: **Jacksonville** State: **FL** Zip: **32207**

Phone Number: **904.396.3556**

Email Address: **sicklern@pondco.com**

Section 287.135, Florida Statutes prohibits a company from bidding on, submitting a proposal for, or entering into or renewing a contract for goods or services of any amount if, at the time of contracting or renewal, the company is on the Scrutinized Companies that Boycott Israel List, created pursuant to Section 215.4725, Florida Statutes, or is engaged in a boycott of Israel. Section 287.135, Florida Statutes, also prohibits a company from bidding on, submitting a proposal for, or entering into or renewing a contract for goods or services of $1,000,000 or more, that are on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector Lists which were created pursuant to s. 215.473, Florida Statutes.

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

Certified By: 

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

Authorized Signature Print Name and Title: **Nina C. Sickler, PE - Vice President**

Date: **11/23/2020**

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

TRUTH IN NEGOTIATION CERTIFICATION

375-030-30
PROCUREMENT
05/14

Pursuant to Section 287.055(5)(a), Florida Statutes, for any lump-sum or cost-plus-a-fixed fee professional services contract over the threshold amount provided in Section 287.017, Florida Statutes for CATEGORY FOUR, the Department of Transportation (Department) requires the Consultant to execute this certificate and include it with the submittal of the Technical Proposal, or as prescribed in the contract advertisement.

The Consultant hereby certifies, covenants, and warrants that wage rates and other factual unit costs supporting the compensation for this project's agreement are accurate, complete, and current at the time of contracting.

The Consultant further agrees that the original agreement price and any additions thereto shall be adjusted to exclude any significant sums by which the Department determines the agreement price was increased due to inaccurate, incomplete, or noncurrent wage rates and other factual unit costs. All such agreement adjustments shall be made within (1) year following the end of the contract. For purposes of this certificate, the end of the agreement shall be deemed to be the date of final billing or acceptance of the work by the Department, whichever is later.

Pond & Company
Name of Consultant

By: _____

Nina C. Sickler, PE - Vice President

11/23/2020
Date

CERTIFICATION FOR DISCLOSURE OF LOBBYING ACTIVITIES ON FEDERAL-AID CONTRACTS
(Compliance with 49CFR, Section 20.100 (b))

The prospective participant certifies, by signing this certification, that to the best of his or her knowledge and belief:

(1) No federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any federal agency, a Member of Congress, an officer of employee of Congress, or an employee of a Member of Congress in connection with the awarding of any federal contract, the making of any federal grant, the making of any federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities", in accordance with its instructions. (Standard Form-LLL can be obtained from the Florida Department of Transportation's Professional Services Administrator or Procurement Office.)

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

The prospective participant also agrees by submitting his or her proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed $100,000 and that all such subrecipients shall certify and disclose accordingly.

Name of Consultant:

By: Nina C. Sickler, PE Date: 11/23/2020 Authorized Signature

Title: Vice President

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

DISCLOSURE OF LOBBYING ACTIVITIES

375-030-34
PROCUREMENT
02/16

Is this form applicable to your firm?
YES ☐ NO ☒
If *no*, then please complete section 4 below for "Prime"

1. Type of Federal Action:	**2. Status of Federal Action:**	**3. Report Type:**
a. contract b. grant c. cooperative agreement d. loan e. loan guarantee f. loan insurance	a. bid/offer/application b. initial award c. post-award	a. initial filing b. material change **For Material Change Only:** Year: _____ Quarter: _____ Date of last report: _____ (mm/dd/yyyy)

4. Name and Address of Reporting Entity:	5. If Reporting Entity in No. 4 is a Subawardee, Enter Name and Address of Prime:
☒ Prime ☐ Subawardee Tier _____, *if known*: **1600 Riverplace Blvd., Suite 600** **Jacksonville, FL** **32207** Congressional District, *if known*: 4c _____	Congressional District, *if known*: _____
6. Federal Department/Agency:	**7. Federal Program Name/Description:** CFDA Number, *if applicable*: _____
8. Federal Action Number, *if known*:	**9. Award Amount,** *if known*: $ _____
10. a. Name and Address of Lobbying Registrant (*if individual, last name, first name, MI*):	**b. Individuals Performing Services** (*including address if different from No. 10a*) (*last name, first name, MI*):
11. Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.	Signature: _____ Print Name: **Nina C. Sickler, PE** Title: **Vice President** Telephone No.: **904.396.3556** Date (mm/dd/yyyy): **11/23/2020**
Federal Use Only:	Authorized for Local Reproduction Standard Form LLL (Rev. 7-97)

INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of a covered Federal action, or a material change to a previous filing, pursuant to title 31 U.S.C. section 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a covered Federal action. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence the outcome of a covered Federal action.

2. Identify the status of the covered Federal action.

3. Identify the appropriate classification of this report. If this is a followup report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last previously submitted report by this reporting entity for this covered Federal action.

4. Enter the fullname, address, city, State and zip code of the reporting entity. Include Congressional District, if known. Check the appropriate classification of the reporting entity that designates if it is, or expects to be, a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the 1st tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.

5. If the organization filing the report in item 4 checks "Subawardee," then enter the full name, address, city, State and zip code of the prime Federal recipient. Include Congressional District, if known.

6. Enter the name of the Federal agency making the award or loan commitment. Include at least one organizational level below agency name, if known. For example, Department of Transportation, United States Coast Guard.

7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans, and loan commitments.

8. Enter the most appropriate Federal identifying number available for the Federal action identified in item 1 (e.g., Request for Proposal (RFP) number; Invitation for Bid (IFB) number; grant announcement number; the contract, grant, or loan award number; the application/proposal control number assigned by the Federal agency). Include prefixes, e.g., "RFP-DE-90-001."

9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitment for the prime entity identified in item 4 or 5.

10. (a) Enter the full name, address, city, State and zip code of the lobbying registrant under the Lobbying Disclosure Act of 1995 engaged by the reporting entity identified in item 4 to influence the covered Federal action.

    (b) Enter the full names of the individual(s) performing services, and include full address if different from 10 (a). Enter Last Name, First Name, and Middle Initial (MI).

11. The certifying official shall sign and date the form, print his/her name, title, and telephone number.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

375-030-32
PROCUREMENT
11/15

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION- LOWER TIER COVERED TRANSACTIONS FOR FEDERAL AID CONTRACTS

(Compliance with 2 CFR Parts 180 and 1200)

It is certified that neither the below identified firm nor its principals are presently suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal department or agency.

Name of Consultant/Contractor: Pond & Company

By: Nina C. Sickler, PE

Date: 11/23/2020

Title: Vice President

Instructions for Certification

Instructions for Certification - Lower Tier Participants:
(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost $25,000 or more - 2 CFR Parts 180 and 1200)
a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the $25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (https://www.epls.gov/), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

PROFESSIONAL SERVICES DBE OR SMALL BUSINESS COMMITMENT FORM

375-030-83
PROCUREMENT
09/19

Firms will submit this form in response to the Request for Proposal or alternatively, at the time of Expanded Letter of Response submittal. Used for Professional Services:

- BDI Set-Asides (Standard note 7 of Professional Services advertisement)
- Advertisements that contain Under-Utilized Work Groups (Standard note 8 of professional services ad)
- Advertisements that contain a DBE/Small Business Aspiration Goal (Standard note 9 of professional services ad)

Contract/Advertisement No.:	NC20-024	Prime Consultant:	Pond & Company
Project Description:	Design Services Safety Improvements to CR108 from Bay Rd to Middle Rd		

Expected percentage of contract fees to be utilized by DBE(s): 30% %. (Combine DBE Prime and DBE subconsultants, if applicable).

Expected percentage of contract fees to be utilized by Non-DBE Small Businesses 0 %. (Combine Non-DBE Small Business Prime and Non-DBE Small Business subconsultants, if applicable).

The proposed Prime and DBE and Small Business subconsultants/subvendors are as follows:

Prime	Type of Work (List each type of work separately, only one type of work per line)	Percentage	DBE	Small Business
Pond & Company	3.1, 7.1, 7.2, 7.3	58 %	☐	☐
		%	☐	☐
		%	☐	☐
		%	☐	☐
		%	☐	☐
		%	☐	☐
		%	☐	☐
		%	☐	☐
Subconsultant/Subvendor	**Type of Work (List each type of work separately, only one type of work per line)**	**Percentage**		
Peters & Yafee, Inc.	3.1, 7.3	19 %	☒	☒
Element Engineering Group, LLC	3.1, 6.1	7 %	☒	☒
DRMP, Inc.	Group 8	25 %	☐	☐
CSI Geo, Inc.	Group 9	4 %	☒	☒
T2 Utility Engineers	Utility coordination	3 %	☐	☐
		%	☐	☐
		%	☐	☐
		%	☐	☐
		%	☐	☐
		%	☐	☐
		%	☐	☐
		%	☐	☐
		%	☐	☐
		%	☐	☐
		%	☐	☐
		%	☐	☐
		%	☐	☐
		%	☐	☐

Please note, the number one ranked firm is required to enter DBE Participation in the Equal Opportunity Compliance (EOC) System subsequent to contract award and any future contract amendments or task work orders (if applicable).

Firms listed in the table as DBEs should appear in the Department's listing of DBE's at: https://fdotxwp02.dot.state.fl.us/EqualOpportunityOfficeBusinessDirectory/CustomSearch.aspx
Professional Services firms listed as "Non-DBE" Small Businesses should appear on the Department's listing of all Non-DBE Small Businesses at: https://ssrs.fdot.gov/Reports/report/PDA%20Reports/Public%20Reports/InternetGroupX (Be sure to select the "Non-DBE Small Businesses Only" option in the selection). Road and bridge construction firms and other non-professional services firms should appear on the Department's listing at: https://www.fdot.gov/procurement/small-business-Reports.htm

By: _____ Title: Vice President Date: 11/23/2020

Nina C. Sickler, PE

DBE Utilization

The Department began its DBE race neutral program January 1, 2000. **Contract specific goals are not placed on Federal/State contracts;** however, the Department has an overall 10.65% DBE goal it must achieve. In order to assist contractors in determining their DBE commitment level, the Department has reviewed the estimates for this letting.

As you prepare your bid, please monitor potential or anticipated DBE utilization for contracts. When the low bidder executes the contract with the Department, information will be requested of the contractor's DBE participation for the project. While the utilization is not mandatory in order to be awarded the project, continuing utilization of DBE firms on contracts supports the success of Florida's DBE Program, and supports contractors' Equal Employment Opportunity and DBE Affirmative Action Programs.

Any project listed as 0% DBE availability does not mean that a DBE may not be used on that project. A 0% DBE availability may have been established due to any of the following reasons: limited identified subcontracting opportunities, minimal contract days, and/or small contract dollar amount. Contractors are encouraged to identify any opportunities to subcontract to DBE's.

Please contact the Equal Opportunity Office at (850) 414-4747 if you have any questions regarding this information.

DBE Reporting

If you are the prime contractor on a project, enter your DBE participation in the Equal Opportunity Compliance system prior to the pre-construction or pre-work conference for all federal and state funded projects. This **will not** become a mandatory part of the contract. It will assist the Department in tracking and reporting planned or estimated DBE utilization. During the contract, the prime contractor is required to report actual payments to DBE and MBE subcontractors through the web-based Equal Opportunity Compliance (EOC) system.

All DBE payments must be reported whether or not you initially planned to utilize the company. In order for our race neutral DBE Program to be successful, your cooperation is imperative. If you have any questions, please contact EOOHelp@dot.state.fl.us.

Bid Opportunity List

The Federal DBE Program requires States to maintain a database of all firms that are participating or attempting to participate on FDOT-assisted contracts. The list must include all firms that bid on prime contracts or bid or quote subcontracts on FDOT-assisted projects, including both **DBE's and non-DBEs.**

Please complete the Bidders Opportunity List through the Equal Opportunity Compliance system within 3 business days of submission of the bid or proposal for ALL subcontractors or sub-consultants who quoted to you for specific project for this letting. The web address to the Equal Opportunity Compliance system is: https://www.fdot.gov/equalopportunity/eoc.shtm.

DBE/AA Plans

Contractors bidding on FDOT contracts are to have an approved DBE Affirmative Action Plan (FDOT Form 275-030-11B) on file with the FDOT Equal Opportunity Office before execution of a contract. DBE/AA Plans must be received with the contractors bid or received by the Equal Opportunity Office prior to the award of the contract.

Plans are approved by the Equal Opportunity Office in accordance with Ch. 14-78, Florida Administrative Code. Plans that do not meet these mandatory requirements may not be approved. Approvals are for a (3) three year period and should be updated at anytime there is a change in the company's DBE Liaison Officer and/or President. Contractors may evidence adoption of the DBE/AA Policy and Plan and/or a change in the designated DBE Liaison officer as follows:

- Print the first page of the document on company stationery ("letterhead") that indicates the company's name, mailing address, phone number, etc.
- Print the company's name in the "___" space; next to "Date" print the month/day/year the policy is being signed; record the signature of the company's Chief Executive Officer, President or Chairperson in the space next to "by" and print the full first and last name and position title of the official signing the policy.
- Print the DBE Liaison's full name, email address, business mailing address and phone number the bottom of email.

E-mail the completed and signed DBE AA Plan to: **eeoforms@dot.state.fl.us.**

The Department will review the policy, update department records and issue a notification of approval or disapproval; a copy of the submitted plan will not be returned to the contractor.

The Pond Plan is on file with FDOT and a copy is provided on the following pages.

1200 Riverplace Blvd, Suite 600
Jacksonville, FL 32207

T: 904.543.0400
www.pondco.com

Pond & Company **hereafter referred to as "the Company" or "this Company" has adopted this policy and plan.**

Date: 11/8/2019 **By:** _____ **Signature**

Corporate FEID No.: 58-1639128 Lorraine Green, PE - President **Printed name & title**

DISADVANTAGED BUSINESS ENTERPRISE ('DBE') AFFIRMATIVE ACTION PLAN

POLICY STATEMENT

It is the policy of this Company that disadvantaged businesses, as defined by 49 CFR Part 26, Subpart D and implemented under Rule Chapter 14-78, F.A.C., shall have the opportunity to participate as subcontractors and suppliers on all contracts awarded by the Florida Department of Transportation (FDOT).

The requirements of Rule Chapter 14-78, F.A.C., shall apply to all contracts entered into between FDOT and the Company. Subcontractors and/or suppliers to the Company will also be bound by the requirements of Rule Chapter 14-78 F.A.C. and its subcontractors shall take all necessary and reasonable steps in accordance with Chapter 14-78, F.A.C., to ensure that disadvantaged businesses have the opportunity to compete and perform work contracted with FDOT. The Company and its subcontractors shall not discriminate on the basis of race, color, religion, national origin, disability, sex, or age in the administration of contracts with FDOT. The Company has designated and appointed a Liaison Officer to develop, maintain, and monitor the DBE Affirmative Action Plan implementation. The Liaison Officer will be responsible for disseminating this policy statement throughout the Company and to disadvantaged controlled businesses. This statement is posted on notice boards of the Company.

I. DESIGNATION OF LIAISON OFFICER

The Company will aggressively recruit disadvantaged businesses as subcontractors and suppliers for all contracts with FDOT. The Company has appointed a Liaison Officer to develop and maintain this Affirmative Action Plan in accordance with the requirements of Rule Chapter 14-78, F.A.C. The Liaison Officer will have primary responsibility for developing, maintaining, and monitoring the Company's utilization of disadvantaged subcontractors in addition to the following specific duties:

(1) The Liaison Officer shall aggressively solicit bids from disadvantaged business subcontractors for all FDOT contracts;
(2) The Liaison Officer will submit all records, reports, and documents required by FDOT, and shall maintain such records for a period of not less than three years, or as directed by any specific contractual requirements of FDOT.

The following individual has been designated Liaison Officer with responsibility for implementing the Company's affirmative action program in accordance with the requirements of FDOT.

DBE LIAISON OFFICER:

NAME: Nina C. Sickler, PE
TITLE: Vice President
EMAIL: sicklern@pondco.com
ADDRESS: 1300 Riverplace Blvd, Suite 210; Jacksonville, FL 32204

II. AFFIRMATIVE ACTION METHODS

In order to formulate a realistic Affirmative Action Plan, the Company has identified the following known barriers to participation by disadvantaged subcontractors, before describing its proposed affirmative action methods:

1. Lack of qualified disadvantaged subcontractors in our specific geographical areas of work;
2. Lack of certified disadvantaged subcontractors who seek to perform FDOT work;
3. Lack of interest in performing on FDOT contracts;
4. Lack of response when requested to bid;
5. Limited knowledge of FDOT plans and specifications to prepare a responsible bid.

In view of the barriers to disadvantaged businesses stated above, it shall be the policy of the Company to provide opportunity by utilizing the following affirmative action methods to ensure participation on the contracts with FDOT will:

1. Provide written notice to all certified DBE subcontractors in the geographical area where the work is to be subcontracted by the Company;
2. Advertise in minority focused media concerning subcontract opportunities with the Company;
3. Select portions of work to be performed by DBEs in order to increase the likelihood of meeting the state's goals (including, where appropriate, breaking down contracts into economically feasible units to facilitate DBE participation);
4. Provide adequate information about the plans, specifications, and requirements of the contract, notrejecting subcontractors without sound reasons based on a thorough investigation of their capabilities;
5. Waive requirements of performance bonds where it is practical to do so;
6. Attend pre-bid meetings held by FDOT to apprise disadvantaged subcontractors of opportunities with the Company;
7. Follow up on initial solicitations of interest to DBE subcontractors to determine with certainty whether the DBE company is interested in the subcontract opportunity.
8. Utilize FDOT's DBE Supportive Services providers for assistance in identifying and notifying DBE's of contracting opportunities.

The Company understands that this list of affirmative action methods is not exhaustive and will include additional approaches after having established familiarity with the disadvantaged subcontracting community and/or determined the stated approaches to be ineffective.

III. IMPLEMENTATION

The Company will make every effort to

1. Meet state goals by utilizing its affirmative action methods.
2. Express good faith by seeking to utilize DBE subcontractors where work is to be subcontracted.
3. Ensuring that contracted DBE's perform a commercially useful function as evidenced by their execution of a distinct element of work with its own workforce and the carrying out responsibilities by actually performing, managing and supervising the work involved.

IV. REPORTING

The Company shall keep and maintain such records as are necessary to determine the Company's compliance with its DBE Affirmative Action Plan. The Company will design its record keeping system to indicate:

1. The number of DBE subcontractors and suppliers used by the Company, identifying the items of work, materials and services provided;
2. The efforts and progress being made in obtaining DBE subcontractors through local and community sources;
3. Documentation of all contracts, to include correspondence, telephone calls, newspaper advertisements, etc., to obtain DBE participation on all FDOT projects;
4. The Company shall comply with FDOT's requirements regarding payments to subcontractors including DBEs for each month (estimate period) in which the companies have worked.

V. DBE DIRECTORY

The Company will utilize the DBE Directory published by the FDOT.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

BID OPPORTUNITY LIST FOR COMMODITIES & CONTRACTUAL SERVICES

375-040-02
PROCUREMENT
01/16

Prime Contractor: **Pond & Company**

Address/Phone Number: **1600 Riverplace Blvd, Suite 600, Jacksonville, FL 32207**

Procurement Number: **BID NO. NC20-024 Design Services Safety Improvements to CR108 from Bay Rd - Middle Rd**

49 CFR Part 26.11 The list is intended to be a listing of all firms that are participating, or attempting to participate, on DOT-assisted contracts. The list must include all firms that bid on prime contracts, or bid or quote subcontracts and supplies materials on DOT-assisted projects, including both DBEs and non-DBEs. This list must include all subcontractors contacting you and expressing an interest in teaming with you on a specific DOT-assisted project. Prime contractors must provide information for Numbers 1, 2, 3 and 4, and should provide any information they have available on Numbers 5, 6, and 7 for themselves, and their subcontractors.

1. Federal Tax ID Number: 58-1639128
2. Firm Name: Pond & Company
3. Phone: 904.396.3556
4. Address: 1300 Riverplace Blvd, Suite 210
   Jacksonville, Florida 32207
5. Year Firm Established: 1954

6. ☐ DBE
   ■ Non-DBE

7. Annual Gross Receipts
   ☐ Less than $1 million
   ☐ Between $1 - $5 million
   ☐ Between $5 - $10 million
   ☐ Between $10 - $15 million
   ■ More than $15 million

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1. Federal Tax ID Number: 26-3166179
2. Firm Name: Peters and Yaffee, Inc.
3. Phone: 904.265.0751
4. Address: 9822 Tapestry Park Circle, Suite 205
   Jacksonville, FL 32246
5. Year Firm Established: 2008

6. ■ DBE
   ☐ Non-DBE

7. Annual Gross Receipts
   ☐ Less than $1 million
   ■ Between $1 - $5 million
   ☐ Between $5 - $10 million
   ☐ Between $10 - $15 million
   ☐ More than $15 million

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1. Federal Tax ID Number: 56-2565488
2. Firm Name: Element Engineering Group, LLC
3. Phone: 813.386.2101
4. Address: 1713 E. 9th Avenue, Tampa, FL 33605
5. Year Firm Established: 2006

6. ■ DBE
   ☐ Non-DBE

7. Annual Gross Receipts
   ☐ Less than $1 million
   ☐ Between $1 - $5 million
   ■ Between $5 - $10 million
   ☐ Between $10 - $15 million
   ☐ More than $15 million

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1. Federal Tax ID Number: 59-1791174
2. Firm Name: DRMP, Inc.
3. Phone: 904.641.0123
4. Address: 8001 Belfort Parkway, Suite 200
   Jacksonville, FL 32256
5. Year Firm Established: 1977

6. ☐ DBE
   ■ Non-DBE

7. Annual Gross Receipts
   ☐ Less than $1 million
   ☐ Between $1 - $5 million
   ☐ Between $5 - $10 million
   ☐ Between $10 - $15 million
   ■ More than $15 million

AS APPLICABLE, PLEASE SUBMIT THIS FORM WITH YOUR:

BID SHEET (Invitation to Bid – ITB)
PRICE PROPOSAL (Request for Proposal – RFP)
REPLY (Invitation to Negotiate – ITN)

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

BID OPPORTUNITY LIST FOR COMMODITIES & CONTRACTUAL SERVICES

375-040-02
PROCUREMENT
01/16

Prime Contractor: **Pond & Company**

Address/Phone Number: **1600 Riverplace Blvd, Suite 600, Jacksonville, FL 32207**

Procurement Number: **BID NO. NC20-024 Design Services Safety Improvements to CR108 from Bay Rd - Middle Rd**

49 CFR Part 26.11 The list is intended to be a listing of all firms that are participating, or attempting to participate, on DOT-assisted contracts. The list must include all firms that bid on prime contracts, or bid or quote subcontracts and supplies materials on DOT-assisted projects, including both DBEs and non-DBEs. This list must include all subcontractors contacting you and expressing an interest in teaming with you on a specific DOT-assisted project. Prime contractors must provide information for Numbers 1, 2, 3 and 4, and should provide any information they have available on Numbers 5, 6, and 7 for themselves, and their subcontractors.

1. Federal Tax ID Number: **26-1171128**
2. Firm Name: **CSI Geo, Inc.**
3. Phone: **904.641.1993**
4. Address: **2394 St Johns Bluff Rd S**
   Jacksonville, FL 32246
5. Year Firm Established: **2007**

6. ☒ DBE ☐ Non-DBE

7. Annual Gross Receipts
   ☐ Less than $1 million
   ☒ Between $1 - $5 million
   ☐ Between $5 - $10 million
   ☐ Between $10 - $15 million
   ☐ More than $15 million

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1. Federal Tax ID Number: **84-2356040**
2. Firm Name: **T2 UES, Inc. dba T2 Utility Engineers**
3. Phone: **386.755.2626**
4. Address: **159 SW Spencer Court, Suite 106**
   Lake City, FL 32024
5. Year Firm Established: **2019**

6. ☐ DBE ☒ Non-DBE

7. Annual Gross Receipts
   ☐ Less than $1 million
   ☐ Between $1 - $5 million
   ☐ Between $5 - $10 million
   ☐ Between $10 - $15 million
   ☒ More than $15 million

---

1. Federal Tax ID Number:
2. Firm Name:
3. Phone:
4. Address:
5. Year Firm Established:

6. ☐ DBE ☐ Non-DBE

7. Annual Gross Receipts
   ☐ Less than $1 million
   ☐ Between $1 - $5 million
   ☐ Between $5 - $10 million
   ☐ Between $10 - $15 million
   ☐ More than $15 million

---

1. Federal Tax ID Number:
2. Firm Name:
3. Phone:
4. Address:
5. Year Firm Established:

6. ☐ DBE ☐ Non-DBE

7. Annual Gross Receipts
   ☐ Less than $1 million
   ☐ Between $1 - $5 million
   ☐ Between $5 - $10 million
   ☐ Between $10 - $15 million
   ☐ More than $15 million

AS APPLICABLE, PLEASE SUBMIT THIS FORM WITH YOUR:

BID SHEET (Invitation to Bid – ITB)
PRICE PROPOSAL (Request for Proposal – RFP)
REPLY (Invitation to Negotiate – ITN)

CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY) 05/01/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:	
Aon Risk Services Northeast, Inc. New York NY Office One Liberty Plaza 165 Broadway, Suite 3201 New York NY 10006 USA	PHONE (A/C. No. Ext): (866) 283-7122	FAX (A/C. No.): (800) 363-0105
	E-MAIL ADDRESS:	

INSURED	INSURER(S) AFFORDING COVERAGE		NAIC #
Pond & Company, Inc. 3500 Parkway Lane, Suite 600 Norcross GA 30092 USA	INSURER A:	XL Specialty Insurance Co	37885
	INSURER B:	Allied World Surplus Lines Insurance Co	24319
	INSURER C:	Greenwich Insurance Company	22322
	INSURER D:		
	INSURER E:		
	INSURER F:		

COVERAGES **CERTIFICATE NUMBER: 570081613073** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. Limits shown are as requested

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
C	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT LOC OTHER:			CGD7409984	05/01/2020	05/01/2021	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$2,000,000 $1,000,000 $10,000 $2,000,000 $4,000,000 $4,000,000
C	AUTOMOBILE LIABILITY X ANY AUTO OWNED AUTOS ONLY HIRED AUTOS ONLY SCHEDULED AUTOS NON-OWNED AUTOS ONLY			CAH7409985	05/01/2020	05/01/2021	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) Medical Payments Lia	$2,000,000 $5,000
A	X UMBRELLA LIAB X OCCUR EXCESS LIAB CLAIMS-MADE DED X RETENTION $10,000			US00099930LI20A	05/01/2020	05/01/2021	EACH OCCURRENCE AGGREGATE	$10,000,000 $10,000,000
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N: N If yes, describe under DESCRIPTION OF OPERATIONS below	N/A		CWG7409983	05/01/2020	05/01/2021	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE-EA EMPLOYEE E.L. DISEASE-POLICY LIMIT	 $1,000,000 $1,000,000 $1,000,000
B	Archit&Eng Prof			03123252 Prof Liab - Claims Made SIR applies per policy terms & conditions	05/01/2020	05/01/2021	Each Claim Aggregate	$10,000,000 $10,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

For insurance purposes only

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Aon Risk Services Northeast Inc

Holder Identifier :

Certificate No : 570081613073

POND

POND

1200 Riverplace Blvd, Suite 600
Jacksonville, FL 32207
904.396.3556 | Pondco.com

NASSAU COUNTY
BOARD OF COUNTY COMMISSIONERS
Office of Management and Budget
Procurement Department
96135 Nassau Place, Suite 2
Yulee, Florida 32097
904-530-6040

Brian Simmons
bsaimmons@nassaucountyfl.com

TO: All Proposers
FROM: Brian Simmons, Procurement Manager
SUBJECT: Addendum #1
Invitation to Bid, Bid Number NC20-024
CR108 Safety Improvements
November 18, 2020

REMINDER: This addendum must be acknowledged, on the "BID FORM" Section 00 41 15-1 Article 3.01 . Failure to comply may result in disqualification of your submittal.

This addendum is hereby incorporated into the bid documents of the project referenced above. The following items are clarifications, corrections, additions, deletions, and/or revisions to and shall take precedence over the original documents.

QUESTIONS and ANSWERS from Written Questions Received

1. Has a FDOT Financial ID been assigned to the LAP funding for this project? If so please provide the ID number with the estimated construction cost.
   441214-1-38-01. There is an estimated cost for the design, but not the construction cost.

2. Is there a deadline for the County to use the LAP funding?
   Deadline for design only is June 30, 2021.

3. Does this deadline apply to NTP for design or construction contract, or to 100% bill out of construction/final acceptance?
   Design only.

4. Is the County aware of any PD&E, Traffic, or Safety studies that have been prepared for any portion of the project or intersections?
   No.

5. Have any pavement corings or geotechnical borings already been performed for this project?
   No.

6. Is there a required percentage of DBE or Non-DBE, Small Business participation required for this contract? If not, is there a participation percentage goal the County would like to achieve?
   Not Required.

7. Are there any page limits for the proposal, with the exception of required documentation and the 2-page cover letter?
   No.

8. Do the 3 letters of reference in Tab 7 need to be from the same client managers listed for related experience in Tab 6?

No.

9. In attachment "A", section 3.0 Deliverables lists that Value Engineering Recommendations will be submitted at the 30% plan submittal. Does a value engineering review by a certified "Certified Value Specialist (CVS)" need to be conducted for this project?
No.

10. In light of COVID-19, would the County accept an email submission in lieu of hard copies for this pursuit?
Follow the RFQ Requirements.

11. The DBE AA Plan noted on Page 2 of the form 275-030-11 within Attachment E FDOT LAP Forms notes that a DBE AA Plan must be emailed to eeoforms@dot.state.fl.us. Should a copy of this also be submitted with the proposal? If this is already on file with FDOT, is there a requirement to submit proof with the proposal?
Please submit a copy with your proposal and proof that the document is also on file with FDOT.

12. Form 375-030-50 Conflict of Interest/Confidentiality Certification has several lines for names and signatures. What signatures are required, should it be only authorized signers as on other forms or additional personnel?
Any professionals engaged in the project with the design firm or sub-consultants should sign.

13. Will the proposed schedule be adjusted based on actual NTP date or are Final plans due on 6/17/20 as shown in the schedule provided in the RFP?
Plans will be due June 17, 2021 due to grant funding requirements.

ATTACHMENTS:

N/A

NOTE: You are required to acknowledge receipt of this addendum on the "BID FORM" Section 00 41 15-1 Article 3.01

End of Addendum #1

Attachment "D"

Certificate of Insurance

POND

CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY) 05/01/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:
Aon Risk Services Northeast, Inc. New York NY Office One Liberty Plaza 165 Broadway, Suite 3201 New York NY 10006 USA	PHONE (A/C. No. Ext): (866) 283-7122 FAX (A/C. No.): (800) 363-0105 E-MAIL ADDRESS:

INSURED	INSURER(S) AFFORDING COVERAGE	NAIC #
Pond & Company, Inc. 3500 Parkway Lane, Suite 600 Norcross GA 30092 USA	INSURER A: XL Specialty Insurance Co	37885
	INSURER B: Allied World Surplus Lines Insurance Co	24319
	INSURER C: Greenwich Insurance Company	22322
	INSURER D:	
	INSURER E:	
	INSURER F:	

COVERAGES **CERTIFICATE NUMBER: 570081613073** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. **Limits shown are as requested**

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
C	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT LOC OTHER:			CGD7409984	05/01/2020	05/01/2021	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$2,000,000 $1,000,000 $10,000 $2,000,000 $4,000,000 $4,000,000
C	AUTOMOBILE LIABILITY X ANY AUTO OWNED AUTOS ONLY HIRED AUTOS ONLY SCHEDULED AUTOS NON-OWNED AUTOS ONLY			CAH7409985	05/01/2020	05/01/2021	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) Medical Payments Lia	$2,000,000 $5,000
A	X UMBRELLA LIAB X OCCUR EXCESS LIAB CLAIMS-MADE DED X RETENTION $10,000			US00099930LI20A	05/01/2020	05/01/2021	EACH OCCURRENCE AGGREGATE	$10,000,000 $10,000,000
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N: N If yes, describe under DESCRIPTION OF OPERATIONS below	N/A		CWG7409983	05/01/2020	05/01/2021	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE-EA EMPLOYEE E.L. DISEASE-POLICY LIMIT	 $1,000,000 $1,000,000 $1,000,000
B	Archit&Eng Prof			03123252 Prof Liab - Claims Made SIR applies per policy terms & conditions	05/01/2020	05/01/2021	Each Claim Aggregate	$10,000,000 $10,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

For insurance purposes only

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Aon Risk Services Northeast, Inc.

Holder Identifier :

Certificate No : 570081613073