



BURGESS & NIPL, INC RESPONSE DOCUMENT REPORT

RFQ No. 23-RFQ00414/CR

Continuing Traffic Engineering Services

RESPONSE DEADLINE: December 4, 2023 at 10:00 am

Report Generated: Monday, September 23, 2024

Burgess & Niple, Inc Response

CONTACT INFORMATION

Company:

Burgess & Niple, Inc

Email:

floridamarketing@burgessniple.com

Contact:

Michelle Casale

Address:

1511 N Westshore Blvd

Suite 500

Tampa, FL 33607

Phone:

N/A

Website:

www.burgessniple.com

Submission Date:

Dec 1, 2023 3:13 PM (Eastern Time)

ADDENDA CONFIRMATION

Addendum #1

Confirmed Dec 1, 2023 12:54 PM by Michelle Casale

QUESTIONNAIRE

1. Acknowledgement and Attestation*

Pass

By responding to this RFQ, the respondent(s) certify that he/she has reviewed the sample contract, and its exhibits contained herein, and is familiar with their terms and conditions and finds them expressly workable.

We certify and declare that the foregoing is true and correct.

Please acknowledge below that you confirm the above statement:

Confirmed

2. Download Drug Free Workplace Certificate *

Pass

I have read and attest to, in accordance with Florida Statute 287.087 (current version), hereby certify that, Publishes a written statement notifying that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited 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 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 proposal, the employee will abide by the terms of the statement and will notify the employer of any conviction of, pleas of guilty or nolo contendere to, any violation of Chapter 893, or of any controlled substance law of the State of Florida or the United States, for a violation occurring in the workplace, 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 workplace through the implementation of the Drug Free Workplace Program.

“As a person authorized to sign this statement, I certify that the above named business, firm or corporation complies fully with the requirements set forth herein”.

Please Confirm that you have read and attest to Download Drug Free Workplace Certificate

Confirmed

3. Affidavit of Non Collusion and of Non-Interest of Hernando County Employees*

Pass

Certification that Vendor/Contractor affirms that the bid/proposal presented to the Owner is made freely, and without any secret agreement to commit a fraudulent, deceitful, unlawful or wrongful act of collusion.

I have read and attest that I am the Vendor/Contractor in the above bid/proposal, that the only person or persons interested in said proposal are named therein; that no officer, employee or agent of the Hernando County Board of County Commissioners (BOCC) or of any other Vendor/Contractor is interested in said bid/proposal; and that affiant makes the above bid/proposal with no past or present collusion with any other person, firm or corporation.

Please confirm that you have read and attest to Affidavit of Non Collusion and of Non-Interest of Hernando County Employees

Confirmed

4. Sworn Statement

SWORN STATEMENT 287.133 (3) (A)*

Pass

I have read and attest that I understand that a "public entity crime" as defined in Paragraph 287.133 (1)(g), Florida Statutes (current version), means a violation of any public entity or with an agency or political subdivision of any other state or of the United States, including, but not limited to, any proposal or contract for goods or services 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.

I have read and attest that I understand that "convicted" or "conviction" as defined in Paragraph 287.133 (1)(b), Florida Statutes (current version), means a finding of guilt or a conviction of 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.

I have read and attest that I understand that an "affiliate" as defined in Paragraph 287.133 (1)(a), Florida Statutes (current version), 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 (1) person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one (1) 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.

I have read and attest that I understand that a "person" as defined in Paragraph 287.133(1)(e), Florida Statutes (current version), 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 a binding contract and which proposals or applies to proposal on contracts for the provisions of goods or services 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.

I have read and attest that based on information and belief, the statement which I have confirmed below is true in relation to the entity submitting this sworn statement:

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH ONE (1) ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND, THAT THIS FORM IS VALID THROUGH DECEMBER 31, OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT.

Neither the entity submitting this sworn statement, nor any of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, nor any affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

IF YOU CHOOSE OPTION 3, PLEASE ATTACH A COPY OF THE FINAL ORDER

The entity submitting this sworn statement, or one (1) or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the 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. However, there has been a subsequent proceeding before a Hearing Officer of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Hearing Officer determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted Vendor/Contractor list

Please attach a copy of the final order

No response submitted

5. Authorized Signatures/Negotiators

AUTHORIZED SIGNATURES/NEGOTIATORS *

Pass

Please provide the information to support the statement below:

The Vendor/Contractor represents that the following persons are authorized to sign and/or negotiate contracts and related documents to which the Vendor/Contractor will be duly bound:

Name(s)

Title(s)

E-mail(s)

Phone no (s)

Angelo Belluccia, PE

District Director

angelo.belluccia@burgessniple.com

813.335.6641

TYPE OF ORGANIZATION *

Pass

Please select your organization type:

Corporation

COMPANY ID*

Pass

Please Provide Your:

State of Incorporation:

Federal I.D. NO.:

Ohio (31-0885550)

W9 FORM*

Pass

Please upload your company's W9 information

W9_FORM_B&N.pdf

ACH ELECTRONIC PAYMENT*

Pass

An ACH electronic payment method is offered as an alternative to a payment by physical check. Please select one of the options.

Yes, ACH electronic payment method is acceptable.

6. Local Vendor Affidavit of Eligibility

7. E-Verify Certification

E-VERIFY CERTIFICATION *

Pass

Vendor/Contractor acknowledges and agrees to the following:

Vendor/Contractor shall utilize the U.S. Department of Homeland Security's E-Verify system, in accordance with the terms governing use of the system, to confirm the employment eligibility of:

All persons employed by the Vendor/Contractor during the term of the Contract to perform employment duties within Florida; and

All persons, including subcontractors, assigned by the Vendor/Contractor to perform work pursuant to the Contract with the department.

Confirmed

REFERENCES *

Pass

Proposer must provide a minimum of **three (3)** references in format shown below. References must be individuals that can be readily contacted and have first-hand knowledge of the Proposer's performance on the specific project performed by the Proposer. Each reference project must meet the following criteria:

Project at Substantial Completion or completed within the last seven (7) years.

Similar in size, dollar value and scope as this project.

Please provide information for 3 required References:

Business/Owner Name

Reference Contact Person

Reference Address

Reference Phone No.

Reference Email Address

Project Name

Project Location

Contract Project Manager

Site Superintendent

Contract Amount

Date Project Commenced

Date of Substantial Completion

Date of Final Completion

Description of Work Performed

Note: Experience shall be related to successfully completed projects within the last seven (7) years (i.e., the project must have been Substantially Complete within seven (7) years of the due date of this RFQ. Only projects that are complete or substantially complete as of the bid due date will be considered).

By submitting this information, I certify that the qualifications questionnaire information is true and correct to the best of my knowledge.

B&N_References.pdf

KEY SUBCONTRACTORS*

Pass

Each Proposer must submit with its response a list of subcontractors who will perform the work in each of the following categories (key subcontractors). List the name of the proposed subcontractor, or "Proposer" if the Proposer will perform the work, after each work category:

Example:

- (1) Earthwork construction
- (2) Earthen dike construction
- (3) Soil bentonite backfill cut-off wall installation
- (4) Wet excavation/dredging work
- (5) Concrete form work
- (6) Equipment installation
- (7) Electrical and instrumentation installation
- (8) Control system integration
- (9) Wetland planting and establishment

If no subcontractors will be employed please state "NONE"

7.3_Key_Subcontractors_Response.docx

VENDOR/CONTRACTOR'S LICENSE*

Pass

The Proposer must be a registered to do business in the State of Florida. **All Proposers and/or subcontractors performing work requiring a specialty license must be licensed in the State of Florida.** This includes but is not limited to electrical and mechanical trades, as well as any other earthwork Contractor on the Proposer's team. Provide license information (as required in Paragraph 27) below for Proposer and all subcontractors identified herein.

Classification

Issuing Government License

Issue Date:

License Number:

B&N_Vendor_Licenses.pdf

ORGANIZATION CHART*

Pass

Proposer must provide an organization chart showing Proposer's team identifying specific responsibilities of Proposer and subcontractors.

B&N_Organizational_Chart.pdf

PROJECT MANAGER QUALIFICATIONS*

Pass

Proposer must provide resume of Project Manager listing qualifications, experience, education and training. The Project Manager must have adequate experience, generally considered as a working Project Manager on a minimum of two (2) projects, similar in size and scope to the Continuing Traffic Engineering Services, within the past seven (7) years.

Danny_Hendrickson_B&N_Project_Manager_Resume.pdf

8. Vendor/Contractor's License

VENDOR/CONTRACTOR'S LICENSE*

Pass

Please upload all contractors and subcontractors license(s) required for this project.

B&N_Subconsultants_Vendor_Licenses.pdf

9. Additional Required Forms

CORPORATE AFFIDAVIT *

Pass

Please download the below documents, complete, and upload.

- [Corporate Affidavit.pdf](#)

B&N_Corporate_Affidavit.pdf

VENDOR CERTIFICATION REGARDING SCRUTINIZED COMPANIES*

Pass

Section 287.135 (Current Edition), Florida Statutes, prohibits agencies from contracting with companies for goods or services of \$1,000,000.00 or more, that are on either the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector Lists which are created pursuant to s. 215.473 F.S. (Current Edition), or the Scrutinized Companies that Boycott Israel List, created pursuant to s. 215.4725 F.S. (Current Edition), or companies that are engaged in a boycott of Israel or companies engaged in business operations in Cuba or Syria.

As the person authorized to bind 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 (Current Edition), Florida Statutes, the submission of a false certification may subject company to civil penalties, attorney's fees, and/or costs and does not have business operations in Cuba or Syria.

I have read and attest that I confirm the above is acknowledged.

Confirmed

10. Hernando County Employment Disclosure Certification Statement

IS ANY OFFICER, PARTNER, DIRECTOR, PROPRIETOR, ASSOCIATE OR MEMBER OF THE BUSINESS ENTITY A FORMER EMPLOYEE OF HERNANDO COUNTY WITHIN THE LAST TWO (2) YEARS? *

Pass

No

IS ANY OFFICER, PARTNER, DIRECTOR, PROPRIETOR, ASSOCIATE OR MEMBER OF THE BUSINESS ENTITY A RELATIVE OR MEMBER OF THE HOUSEHOLD OF A CURRENT HERNANDO COUNTY EMPLOYEE THAT HAD OR WILL HAVE ANY INVOLVEMENT WITH THIS PROCUREMENT OR CONTRACT AUTHORIZATION?*

Pass

No

RELATIVES AND FORMER HERNANDO COUNTY EMPLOYEES - ROLES AND SIGNATURES

If you answered yes to the either of the two prior questions regarding relatives or Hernando employees, please download the below documents, complete, and upload.

- [Relatives and Former Hernan...](#)

No response submitted

11. Vendor Survey

VENDOR SURVEY *

Pass

Please provide information on where you received the knowledge of the bid/request for Qualifications (mark all that apply):

County's eProcurement Portal (Open Gov Procurement)

VENDOR SURVEY - OTHER

If you choose Other please list how you received the knowledge of the bid/request for Proposals.

No response submitted

ANTICIPATES SERVICES OUTSIDE THE UNITED STATES OR FLORIDA*

Pass

Anticipates Services outside the United States or Florida

If the respondent anticipates services under the contract or any subcontracts will be performed outside the United States or Florida, the respondent shall provide in a written statement which must include, but need not be limited to the type of services that will be performed at a location outside the United States or Florida and the reason why it is necessary or advantageous to go outside the United States or Florida to perform such services. (Does not apply to any project that receives federal moneys)

No

12. Submittal Requirements

Firms will be judged not only on their past experience for the type of work involved, but also on their ability to address issues critical to the success of the project requirements outlined in this RFQ document.

Following are elements that will be used to evaluate each firm's qualifications:

PROJECT TEAM *

Pass

Identify the project principal, the project manager, key staff and subconsultants. Present a brief discussion regarding how the team's qualifications and experience relate to the specific project.

- Qualifications and relevant individual experience.
- Unique knowledge of key team members relating to the project.
- Experience on projects as a team.
- Key staff involvement in project management and on-site presence.
- Time commitment of key staff.
- Qualifications and relevant subconsultant experience.

A._Project_Team.pdf

FIRM/TEAM CAPABILITIES*

Pass

- Are the lines of authority and coordination clearly identified?
- Are essential management functions identified?
- Are the functions effectively integrated? (e.g., subconsultants' role delineated)?
- Current and projected work load.

Note: Organization charts and graphs depicting your capacity may be included.

B._Firm_Team_Capabilities.pdf

PRIOR EXPERIENCE*

Pass

Use this portion of your submittal to describe relevant experiences with the project type described in this RFQ document and various services to be provided.

- Experience of the key staff and firm with projects of similar scope and complexity.
- Demonstrated success on past projects of similar scope and complexity.
- References.

Note: Include the name and current telephone number of the owner's project manager for every project listed.

C._Prior_Experience.pdf

PROJECT APPROACH - BUDGET METHODOLOGY/COST CONTROL*

Pass

For the project and services outlined in the RFQ document, describe how you plan to accomplish the following project control and management issues:

- Budget Methodology/Cost Control.
 - Establish and maintain estimates of probable cost within owner's established budget.
 - Control consultant contract costs
 - Coordinate value engineering activities

D._Project_Approach_-_Budget_Methodology_Cost_Control.pdf

PROJECT APPROACH - QUALITY CONTROL METHODOLOGY*

Pass

For the project and services outlined in the RFQ document, describe how you plan to accomplish the following project control and management issues:

- Quality Control Methodology.
 - Insure County procedures are followed
 - Improve energy efficiency through the use of an integrated design process, life cycle costing, the use of an energy standard (current OSA energy code) and the specification of energy efficient materials, systems, and equipment
 - Insure the project is designed for durability and maintainability

D._Project_Approach_-_Quality_Control_Methodology.pdf

PROJECT APPROACH - SCHEDULE*

Pass

For the project and services outlined in the RFQ document, describe how you plan to accomplish the following project control and management issues:

- Schedule.
 - Manage the required work to meet the established schedule

D._Project_Approach_-_Schedule.pdf

WORK LOCATION*

Pass

Describe where the prime and subconsultants will do the key work elements of this project.

- Proximity of firms office as it may affect coordination with the County's project manager and the potential project location.

- Firm's familiarity with the project area.
- Knowledge of the local labor and material markets.

E._Work_Coordination.pdf

13. Additional Uploads

ADDITIONAL UPLOADS

Pass

Please upload any optional/additional information not requested elsewhere. Respondent will also supply a full pdf of their proposal here and this should be done in addition to responding above to questions 12.1 through 12.7.

23-RFQ00414_CR_B&N.pdf

EXCEPTIONS

1. Proposers may take exception to certain requirements in this RFQ. All exceptions shall be clearly identified in this section, with a written explanation of the exception and an alternate proposal (if applicable). The County, at its sole discretion, may reject any exceptions or specifications within the proposal.
2. The Contract that the County intends to use for award is attached for reference. Any exceptions to this standard Contract must be clearly indicated by return of the standard Contract with the Proposal, with exceptions clearly noted. The County has the right to require the selected Proposer to sign the attached Contract or to negotiate revisions to the Contract language prior to execution of the Contract, at its sole discretion.

No response submitted

PROPOSER'S CERTIFICATION*

Pass

I have carefully examined the Request for Proposals (RFQ), Instructions to Proposers, General and/or Special Conditions, Specifications, RFQ Proposal and any other documents accompanying or made a part of this invitation.

I agree that my RFQ will remain firm for a period of up to one hundred and eighty (180) days in order to allow the County adequate time to evaluate the Proposals. Furthermore, I agree to abide by all conditions of the Proposal.

I certify that all information contained in this RFQ is truthful to the best of my knowledge and belief. I further certify that I am a duly authorized to submit this RFQ on behalf of the Consultant/Firm as its act and deed and that the Consultant/Firm is ready, willing and able to perform if awarded the Contract.

I further certify that this RFQ is made without prior understanding, agreement, connection, discussion, or collusion with any person, firm or corporation submitting a RFQ for the same product or service; no officer,

employee or agent of the Hernando County BCC or of any other Proposer interested in said RFQ; and that the undersigned executed this Proposer's Certification with full knowledge and understanding of the matters therein contained and was duly authorized to do so.

I further certify that having read and examined the specifications and documents for the designated services and understanding the general conditions for Contract under which services will be performed, does hereby propose to furnish all labor, equipment, and material to provide the services set forth in the RFQ.

I hereby declare that the following listing states any clarifications, any and all variations from and exceptions to the requirements of the specifications and documents. The undersigned further declares that the "work" will be performed in strict accordance with such requirements and understands that any exceptions to the requirements of the specifications and documents may render the Proposer's Proposal non-responsive.

I take NO exceptions

References

No. 1

Business/Owner Name: City of Sarasota

Reference Contact Person: Nikesh Patel, PE, CPM, PTOE

Reference Address: 1761 12TH Street, Sarasota, FL 34236

Reference Phone No.: 941-263-6132

Reference Email Address: Nikesh.Patel@sarasotaFL.gov

Project Name: Ringling Trail Design-Build

Project Location: Sarasota, FL

Contract Project Manager: Nikesh Patel, PE, CPM, PTOE

Site Superintendent – N/A

Contract Amount: \$330,000

Date Project Commenced: 2022

Date of Substantial Completion: N/A

Date of Final Completion: 2023

Description of Work Performed:

The City of Sarasota identified Ringling Boulevard as a candidate for a complete streets project to address the growth in bicycle traffic between The Legacy Trail and downtown Sarasota and the Bayfront. Legacy Trail is a multi-use path extending from south Sarasota County to downtown. The trail connection to Ringling Boulevard provided an excellent opportunity for the City to provide the first protected bike lane corridor in the Sarasota-Manatee region. The design-build delivery method allowed the City to provide that connectivity as quickly as possible.

This \$2.8 million project was high on citizen interest, addressed community needs and is likely to translate into economic growth for the downtown area. Cost-saving and sustainability measures included conducting construction engineering inspection services in-house and reallocating concrete parking wheel stops as bicycle dividers.

The protected bike lane was prioritized and is highlighted with green paint along intersections and conflict points to enhance safety. ADA ramps and crosswalks were upgraded and repaired to ADA standards. Landscaped islands with canopy trees were added as part of the complete streets. Bus stop pads were installed as loading/unloading areas for riders outside of the bike lane. The project delivered the features from design to final acceptance in less than one year and under \$3 million.

References

No. 2

Business/Owner Name: Hillsborough County

Reference Contact Person: Lawrence Josephson, PE

Reference Address: 601 E. Kennedy Blvd, Tampa, FL 33602

Reference Phone No.: 813-373-2176

Reference Email Address: josephsonl@hcflgov.net

Project Name: Development of Hillsborough County's Transportation Design Manual

Project Location: Hillsborough County

Contract Project Manager: Lawrence Josephson, PE

Site Superintendent – N/A

Contract Amount: \$313,812

Date Project Commenced: 2020

Date of Substantial Completion: N/A

Date of Final Completion: 2023

Description of Work Performed:

The HCTDM was prepared as an all-new design manual for Hillsborough County. In development for 2 years, B&N created the outline, contents and approaches of the manual while working closely with the Technical Services Division (TSD) Leadership Team and the County Engineer. The HCTDM was based on the newly created Hillsborough County Context-Based Classification System (also developed by B&N). Typical Cross Sections were developed for each Context Classifications with new design criteria above and beyond those established in the FDM.

Some challenges with creating the HCTDM and may require internal meetings. These challenges will provide improved opportunities in planning and designing projects:

- Using Target Speed and Design/Posted Speed
- Emergency Vehicle Accommodation Opportunities
- Using Complete Streets Guide's Typologies and HCTDM's Typical
- Preparing the required Multimodal Safety Analysis for the selected projects

Scope of Services

- Assisting with Technical Manuals and Specifications:
- Collaborating on refining and updating existing manuals to meet industry standards.
- Creating new manuals for emerging needs and technologies.
- Improvement Development:
- Planning and executing infrastructure and facility enhancements.
- Elevating public asset quality and functionality.
- Technical Inquiry Support:
- Addressing inquiries in various disciplines.
- Ensuring effective resolution in line with project goals.
- Technical Research and Reports:
- Conducting in-depth research on transportation engineering and safety.
- Producing insightful reports for innovative and context-sensitive design.

References

No. 3

Business/Owner Name: Hillsborough County

Reference Contact Person: Sandra Gonzalez, PE

Reference Address: 601 E Kennedy Blvd, Tampa, FL 33602

Reference Phone No. 813-307-17349

Reference Email Address: gonzaleza@hillsboroughcounty.org

Project Name: Transportation Design and General Engineering Services

Project Location: Hillsborough County

Contract Project Manager: Sandra Gonzalez, PE

Site Superintendent – N/A

Contract Amount: \$3,038,000

Date Project Commenced: 2021

Date of Substantial Completion: N/A

Date of Final Completion: Ongoing

Description of Work Performed:

B&N successfully completed a wide variety of projects under their previously named Misc. Professional Engineering Services contract between 2016 and 2020. See a list of representative projects below.

- Colson Rd Culvert Replacement (2016-2019)
- Crawley Rd Drainage Improvements (2016-2018)
- Thonotosassa Rd Culvert Replacements (2016-2018)
- Club Manor Drainage Improvements (2018-2019)
- Chickory Lane Drainage Improvements (2016-2017)
- CR 579 Drainage Improvements (2016-2018)
- Standardization of County Manuals and Specifications (including Stormwater Technical Manual) (2015-2016) Consultant Evaluation Score = 98%

B&N has continued to successfully complete a wide variety of projects under this new contract between 2021 and 2023. See a list of representative projects below.

- Pebble Beach Boulevard Bridge Replacement (design)
- Seffner Elementary School - School Circulation Improvements (Study/Design)
- Brooker Elementary School and Burns Middle School - School Circulation Improvements (Study/Design)
- Palm River Elementary School - School Circulation Improvements (Study/Design)
- School speed zones Phase IIC
- School speed zones Elementary/Middle Schools
- School speed zones High Schools/Private Schools
- Safe Routes to School (SRTS) - Brandon High School and Limona Elementary School
- Corridor Preservation Plan: Alternative Land Use Scenario
- Corridor Preservation Plan Update
- Gibsonton Grant Funding
- Madison Ave. Culvert Replacement

NONE

Licenses

Burgess & Niple, Inc.



[HOME](#) [CONTACT US](#) [MY ACCOUNT](#)

ONLINE SERVICES

- [Apply for a License](#)
- [Verify a Licensee](#)
- [View Food & Lodging Inspections](#)
- [File a Complaint](#)
- [Continuing Education Course Search](#)
- [View Application Status](#)
- [Find Exam Information](#)
- [Unlicensed Activity Search](#)
- [AB&T Delinquent Invoice & Activity List Search](#)

Licensee

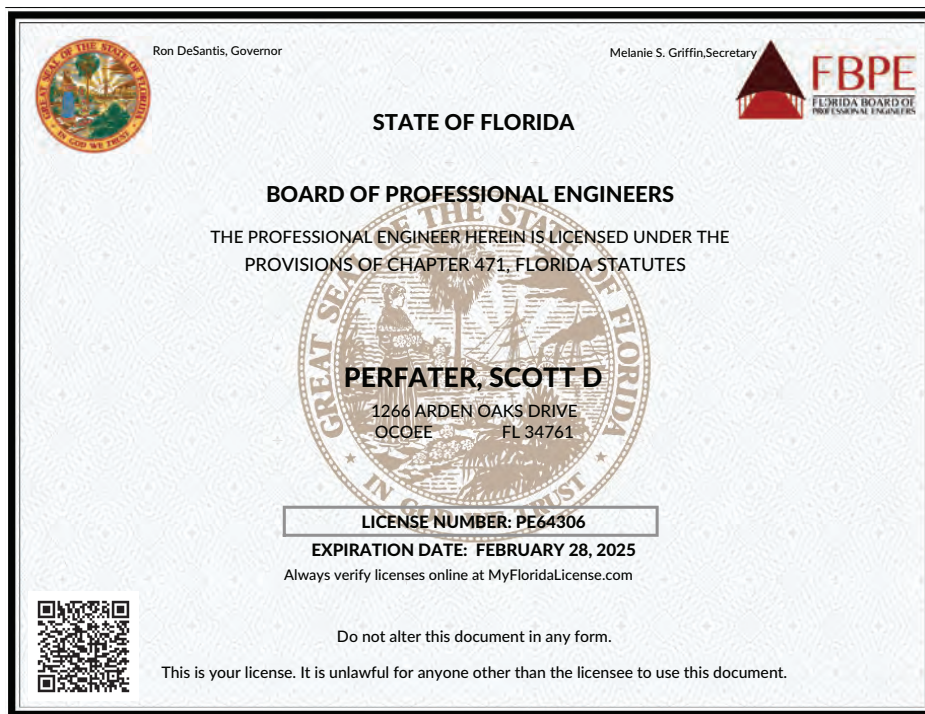
Name:	BURGESS & NIPLE, INC.	License Number:	9853
Rank:	Registry	License Expiration Date:	
Primary Status:	Current	Original License Date:	10/20/2003

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
64306	Current, Active	PERFATER, SCOTT D	Registry	05/29/2007	Professional Engineer	02/28/2025

Page 1 of 1

[Printer Friendly](#)



State of Florida

Department of State

I certify from the records of this office that BURGESS & NIPLE, INC. is an Ohio corporation authorized to transact business in the State of Florida, qualified on September 17, 2003.

The document number of this corporation is F03000004719.

I further certify that said corporation has paid all fees due this office through December 31, 2023, that its most recent annual report/uniform business report was filed on January 23, 2023, and that its status is active.

I further certify that said corporation has not filed a Certificate of Withdrawal.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Twenty-third day of January,
2023*




Secretary of State

Tracking Number: 5037223601CC

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.

<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

Burgess & Niple, Inc.

Ron DeSantis, Governor
Melanie S. Griffin, Secretary

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

BELLUCCIA, ANGELO GIOVANNI
2845 SAFE HARBOR DRIVE
TAMPA FL 33618

LICENSE NUMBER: PE46548
EXPIRATION DATE: FEBRUARY 28, 2025
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Ron DeSantis, Governor
Melanie S. Griffin, Secretary

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

HENDRICKSON, DANIEL
4111 WEST SAN PEDRO STREET
TAMPA FL 33629

LICENSE NUMBER: PE76184
EXPIRATION DATE: FEBRUARY 28, 2025
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Ron DeSantis, Governor
Melanie S. Griffin, Secretary

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

WU, QIONG
11807 LANCASHIRE DR
TAMPA FL 33626

LICENSE NUMBER: PE94385
EXPIRATION DATE: FEBRUARY 28, 2025
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DEE, JOHN T.
1631 MALCOLM POINT DRIVE
WINTER GARDEN FL 34787

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ATKINSTALL, ANDRE MARK ANTHONY
4083 MOUNT BANDON DR
LAND O' LAKES FL 34638

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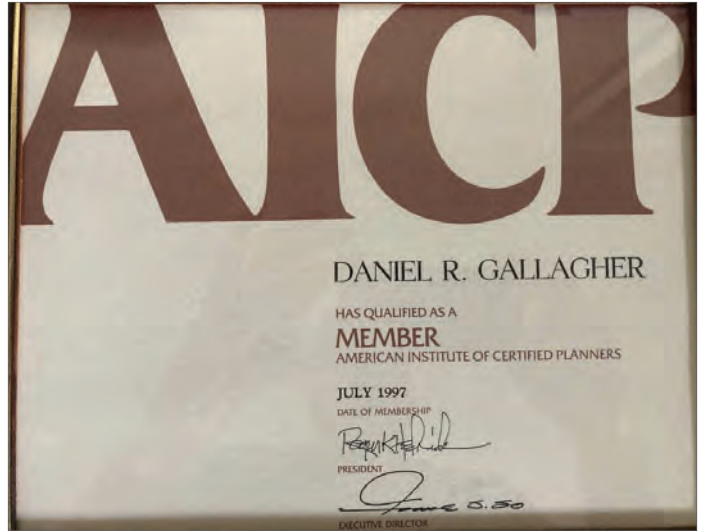
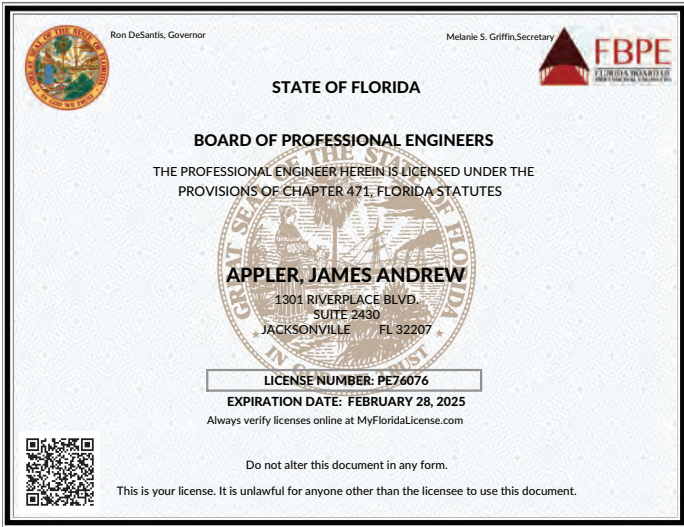
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SPIRIO, CARLTON DONALD JR
2910 WINDING TRAIL DRIVE
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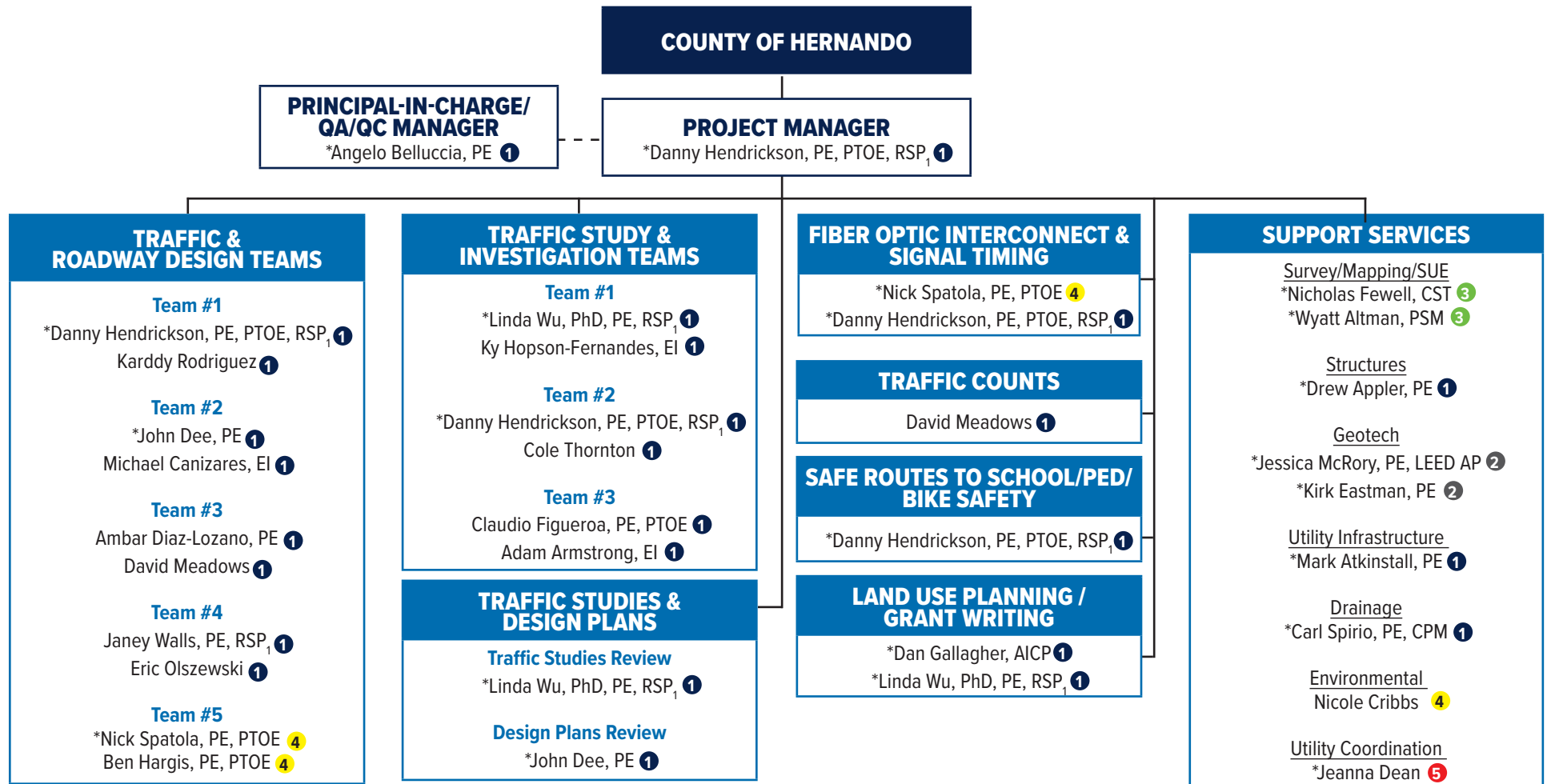


Team Organizational Chart

Our team selection process was driven by a strategic vision to ensure the utmost proficiency and excellence in delivering on the Continuing Traffic Engineering Services contract. We chose our staff based on a comprehensive understanding of the County's needs, objectives, and the scope of services. Each key team member brings a unique blend of skills, and at least 5 years of experience, and expertise that perfectly aligns with the contract requirements, making our team the ideal choice for this project.

LEGEND * = Key Resume

- 1 Burgess & Niple, Inc.
- 2 AREHNA Engineering, Inc. M/WBE & DBE
- 3 Colliers Engineering
- 4 Faller Davis & Associates, Inc. M/WBE
- 5 Harbor Coordination Solutions, Inc. M/WBE & DBE



BURGESS & NIPLE**Danny Hendrickson**

PE, PTOE, RSP₁
Project Manager

Total Years of Experience: 15

Years with Current Firm: 10

Education:

BS, Civil Engineering, 2008, University of Florida

Affiliations:

American Society of Civil Engineers (ASCE)

Institute of Transportation Engineers (ITE)

Trainings/Certifications

FDOT Systems Engineering for ITS Workshop,
2012

FDOT Interchange Access Training, 2015

FDOT Designing for Pedestrian Safety Workshop,
2014

FDOT Intermediate Maintenance of Traffic

Registrations:

Professional Engineer-FL, 2013, #76184

BACKGROUND

Mr. Hendrickson specializes in innovative and efficient traffic operations and design. His responsibilities include traffic operations design and simulation, intersection/interchange operational analysis, design for roadway signing and pavement markings, signalization, lighting, data collection, as well as preparing traffic impact and signal warrant studies. He has served as Project Manager on task work order contracts and has completed more than 300 work orders statewide in the past six years. Mr. Hendrickson previously worked at District Seven, specializing in the traffic operations and roadway design. He is proficient in MicroStation, GEOPAK, Visual, Synchro, SIDRA, VISSIM, and HCS 2010.

RELEVANT EXPERIENCE

Hernando County | SR 50 (Cortez Boulevard) at Nightwalker Road and Coastal Boulevard Intersection Operational Studies and Design. Project Engineer for intersection operational studies. Responsibilities included performing data collection and analysis to determine optimal intersection lane configuration at the two study intersections along SR 50 (Cortez Boulevard) in Hernando County. Mr. Hendrickson also served as the EOR for signalization and signing and pavement marking plans for the design improvements recommended in the operational study. The design included constructing additional turn lanes, adding sidewalk, and modifications to existing mast arms and ped signals.

Hillsborough County | Traffic Engineering and Road Safety. Project Manager for this task work order driven contract that includes various safety and operational studies and minor design. Tasks performed include various public request traffic investigations, signal warrant studies, stop sign warrant studies, pedestrian & bicycle safety evaluations, school circulation studies, speed studies, concept and estimate developments, and minor safety and operational designs.

FDOT District 1 | District Wide Traffic Operational Studies, Charlotte, Collier, DeSoto, Glades, Hardee, Hendry, Highlands, Lee, Manatee, Okeechobee, Polk, and Sarasota Counties, FL. Project Manager/Project Engineer responsible for coordinating and performing intersection delay, speed, leftturn and traffic signal warrant studies along with data collection including approach, turning movements, classifications, and pedestrian counts for state roadways/intersections in the District. Mr. Hendrickson is responsible for coordinating tasks, schedules, and deliverables with client and subconsultants. Over the past four years, 250 tasks have been completed including the following examples:

- 40 intersections along SR 70 in Arcadia in two days – Turning Movement Counts
- SR 600 (US 92) at Fairway Avenue in Polk County – Signal Warrant Analysis
- SR 45 (US 41) at Bispham Road in Sarasota County – Signal Warrant Analysis
- SR 45 (US 41) at 21st Street East in Manatee County – Signal Warrant Analysis

- SR 45 (US 41) at Palmview Road in Manatee County – Signal Warrant Analysis

FDOT District 5 | District Wide Traffic Engineering Studies, Brevard, Flagler, Lake, Marion, Orange, Osceola, Seminole, Sumter, and Volusia Counties, FL. Project Manager for this task work order driven contract that includes conducting traffic operational/safety studies and plans preparation for safety design improvements. Study tasks may include signal warrant analysis or composite study tasks including vehicle, pedestrian and bicycle traffic counts; intersection delay studies; qualitative assessments; left-turn phase warrant analyses; vehicle spot speed studies; collision analyses; intersection inventories; highway lighting justification; and no passing zone studies.

Pasco County | Golden Acres Traffic Calming Study, Pasco County, FL. Project Manager for this task order to conduct a traffic calming study in the residential area of Golden Acres. Residents of the Golden Acres residential neighborhood requested traffic calming measures to slow traffic and deter cut-through driving. Beginning in mid- 2017, Pasco County met with residents, conducted traffic counts, performed increased enforcement, and held a vote to determine if traffic calming measures should be installed. The County retained B&N to conduct a comprehensive traffic calming study of the entire neighborhood. B&N performed speed and volume counts, field inventory, crash analyses, traffic calming research and cost estimates, held public meetings, and provided a summary of both existing conditions and recommendations.

Pinellas County | Gulf Boulevard Pedestrian/Bicycle Safety Study, Pinellas County, FL. Project Manager for three-mile corridor safety study involving ped/bike data collection, field reviews, safety analysis, and cross walk evaluation to determine safe crossing locations for pedestrians and recommendations for improved bicycles facilities throughout the corridor. Also included presentations to the Pinellas bicycle pedestrian advisory committee and other local government city commissions.

Hillsborough County | Engineering Services, Transportation Development and Design, Hillsborough County, FL. Contract involves providing general/civil engineering services to support transportation capital improvements including but not limited to intersection improvements, new signals, traffic signal interconnection, road diets, complete streets, road widening, road resurfacing and reconstruction and bridge rehabilitation and replacement. As the Traffic Engineer, Mr. Hendrickson was responsible for providing traffic design and operational analysis. Tasks Mr. Hendrickson worked on include:

- **Lutz Lake Fern Rd at Heritage Harbor Pkwy.** Preliminary design and engineering study for the intersection as well as signal design as a result of the study's findings.

FDOT District 7 | USB41/SR685/SR60/W Kennedy Blvd, Tampa, FL. Signalization and Signing and Pavement Marking EOR. The FDOT awarded B&N the Kennedy Boulevard Complete Streets project between Woodlynne Avenue and Brevard Avenue. This segment of Kennedy Boulevard connects historic landmarks like the University of Tampa (Tampa Bay Hotel, c. 1891) and the new \$35 million Tampa General Hospital rehabilitation facility to Downtown Tampa and the Hillsborough River. The ongoing urban revitalization along this corridor has spurred the need for more walkable, multi-modal accommodations. B&N will focus on Complete Streets design to address safety, encourage multi-modal usage, and improve connectivity. Recognizing extensive drainage improvements will require the road to be reconstructed, B&N's collaborative relationship with both the City of Tampa and FDOT proved key in guiding the corridor improvements that help the City achieve its "Livable City" vision while addressing FDOT's infrastructure needs.

FDOT District 7 | Traffic Operations Design-Build Push Button Contract 3, Citrus, Hernando, Hillsborough, Pasco, and Pinellas Counties, FL. Project Manager and Engineer-of-Record for multiple minor design tasks including signal reconstruction, signing and pavement markings, and turn-lane modifications. Tasks are completed on accelerated schedules with scopes designed to solve specific safety or operational deficiencies.

FDOT District 7 | District Wide Safety Studies and Minor Design, Citrus, Hernando, Hillsborough, Pasco, and Pinellas Counties, FL. Project Engineer for this task work order driven contract that includes roadside safety measures, lighting justification, intersection improvements, ADA, traffic flow improvements, bike lanes, and sidewalk connectivity – all to reduce the potential for crashes, injuries and fatalities. Additional scope elements include preparing informational/educational materials to provide safety training, providing Roadway Safety Audit (RSA) support, as well as providing Community Traffic Safety Team (CTST)/Local Agency support to assist with identifying municipal Local Agency Program (LAP) projects. In addition, the contract includes a number of independent "study types" encompassing a wide variety of traffic operational tasks including: intersection and signal warrant analyses, vehicle/pedestrian/bicycle traffic counts, corridor safety studies, crash analyses and reports, safety outreach and education, training, safety funding concept development, and minor design.

AREHNA Engineering, Inc.

Florida dbpr Department of Business & Professional Regulation

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License Type	Name	Name Type	License Number/ Rank	Status/Expires
Engineering Business Registry	AREHNA ENGINEERING, INC.	Primary	28410 Registry	Current

Main Address*: 5012 W. LEMON STREET TAMPA, FL 33609

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Melanie S. Griffin, Secretary

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MCRORY, JESSICA ANN
5012 W. LEMON STREET
TAMPA FL 33609

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EASTMAN, KIRK M
14660 CORKWOOD DRIVE
TAMPA FL 33626

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FDOT BROWARD COUNTY GREATER ORLANDO AVIATION AUTHORITY JACKSONVILLE TRANSPORTATION AUTHORITY

Florida Unified Certification Program

Disadvantaged Business Enterprise (DBE) Certificate of Eligibility

AREHNA ENGINEERING INC
MEETS THE REQUIREMENTS OF 49 CFR, PART 26
APPROVED NAICS CODES:
541330, 541990, 541380

Samuel (Sammy) Febres
Samuel (Sammy) Febres
DBE & Small Business Development Manager
Florida Department of Transportation

MIAMI-DADE COUNTY TAMPA INTERNATIONAL AIRPORT PALM BEACH COUNTY VOTRAN

State of Florida

Woman Business Certification

AREHNA Engineering, Inc.

Is certified under the provisions of 287 and 295.187, Florida Statutes, for a period from:
07/10/2023 to 07/10/2025

Todd Inman
Todd Inman
Florida Department of Management Services

FLORIDA DEPARTMENT OF MANAGEMENT SERVICES
8750 E. Bayshore Way, Suite 800
Tallahassee, FL 32304
850-487-0933
www.flm.com/toddservices

Colliers Engineering

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LICENSEE DETAILS 10:37:17 AM 6/20/2022

Licensee Information

Name:	COLLIERS ENGINEERING & DESIGN, INC. (Primary Name)
	MASER CONSULTING (DBA Name)
Main Address:	331 NEWMAN SPRINGS ROAD SUITE 203 RED BANK New Jersey 07701
County:	OUT OF STATE

License Information

License Type:	Registry
Rank:	Registry
License Number:	30301
Status:	Current
Licensure Date:	05/09/2013
Expires:	




Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkwy Tallahassee, Florida 32399-6500

License No.: **LS7062**
Expiration Date: February 28, 2025

Professional Surveyor and Mapper License
Under the provisions of Chapter 472, Florida Statutes

ROBERT W. ALTMAN
5628 CYPRESS ST
ZEPHYRHILLS, FL 33542-4516



WILTON SIMPSON
COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.

Faller Davis & Associates, Inc.



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LICENSEE DETAILS 12:18:07 PM 12/11/2023

Licensee Information

Name:	FALLER, DAVIS AND ASSOCIATES, INC. (Primary Name)
Main Address:	4200 WEST CYPRESS STREET SUITE 500 TAMPA Florida 33607
County:	HILLSBOROUGH

License Information

License Type:	Engineering Business Registry
Rank:	Registry
License Number:	5864
Status:	Current
Licensure Date:	12/18/1990
Expires:	

State of Florida

Woman Business Certification


Faller, Davis & Associates, In

Is certified under the provisions of 287 and 295.187, Florida Statutes, for a period from:
12/17/2021 12/17/2023



J. Todd Inniss
Florida Department of Management Services

Office of Supplier Diversity
4550 Expansive Way, Suite 450
Tallahassee, FL 32310
850-487-1915
www.dms.fl.gov/diversity



Ron DeSantis, Governor Melanie S. Griffin, Secretary

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SPATOLA, NICHOLAS JOSEPH

2301 MAITLAND CENTER PARKWAY
SUITE 265
MAITLAND FL 32751

LICENSE NUMBER: PE76103


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Harbor Coordination



CORPORATE AFFIDAVIT

(To be filled in and executed if the Vendor/Contractor is a Corporation)

STATE OF FLORIDA]

COUNTY OF HERNANDO]

Mark A. Hutson, PE being duly sworn, deposes and says that he is secretary of
Burgess & Niple, Inc., a corporation organized and existing under and by
virtues of the laws of the State of Ohio, and having its principal office at:

330 Rush Alley, Suite 700, Columbus, OH 43215 (Address)

Affiant further says that he is familiar with the records, minute books and bylaws of

Burgess & Niple, Inc. (Name of Corporation) of the
corporation, is duly authorized to sign Mark A. Hutson, PE, Secretary (Title)

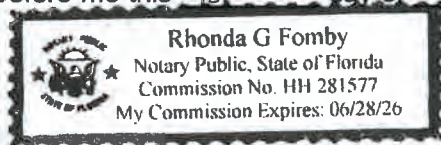
the Bid for 23-RFQ 00414/CR Continuing Traffic Engineering Services for said corporation by virtues of:
Columbus, OH

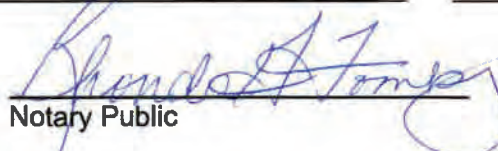
(State whether a provision of bylaws or a Resolution of the Board of Directors. If by Resolution, give date of adoption).

August 10, 2023


Affiant Mark A. Hutson

Sworn to before me this 1st day of December, 2023.




Notary Public

This document should be completed and returned with your submittal.

Project Team

TEAM'S QUALIFICATIONS AND EXPERIENCE RELATED TO THE SPECIFIC PROJECT

Burgess & Niple, Inc. (B&N) is extremely excited for the opportunity to continue providing Traffic Engineering Services to Hernando County. Our team's intimate knowledge and experience working on the two previous Continuing Traffic Engineering Services contracts and demonstrated track record of providing high quality services makes the B&N team ideal for this contract. B&N has completed traffic operations, safety, and minor design work orders for Hernando County over the past 10 years and we look forward to continuing to serve you. *Please see resumes starting on page 7 for relevant individual experience.*

With more than 15 years of experience, **Danny Hendrickson, PE, PTOE, RSP₁**, will serve as B&N's Project Manager (PM). Danny has served as a PM or Task Manager on more than 10 different traffic operations Task Work Order (TWO)-based contracts, including the current Hernando County Traffic Engineering Services contract. He is thoroughly familiar with the TWO process and has significant experience with all of the design, study, and other services included in this scope. As part of the current contract, Danny has managed multiple design and study tasks including those listed below.

- Traffic Signal & Turn Lane Design – SR 50 at Highline Drive – On-going
- Fiber Optic Interconnections – Forest Oaks Blvd from US 19 to Deltona Blvd – 2019
- Signal Warrant Analysis – Sunshine Grove Rd at Plumeria Blvd – 2023
- Ayers Rd at Culbreath Rd – Roundabout Analysis – 2023

Danny understands that communication, scheduling and organization are paramount to handling multiple concurrent tasks and will ensure clear and effective coordination with County staff to deliver quality results accurately and on schedule.

Angelo Belluccia, PE, will serve as Principal-in-Charge/Quality Assurance/Quality Control Manager. Angelo has a long and successful history of working with Hernando County on a variety of traffic design and study related tasks. Additionally, Angelo worked closely with County staff to review the Springhill Town Center

Transportation Analysis Comprehensive Plan Amendment. Angelo provides a thorough understanding of policies related to land development, safety and transportation planning and design.

B&N REPEAT BUSINESS

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Spring Hill Town Center, Hernando County, Florida – Hernando County.



B&N represented Hernando County in the transportation impact review of the submitted Comprehensive Plan Amendment and Rezoning. The review centered on transportation methodology, analyses, policy development, and conditions of approval. The Spring Hill Town Center is designated as a Planned Development District (PDD) Land Use Category on the Future Land Use Map. This designation permits a master-planned infill community featuring compact development around a town center comprising a diverse mix of residential, commercial, office, institutional, and recreational land uses.

B&N has created a comprehensive team of seasoned B&N staff and outstanding subconsultants that will work in unison with Hernando County to exceed their expectations. Our unique and interdisciplinary team will meet this contract's objectives by using the best and most accurate data, including population, employment, land use, development, traffic, safety and will advance safe systems and practical design approaches to achieve the community's vision. We will make it our goal to implement creative and context-sensitive planning and design solutions on each task assignment to help improve safety and mobility throughout the County.

Based on the scope of services, we grouped the expected assignments under this contract into the following categories and have provided our experience and technical lead for each. The project organizational chart provides additional details and information on subconsultant support services.

RECENT EXPERIENCE ON PROJECTS AS A TEAM WITH B&N SUBCONSULTANTS

Project	Subconsultant Partners
SR 50 at Highline Drive	Colliers, Harbor
SR 60 (Adamo Dr) at 26th St	Arehna
SR 600 (Hillsborough Ave) at 15th St	Arehna
SR 60 (Kennedy Blvd) from Woodlynne Ave to Brevard Ave	Harbor
FDOT D7 Design-Build Push-Button 3	Colliers, Harbor
SR 50 from Pine Hills Rd to Tampa Ave	Faller Davis
FDOT D5 Traffic Studies & Minor Design	Faller Davis

UNIQUE KNOWLEDGE OF KEY TEAM MEMBERS RELATING TO THE PROJECT AND RELEVANT SUBCONSULTANT EXPERIENCE

› Traffic Design

Danny Hendrickson, PE, PTOE, RSP₁, will lead the PM on this contract and lead traffic design efforts. Danny has been the engineer of record for dozens of traffic signals through the state for local and state agencies. He is an expert on ADA criteria for pedestrian push-buttons and curb ramp design and is acutely aware of the detail required in signalization plans to ensure the push-buttons are accurately located. Danny and the B&N traffic design team have also led an effort by Hillsborough County to update all school zone signs and pavement markings to the latest FDOT Speed Zoning Manual criteria. This involved installing new reduced speed flashing beacons, both ground and overhead mount, at 58 schools. We also performed school circulation studies at several schools to assist in drop-off and pick-up safety and efficiency by increasing storage areas, relocating ingress/ egress areas, and making other operational changes.



B&N can provide five design and three study teams!

› Roadway & Final Design

With 26 years of experience, **John Dee, PE** will lead B&N's roadway and final design team. John has experience working with local agencies throughout Florida and understands their unique needs and priorities. He recently completed plans to convert a signalized intersection from a traffic signal to a roundabout in Polk County and will begin work shortly on the Ayers/Hayman Road at Culbreath Road roundabout with Todd Crosby for Hernando County. John is also working with Hillsborough County on a Safe Routes to School project to provide sidewalks and safer crosswalks using RRFBs and raised intersections around Limona Elementary School. John holds an Advanced MOT certification and has developed both routine and unique Temporary Traffic Control (TTC) plans including detours. He has also prepared construction bid tabs, specifications packages, and performed unbalanced bid reviews for local and state agencies throughout Florida.

› Traffic Studies & Investigations

The County receives numerous traffic service requests from the public varying from requests for stop signs, traffic signals, speeding and/or traffic calming, crosswalks, traffic counts, lighting, and many others. B&N has worked on hundreds of these requests for both local and state agencies, particularly with Hernando and Hillsborough County. We understand some requests can be resolved with a simple field review, documentation of existing conditions and operations, and a brief memo outlining the results and recommendations, if any. Some requests will require more detailed analysis including traffic counts, collision review and analysis, qualitative assessment, and possibly a full signal warrant

analysis (SWA). Our team performed several SWAs as part of our current contract with the County and we are intimately familiar with the warrants as outlined in the Manual on Uniform Traffic Control Devices (MUTCD). We also performed a recent roundabout evaluation at Ayers Rd and Culbreath Rd using a benefit/cost and right of way analysis comparing a traffic signal to a roundabout. We are now beginning the design phase of the roundabout implementation.



B&N's Safety Goals

Our team's goals are in alignment with the Hernando/ Citrus County MPO's goal to reduce fatal and serious injury crashes by 5% per year for all road users. To achieve this goal, our team follows the Safe Systems Approach (SSA) guidance which includes the following framework: **(1)** Serious injuries and deaths are preventable. **(2)** Human life is prioritized. **(3)** Human error is inevitable and roads need to be forgiving. **(4)** Safety is to focus on influencing individual behavior and **(5)** Speed is a basic factor in crash severity. By following the SSA framework, B&N helped Hillsborough County develop a county-specific Multimodal Safety Analysis Methodology that is now included in their Traffic Design Manual (TDM). The methodology combines FHWA, AASHTO, ITE, FDOT and Hillsborough County's unique processes and it requires a thorough assessment of safety conditions for most project development and design projects. This is one of many ways B&N's experience developing tools and procedures reduce serious injuries and fatalities can also be utilized for Hernando County.

› Fiber Optic Interconnect Design & Signal Timing

Faller Davis & Associates (FDA) will be providing traffic signal interconnection and ITS services. FDA is led by **Nick Spatola, PE, PTOE** and has a proven history of successfully completing ITS and signal design projects, and have extensive knowledge of traffic signal controller interfaces, cabinet equipment, and advanced traffic management systems. FDA have designed ITS plans including fiber optic trunk lines, closed circuit television (CCTV) cameras, dynamic message signs (DMS), and microwave vehicle detection systems (MVDS). The team have installed real time traffic monitoring devices that provide real time travel time information allowing for the implementation of real time changes to help mitigate congestion and delays and improve safety.

Hernando County Project Experience:

- Arterial Management Program, Hillsborough, Pasco, and Hernando Counties, FDOT District 7
- District Seven Traffic Signal Retiming Continuing Contract (CA921), FDOT District 7
 - SR 55 (US 19) from Applegate Drive/Pepper Street to Northcliffe Boulevard/Frontage Road, Hernando County
- District-Wide Traffic Signal Retiming (C9A67), FDOT District 7
 - US 19/Commercial Way from Pepper Street/Applegate Drive to SR 50/Cortez Boulevard, Hernando County

› Geotechnical Services

AREHNA Engineering, Inc. will offer geotechnical services led by **Jessica McRory, PE, LEED AP**, and **Kirk Eastman, PE**, who collectively bring over 50 years of geotechnical experience to the team. Jessica and Kirk are well-versed in the geologic conditions of Hernando County and possess extensive experience designing stabilization programs for both pre and post-construction phases. AREHNA specializes in these programs, considering various scenarios. AREHNA's project portfolio encompasses geotechnical engineering and materials testing for diverse developments, including roadway improvements, sidewalks, safety measures, bike and pedestrian enhancements, bridge replacements, complete streets, parks, trails, recreational facilities, and water management projects. AREHNA's work extends to FDOT, FDEP, SWFWMD, as well as other counties and cities throughout the state.

Hernando County Project Experience:

- General Engineering Contract Water & Wastewater
- Corporate Blvd. Suncoast Pkwy.
- Lockhart Pump Station
- David Master Foundation Inspection
- Deltona Blvd. Sidewalk LAP
- Bayou Drive Culvert
- FDEP Weeki Wachee Seawall
- City of Brooksville Pavement
- Kenlake Drainage Retention Areas
- Ruppe Commercial – Drainage Improvements
- Mariner Frontage Road
- Bayou Drive Culvert
- FDEP Weeki Wachee State Park Replacement

› Utility Coordination

Jeanna Dean, from **Harbor Coordination Solutions, Inc.**, will lead the utility coordination services. With over 20 years of experience in utility management coordination, Jeanna brings a wealth of expertise. Harbor Coordination Solutions specializes in providing utility coordination and utility project management support services for both public and private transportation clients.

Hernando County Project Experience:

- Harbor Coordination has collaborated with Hernando County on numerous FDOT projects over the past 23 years.

› Review of 3rd Party Plans & Studies

Burgess & Niple will provide third-party plans and studies review services, led by **Linda Wu, PE, PhD, RSP**, and **John Dee, PE**. Linda will conduct thorough assessments of all developer traffic impact or other transportation studies, focusing specifically on methodology, analyses, policy development, and conditions of approval. John will lead the review for any plans submitted to the County, which he has been doing for Polk County for several years, including the Thompson Nursery Road reconstruction widening project where B&N reviewed Final Plans last month.

Our Team has a thorough knowledge of FDOT standards, AASHTO and FHWA manuals, and most importantly, Hernando County's preferences and standards. In addition, our knowledge continues with an understanding of applicable Florida Statutes and Administrative Codes including definitions (316.003), speed limits (316.183), Hernando County Facility Design Guidelines and Traffic Calming Guidelines, and other Statutes requirements within a municipal road right-of-way

› Survey, Right of Way Mapping, and Subsurface Utility Engineering

Colliers Engineering & Design, Inc. (CED) will spearhead Survey, Right of Way Mapping, and Subsurface Utility Engineering services, with Nicholas Fewell, CST, and Wyatt Altman, PSM, leading these efforts for CED. As a versatile professional services firm, CED specializes in a comprehensive array of offerings, including SUE, GIS, and Survey. Established in 1984, CED has been a steadfast presence in the local area, operating from seven offices with a dedicated team of over 160 employees in Florida. With extensive expertise in SUE and Survey services, CED has played pivotal roles as a prime or lead subconsultant, currently collaborating with Burgess & Niple under contracts with Hernando County. Their influence extends to various other counties, such as Pinellas, Hillsborough, Seminole, Broward, Palm Beach, and Miami-Dade, where they hold multiple FDOT professional services contracts. CED takes pride in delivering a seamlessly integrated turn-key team to the County, ensuring a high-quality client experience through the collaborative efforts of each service line.

Hernando County Project Experience:

- Evergreen & SR 50 Castings, Hernando County, FL. CED provided QL-A and QL-B services in support of roadway design. CED was tasked with locating the ends of casings for a water main, force main and gravity sewer. CED utilized QL-D through QL-A services to successfully locate the end of the casings to verify that their lengths were sufficient for roadway expansion along SR 50 in Hernando County.
- Grace World Church Addition, Brooksville, FL. CED Provided QLA & QLB services associated with expansion of development on the Church campus on an approximately 13.3 acre property. The development consists of an approximate 5,200 SF two-story building addition and an approximate 8,500 SF gathering building area.

TIME COMMITMENT OF KEY STAFF

Burgess & Niple, Inc.	
Danny Hendrickson, PE, PTOE, RSP ₁	70%
Angelo Belluccia, PE	50%
John Dee, PE	50%
Linda Wu, PhD, PE, RSP ₁	65%
Dan Gallagher, AICP	40%
Drew Appler, PE	70%
Mark Atkininstall, PE	65%
Carl Spirio, PE	40%
AREHNA Engineering, Inc.	
Jessica McRory, PE, LEED AP	70%
Kirk M. Eastman, PE	70%
Colliers Engineering	
Nicholas Fewell, CST	50%
Wyatt Altman, PSM	50%
Faller Davis & Associates, Inc.	
Nicholas J. Spatola, PE, PTOE	20%
Harbor Coordination Solutions, Inc.	
Jeanna J. Dean	50%

Per Addendum 1: Names of the principals for all subconsultants being utilized as part of this contract:

- AREHNA Engineering, Inc. - Jessica McRory, PE, LEED AP
- Colliers Engineering - Michael Ehrhart, PSM
- Faller Davis & Associates, Inc. - Nancy Faller Brown, PE
- Harbor Coordination Solutions, Inc. - Jeanna Dean

Your B&N team!



BURGESS & NIPLE**Danny Hendrickson**

PE, PTOE, RSP₁
Project Manager

Total Years of Experience: 15

Years with Current Firm: 10

Education:

BS, Civil Engineering, 2008, University of Florida

Affiliations:

American Society of Civil Engineers (ASCE)

Institute of Transportation Engineers (ITE)

Trainings/Certifications

FDOT Systems Engineering for ITS Workshop,
2012

FDOT Interchange Access Training, 2015

FDOT Designing for Pedestrian Safety Workshop,
2014

FDOT Intermediate Maintenance of Traffic

Registrations:

Professional Engineer-FL, 2013, #76184

BACKGROUND

Mr. Hendrickson specializes in innovative and efficient traffic operations and design. His responsibilities include traffic operations design and simulation, intersection/interchange operational analysis, design for roadway signing and pavement markings, signalization, lighting, data collection, as well as preparing traffic impact and signal warrant studies. He has served as Project Manager on task work order contracts and has completed more than 300 work orders statewide in the past six years. Mr. Hendrickson previously worked at District Seven, specializing in the traffic operations and roadway design. He is proficient in MicroStation, GEOPAK, Visual, Synchro, SIDRA, VISSIM, and HCS 2010.

RELEVANT EXPERIENCE**Hernando County | SR 50 (Cortez Boulevard) at Nightwalker Road and Coastal Boulevard Intersection Operational Studies and Design.**

Project Engineer for intersection operational studies. Responsibilities included performing data collection and analysis to determine optimal intersection lane configuration at the two study intersections along SR 50 (Cortez Boulevard) in Hernando County. Mr. Hendrickson also served as the EOR for signalization and signing and pavement marking plans for the design improvements recommended in the operational study. The design included constructing additional turn lanes, adding sidewalk, and modifications to existing mast arms and ped signals.

Hillsborough County | Traffic Engineering and Road Safety.

Project Manager for this task work order driven contract that includes various safety and operational studies and minor design. Tasks performed include various public request traffic investigations, signal warrant studies, stop sign warrant studies, pedestrian & bicycle safety evaluations, school circulation studies, speed studies, concept and estimate developments, and minor safety and operational designs.

FDOT District 1 | District Wide Traffic Operational Studies, Charlotte, Collier, DeSoto, Glades, Hardee, Hendry, Highlands, Lee, Manatee, Okeechobee, Polk, and Sarasota Counties, FL. Project Manager/Project Engineer responsible for coordinating and performing intersection delay, speed, leftturn and traffic signal warrant studies along with data collection including approach, turning movements, classifications, and pedestrian counts for state roadways/intersections in the District. Mr. Hendrickson is responsible for coordinating tasks, schedules, and deliverables with client and subconsultants. Over the past four years, 250 tasks have been completed including the following examples:

- 40 intersections along SR 70 in Arcadia in two days – Turning Movement Counts
- SR 600 (US 92) at Fairway Avenue in Polk County – Signal Warrant Analysis
- SR 45 (US 41) at Bispham Road in Sarasota County – Signal Warrant Analysis
- SR 45 (US 41) at 21st Street East in Manatee County – Signal Warrant Analysis

- SR 45 (US 41) at Palmview Road in Manatee County – Signal Warrant Analysis

FDOT District 5 | District Wide Traffic Engineering Studies, Brevard, Flagler, Lake, Marion, Orange, Osceola, Seminole, Sumter, and Volusia Counties, FL. Project Manager for this task work order driven contract that includes conducting traffic operational/safety studies and plans preparation for safety design improvements. Study tasks may include signal warrant analysis or composite study tasks including vehicle, pedestrian and bicycle traffic counts; intersection delay studies; qualitative assessments; left-turn phase warrant analyses; vehicle spot speed studies; collision analyses; intersection inventories; highway lighting justification; and no passing zone studies.

Pasco County | Golden Acres Traffic Calming Study, Pasco County, FL. Project Manager for this task order to conduct a traffic calming study in the residential area of Golden Acres. Residents of the Golden Acres residential neighborhood requested traffic calming measures to slow traffic and deter cut-through driving. Beginning in mid- 2017, Pasco County met with residents, conducted traffic counts, performed increased enforcement, and held a vote to determine if traffic calming measures should be installed. The County retained B&N to conduct a comprehensive traffic calming study of the entire neighborhood. B&N performed speed and volume counts, field inventory, crash analyses, traffic calming research and cost estimates, held public meetings, and provided a summary of both existing conditions and recommendations.

Pinellas County | Gulf Boulevard Pedestrian/Bicycle Safety Study, Pinellas County, FL. Project Manager for three-mile corridor safety study involving ped/bike data collection, field reviews, safety analysis, and cross walk evaluation to determine safe crossing locations for pedestrians and recommendations for improved bicycles facilities throughout the corridor. Also included presentations to the Pinellas bicycle pedestrian advisory committee and other local government city commissions.

Hillsborough County | Engineering Services, Transportation Development and Design, Hillsborough County, FL. Contract involves providing general/civil engineering services to support transportation capital improvements including but not limited to intersection improvements, new signals, traffic signal interconnection, road diets, complete streets, road widening, road resurfacing and reconstruction and bridge rehabilitation and replacement. As the Traffic Engineer, Mr. Hendrickson was responsible for providing traffic design and operational analysis. Tasks Mr. Hendrickson worked on include:

- **Lutz Lake Fern Rd at Heritage Harbor Pkwy.** Preliminary design and engineering study for the intersection as well as signal design as a result of the study's findings.

FDOT District 7 | USB41/SR685/SR60/W Kennedy Blvd, Tampa, FL. Signalization and Signing and Pavement Marking EOR. The FDOT awarded B&N the Kennedy Boulevard Complete Streets project between Woodlynne Avenue and Brevard Avenue. This segment of Kennedy Boulevard connects historic landmarks like the University of Tampa (Tampa Bay Hotel, c. 1891) and the new \$35 million Tampa General Hospital rehabilitation facility to Downtown Tampa and the Hillsborough River. The ongoing urban revitalization along this corridor has spurred the need for more walkable, multi-modal accommodations. B&N will focus on Complete Streets design to address safety, encourage multi-modal usage, and improve connectivity. Recognizing extensive drainage improvements will require the road to be reconstructed, B&N's collaborative relationship with both the City of Tampa and FDOT proved key in guiding the corridor improvements that help the City achieve its "Livable City" vision while addressing FDOT's infrastructure needs.

FDOT District 7 | Traffic Operations Design-Build Push Button Contract 3, Citrus, Hernando, Hillsborough, Pasco, and Pinellas Counties, FL. Project Manager and Engineer-of-Record for multiple minor design tasks including signal reconstruction, signing and pavement markings, and turn-lane modifications. Tasks are completed on accelerated schedules with scopes designed to solve specific safety or operational deficiencies.

FDOT District 7 | District Wide Safety Studies and Minor Design, Citrus, Hernando, Hillsborough, Pasco, and Pinellas Counties, FL. Project Engineer for this task work order driven contract that includes roadside safety measures, lighting justification, intersection improvements, ADA, traffic flow improvements, bike lanes, and sidewalk connectivity – all to reduce the potential for crashes, injuries and fatalities. Additional scope elements include preparing informational/educational materials to provide safety training, providing Roadway Safety Audit (RSA) support, as well as providing Community Traffic Safety Team (CTST)/Local Agency support to assist with identifying municipal Local Agency Program (LAP) projects. In addition, the contract includes a number of independent "study types" encompassing a wide variety of traffic operational tasks including: intersection and signal warrant analyses, vehicle/pedestrian/bicycle traffic counts, corridor safety studies, crash analyses and reports, safety outreach and education, training, safety funding concept development, and minor design.

BURGESS & NIPLE**Angelo Belluccia**

PE

**Principal-in-Charge & QA/QC
Manager****Total Years of Experience:** 36**Years with Current Firm:** 24**Education:**BS, Civil Engineering, 1987, University of South
Florida**Registrations:**

Professional Engineer-FL, 1993, #46548

BACKGROUND

Mr. Belluccia has more than 36 years of experience in the areas of transportation planning and engineering services including traffic design and operational analysis, transportation systems planning, master planning, regional impact analyses, land use planning, project development, safety and context-based applications, corridor studies, and highway design. His project experience spans a broad range of facilities including roadways, land development, airports, rail, and seaports for the public and private sectors. Mr. Belluccia specializes in developing alternative transportation solutions to meet project goals. Throughout his career he has strategically planned and developed solutions for many complex transportation infrastructure and development projects in Florida.

RELEVANT EXPERIENCE**Hernando County | Osowaw Boulevard and Shoal Line
Boulevard Sidewalks, Shoulder and Utility Relocation
(LAP), Hernando County, FL.**

Principal and Client Manager responsible for providing sidewalks, shoulders and water main relocation construction plans for three Hernando County corridors. As an approved FDOT LAP project, the design was prepared to local standards and was approved following the FDOT LAP process.

**Hernando County | SR 50 (Cortez Boulevard) at
Nightwalker Road and Coastal Boulevard Intersection
Operational Studies and Design.**

Principal. This project entails the addition of turn lanes and modifications at one intersection within this corridor. This location shall be widened to accept EB dual left turn lanes from SR 50 to Coastal Boulevard and SB dual left turn lanes from Coastal Boulevard to SR 50 along with a SB through and a right. It is anticipated that roadway modification will be required from SR 50 north to the existing frontage road.

**Hernando County | Spring Hill Town Center, Hernando
County, FL.**

Represented Hernando County for the transportation impact review of the submitted Comprehensive Plan Amendment and Rezoning. The review focused on transportation methodology, analyses, policy development, and conditions of approval. The Spring Hill Town Center is a Planned Development District (PDD) Land Use Category on the Future Land Use Map which allows for a master planned infill community with compact development around a town center containing a compact mixture of residential, commercial, office, institutional and recreational land uses.

**Hillsborough County | Engineering Services,
Transportation Development and Design, Hillsborough
County, FL.**

Contract involves providing general/civil engineering services to support transportation capital improvements including but not limited to intersection improvements, new signals, traffic signal interconnection, road diets, complete streets, road widening, road resurfacing and reconstruction and bridge rehabilitation and replacement. Traffic Studies Analyst responsible for Preliminary Engineering Reports (PER) including Benefit Cost Analysis, Synchro analysis, traffic projections, queue length analysis, lighting evaluations, safety analysis and concept development. Efforts included:

- **BUILD Grant Application for I-75/Big Bend Road Interchange, Hillsborough County, Florida – FDOT District Seven.** USDOT grants

\$1.5 billion for projects that will have a significant local and regional impact. Hillsborough County is seeking \$25 million for the construction of I-75/Big Bend Road Interchange Improvements and Big Bend Road widening. The scope includes collecting data and characteristics of the project, conducting benefit-cost-analysis to identify, quantify and compare expected benefits and costs of the project, preparing a narrative to address the evaluation criteria in regard to safety, state of good repair, economic competitiveness, environmental protection, quality of life, innovation, partnership and project readiness.

- **Context Classification Systems.** Completed as three separate tasks, this project included data collection and existing plan review; updates to the typical sections and development of a preliminary context classification database will ultimately improve safety on the County's roads. The assignment included reviewing the preferred typical section for each context and road classification. This included developing appropriate target operating speeds and speed management strategies within the roadway footprint such as lane width, curb/tree separation from the roadway, and other key multi-modal components such as protected bike lanes. This information makes up the new context classification database.

Hillsborough County | Standardization of County Manuals and Specifications (Conducted under the General Engineering Consultant Services Contract), Hillsborough County, FL.

The general scope of this project was to review the different technical manuals and specifications of the Public Works Department (PWD) and the Public Utilities Department (PUD) and provide both guidance on migrating and assistance in creating the procedures, standards and specifications into an internally consistent and standardized format. A total of six technical documents were reviewed and formatted. B&N documented inconsistencies, redundancies, commonalities, and conflicts between each manual and recommended possible solutions for each. In addition, other improvements were suggested and a new preface was created for each document. The scope of services also included creating a uniform procedure for updating all PWD and PUD technical manuals. The procedure had to adhere to current governmental statues and was presented to the public at a public meeting.

FDOT District Seven | SR 693 (Pasadena Avenue) Corridor Study from Shore Drive South to 66th Street, Pinellas County, FL.

Principal/Quality Control Manager for this corridor study that includes conducting an analysis of the travel related problems, needs and issues, as well as developing solutions that support the community defined vision for the future. The scope includes identifying the cause and characteristics of issues relating to capacity, traffic operations, safety, access management, traffic signal timing, intersection lighting, freight movements,

commuter vs. local trips, transit operations, as well as bicycle and pedestrian movements. Both the current and forecasted future travel characteristics and needs will be identified and a Corridor Alternatives and Strategies Report will be prepared to identify a series of goals and objectives to improve the corridor. A road diet, a dedicated Bus Rapid Transit lane, and two roundabout locations are only a few specific improvements that will be analyzed. A range of solutions, both short-term and long-term, will be developed, all with extensive input from area stakeholders throughout the study.

City of Tampa | Busch Boulevard Pedestrian Safety Local Agency Program (LAP) Improvements from Armenia Avenue to Florida Avenue, Hillsborough County, FL.

Principal for a 1.5-mile sidewalk and safety project including improvements along Busch Boulevard from Armenia Avenue to Florida Avenue, sidewalks, ADA upgrades, signalization at North Boulevard, signing and pavement markings, and ITS CCTV cameras. The project was managed under a LAP agreement, funded by FDOT District Seven and managed by the City of Tampa.

FDOT District Seven | SR 618 (Selmon Expressway) Resurfacing, Hillsborough County, FL.

Principal responsible for coordination and Quality Control review of traffic plans and associated tasks. Project included providing signing and pavement markings for 1.72 miles of milling/resurfacing of this facility, from 50th Street to West End of Palm River Bridge. Elements of work included specifications, quantities and cost estimates.

Hillsborough County Public Works | SR 581 (Bruce B. Downs Blvd) Widening from Palm Springs Blvd to Pebble Creek Drive, Hillsborough County, FL.

Engineer of Record for the effort in which B&N provided traffic operations for the \$94 million widening design from Palm Springs Blvd to Pebble Creek Drive. Bruce B. Downs Boulevard is to be widened from four to eight-lanes. As a subconsultant on this Hillsborough County project, work consisted of traffic analysis and design/construction plans for lighting, signing and pavement marking, and signalization for eight signals including ITS/Interconnect plans.

Hillsborough County | Complete Streets Effort for SR 585 (21st/22nd Street) from SR 60 (E. Adamo Drive) to SR 600 (E. Hillsborough Avenue), Hillsborough County, FL.

Project included 3.030 miles of "Complete Streets" improvements including sidewalk widening, lane "diet" (three lanes reduced to two), landscaping improvements, drainage improvements, traffic signal reconstruction, decorative lighting, and signing and pavement marking updates on SR 585 (21st/22nd Street) in Ybor City. Project also included developing plans at 13 intersections along 21st Street and 22nd Street, as well as signal interconnect throughout the project limits.

BURGESS & NIPLE**Linda Wu**PhD, PE, RSP₁**Traffic Study and Investigation/
Traffic Studies Review/Grant
Writing****Total Years of Experience:** 11**Years with Current Firm:** 5**Education:**PhD, Civil Engineering, 2017, University of
Hawaii at ManoaMS, Highway Engineering, 2012, Tongji
University, ChinaBS, Civil Engineering, 2010, Nanjing University of
Aeronautics and Astronautics, China**Professional Organizations:**

American Society of Civil Engineers (ASCE)

Institute of Transportation Engineers (ITE)

Women's Transportation Seminar (WTS)

Registrations:

Professional Engineer-FL, 2022, #94385

Road Safety Professional, 2021, #695

BACKGROUND

Dr. Wu's professional experience includes nearly a decade of transportation and roadway engineering, analysis and studies. She is proficient in Synchro, ArcGIS, TransCAD, MySQL, MATLAB, MicroStation, and Microsoft Office. She recently obtained her *Road Safety Professional Level I* certification. Her responsibilities include assisting with traffic operations design and simulation, intersection operational analysis, design for roadway signing and pavement markings, signalization, data collection, as well as assisting with traffic impact, signal warrant and composite studies

RELEVANT EXPERIENCE**Hernando County | Continuing Traffic Engineering**

Services. Traffic Engineer for various intersection operational studies. Responsibilities include conducting intersection alternative evaluation and benefit cost analysis, signal warrant analysis, multi-way stop control warrant analysis and stop sign evaluation.

Hillsborough County | Traffic Engineering and Road

Safety. Project Engineer for this task work order driven contract that includes various safety and operational studies and minor design. Tasks performed include various public request traffic investigations, signal warrant studies, stop sign warrant studies, pedestrian & bicycle safety evaluations, school circulation studies, speed studies, concept and estimate developments, and minor safety and operational designs.

FDOT District 7 | District Wide Safety Studies and Minor Design, Citrus, Hernando, Hillsborough, Pasco, and Pinellas Counties, FL.

Traffic Studies Analyst for this task work order driven contract that includes roadside safety measures, lighting justification, intersection improvements, ADA, traffic flow improvements, bike lanes, and sidewalk connectivity – all to reduce the potential for crashes, injuries and fatalities. Additional scope elements include preparing informational/educational materials to provide safety training, providing Roadway Safety Audit (RSA) support, as well as providing Community Traffic Safety Team (CTST)/Local Agency support to assist with identifying municipal Local Agency Program (LAP) projects. In addition, the contract includes a number of independent "study types" encompassing a wide variety of traffic operational tasks including: intersection and signal warrant analyses, vehicle/pedestrian/bicycle traffic counts, corridor safety studies, crash analyses and reports, safety outreach and education, training, safety funding concept development, and minor design.

Hillsborough County | Hillsborough County Complete Streets Guidebook.

Project Manager responsible for leading and drafting the guidebook from start to finish.

Hillsborough County | Hillsborough County

Transportation Design Manual. Traffic Safety Specialist responsible for drafting the Safety Analysis Section, Traffic Calming Section and Context Classification Section.

Hillsborough County | Engineering Services, Transportation Development and Design,

Hillsborough County, FL. Contract involves providing general/civil engineering services to support transportation capital improvements including but not limited to intersection improvements, new signals, traffic signal interconnection, road diets, complete streets, road widening, road resurfacing and reconstruction and bridge rehabilitation and replacement. Traffic Studies Analyst responsible for Preliminary Engineering Reports (PER) including Benefit Cost Analysis, Synchro analysis, traffic projections, queue length analysis, lighting evaluations, safety analysis and concept development. Some of the tasks Dr. Wu has worked on include:

- **BUILD Grant Application for I-75/Big Bend Road Interchange.** USDOT grants \$1.5 billion for projects that will have a significant local and regional impact. Hillsborough County is seeking \$25 million for the construction of I-75/Big Bend Road Interchange Improvements and Big Bend Road widening. The scope includes collecting data and characteristics of the project, conducting benefit-cost-analysis to identify, quantify and compare expected benefits and costs of the project, preparing a narrative to address the evaluation criteria in regard to safety, state of good repair, economic competitiveness, environmental protection, quality of life, innovation, partnership and project readiness.
- **Anderson Rd from Linebaugh Ave. to Gunn Hwy.** Resurfacing Improvements outlined in this scope and the Final Preliminary Engineering Report (PER) recommendations for approximately 1.50 centerline miles.
- **Intersection Improvements at North Dale Mabry Highway at Northdale Boulevard and North Lakeview Drive South.** Project Designer responsible for providing minor signalization, lighting, and signing and pavement markings in support of future design for priority intersections identified for improvements in TTF studies/analyses performed by B&N. Intersections will be improved to increase the flow of traffic through intersections and reduce delay time by providing additional right-turn and left-turn lanes. In addition, intersections will be updated to current design standards and sidewalk and bike lanes will be added to improve flow of pedestrian traffic.
- **Corridor Preservation Plan.** Project Designer for the project, completed as three separate tasks: data collection and existing plan review; updates to the typical sections and development of a preliminary context classification database, will ultimately improve safety on the County's roads. The assignment included reviewing the preferred typical section for each context and road classification. This included developing appropriate target operating speeds and speed management strategies within the roadway

footprint such as lane width, curb/tree separation from the roadway, and other key multi-modal components such as protected bike lanes. This information makes up the new context classification database.

Hillsborough County | Engineering Services, South Coast Greenway Trail Phase 3, Hillsborough County, FL.

Project provides a 12-foot multi-use trail facility between Symmes Road and Big Bend Road in southern Hillsborough County using a context and environmentally sensitive design. The work involves preparing engineering studies to address economic and engineering feasibility of alternative concept trail design, geometrics (inclusive of critical vertical locations), soils, and structures to accommodate an acceptable level of service. After a thorough public involvement and inter-agency coordination process, final trail design was completed.

Pasco County | Golden Acres Traffic Calming Study, Pasco County, FL.

Traffic Studies Analyst for this task order to conduct a traffic calming study in the residential area of Golden Acres. Residents of the Golden Acres residential neighborhood requested traffic calming measures to slow traffic and deter cut-through driving. Beginning in mid- 2017, Pasco County met with residents, conducted traffic counts, performed increased enforcement, and held a vote to determine if traffic calming measures should be installed. The County retained B&N to conduct a comprehensive traffic calming study of the entire neighborhood. B&N performed speed and volume counts, field inventory, crash analyses, traffic calming research and cost estimates, held public meetings, and provided a summary of both existing conditions and recommendations.

Pinellas County | Gulf Boulevard Pedestrian/Bicycle Safety Study – Pinellas County, FL.

Traffic Studies Analyst for a 5.5-mile corridor safety study involving pedestrian/bike data collection, field reviews, safety analysis, and cross walk evaluation to determine safe crossing locations for pedestrians and recommendations for improved bicycles facilities throughout the corridor. Also included presentations to the Pinellas bicycle pedestrian advisory committee and other local government city commissions.

FDOT District 7 | SR 580/Hillsborough Avenue from Memorial Hwy./Sheldon Rd. to Himes Ave., Hillsborough County, FL.

Traffic Studies Analyst for this safety improvement project which improve median access by lengthening turn lanes, closing median openings and converting some median openings to directional and bi-directional configurations for safety purposes at 17 locations within the project limits. Improvements are based on the "Final Report for the SR580 (Hillsborough Avenue) from Sheldon Road to Himes Avenue Access Safety Study"* dated July 2016.

BURGESS & NIPLE**John Dee**

PE
**Traffic Study and Investigation/
 Traffic and Roadway Design/Design
 Plans Review**

Total Years of Experience: 26

Years with Current Firm: 6

Education:

BS, Civil Engineering, 1996, University of Florida

Registrations:

Professional Engineer-FL, 2003, #60053

BACKGROUND

Mr. Dee has over 24 years of highway design experience on a wide variety of transportation projects including arterial resurfacing, intersection improvement, Complete Streets, and multi-use trail projects. He has extensive knowledge and experience in preparing FDOT specifications packages and certified in Advanced Work Zone Traffic Control. He is proficient in the use of MicroStation and GEOPAK and has served as an in-house resource for FDOT District 5 Design.

RELEVANT EXPERIENCE**Hernando County | Ayers Road at Culbreath Road**

Roundabout Evaluation. As part of B&N's Continuing Traffic Engineering Studies contract, as Project Engineer, Mr. Dee led the concept design for this task that originated from a Signal Warrant Analysis performed by B&N at the study intersection which concluded that the intersection met warrants for signalization. B&N was then tasked with evaluating whether a traffic signal or roundabout was the best option based on vehicular delay, safety, and right of way and other impacts. Conceptual designs were developed for both options showing project footprints and impacts. Synchro and Sidra models were also developed to evaluate traffic operations and predicted crashes were estimated based on Highway Safety Manual methodologies. Finally, based on benefit to cost analyses the roundabout option was recommended.

Polk County | CR 547, Orchid Drive/Holly Hill Road

Intersection Improvements. Project manager responsible for this intersection capacity improvement project as part of a Polk County-wide Professional Services Contract. Under B&N's Continuing Professional Services Contract with Polk County, B&N was tasked with performing an intersection capacity improvement project at CR 547 and Orchid Drive/Holly Hill Road in Davenport, Florida. Prior to design commencement, an Intersection Analysis Summary report was prepared which compared a two-lane modern roundabout with a traditional mast arm signal installation. Following the preparation of the report, final design elements included signalization, auxiliary lane and shoulder widening, driveway construction, drainage improvements, maintenance of traffic, and significant utility coordination in this rapidly growing location. Once design was complete, Polk County's project manager graded the B&N Team on schedule, management, quality, and subconsultants. The B&N team received an overall 4.4/5 on the project design, exceeding expectations in all areas of evaluation with a distinguished performance.

Lake County | CR 452, CR 44 to the Marion County

Line, FL. Project Manager responsible for this safety project. The primary goal of this 9.3-mile safety project in unincorporated Lake County was to mitigate lane-departure related crashes. The two-lane winding corridor was widened with paved shoulders including raised thermoplastic striping and Safety Edges. The Local Agency Program (LAP) funded project included improvements to signalization, lighting, and intersection widening at CR 44. Other construction activities include MOT, excavation/embankment, driveway improvements, signing and pavement markings, and drainage improvements. The intersection improvement of CR 452 and CR 44 includes traffic signal

reconstruction from a diagonal span system to a box span signalized intersection. This includes pull and splice boxes, conduit, electric power service, traffic controller assembly, signal priority and pre-emption system, vehicle detection system, internally illuminated sign and luminaire bracket arms. Gopher tortoise burrows were relocated at four locations.

Lake County | CR 565 (Villa City Road), SR 50 (Broad St) to US 27, Lake County, FL. Project Manager responsible for this lane departure safety project. The 7.1-mile two-lane winding roadway includes widening to 12-foot lanes with 8-foot shoulders (4-foot paved) including safety edge and thermoplastic striping. Additional improvements include flashing beacons, pavement markings, guardrail, and drainage modifications.

FDOT District 2 | SR 202 (J Turner Butler Boulevard) at San Pablo Road, Duval County, FL. Roadway EOR and Deputy Project Manager. This project will convert the existing diamond interchange into a DDI to help ease congestion, improve safety and accommodate future development in Jacksonville, Florida. Bike and pedestrian accommodations will be included with the interchange conversion. Traffic control analysis and design considerations were made to operate the interchange as a DDI during construction to improve efficiency quickly and minimize construction impacts. The proposed work included a Weave Assisted Signal Plan (WASP) signal on the WB ramp to address the weave created by a proposed Mayo Clinic driveway on the ramp. (439467-1)

FDOT District 2 | SR 211 from San Juan Avenue to I-95. Project Manager responsible for the design and management. This resurface, restore and rehabilitate (3R) project is to mill and resurface SR 211 from San Juan Avenue to I-95. This project includes intersection ADA improvements, drainage improvements, signalization, signing and pavement markings, lighting, utility coordination, and maintenance of traffic. (445431-1)

FDOT District 2 | SR 115 (Arlington Expressway) Resurfacing, Duval County, FL. QC Reviewer. The project includes the design and preparation of construction plans and related documents for the resurfacing of 3.5 miles of SR 115 mainline and north and south service roads. The scope of services includes drainage pipe video inspection and associated repairs to address noted deficiencies, bridge repairs to two existing service road structures, minor signalization and lighting improvements and the removal of one eastbound exit ramp to University Boulevard. Project activities have also included coordination with JTA, maintenance of traffic plans and signing and pavement marking plans.

FDOT District 2 | Old Town, Dixie County, FL. Project manager responsible for design of a 1.2-mile multi-

use trail FDOT LAP project in Old Town, Florida. The project, included providing a continuous 10' multi-use trail from Old Town Elementary, past the Dixie County Historical Society building, to the existing Nature Coast trail.

FDOT District 2 | Town of Lacrosse, Alachua County, FL. As Project Manager, Mr. Dee was responsible for 0.33 miles of 5- to 6-foot sidewalk along both the east and west sides of SR 121, an urban two-lane facility marking LaCrosse, Florida. Two public meetings were held, where Mr. Dee served as representative for FDOT District 2. Positive feedback was continually received from the public due to our close coordination. Single-post and guide signs were added throughout the project. Sixty 100-watt LED pedestrian decorative light poles with banner arms were included to support the Town's ambiance. A Town welcome sign and Town hall sign were also designed. Close coordination with the Town of LaCrosse and Alachua County regarding their lighting preferences and their preferred design for the Town signs was crucial to the success of this project. We also coordinated directly with the Town's Mayor for the overall design. We worked closely with District 2 in-house design staff since they were designing an adjacent 6-mile resurfacing project.

FDOT District 2 | SR 26 (Newberry Rd) fr NW 75th St. to NW 69th Terrace, Duval County, FL. Deputy Project Manager and Roadway EOR. This safety improvements project at the SR 26, I-75 interchange includes the design and preparation of construction plans and related documents for various turn-lane, ramp, and signalization upgrades to improve operations and safety of a 0.3-mile segment of SR 26 at the interchange. Scope of services includes adding additional turn lanes, pier protection of I-75 bridge piers, new traffic signal mast arms, interchange ramp widening and drainage and pond design to facilitate an additional through lane on NW 69th Terrace. Project activities also include coordination with Alachua County, MOT plans and signing and pavement marking plans.

FDOT District 2 | Town of Hawthorne, Alachua County, FL. Project Manager responsible for design of an FDOT LAP project through town streets of Hawthorne, Florida. The project included a total distance of 0.70 miles. The intent of the project was to service bicycle traffic from the 7-mile Gainesville/Hawthorne Trail into Hawthorne and connect cyclists to the Town's park. A secondary goal was to calm truck traffic with a design that met the Town's character. The design included milling, resurfacing, minor widening, and sharrow markings. SE 221st Street also included a new serpentine alignment, placed with pavement markings, which allowed for parallel and angled parking spaces. The meandering design helped to promote slower vehicular speeds, specifically for truck traffic.

BURGESS & NIPLE**A. Mark Atkininstall**

PE

Utility Infrastructure Engineer**Total Years of Experience:** 18**Years with Current Firm:** <1**Education:**

MSCE, Civil Engineering, New Jersey Institute of Technology, 2014

BSCE, Civil Engineering, Embry-Riddle Aeronautical University, 2005

Affiliations:

American Society of Civil Engineers (ASCE)

American Water Works Association (AWWA)

Greater Tampa Utility Group (GTUG), Past Chairman

District VII Utilities Liaison Committee, Past Chairman

Florida Utilities Coordinating Committee (FUCC), Secretary

Specialized Training:

Manhole Assessment and Certification Program (MACP)

Pipeline Assessment and Certification Program (PACP)

Lateral Assessment and Certification Program (LACP)

Utility Risk Mitigation for Infrastructure Projects

Registrations:

Professional Engineer-FL #84609, 2018

Professional Engineer-DC #906504, 2011 (inactive)

BACKGROUND

Mr. Atkininstall has 18 years of multi-state experience in project management for Civil Engineering projects including water/wastewater facility design, urban revitalization projects including low-impact development and utility coordination. Mark has worked on several highway design and drainage-related projects across multiple DOT jurisdictions. His relevant experience includes several projects for the Florida Department of Transportation (FDOT), the City of Tampa, and Hillsborough County, along with performing utility coordination (UC) for several major Design-Build projects.

RELEVANT EXPERIENCE**Hernando County | SR 50 (Cortez Boulevard) at Highline Drive/Evergreen Woods Trail Intersection Improvements, Hernando County, FL.**

Utility Relocation Design EOR. This project involved signalization of the subject intersection, addition of right-turn lanes, intersection lighting, drainage improvements, and the relocation of an 8-inch PVC force main. Mr. Atkininstall also performed constructability reviews and aided with utility conflict mitigation strategies.

Hillsborough County | General Civil Engineering On-Call Services, FL.

Senior Utility Coordinator. This contract involves providing as-needed general engineering services to support transportation capital improvement projects including intersection improvements, new signals, traffic signal interconnection, road diets, complete streets, road widening, road resurfacing and reconstruction, and bridge rehabilitation and replacement.

- **Miller Road from Lumsden Road to Railroad Track, FL.** Senior Utility Coordinator
- **Lutz Lake Fern Road from Gunn Highway to Cypress Bridge Drive.** Senior Utility Coordinator
- **24th Street SE from 0.26 miles south of Park Entrance to E College Avenue, FL.** Senior Utility Coordinator
- **East/West Columbus Drive from Dale Mabry Hwy to N 13th Street, FL.** Senior Utility Coordinator
- **Waters Avenue at Florida Mining Boulevard Signal and Intersection Improvements, FL** Senior Utility Coordinator and Utility Relocation Design EOR. This intersection design will implement a traffic signal and pedestrian facilities at the intersection of Waters Avenue and Florida Mining Boulevard, eliminate the full median opening at Thompson Center Waters corporate park to eliminate left-turn crashes and implement westbound dual left-turns at Anderson Road. The structures design for the signal equipment was completed as an advance effort to expediate the acquisition of the structures while the remainder of the design and utility coordination effort is underway. A section of the County's 4-inch force main was impacted by the proposed signal design. Mark was responsible for the design and permitting of the relocated segment.

Hillsborough County | Gibsonton Drive at Fern Hill Drive Intersection Improvements and Signalization (Temporary and New), FL.

Utility Coordinator and Utility Relocation Design EOR. This project involved signalization of an intersection along Gibsonton Drive east of I-75 to address an ongoing safety concern related to angle and left-turn crashes. The project included an interim "temporary signal" design to be implemented while the long-term solutions were evaluated and developed through a Preliminary Engineering Report. The improvements include

connectivity to new developments on the north leg of the intersection, consideration of long-term improvements by the Florida Department of Transportation within the limited access right of way, and significant widening and right of way impacts on the northbound approach to the intersection considering ongoing and upcoming development along Fern Hill Drive. Additionally, a custom design vehicle from Ring Power on Fern Hill Drive was utilized to design the intersection and ensure accessibility for this important area stakeholder. Utility relocation design will also be an important component of this project effort.

Hillsborough County | Waters Avenue at Florida Mining Boulevard Signal and Intersection Improvements, FL. Utility Coordinator and Utility Relocation Design EOR. This intersection design will implement a traffic signal and pedestrian facilities at the intersection of Waters Avenue and Florida Mining Boulevard, eliminate the full median opening at Thompson Center Waters corporate park to eliminate left-turn crashes and implement westbound dual left-turns at Anderson Road. The structures design for the signal equipment was completed as an advance effort to expediate the acquisition of the structures while the remainder of the design and utility coordination effort is underway. The initial effort included a traffic analysis report with preferred alternative recommendations and Synchro analysis of the various potential lane configurations on Florida Mining Boulevard with a preferred alternative recommendation which is now under design.

Hillsborough County | Bruce B. Downs Boulevard Corridor Enhancement, FL. Senior Utility Coordinator. This design includes the addition of a 10-foot-wide sidewalk along the east side of the project corridor from USF Pine Drive to E 131st Ave/USF Holly Drive as well as implementation of new, wider sidewalk along the west side of the project corridor. Additionally, the roadway is being milled and resurfaced with the lanes narrowed to provide physically buffered bike lanes utilizing a narrow traffic separator. In addition to speed management, these multimodal corridor enhancements will enhance safety for all users. To provide additional access to transit users and reduce angle and left-turn crashes, traffic signals are being implemented at the intersections of Campus Hill Drive and Richard Silver Way.

Hillsborough County | El Rancho Drive Mobility Improvements, FL. Utility Coordinator. This task involved providing a design package for an approximately 1.3-mile area of 2-lane residential roadway. The signing and pavement marking design designated areas for golf cart access to safely travel on the roadway. In addition, minor sidewalk improvements were also provided as part of the scope of services.

Hillsborough County | Gandy Boulevard from Dale Mabry Highway to Bay Shore Boulevard, FL. Utility Coordinator. This project involved the milling and

resurfacing of an approximately 1-mile area of 4-lane roadway. This project included providing sidewalk and business access improvements and signal retiming to promote operational and pedestrian safety along the high-traffic corridor.

Hillsborough County | N Pebble Beach Boulevard, Mobility Improvements, FL. Utility Coordinator. This task involved providing a design package for the milling and resurfacing of an approximately 1.7-mile area of 2-lane residential roadway. The signing and pavement marking design designated areas for golf cart access to safely travel on the roadway. In addition, minor sidewalk improvements were also provided as part of the scope of services.

Hillsborough County | Lithia Pinecrest Road at Adelaide Avenue / Lithia Ridge Boulevard Intersection Improvements and Signalization, FL. Utility Coordinator. This intersection design will implement traffic signals, pedestrian crosswalks and enhance the safety of an intersection along Lithia Pinecrest Road. Following a traffic analysis effort, a traffic signal was identified as the preferred alternative and the design team identified additional sidewalk connectivity opportunities to the Lithia Ridge neighborhood and worked with County staff and the neighborhood association to identify a preferred location for the sidewalk connection to be incorporated into the design.

Hillsborough County | Hanley Road Intersection Improvement and Signalization Reconstruction, FL. Senior Utility Coordinator and Utility Relocation Design EOR. This intersection design will reconstruct an existing traffic signal with mast arms, adjust crossing locations to maximize visibility of vulnerable roadway users, implement a southbound right-turn lane, and includes various multimodal safety improvements such as the use of flashing yellow arrows and retroreflective backplates. The project effort included traffic analysis to determine a preferred alternative, public meetings, right of way coordination and acquisition and final design. Right of way acquisition is currently ongoing with construction anticipated within the next calendar year. Utility relocation design was also an important component of this project effort.

Hillsborough County | Riverview Drive from S US Hwy 41 to 11227 Riverview Drive, Riverview, FL Utility Coordinator and Utility Relocation Design EOR. This project involves 4.8 miles of milling and resurfacing the existing two-lane, two-way roadway. Riverview Drive involves safety improvements aimed at reducing the number of crashes along the corridor, improving pedestrian safety with enhanced cross walks, added sidewalk connections, extending cross drains outside of the clear zone and eliminating/shielding roadside hazards from traffic. Utility relocation design will be prepared for three culvert crossings for impacted asbestos concrete water mains owned by Hillsborough County.

BURGESS & NIPLE**Carl Spurio**

PE, CPM

Drainage Engineer**Total Years of Experience:** 35**Years with Current Firm:** <1**Education:**

BS, Civil Engineering, 1987, University of South Florida

Registrations:

Professional Engineer-FL, 1994, #47649

Professional Organizations:

Board Member for the Florida Stormwater Association (FSA)

Member of American Water Resources Association (AWRA)

Friend of the AASHTO Technical Committee on Hydrology and Hydraulics (TCHH) and

Friend of TRB AKD 50 – Standing Committee on Hydrology, Hydraulics and Stormwater Certified Public Manager (CPM), September, 2018, from Florida State University.

Board of Directors for the Stormwater Management Academy at the University of Central Florida (2018-2020).

Awards:

Highway Engineering Award, FDOT, 2014, for advances in stormwater management solutions.

Prudential Productivity Award, 2017, For innovation, dedication and commitment to excellence. Award is sponsored by Prudential, Florida Tax Watch and the State of Florida.

Research Projects:

NCHRP Project 18-20 Engineer's Design Guidance for Cured in Place Pipe (CIPP) Liners.

NCHRP Project 24-50 Re-write of the AASHTO Drainage Design Manual.

BACKGROUND

Mr. Spurio's expertise in drainage and environmental permitting spans more than 35 years in the public and private sectors. Carl was responsible for developing Drainage Policy and Procedures for the Florida Department of Transportation (FDOT). He brings extensive design experience in integrated stormwater management and watershed planning, drainage conveyance, bridge hydraulics modelling, scour design, coastal protection, watershed and flood plain modelling, stormwater/environmental permitting and site-civil/transportation design. His wealth of knowledge allows us to provide our clients with a diverse range of services at the highest level of experience. Likewise, Carl has developed numerous industry relationships through national conferences, workshops, and committee membership.

RELEVANT EXPERIENCE**FDOT District 1 | SR 35 (US 98) Design-Build from North of Socrum Loop Rd. to South of CR 54, Polk County, FL.**

Quality Control Lead. The FDOT District One SR 35 (US 98) from North of Socrum Loop Road to South of CR 54-Polk County Design-Build Project will reconstruct the existing two-lane, two-way facility into a four-lane divided roadway with suburban and rural characteristics within the project limits. Project design has begun and will include the addition of multilane roundabouts at Big Cypress Boulevard and SR 471 as well as a signalized intersection at US 98 and Rock Ridge Road. This project will also include the construction of shared-use paths, wildlife crossings, U-turn loons, bridge culverts and multiple stormwater management facilities.

Collier County | Lake Trafford Road Regional Stormwater Treatment Facility and Roadway Safety Improvements, Immokalee, FL.

Project Manager/Lead Drainage Engineer. Leading all design and permitting efforts to develop a new regional stormwater treatment facility to manage runoff from 450-acres of residential and commercial area on the west side of Immokalee. Similarly, the project requires safety upgrades for pedestrians and motorists along Lake Trafford Road, which is a two-lane rural roadway. The purpose of this project is to improve the overall water quality of the stormwater runoff discharging to Lake Trafford, which is an impaired waterbody. Therefore, two separate stormwater ponds, including the new regional pond, will add new controls to enhance water quality and provide beneficial flood control within this portion of the Lake Trafford watershed. Additionally, the roadway typical section will be modified to remove the existing sidewalk adjacent to the edge of pavement and create a new designated pedestrian/bike pathway at the right-of-way limits to promote add safety to all user of this section of roadway. All permitting will be coordinated through Collier County, South Florida Water Management District (SFWMD) and the Army Corps of Engineers (USACE), as it pertains to the overall project design.

State Drainage Engineer for FDOT, Tallahassee, Florida.

Responsible for all drainage Policies and Procedures for State and Interstate roadways throughout Florida. Developed legislation for drainage and environmental permitting. Coordinated research projects to explore and identify design strategies and materials that are more efficient and cost effective for the State of Florida. Responsible for developing more thoughtful

and efficient strategies for stormwater management. This effort required a lot of stakeholder engagement with other State Agencies and Local Municipalities to identify the watershed issues related to water resources and environmental restoration and the potential for partnerships to manage these and other needs on a regional basis. As a result, a new process has been developed by FDOT, to ensure drainage designers identify and explore all possible regional opportunities, which potentially provide multiple solutions to “real” watershed concerns. Worked with the Central Office Construction staff to address policy and procedures for Design/Build projects and developed specific design considerations for these types of projects within the FDOT Drainage Manual. Additionally, a lot of coordination with the Florida Department of Environmental Protection (FDEP) and Water Management Districts (WMDs) was solicited to gain support for this watershed approach. Overall, the intent of this new approach was to ensure the watershed needs were evaluated prior to locating and designing costly offsite stormwater ponds on private property.

FDOT District 2 | SR A1A Trail in St. Johns County, Lake City, FL. Served as the lead drainage engineer for this Trail Project between Marineland and the Matanzas Inlet Bridge in St. Johns County, Florida. Assisted with the development of the Feasibility Study to evaluate the existing site conditions and design parameters required to construct a 12-ft. wide Multi-use Trail along this relocated portion of SR A1A. The entire project limits are within the tidal floodplain of the Atlantic Ocean and several sections of the roadway have been inundated by tropical storms along the east coast of Florida. Therefore, the Feasibility Study evaluated features related to roadway safety, environmental impacts and coastal resiliency and sustainability to support in the selection of the preferred alignment for the pedestrian facility. Other influences include the Coastal Construction Control Line (CCCL), critical species habitat and essential utility services throughout the limits of the project. Ultimately, a majority of the Trail was located along the west side of SR A1A to minimize the environmental impacts identified along the eastern side of SR A1A. This alignment would also lessen the risk of damage from extreme tropics storms that have damaged the dune systems that have been constructed to protect SR A1A.

FDOT District 7 | District 7 Bridge Scour Maintenance Contract | Tampa, Florida. Project Manager. Served as Project Manager to both coordinate and perform Bridge Scour Evaluations for all bridges over water within the five (5) Counties included as part of District 7. This work included inter-disciplinary teams consisting of Geologists, Bridge Engineers, Maintenance Staff, Bridge Inspectors, Drainage Engineers and others to thoroughly assess and evaluate the structures ability to withstand channel bed scouring. This work included site assessments, bridge hydraulic modeling, along with structural and geotechnical analysis to

better understand the scour vulnerability of existing waterway bridges. Additionally, scour counter-measure designs were developed to armor existing channel beds and minimize the potential for bridge damage and possible structural fatigue as related to scour. All work was performed in accordance with the Federal Highway Administration’s rating system as part of the National Bridge Inventory Program.

Central Office, 2018 - While serving as the State Drainage Engineer at FDOT in Tallahassee, Mr. Spirio provided guidance and advisory services to FDOT’s Legal Consul for a Design/Build roadway project to reconstruct the I-75 and Florida Turnpike interchange in Wildwood, Florida. During construction, the Contractor was finalizing the environmental permit through the Southwest Florida Water Management District (SWFWMD), in order to obtain the necessary permits for construction. Consequently, SWFWMD recently completed a partial study for the downstream watershed that suggested the floodplain elevations were as much as four (4)-feet higher than the FEMA defined floodplain elevations for Lake Panasoffkee. Therefore, the Legal Office requested support to review SWFWMD’s claims and provide guidance on how FDOT should respond to this request, which would require additional design time and potentially result in construction delays. Ultimately, Mr. Spirio provided a significant amount of guidance in support of the negotiations to resolve this matter with SWFWMD and prevent two (2) State Agencies from going to court against each other.

Central Office, 2019 - While serving as the State Drainage Engineer at FDOT in Tallahassee, I assisted in a lawsuit against the FDOT related to offsite flooding to a Church camp. The Church’s suit was claiming that the FDOT (District 2) design did not properly account for the conditions within a lake on their property that served as the outfall from the S.R. 20 widening project near Hawthorne, Florida. The Church hired an independent Engineer to serve as their expert in the lawsuit. Therefore, my role was to review the permitted drainage design and address the concerns expressed by the Church’s Engineer. Similarly, I worked with the FDOT staff to inform them of my findings and presented my thoughts on how the FDOT Legal team should proceed in this matter. I did not have to provide a Deposition, but I was prepared to serve as the FDOT Expert Witness and defend the design that was permitted through St. Johns River Water Management District (SJRWMD). Ultimately, the Church rescinded their lawsuit based on the work I assisted with in preparation for trial and instead, FDOT made a few minor modifications to the original design based on my recommendations to our Legal Consul’s Office.

BURGESS & NIPLÉ**Drew Appler**

PE

Structures Engineer**Total Years of Experience:** 15**Years with Current Firm:** 3**Education:**

BS, Civil Engineering, 2008, University of South Florida

Affiliations:

American Society of Civil Engineers

American Concrete Institute

American Institute of Steel Construction

Registrations:

Professional Engineer-FL, 2013, #76076

Professional Engineer-TX, 2018, #130761

Professional Engineer-NC, 2021, #052917

Professional Engineer-AR, 2022, #21005

Professional Engineer-LA, 2023, #0047675

Professional Engineer-OK, 2022, #33183

Professional Engineer-MT, 2023, #87702

Professional Engineer-MS, 2023, #34035

BACKGROUND

With more than 15 years of experience, Mr. Appler is an expert in the areas of structural engineering, bridge inspection, bridge rehabilitation and load ratings. Mr. Appler provides inspection services for various types of bridges and other structures on Florida Department of Transportation (FDOT) contracts. He has experience with American Association of State Highway and Transportation Officials (AASHTO) and FDOT design standards and manuals, as well as Federal Highway Administration (FHWA) and FDOT structures inspection manuals.

RELEVANT EXPERIENCE**Hillsborough County | Engineering Services, Transportation Development and Design, Hillsborough County, FL.**

Contract involves providing general/civil engineering services to support transportation capital improvements including but not limited to intersection improvements, new signals, traffic signal interconnection, road diets, complete streets, road widening, road resurfacing and reconstruction and bridge rehabilitation and replacement. As the Structural Engineer, Mr. Appler was responsible for providing structural design and exiting structural analysis.

- **Hillsborough School Zone Crossings** - Preliminary design and engineering and final plans for 15 school zone crossings including multiple signal designs and custom spread footer designs.

Hillsborough County, Florida | Bridge Rehabilitation and Guardrail Repair Improvements.

As Project Manager, Mr. Appler was responsible for initial scoping and project coordination between all sub consultants for this GEC style project. Projects included; Bridge Assessment reports, Bridge Feasibility studies, structural inspections of non-qualifying structures and scour countermeasure designs.

FDOT District 7 | SR 585 (21st/22nd Street) “Complete Streets” from SR 60 (East Adamo Drive) to SR 600 (East Hillsborough Avenue), Hillsborough County, FL.

Miscellaneous Structures EOR. Project included 3.030 miles of “Complete Streets” improvements including sidewalk widening, lane “diet” (three lanes reduced to two), landscaping improvements, drainage improvements, traffic signal reconstruction, decorative lighting, and signing and pavement marking updates on SR 585 (21st/22nd Street) in Ybor City. Project also included developing plans at 13 intersections along 21st Street and 22nd Street, as well as signal interconnect throughout the project limits. Mr. Appler provided the miscellaneous structures support for the analysis and design of new traffic signal mast arms.

FDOT District 7 | District Wide Engineering Services, Structures Maintenance Office.

As Deputy Project Manager, Mr. Appler was responsible for project management including project evaluation, scoping and fee creation, coordination between all disciplines of the rehabilitation project including, local municipalities and public involvement. This project was a contract that included various repair and rehabilitation projects such as: steel and concrete cleaning and coating,

pile jacket and cathodic protection, scour countermeasures, spall and crack repairs, and movable bridge steel repairs and mechanical/electrical upgrades.

FDOT District 7 | BR 150606 Rehabilitation

Design. Mr. Appler was the Structures Project Manager and Engineer of Record, and was responsible for steel beam bridge repair. This project contained the repair and rehabilitation of Bridge No. 150606. Repairs included; Steel Beam Bearing repairs and coating of deteriorated steel beams.

FDOT District 5 | General Engineering Consulting (GEC) Services - Multiple Bridge Rehabilitation Design, Sumter County.

Mr. Appler was responsible for all aspects of this rehabilitation project, that included coordination with utilities, drainage, county PM and inspection staff. Project types included milling and resurfacing, construction inspection, drainage and permitting, structural design, safety assessments, guardrail design and inspection, Preliminary Engineering Studies (PES), bridge inspection, lighting, and storm water design.

FDOT District 7 | Waste Facility DMS Sign Design Design, Pinellas County.

Mr. Appler is responsible for initial scoping and project coordination between all entities of the project. The Pinellas County Waste Facility required a DMS sign to be installed to denote which lanes were opened and closed. Improvements include associated roadway and drainage improvements, and the installation of a DMS span sign structure.

FDOT District 1 | Bridge PCA Letter and Investigation Design, Cape Coral, FL.

Mr. Appler served as the Project Manager and Engineer of Record for the additional investigation of the City's inventory of transversely post-tensioned pre-stressed slab unit bridge. The City had received a number of Prompt Corrective Action letters from their qualifying structures stating that additional investigation and repairs were required. Sixty-five qualifying and non-qualifying structures were inspected and the City received a break down of their bridges that required additional repairs or investigation.

FDOT District 7 | Scour Counter Measure Design Pinellas County, FL.

Mr. Appler served as the Structural Engineer for this Project Development and Environment Study. Proposed improvements include widening the existing four-lane arterial, intersection improvements and consideration of a one-way pair system for a portion of the study limits. The study length is approximately 10 miles. The potential expansion of this US 41/SR 45 segment is part of a greater effort to expand US 41 in Hillsborough County to provide additional north-south capacity alternatives to Interstate I-75. U.S. Coast Guard (USCG) approval may be required for any proposed replacement of the Little Manatee River Bridge.

FDOT District 7 | District Wide Engineering Services, Structures Maintenance Office

As Deputy Project Manager, Mr. Appler was responsible for project management including project evaluation, scoping and fee creation, coordination between all disciplines of the rehabilitation project including, local municipalities and public involvement. This project was a contract that included various repair and rehabilitation projects such as: steel and concrete cleaning and coating, pile jacket and cathodic protection, scour countermeasures, spall and crack repairs, and movable bridge steel repairs and mechanical/electrical upgrades.

FDOT District 7 | Design Build I-275 from SR 60 (Memorial Highway) to the Hillsborough River.

As Post-Design Structural Project Manager, Mr. Appler's responsibilities included plans production and structure design, as well as managing structures post-design, field changes and shop drawing review.

FDOT District 7 | District Wide Bridge Repair Design.

Mr. Appler served as Assistant Project Engineer on this task work order contract. Mr. Appler's responsibilities included performing structural repair design and rehabilitation analysis, load rating of culverts, pre-stressed beams bridges, and post-tension segmental boxes. All elements were load rated on this contract. This rehabilitation contract has included bridges of varying sizes and complexity, from box culvert extensions to a three mile (4.9-kilometer) post-tensioned concrete beam bridge over Tampa Bay.

FDOT District 7 | I-4 Lee Roy Selmon Expressway Interchange.

Mr. Appler managed the quantities production and rebar table calculations, as well as plans coordination between multiple disciplines for the four elevated Florida Bulb-T ramps.

FDOT District 7 | US 41 (SR 45) from Hillsborough/Manatee County Line to 12th Street NE.

Mr. Appler served as the Structural Engineer for this Project Development and Environment Study. Proposed improvements include widening the existing four-lane arterial, intersection improvements and consideration of a one-way pair system for a portion of the study limits. The study length is approximately 10 miles. The potential expansion of this US 41/SR 45 segment is part of a greater effort to expand US 41 in Hillsborough County to provide additional north-south capacity alternatives to Interstate I-75. U.S. Coast Guard (USCG) approval may be required for any proposed replacement of the Little Manatee River Bridge.

BURGESS & NIPLE



Dan Gallagher

AICP

Land Use Planner

Total Years of Experience: 31

Years with Current Firm: 2.5

Education:

BA, Political Science, 1990, University of South Florida

MS, Urban and Regional Planning-Transportation Planning, 1992, Florida State University

Registrations:

American Institute of Certified Planners
#012854, 1997

Key Skills:

- Community Engagement that fosters consensus
- Walk and Talk Facilitation
- Coordination with Elected Officials, Task Forces and Stakeholders
- Community consensus building
- Land Use and Transportation Planning
- Grant Writing and Grant Administration

BACKGROUND

Mr. Gallagher has over 30 years of experience working for the City of Charlotte and the City of Orlando planning, implementing and advancing a wide array of transportation projects. Mr. Gallagher served as the Deputy Director for Charlotte DOT and the Transportation Planning Bureau Chief for the City of Orlando. He is passionate about advancing **complete street projects and shaping cities to foster economic development, transportation choices for all residents, transportation equity, and livable communities.**

RELEVANT EXPERIENCE

FDOT District 5, Safety Strategic Plan (2023)

Dan is the Project Manager for the Florida Department of Transportation District 5 Office of Safety's (OOS) Safety Strategic Plan (SSP). The SSP will advance safety and Target Zero efforts in District 5 by considering data in tandem with behavior, align internal and external partner efforts, and remove barriers to advancing safety. The project involves a focus on transportation disadvantaged populations, increasing empathy and equity for all transportation users and recognizing the diversity of communities within District 5. Dan is responsible for leading the project, interviewing and engaging a diverse array of stakeholders, fostering community conversations about transportation safety and advancing the project on budget and on schedule.

Cross Charlotte Trail | City of Charlotte

As the Charlotte Transportation Planning Manager, Dan led a team that planned, designed and implemented the approximately \$100M 30-mile bicycle and pedestrian trail. This project links Uptown Charlotte to over 100,000 jobs and over 120,000 residents within a quarter mile of the trail. The project required significant **community engagement and outreach** focused on connecting a wide array of **diverse neighborhoods** with **safe and equitable transportation options.**

West Boulevard Corridor Study | City of Charlotte

Dan led a team of engineers and planners to conduct **community engagement and community walking tours** to assess how the West Boulevard corridor could be improved to make it easier and safer for pedestrians and transit users to cross this busy 4-lane undivided roadway. The corridor is an NCDOT roadway and Charlotte worked with the state to implement 3 hybrid beacon signals and 2 additional signals to foster safer and more comfortable street crossings for all residents. This project is located in **a historically disadvantaged African American neighborhood** with high concentrations of **transit-dependent residents.**

Lithia Pinecrest Road PD&E (2023-2024) | Hillsborough County

Mr. Gallagher is currently serving as the Deputy Project Manager for this extensive 6.2 mile PD&E complete streets project in Hillsborough County. This \$3.3M PD&E is assessing existing and future conditions. The project is considering existing and future conditions as well as identifying existing and emerging nodes and redevelopment/infill opportunities for the future.

Northeast Corridor Infrastructure (NECI) Program (2018) | City of Charlotte

Transportation Planning Manager tasked with coordinating with project teams and consultant teams to develop a \$100M array of pedestrian, bicycle and street connection projects to facilitate travel to/from light rail transit stations. The collection of projects are currently under construction and will facilitate travel and economic development synergy close to the light rail stations.

Parkwood Avenue Road Diet and Protected Bikeways (2018) | City of Charlotte

Mr. Gallagher led a team of engineers and planners to assess a major road diet along Parkwood Avenue in Charlotte, NC. After careful study, analysis and community coordination, the City of Charlotte is now implementing a significant road diet along Parkwood Avenue to moderate travel speeds, provide protected bicycle lanes and improve non-motorized travel to and from the Cross Charlotte Trail and light rail station areas.

Matheson Avenue Bridge Complete Street (under construction) | City of Charlotte

Mr. Gallagher worked with the project team to design and advance a complete street transformation of the existing Matheson Avenue bridge to comfortably accommodate pedestrians and bicyclists with a buffered sidewalk and protected bikeway. The project is a key connection for the Cross Charlotte Trail.

Uptown CycleLink | City of Charlotte

Mr. Gallagher helped lead a team of consultants and staff to advance Charlotte's first protected bicycle lane through the heart of Uptown Charlotte. The Uptown CycleLink provides a protected bikeway linking the Cross Charlotte Trail through Uptown Charlotte to the Irwin Creek Greenway. This critical link connects Charlotte's largest job center (Uptown Charlotte) to an expansive greenway network, housing, transit and retail land uses.

Other Relevant Projects:

- City of Gainesville 13th Street Corridor PD&E
- FDOT D5 - Safety Central Newsletter
- FDOT D5 - Before/After safety studies
- 25+ Road Diets (Charlotte and Orlando)
- Uptown CycleLink (Charlotte)
- Transit projects including Light Rail, Streetcar, Commuter Rail and bus transit
- Transportation Action Plan (Charlotte)
- Urban Street Design Guidelines (Charlotte)
- Managing comprehensive plans and elements (Charlotte and Orlando)

South Boulevard and South Tryon Street Corridor Studies (2018) | City of Charlotte

When Charlotte opened the first leg of light rail, development soon followed along the light rail station areas. This development resulted in two major arterials that were no longer compatible with the transit-oriented development along those corridors. Mr. Gallagher helped lead a team to assess these corridors and identify a series of improved bicycle and pedestrian mid-block crossing signals that have now been implemented. The project required close collaboration with NCDOT, adjacent stakeholders and residents.

I-85 North Bridge (2018) | City of Charlotte

Mr. Gallagher served on The North Bridge planning team. The North Bridge over I-85 is in Charlotte's northeast corridor and will provide connectivity across I-85, linking residential, retail and educational uses in University City on the east side of the interstate to the employment center of the University Research Park on the west side. This signature bridge will foster automobile, pedestrian and bicycle travel between the University and the Research Park and connect directly to a light rail station. The project will enhance transportation and economic development opportunities around the University and the Research Park.

Jessica McRory, PE, LEED AP

SENIOR GEOTECHNICAL ENGINEER



Contact Information

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5012 W. Lemon Street
Tampa, Florida 33609

Licenses

Professional Engineer
Florida Registration No. 68440, 2008
LEED Accredited Professional

Experience

20 years total
14 years at AREHNA

Education

Master of Science, Civil Engineering,
Geotechnical Concentration
University of South Florida, 2004

Bachelor of Science, Civil Engineering
University of South Florida, 2003

Career Summary

Ms. McRory has managed the geotechnical aspects of testing, design and construction for over a thousand engineering projects over the last 20 years. Her involvement has included analysis and evaluation of soil conditions pertaining to new construction design, as well as ongoing construction projects. Project experience has ranged from task order contracts to large FDOT projects. Other responsibilities have included coordinating geotechnical field and laboratory testing, as well as construction materials testing services. Evaluations have included soil and groundwater conditions, determining soil bearing capacity and consolidation characteristics and analyzing the performance of various types of foundation systems. Ms. McRory has provided recommendations for shallow foundations, various ground improvement techniques and deep foundation systems including driven piles, drilled shafts and augercast piles.

Project Experience

Deltona Boulevard Sidewalks from Elgin Boulevard to SR 50 (Cortez Boulevard) Off-System (LAP), Hernando County, Florida AREHNA provides geotechnical engineering services on an as-needed basis for this project which consists of designing approximately 2,700 ft. of a five (5)-foot wide sidewalk on the west side of Deltona Boulevard (from Elgin Blvd. to SR50/Cortez Blvd.). Ms. McRory serves as the Geotechnical Engineer for this project.

Hernando County Engineering Services for Infrastructure Projects Water, Wastewater and Reclaimed Water, Hernando County, Florida AREHNA provides geotechnical engineering services for this contract consisting of water and wastewater infrastructure projects, pipeline and pumping stations, and water treatment plants. Ms. McRory serves as the Principal Engineer providing project oversight, field and laboratory coordination, design and site recommendation and geotechnical analysis.

Weeki Wachee Spring State Park – Seawall and Pond, Spring Hill, Hernando County, Florida The purpose of our geotechnical study was to obtain information on the general subsurface conditions for the proposed construction of a new seawall, two retention ponds, and four boardwalks and provide geotechnical parameters for use in design of an anchored sheet pile wall that would be acceptable to compensate for the shallow embedment depth.

Professional Services for Engineering Services, Transportation Development and Design, Hillsborough County, Florida Ms. McRory serves as the geotechnical Contract Manager and Task Manager on this Hillsborough County contract that supports multiple consultants for transportation improvement projects.

Subsurface Testing & Inspection Contract - Prime Contract, Hillsborough County, Florida AREHNA provided geotechnical engineering and construction oversight services under this continuing services contract. Projects have included multiple County sites for Hardened Maintenance Facilities and support of other County developments. Geotechnical explorations are performed to obtain information on the general subsurface conditions of the proposed structures, stormwater facilities and parking lots. Ms. McRory served as the Senior Geotechnical and Contract Manager.

City of Tampa Design Services – Continuing, Tampa, Florida AREHNA provides geotechnical engineering services on this task-order contract. Projects have included roadway and intersection improvements, drainage and stormwater improvements, milling and resurfacing. Ms. McRory serves as a Senior Geotechnical Engineer and Contract Manager for this task-order contract.

Pavement Engineering Contract, Hillsborough County, Florida AREHNA serves as the Prime Consultant for this professional services task order contract consisting of 14 major roadways throughout the county. Scope includes pavement engineering, subsurface investigation, full depth reclamation (FDR) sampling and mix design, pavement design, evaluation of existing bridge pilings, box culverts and seawalls and construction engineering and inspection (CE&I). Ms. McRory serves as the project manager for this contract.

SBE/WMBE/DBE ▪ ACOE/AASHTO/FDOT Certified Lab

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Jessica A. McRory, PE, LEED AP

District-Wide Materials & Testing CEI Support Continuing Services Contract, District One & Seven, Florida AREHNA serves as the Prime Consultant on this task-order contract. Ms. McRory ensures adequate available resources for the field exploration programs including soil borings, and pavement coring, as well as construction materials testing. Services included pavement data collection, design of structure foundations and soil surveys for intersection improvement, resurfacing, widening and bridge projects.

Miscellaneous Professional Services for Stormwater Management, Transportation & Bridge Improvement Services, St. Petersburg, Florida Ms. McRory served as the Project Manager for geotechnical engineering services on multiple transportation, bridge replacements and seawall rehab and replacement projects under this task order contract. Services included drilling and laboratory testing, engineering analysis and reporting. Ms. McRory was responsible for assisting with coordination and performing quality oversight for the project.

Professional Miscellaneous Geotechnical and Materials Testing Services, Hillsborough County, Florida Ms. McRory served as a Project Engineer and was responsible for the geotechnical and construction materials testing aspects of this continuing services contract. She performed geotechnical analysis and prepared recommendations for foundations, storm water improvements, pavements and site preparation, for a variety of projects from infrastructure improvements to new building facilities.

Continuing Professional Services for Pasco County Utilities (Public Infrastructure), Pasco County, Florida Ms. McRory supports this Capital Improvement Program (CIP) contract and other programs related to water, wastewater, reclaimed water, and solid waste systems for the Utilities department, Public Infrastructure Branch.

City of Tampa Downtown Road & Infrastructure Improvements, Tampa, Florida AREHNA provided geotechnical services for roadwork and infrastructure improvements to include new utilities' installation, tie-ins, new curbing and sidewalk restoration. Ms. McRory coordinated the geotechnical investigation, oversaw quality control, and provided recommendations.

Transportation and General Engineering Contract, Pinellas County, Florida AREHNA provided geotechnical engineering and construction oversight services under this continuing services contract. Projects have included multiple County sites for roadway improvement, public parks and trails, including pedestrian bridges. Projects have included support for bridge, roadway and drainage design. Ms. McRory serves as the Project Manager for geotechnical services under this contract.

City of Pinellas Park Geotechnical & Materials Testing, Pinellas Park, Florida AREHNA serves as the Prime Consultant on this task order is contract. Projects under this contract include water and waste water facilities, power plants, high voltage power lines, roadways, traffic signal poles, stormwater facilities and other City owned buildings and facilities. Ms. McRory serves as the Project Manager.

City of Tarpon Springs Geotechnical & Construction Materials Testing Services Contract, Tarpon Springs, Florida AREHNA serves as the Prime Consultant on this Professional Services Engineering task order contract and provides on an as-needed basis Geotechnical Engineering Services to include soil exploration, geotechnical exploration testing, roadway materials testing, foundations studies, construction materials sampling testing and reporting, pavement evaluation and reporting.

Access Management Safety Studies Continuing Contract, District Seven, Florida AREHNA serves as the geotechnical consultant on this access management contract. Project tasks are anticipated to include roadway and intersection design, engineering and studies, ITS and traffic signal improvements, analysis and evaluations, and pedestrian safety improvements. Ms. McRory serves as a Senior Geotechnical Engineer and Contract Manager for this task-order contract.

St. Petersburg Roadway Improvements, St. Petersburg Florida Ms. McRory's responsibilities included coordinating with the client to define the required scope and assisted with initial planning of this project. Scope: Boring program to provide soil parameters at each location for use in foundation design. A thorough Maintenance of Traffic package was prepared to safely divert traffic. Due to the urban setting and the presence of multiple underground and overhead utilities, utility coordination and permitting were extensive. The project consisted of roadway improvements along 1st and 2nd Street in St Petersburg, Florida, including the installation of new mast arms at 14 locations.

Utilities Continuing Professional Engineering Services, Pinellas County, Florida Ms. McRory serves as the Contract Manager and supports multiple consultant contracts on this task-order contract on an as-needed basis providing geotechnical engineering services. Projects include water supply and treatment; transmission, distribution and collection pipe networks; wastewater treatment facilities; utility relocations; wastewater pumping systems; hydraulic system network modeling.

City of Tampa Lower Peninsula Stormwater Improvements Project – Southeast Region Design-Build, Tampa, Florida This project consists of the utility construction and/or relocation of box culverts, pipes, interconnections through a stormwater pond and outfall to Hillsborough Bay. Ms. McRory's responsibilities include geotechnical scope development, cost estimation, boring layout and utility coordination, geotechnical analysis, and reporting.





Kirk M. Eastman, PE

SENIOR GEOTECHNICAL ENGINEER



Contact Information

813.944.3464
keastman@arehna.com

5012 W. Lemon Street
Tampa, Florida 33609

Licenses

Professional Engineer
Florida Registration No. 50733, 1996

Experience

30 years total
4.5 years at AREHNA

Education

Master of Science, Civil Engineering,
Structures & Foundations Engineering
University of Central Florida, 1992

Bachelor of Science, Aeronautical
Engineering
Embry-Riddle Aeronautical University,
1989

Career Summary

Mr. Eastman has 30 years of experience in the field of geotechnical engineering. He has managed multiple FDOT District Wide Contracts for Districts 1 and 7 over a 27-year period. He has also served as Project Manager for multiple major projects (Design-Build and Design-Bid-Build). His experience includes roadway, bridge, pond and retaining wall projects where he has performed shallow and deep foundation analyses including driven piles, settlement and slope stability analyses. He has also worked on vibration monitoring projects and performed numerous ground subsidence studies.

Project Experience

I-75 (SR 93) from Pasco/Hernando/County Line to South of US98, Hernando County, Florida The project consisted of widening 5 miles of I-75 from a 4-lane to 6-lane facility. The project also included miscellaneous structures consisting of box culverts, box culvert extensions and jack and bore drainage structures. Mr. Eastman served as the Senior Geotechnical Engineer on the project and was responsible for the geotechnical exploration program, supervising the geotechnical testing program, soil classifications, settlement and bearing capacity analyses, providing geotechnical engineering recommendations and report preparation.

Engineering Services for Infrastructure Projects Water, Wastewater and Reclaimed Water, Hernando County, Florida AREHNA supports this contract on an as-needed basis which consist of the design for new and renovated water and wastewater infrastructure, pipeline and sewage pumping stations, forcemain, water treatment plants and related structures.

Access Management Safety Studies Continuing Contract, District Seven, Florida AREHNA serves as the geotechnical consultant for this task workorder contract on an as-needed basis. Project tasks include roadway and intersection design, engineering, and studies, ITS and traffic signal improvements, analysis and evaluations, and pedestrian safety improvements. Mr. Eastman serves as a Senior Geotechnical Engineer on this contract.

Miscellaneous Improvements - Traffic Ops Design Studies Continuing Contract, District Seven, Florida AREHNA provides geotechnical engineering services for this task-order contract which include studies, design and preparation of roadway construction on State Highways, County Roads and City Streets within the five counties of District Seven. Mr. Eastman responsibilities include project oversight, quality control and analyses and recommendations.

Waterfront District, Channelside Complete Streets Design, Tampa, Florida AREHNA provided Geotechnical Engineering support to Stantec for the downtown Tampa Infrastructure Improvements. Services included utility coordination, borings layout, drilling

and soil testing at various intersections in the Waterfront District Channelside area. Mr. Eastman served as the Geotechnical Engineer responsible for project oversight, quality control, coordination for the geotechnical services for field exploration, pavement cores, roadway soil survey, laboratory testing and geotechnical analysis.

Transportation Engineering Technical Review and Manuals Update Services, Hillsborough County, Florida AREHNA provides professional engineering services for review of transportation engineering technical documents related to any analyses, studies, and/or projects that support the development of the Hillsborough County infrastructure. Mr. Eastman serves as a Senior Geotechnical Engineer on this contract.

District-Wide Geotechnical and Materials Testing, Districts One and Seven, Florida Scope of work has included pavement coring and geotechnical support of in-house design projects. Mr. Eastman was responsible for geotechnical exploration and laboratory testing, soil classifications, geotechnical engineering recommendations and report preparation.

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Kirk M. Eastman, P.E.

Subsurface Testing & Inspection Contract, Hillsborough County, Florida AREHNA provides geotechnical engineering and materials testing services on this continuing services contract. Mr. Eastman serves as the Senior Geotechnical Engineer providing project oversight, geotechnical engineering recommendation and report preparation, as well as QA reviews for the contract.

Miscellaneous Professional Services for Stormwater Management, Transportation & Bridge Improvement Services (CIP), Pinellas County, Florida AREHNA has performed geotechnical engineering services on multiple transportation and bridge replacement projects under this task order contract. Mr. Eastman served as the Senior Geotechnical Engineer responsible for drilling and laboratory testing, engineering analysis and reporting. Projects include Philippe Park Pedestrian Bridge Replacement, 62nd Avenue Intersection Improvements, and 42nd Avenue Sidewalk and Drainage and Sand Key Park Pavement Improvements.

City of St. Petersburg Geotechnical Engineering Contract, St. Petersburg, Florida The work included a variety of transportation and utility replacement projects. Mr. Eastman coordinated and oversaw field, drilling and laboratory testing programs and performed engineering analysis and reporting.

El Prado Complete Streets & Sidewalk Design, Tampa, Florida AREHNA supports this project on an as-needed basis providing geotechnical engineering services on this design project consisting of roadway improvements to accommodate bicycle lanes, 5-foot sidewalk to enhance safety, and create a multi-modal facility. Mr. Eastman's responsibilities include project oversight, quality control, coordination for the field exploration, pavement cores, roadway soil survey, laboratory testing and geotechnical analysis.

THEA Design Build Safety Improvements, Hillsborough County, Florida The project consisted of safety improvements to add wider inside paved shoulders to provide refuge for disabled vehicles and a corridor for emergency vehicles. Mr. Eastman served as the Project Engineer responsible for project oversight, quality control, coordination for the geotechnical services which include field exploration, pavement cores, roadway soil survey, laboratory testing and geotechnical analysis.

Florida's Turnpike Enterprise, SR589/SR54 Operational Ramp Improvements, Pasco County, District Seven, Florida Mr. Eastman served as Geotechnical EOR for this ramp improvement project that included support elements for additional lanes, drainage, new mast arms, CCTV and overhead signage.

I-275 Design Build from SR60 to Himes Avenue, Hillsborough County, Florida The project consisted of improvements to the I-275 corridor including 10 bridges, ramps, underpass structures and associated retaining wall structures. Mr. Eastman served as the Senior Geotechnical Engineer on the project and was responsible for the geotechnical exploration program, supervising the geotechnical testing program, soil classifications, settlement, axial pile capacity and slope stability analyses, providing geotechnical engineering recommendations and report preparation.

I-4/Lee Roy Selmon Expressway Interchange North of 7th Avenue, Hillsborough County, Florida The project consisted of constructing a connector between I-4 and the Lee Roy Selmon Expressway and included six bridge structures, MSE walls, ponds and 3,800 feet of roadway. As the Senior Geotechnical Engineer managing the project, Mr. Eastman was responsible for coordinating the subsurface exploration program including SPT soil borings, hand auger borings, muck probing, field permeability tests, reviewing soil samples, assigning laboratory tests, reviewing test results, providing geotechnical engineering recommendations and preparing all geotechnical reports.

City of St. Petersburg Miscellaneous Professional Services for Stormwater Management, Transportation & Bridge Improvement Services, St. Petersburg, Florida Mr. Eastman serves as the Senior Geotechnical Engineer for geotechnical engineering services on multiple transportation and bridge replacement projects under this task order contract. Services included drilling and laboratory testing, engineering analysis and reporting.

Capital Improvement Program - Bridge Replacement Projects, Hillsborough County, Florida The project consists of the replacement of the existing bridge with three 11 feet by 4 feet box culverts. The new bridge structure will include two eleven-foot wide travel lanes with 1.3 foot wide shoulders, sidewalks protected by concrete barrier walls, and two lane undivided rural section with 7-foot wide shoulders. Mr. Eastman provided geotechnical engineering services, recommendations and report preparations.

Roadways, Drainage, Structural, Civil and Traffic Engineering Capital Improvement Program (CIP), Pinellas County, Florida This project consists of improvements and replacement of the existing bridge over Booker Creek in St. Petersburg, and associated roadway improvements. Mr. Eastman serves as the Senior Geotechnical Engineer responsible for project oversight, quality control and providing analyses and recommendations for bridge foundations and roadway construction.

Miscellaneous Improvements - Traffic Ops Design Studies Continuing Contract, District Seven, Florida AREHNA provides geotechnical engineering services for this task-order contract which include studies, design and preparation of roadway construction on State Highways, County Roads and City Streets within the five counties of District Seven. Mr. Eastman responsibilities include project oversight, quality control and analyses and recommendations.





Nicholas Fewell, CST

Deputy Project Manager | Subsurface Utility Lead

Mr. Fewell has over 8 years of field and management experience. He is one of CED's lead SUE managers, responsible for leading designating and locating crews to successful completion of assignments. His responsibilities include assisting project managers, serving as client liaison, communicating with utility owners, contacting state "One-Call" systems, and ensuring compliance with all CED safety and subsurface utility engineering operations.

As a subsurface utility engineering investigator, Mr. Fewell has worked on various project assignments for numerous departments of transportation and other clients such as FDOT, GDOT, LaDOTD, TxDOT, DUKE Energy, Mosaic, Florida Power & Light, TECO Electric, TECO Peoples Gas, Kinder Morgan, Florida Gas Transmission, various state and local governments/municipalities, various contractors, DOD, and Marine and Airport Authorities.

Education

Geomatics Certificate,
University of Florida, in
progress

BA, University of South
Florida, 2021

AA, Hillsborough Community
College, 2011

Professional Certifications

CCS

OSHA 10 Hr Certification

PowerSafe (Duke Energy)

IMOT

First Aid/CPR

Key Projects

Evergreen & SR 50 Casings, *Hernando County, FL*

CED provided QL-A and QL-B services in support of roadway design. CED was tasked with locating the ends of casings for a water main, force main and gravity sewer. CED utilized QL-D through QL-A services to successfully locate the end of the casings to verify that their lengths were sufficient for roadway expansion along SR 50 in Hernando County.

Grace World Church Addition, *Brooksville, FL*

Provided QLA & QLB services associated with expansion of development on the Church campus on an approximately 13.3 acre property. The development consists of an approximate 5,200 SF two-story building addition and an approximate 8,500 SF gathering building area.

Confidential Energy Client Master Services Survey Contract, *Various Counties, FL*

CED has successfully located gas pipelines, in multiple locations, that TECO locators determined were unlocatable. CED used survey-grade data to update TECO People's Gas GIS system for multiple projects to enable future accurate locates. CED used as-built records, historical aeriels, utility designation, test holes and air lance probing to locate undetectable high priority gas mains. CED was also able to repair the tracer wire in some instances to allow ease for future locates.

District Wide SUE Designate, Locate and Coordination, *FDOT District 1, Districtwide, FL*

Manage task work orders to provide Quality Level A and B subsurface utility investigations. Quality Level A involves the use of the use of nondestructive digging equipment at critical points to determine the precise horizontal and vertical position of underground utilities, as well as the type, size, condition, material, and other characteristics. Quality Level B involves the use of surface geophysical techniques to determine the existence and horizontal position of underground utilities.

Reclaimed Water Transmission Main Design, *Braden River, FL*

Provided designating (CI/ASCE 38-02 Quality Level B) and locating (CI/ASCE 38-02 Quality Level A) subsurface utility engineering and supporting survey

Nicholas Fewell, CST

services to map the underground utilities within the project limits to support design efforts for the reclaimed water transmission.

SRQ International Airport Culvert and Utilities Exploration, Sarasota, FL

Provided subsurface utility engineering in accordance with (CI/ASCE 38-02 Quality Levels A and B) and supporting survey services to map the horizontal and vertical position of existing underground utilities in support of the design and construction of all taxiways, runway and drainage improvements. CED used the results of the forensic exploration to provide remediation recommendations for the issues (i.e. depressions) caused by the existing stormwater pipeline. Careful coordination between the SUE team, geophysical team, and geotechnical team were critical to provide a seamless deliverable to the airport that accurately depicted the locations of utilities, all subsurface anomalies indicated by the GPR, and the results of the physical that were used to correlate the GPR results. In addition, the entire program had to be performed at night within an accelerated timeframe, to avoid disturbing the functioning airport.

SR 429 Widening from West Rd to SR 414, Central Florida Expressway Authority, FL

CED is currently underway on this 4.4-mile design project as the lead for all Survey and Subsurface Utility Engineering on this contract. This scope includes project control, Right of Way, and full topographic design survey to support widening of the mainline and eight (8) bridges for increased capacity and safety improvements. Mr. Fewell is the lead for all subsurface utility engineering services for this contract.

RSW Airport Taxiway/Runway Rehabilitation, Lee County, FL

Provided subsurface utility engineering in accordance with (CI/ASCE 38-02 Quality Levels A and B) and supporting survey services to map the horizontal and vertical position of existing underground utilities in support of the design and construction of all taxiways, runway and drainage improvements.

Push Button Design-Build Contract, FDOT District 7, Districtwide FL

Currently under contract with WSP USA and Cone & Graham to support various design and construction projects for the FDOT including lighting, signing, and traffic signalization throughout District 7. Duties include providing all survey-related services in the design phase as task orders are released. To meet the demands of this contract, LiDAR scanning is being utilized to accelerate survey data collection and eliminate subsequent visits to the project sites. This data is used to create FDOT compliant design survey files in MicroStation and assist the design team to help ensure the success of the engineer and contractor.

MoPac (S.R. 1 Roadway Improvement Project, TxDOT

Provided utility designating (CI/ASCE 38-02 Quality Level B) and locating (CI/ASCE 38-02 Quality Level A) subsurface utility engineering and supporting survey services to map the underground utilities within the project limits to support roadway improvement design efforts.

Confidential Energy Client Master Services Survey Contract, Various Counties, FL

Provided survey and subsurface utility engineering services to support design and construction at various client facilities



Wyatt Altman, PSM

Senior Surveyor | Survey | Right of Way (ROW) Services Lead

Mr. Altman is an experienced Survey Project Manager with extensive and diversified expertise that includes digital imaging and mapping, geodesy, GIS, GPS, photogrammetry, land tenure and cadastral studies, LiDAR, and remote sensing techniques. He has performed hydrographic, ALTA, full topographic, and boundary surveys; sub-surface utility locating; and construction layout. He also has expertise performing data processing using AutoCAD, CAice, Trimble Business Center, GeoPAK and Starnet.

Education

BS, Geomatics, University of Florida, 2009

Professional Registrations

Professional Surveyor & Mapper (PSM), FL

Technical Skills

ArcGIS v10

ArcPad v10

TopoDOT

TBC

LGO

Cyclone

AutoCAD

MicroStation

StarNet

Key Projects

District Wide SUE Designate, Locate and Coordination, FDOT District 1, Districtwide, FL

Performed task work orders to provide Quality Level A and B subsurface utility investigations. Quality Level A involves the use of the use of nondestructive digging equipment at critical points to determine the precise horizontal and vertical position of underground utilities, as well as the type, size, condition, material, and other characteristics. Quality Level B involves the use of surface geophysical techniques to determine the existence and horizontal position of underground utilities.

Hillsborough Transportation Design and General Engineering Services, Hillsborough County, FL

CED was awarded a county wide contract with Hillsborough county for continuing service for survey support. This contract has provided 2 tasks. Task 1 we provided a topographic and SUE survey for the intersection of Durant Road and Miller road. Under task 2 we provided topographic and SUE survey for the intersection of CR 579 and Old Hillsborough road.

SR 694 Gandy Boulevard, FDOT District 7, FDOT District 7, Pasco County, FL

Survey Crew Chief providing Mobile LiDAR services and post-processed and delivered data for this design-build contract, which consisted of road widening, sidewalk design, and signal redesign for seven miles of SR 54. Responsibilities included utilizing Mobile LiDAR, Static LiDAR, and Aerial LiDAR to create standard FDOT compliant deliverables. TopoDOT was used to extract 3D break lines, features, and ground points for creation of a detailed DTM and standard 2 planimetric files. This information was also combined with conventional boots on the ground survey data and existing information provided by the FDOT from earlier surveys in order to completely cover the corridor width. This investigation found about 70% of the corridor needed to be resurveyed, a process that was completed in a timely matter by leveraging the LiDAR technology.

SR 519 from I-95 to North of SR 520, FDOT District 5, Pinellas County, FL

Managed the data collection for the location of the entire storm water network in only two days which would have taken twice the time using conventional survey techniques. Analyzed the data for proper flow and missing structures further saving time in the field for the main topographic survey. Project consisted of a design survey for the SR 694/Gandy Blvd. from West of I- 275 to East of 4th street to redesign the intersection of Gandy Blvd, Roosevelt Blvd and 4th St., as well as Gandy Blvd and 9th Street. Team delivered design files for planametrics, 3D DTM files, and storm water locations. The storm sewer infrastructure in this project was complex due to the

Wyatt Altman, PSM

coastland elevations to determine storm water flows. Team implemented Trimble RTK GPS with integrated GIS libraries to quickly map the storm structures, decipher flow direction, and collect pertinent attribute data prior to conventional location.

SR 54 Design-Build Survey Services, FDOT District 7, Pasco County, FL

Survey Crew Chief providing Mobile LiDAR services and post-processed and delivered data for this design-build contract, which consisted of road widening, sidewalk design, and signal redesign for seven miles of SR 54. Responsibilities included utilizing Mobile LiDAR, Static LiDAR, and Aerial LiDAR to create standard FDOT compliant deliverables. TopoDOT was used to extract 3D break lines, features, and ground points for creation of a detailed DTM and standard 2 planimetric files. This information was also combined with conventional boots on the ground survey data and existing information provided by the FDOT from earlier surveys in order to completely cover the corridor width. This investigation found about 70% of the corridor needed to be resurveyed, a process that was completed in a timely matter by leveraging the LiDAR technology.

SR 694 Gandy Boulevard, FDOT District 7, St. Petersburg, Pinellas County, FL

Managed the data collection for the location of the entire storm water network in only two days which would have taken twice the time using conventional survey techniques. Analyzed the data for proper flow and missing structures further saving time in the field for the main topographic survey. Attribute data such as inverts, pipe type, pipe size and direction were then used as a QC tool to create the final storm water deliverable. Project consisted of a design survey for the SR 694/Gandy Blvd. from West of Interstate 275 to East of 4th street for the purpose of redesigning the intersection of Gandy Blvd, Roosevelt Blvd and 4th St., as well as Gandy Blvd and 9th Street. Team delivered design files for planametics, 3D DTM files, and storm water location files. The storm sewer infrastructure within this project was complex and due to the coastland elevations, confusing to determine storm water flows. Team implemented Trimble RTK GPS with integrated GIS libraries to quickly map the storm structures, decipher flow direction, and collect pertinent attribute data prior to conventional location.

SR 528 from Narcoossee Road to 1.3 Miles east of International Corporate Park Boulevard, Orlando, FL

Survey Crew Chief & CADD Technician for mobile scanning of seven (7) miles of a major arterial roadway in the metro Orlando area. Performed topographic survey data collection using terrestrial mobile LiDAR scanning and assisted in the development of digital planimetric drawings.

Gateway Expressway Design Build, FDOT District 7, Pinellas County, FL

Awarded to the Archer Western-de Moya JV team in the summer of 2017, this design-build project is changing the existing roadway system in Pinellas County in order to enhance safety, add capacity, and improve mobility by creating two new four-lane elevated tolled roadways. With approximately 90 miles of roadway affected by this construction, fast and accurate survey data collection was paramount to the design process. Colliers Engineering & Design supported BCC Engineering on this project by providing mobile LiDAR collection for the entire proposed corridor and design survey file creation to produce topography and a digital terrain model over the entire project limits.

SR 417 Widening from Landstar to Boggy Creek, Central Florida Expressway Authority (CFX), Orange County, FL

CED acted as a subconsultant to Horizon Engineering Group, Inc. in support of the design of highway widening and various other improvements along SR 417 from Landstar Blvd to Boggy Creek Rd. The survey scope of work included planimetric mapping and digital terrain modeling of the entire project corridor, from Right of Way to Right of Way for over four miles of highway and cross streets. Colliers Engineering & Design provided underground utility designates and locates, Mobile LiDAR, and UAS LiDAR, which were used to locate and document existing ground features along the roadway. Areas not visible for LiDAR collection, such as drainage ditches and wooded areas, were collected conventionally by RTK GPS or Total station. The resulting datasets were merged to create a highly detailed and comprehensive final design survey deliverable. Mr. Altman managed and coordinated field activities and survey data processing.



FALLER, DAVIS & ASSOCIATES, Inc.
HIGHWAY ENGINEERING SPECIALISTS
DESIGN | ENVIRONMENTAL | OPERATIONS



NICHOLAS J. SPATOLA, PE, PTOE
Project Manager
Traffic Engineer

FDOT Standard Job Class

- Senior Engineer 1
- Project Manager 1

Years of Experience

- 16 years total; 16 years with FDA

Professional Licenses

- Professional Engineer, FL, #76103, 2013

Certifications/Special Training

- Professional Traffic Operations Engineer (PTOE)
- IMSA Level II Traffic Signal Technician

Education

- BSCE, University of Central Florida, 2008

Affiliations

- International Municipal Signal Association (IMSA)
- Institute of Transportation Engineers (ITE)
- ITS Florida

INTRODUCTION

Mr. Spatola is experienced in ITS, signal design, signing and pavement marking design, lighting design, signal retiming, traffic modeling, and traffic operational/safety studies. His safety studies experience includes signal warrant analysis, intersection analysis, qualitative assessments, lighting justification reports, lighting analysis reports, access management studies, left turn phase warrants, and pedestrian studies. His computer skills include ArcGIS, HCS, SIDRA, Synchro, SimTraffic, Tru-Traffic, GTT On-site, and AGI32. He has experience with the following Advanced Traffic Management System platforms: ATMS.now, CENTRACS, MaxView, CLMATS, and TACTICS. He has worked with Intelight, McCain, Trafficware, Eagle/Siemens, Econolite, McCain, and Peek traffic signal controllers.

PROJECT EXPERIENCE

SIGNAL RETIMING

- District-Wide TSM&O Continuing Services Contract for Traffic Operations (NTP 2006), FDOT District 5
 - US 1 from Lytle Street to Washington Street, Volusia County
 - SR 5A from Herbert Street to Big Tree Road, Volusia County
 - US 27/441 from SE Baseline Road to SE 92nd Place Road, Marion County
 - US 17/92/441 from Hunter's Creek Boulevard to Central Florida Parkway, Orange County
 - SR 552/Curry Ford Road from SR 15/Conway Road to SR 551/Goldenrod Road, Orange County
- CSC: Traffic Signal Timing (C9M92), FDOT District 1 - Mr. Spatola serves as the Project Manager and Engineer of Record.
 - SR 70/53rd Avenue E from 5th Street W to Lakewood Ranch Boulevard Fine Tuning, Manatee County
 - SR 45/US 41 from Neopolitan Way/Granada Boulevard to Commercial Drive Fine Tuning, Collier County
 - SR 72 from Sarasota Pavillion Entrance to I-75 NB Ramps Fine Tuning, Sarasota County
 - SR 45/US 41 from Pelican Bay Boulevard N to CR 846/111th Avenue N/Immokalee Road Signal System Retiming, Collier County
 - SR 25/US 27 from Flare Road to Sebring Parkway Implementation and Fine Tuning, Highlands County
 - SR 45/US 41 Business from 21st Avenue W to 8th Avenue W Traffic Signal System Timing, Manatee County
 - SR 25/US 27 from Eagle Ridge Mall Entrance to SR 540/Waverly Road Signal System Retiming, Polk County
 - SR 655/Recker Highway from Spirit Lake Road to CR 542/K-Ville Avenue Signal System Retiming, Polk County
 - Annual Report (Summarizing Benefit/Cost and Performance Measures)
 - SR 80/Hickpochee Avenue from Main Street to Lee Street Signal System Retiming, Hendry County
 - US 17 Northbound from Carlton Road to Oak Street and US 17 Southbound from Oak Street to Carlton Road Signal System Retiming, Hardee County
 - Socrum Loop Road from SR 33 to I-4 Westbound Off Ramps Signal System Retiming, Polk County
 - SR 25/US 27 from CR 634A/Flare Road to Sebring Parkway/Schumacher Road Operational Review, Highlands County
 - SR 758 from Honore Avenue to Cattlemen Road Timing Revisions, Sarasota County
 - SR 35/US 17 from I-75 Southbound Ramps to CR 74/Bermont Road Signal System Retiming, Charlotte County
 - SR 25 /US 27 from Commerce Avenue to Bates Road Signal System Retiming, Polk County



- SR 25 /US 27 from Sanders Road/CR 547 to Ridgewood Lakes Boulevard Signal System Retiming, Polk County
- SR 25/US 27 Citrus Ridge Drive/Minute Maid Ramp Road 2 to CR 54/Dean Still Road/Ronald Reagan Parkway Signal System Retiming, Polk County
- SR 60 at County Line Road and SR 45 (US 41 Bus) at 3rd Avenue Ws, Polk County; SR 758 at Maxfield Drive, Sarasota County; SR 45/US 41 Business at 3rd Avenue W Signal Timing Updates, Manatee County
- Manatee County Traffic Signal Retiming, Manatee County, FDOT District 1
 - 53rd Avenue West/SR 70 from 51st Street West to Lakewood Ranch Boulevard
 - Cortez Road/SR 684/US 41 from 75th Street West to 26th Avenue East/26th Avenue West
 - US 41 from Tallevast Road/Gaines Avenue to Cortez Road/SR 684
 - US 301 from Tallevast Road to 63rd Avenue East
 - 15th Street East from Tallevast Road to 63rd Avenue East
 - 301 Boulevard/15th Street East from 57th Avenue East to 44th Avenue East
- County Wide Signal Retiming Update, Lee County, Lee County BOCC
 - Hanson Street from Metro Parkway to Fowler Street and Fowler Street from Hanson Street to Market Street
 - SR 80/Palm Beach Boulevard from Veronica Shoemaker Parkway to Orange River Boulevard
 - SR 82/Martin Luther King Boulevard from Michigan Avenue to I-75 Northbound Ramp
- District-Wide Traffic Signal Timing (C9E61), FDOT District 7
 - City of Tampa Clearance Interval Updates, Hillsborough County
 - SR 60 from Boat Ramp to Rocky Point Drive, Hillsborough County
 - US 41 Business from Maritime Boulevard to Durham Street, Hillsborough County
- District-Wide Traffic Signal Retiming (C9A67), FDOT District 7
 - US 41 from Crystal Lake Road to West Lutz Lake Fern Road, Hillsborough County
 - Van Dyke Road from Gunn Highway to St. Joseph's Hospital North, Hillsborough County
 - Race Track Road from Douglas Road/Twin Branch Acres Road to South Mobley Road, Hillsborough County
 - US 301 from Summerfield Crossing Boulevard to Symmes Road, Hillsborough County
 - US 19/Commercial Way from Pepper Street/Applegate Drive to SR 50/Cortez Boulevard, Hernando County
 - SR 60/Adamo Drive from Channelside Drive to SR 599/US 41 and Selmon Expressway Ramps, Hillsborough County
- SR 599/SR 583 from 7th Avenue to SR 574/Dr. Martin Luther King Jr. Boulevard and Columbus Drive at I-4, Hillsborough County
- SR 574/Dr. Martin Luther King Jr. Boulevard from 15th Street to 34th Street, Hillsborough County
- Manhattan Avenue from Fair Oaks Avenue Mid-block to Henderson Boulevard; Henderson Boulevard from Manhattan Avenue/San Jose Street to Grady Avenue/Neptune Street; Westshore Boulevard from Euclid Avenue to Culbreath Isles Road; and Manhattan Avenue at Estrella Street, Hillsborough County
- SR 685/Florida Avenue Northbound from Henderson Avenue to Osborne Avenue; SR 685/Tampa Street Southbound from Floribraska Avenue to Palm Avenue; SR 574/Dr. Martin Luther King Jr. Boulevard from North Boulevard to SR 45/Nebraska Avenue; SR 45/Nebraska Avenue from SR 574/Dr. Martin Luther King Jr. Boulevard to Osborne Avenue; and Osborne Avenue from SR 685/Highland Avenue to SR 45/Nebraska Avenue, Hillsborough County
- SR 569/SR 599 from Ellicott Street/Louisiana Avenue to Columbus Drive, Hillsborough County
- Waters Avenue from Armenia Avenue to SR 45/Nebraska Avenue; SR 685/Florida Avenue from Bird Street to Yukon Street; and SR 45/Nebraska Avenue from Sitka Street to Yukon Street, Hillsborough County
- District-Wide Signal Retiming (C9753), FDOT District 7
 - SR 52 from Zimmerman Road to Paradise Pointe Way, Pasco County
 - SR 582/Fowler Avenue from SR 685/Florida Avenue to 50th Street, Hillsborough County
- Signal Retiming, Naples, FL, City of Naples - Mr. Spatola served as Project Manager. The project involved on-call retiming services to address operational issues and citizen complaints, as needed. FDA developed signal timings for City roads and worked to reduce cycle lengths to improve pedestrian operations while maintaining vehicle operations. Services included working with the City to test leading pedestrian intervals at select locations.
- MetroPlan Traffic Signal Retiming (2022-2024), Orange, Seminole, and Osceola Counties - Mr. Spatola serves as the Project Manager and a Signal Timing Team Leader. The purpose of this task-work order driven contract is to provide MetroPlan Orlando with professional services for conducting signal retiming efforts. A major objective of this contract is to improve safety and efficiency along the corridors as expeditiously as possible. MetroPlan Orlando task work orders in Orange, Seminole, and Osceola Counties include data collection, model development and analysis; development of signal retiming plans; and implementation and evaluation.

Jeanna J. Dean

President/Owner/ Chief Utility Coordinator



Years of Experience

- 23 (19 with others)

Education

- B.A., (Court Reporting), St. Louis College, 1991

Awards

- FDOT's Verne Brown Memorial Liaison Person of the Year Award for 2013 for exceptional utility coordination services

Certifications

- National Highway Institute CSS National Training 2010;
- Florida Department of Transportation (FDOT) Plans Reading Course, 2000;
- National Highway Institute/Utility Issues Training, 2002;
- FDOT Specifications Training, 2004;
- FDOT Designer Training for Utilities Issues, 2005

Professional Affiliations

- ASHE
- F.U.C.C.



KEY QUALIFICATIONS

Jeanna Dean is the owner of Harbor Coordination Solutions, Inc and has 23 years of utility coordination experience and acts as the prime liaison between utility agencies, all design disciplines, and any governmental agency. She has experience in various levels of roadway, transit, structures, and utility design projects. She is knowledgeable with Federal, many State and Local government agencies policies and procedures regarding utility design and coordination. Jeanna is knowledgeable in contract negotiation, federal/state and local funding procedures, utility adjustment and/or relocation design, utility permits, transit and railway coordination, right-of-way compensable interest/subordination and federal/state reimbursement requirements. She has extensive experience working with Federal Highway Administration (FHWA), Federal Transit Authority (FTA), U.S. Department of Transportation (USDOT), Florida Department of Transportation (FDOT), Florida Administration Codes (F.A.C.), Florida Department of Environmental Protection (FDEP) and Environmental Protection Agency (EPA) regulations, as well as the Ten State Standards for all pertinent projects with utilities.

Jeanna's unique experience and responsibilities on utility projects includes coordinating, advising and reviewing highway improvement planning with regards to meeting the FHWA Program Manual, American Association of State Highway Transportation Officials' (AASHTO), states' and local government agencies' design criteria and preliminary design plans regarding utilities. She also coordinates the preparation, reviews and recommends approval of utility permits on all assigned projects. Jeanna negotiates initial contracts with utility companies for scheduled design improvement projects involving utility adjustment and/or relocation, including all related work, such as correspondence, review and processing of utility proposals, plans and utility work schedules. Jeanna acts as the Oversight Coordination Manager for all Utility Work by Highway Contractor Agreements (UWHCA), plans, technical specifications and cost estimates. She is certified in Technical Specification Writing. Ms. Dean has done several design/builds projects and understands the construction schedule to ensure the utility's work coincides with the contractors planned work schedule. *Jeanna is the past Chair for the Florida Utilities Coordination Committee this is a non-profit agency that works closely with all UAOs, FDOT and other governmental agencies regarding legislative, State and local policies and procedures.*

RELEVANT PROJECTS

D-7 SR 580/Skinner Blvd from Alt US 19/Broadway to Main Street/Bass Blvd: Acts as the Chief/Sr Utility coordinator for this \$10 Million Dollar Complete Street Project. This project takes 2 lanes to 4 lanes with the addition of two roundabouts. This project has 16 UAOs. The City of Dunedin had a UWHCA for this project with a schedule that could not be adjusted. Harbor was instrumental working with the EOR and the City's design to avoid delays. The city asked for Duke and joint pole users to be placed underground. The utility coordination for Duke's undergrounding and future landscaping by the City was added to this FDOT project and coordinated by Ms. Dean.

D-7 Non-Tampa Bay Next Misc. Improvements Task Work Order Contract: acts as the Sr. utility coordination manager for this task work order driven misc. design contract. This contract represents the Department in advanced Utility Coordination and RFP development for design/build (E.g I-75 @ Overpass Rd and I-75 @ Big Bend)

Harbor Coordination Solutions, Inc.

Jeanna J. Dean
President/Owner/
Chief Utility Coordinator



D-7 Non-Tampa Bay Next Misc. Improvements Task Work Order Contract: acts as the Sr. utility coordination manager for this task work order driven misc. design contract. This contract represents the Department in advanced Utility Coordination and RFP development for design/build projects. (e.g. Overpass Rd and I-75 and Big Bend and I-75 RFP development)

D-7 SR 597 (Dale Mabry) Repaving from N of Fletcher Ave to South o Van Dyke Rd: Acts as the Utility Coordinator for this \$2.1 Million dollar repaving with minor drainage project. This project is currently in design with construction anticipated in 2022.

D-7 General Consultant Services Tampa, FL: This is a \$5 million dollar contract for consultant service held by Atkins. Harbor Coordination provides part-time assistance to serve the District Seven Utilities Office for special assignments and oversight services.

D-7 Non-Tampa Bay Next Misc. Improvements Task Work Order Contract: acts as the Sr. utility coordination manager for this task work order driven misc. design contract. This contract represents the Department in advanced Utility Coordination and RFP development for design/build projects. (e.g. Overpass Rd and I-75 and Big Bend and I-75 RFP development)

D-7 SR 93A/I-75 from S of CSX/Broadway to EB/WB I-4 Exit/Martin Luther King Design Build, Hillsborough, FL: Ms. Dean acted as the Chief Utility Coordination Manager for this \$111 million project. This project is a DDI design with 14 UAOs along the corridor and was split into 3 distinct segments requiring each segment to act as a stand alone project. Ms. Dean was instrumental in assisting the UAOs to work through complex conflicts with the design. Jeanna assisted the team with the overhead relocation of TECO placing their distribution crossing underground and FGT coordination regarding ramp design alternatives to avoid this transmission gas main. Additional coordination with the District Utilities Office, Project Manager and design team was extensive with Hillsborough County's facilities. During the project an additional turn lane was added by Hillsborough County requiring added work to be coordinated with Hillsborough County WRD and other UAOs. Ms. Dean was instrumental in making this a smooth transition with an innovative idea to include the small adjustments required of Hillsborough County's facilities to be included in the LFA to avoid a long delay to the project. Working with WSP during the design phase she assisted the team in conflict resolution, innovative ideas and expedited responses from the UAOs. Individual workshops were utilized to help everyone partner and move as a single unit to eliminate utility conflicts or scheduling of work. This project is currently on-going, but the utility coordination effort was completed in early 2023, well ahead of schedule. Harbor's involvement at this time is to answer any questions the contractor may have while completing the construction tasks.

D-7 I-275 Operational Improvements: This is a \$29-million-dollar operational improvement included widening, milling and resurfacing, bridge widening, noise walls, drainage, lighting, signing, paving markings, signalization, ITS. Ms. Dean provided Utility Coordination support to HDR and the FDOT to successfully relocate the utilities.

D-7 SR 679/Bayway Bridge (Structure E) Replacement and Repaving from N. of Yacht Club Lane to SR 682 Design/Build – American Bridge: Ms. Dean is currently providing Sr. Utility Coordination Manager support for this \$56.3 Million and high-profile project. This project is installing a roundabout at Madonna Blvd and replacing the bridge

D-7 SR 60 (Courtney Campbell Causeway) Old Tampa Bay Water Quality Improvement Project Design-Build, Hillsborough Co. Sr. Utility Coordination Manager. This project is a \$12 million dollar project to cut a bridge into the causeway with an aggressive schedule for the waterway to be open. Ms. Dean was instrumental in coordinating a joint utility bore along the north side of the bridge and TECO's service line bore for the service load centers for both the SR 60 ITS & Lighting Design/Build and this project. It required extensive stakeholder coordination between local agencies, utility agency owners, and adjacent ongoing FDOT projects.

Harbor Coordination Solutions, Inc.

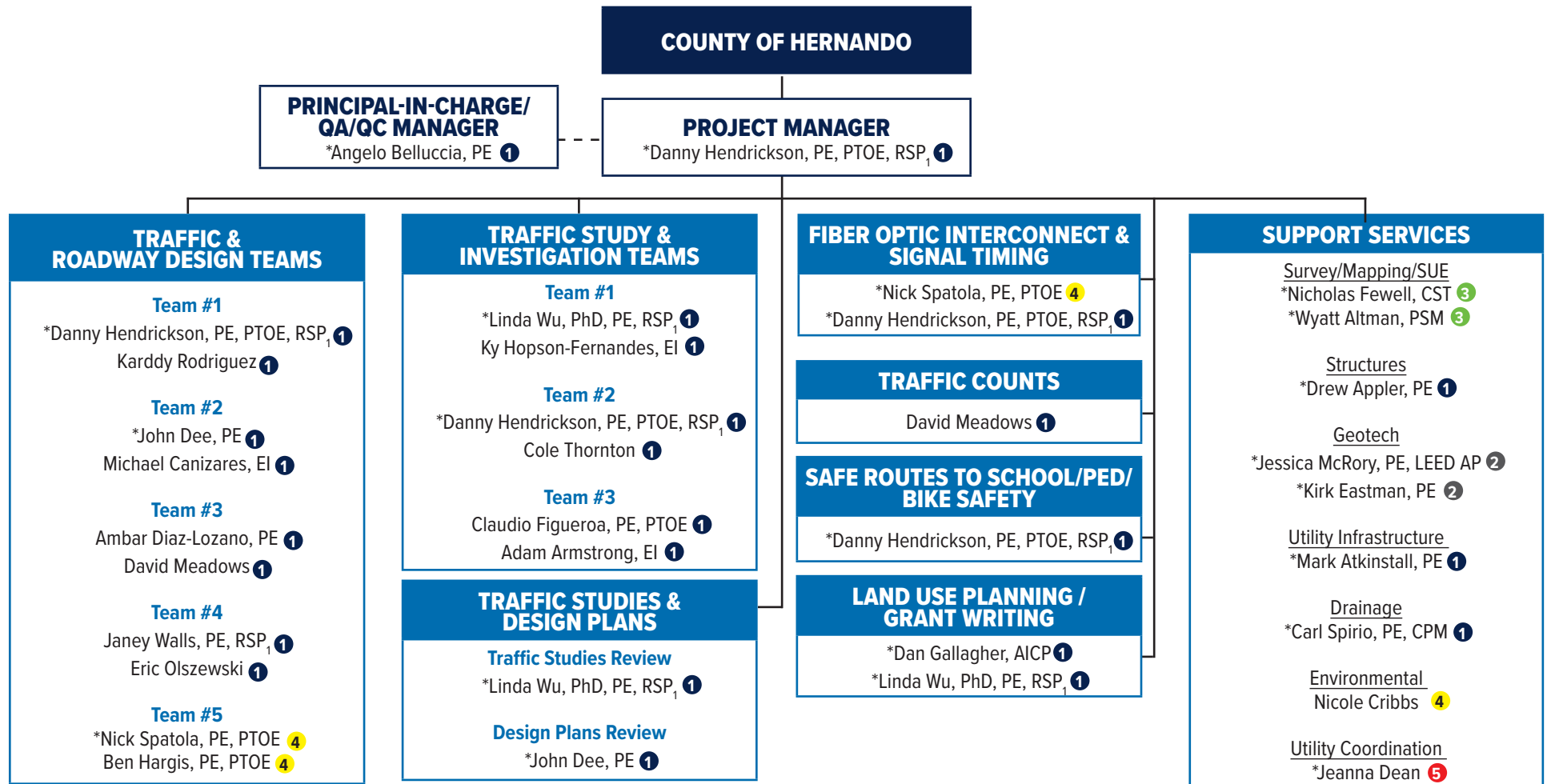


Team Organizational Chart

Our team selection process was driven by a strategic vision to ensure the utmost proficiency and excellence in delivering on the Continuing Traffic Engineering Services contract. We chose our staff based on a comprehensive understanding of the County's needs, objectives, and the scope of services. Each key team member brings a unique blend of skills, and at least 5 years of experience, and expertise that perfectly aligns with the contract requirements, making our team the ideal choice for this project.

LEGEND * = Key Resume

- 1 Burgess & Niple, Inc.
- 2 AREHNA Engineering, Inc. M/WBE & DBE
- 3 Colliers Engineering
- 4 Faller Davis & Associates, Inc. M/WBE
- 5 Harbor Coordination Solutions, Inc. M/WBE & DBE



Current and Projected Work Load													
Key Personnel	2023	2024											
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Burgess & Niple, Inc.													
Angelo Belluccia, PE	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%
Danny Hendrickson, PE, PTOE, RSP ₁	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%
John Dee, PE	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%
Linda Wu, PhD, PE, RSP ₁	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%
Dan Gallagher, AICP	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%
Drew Appler, PE	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%
Mark Atkininstall, PE	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%
Carl Spirio, PE	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%
AREHNA Engineering, Inc.													
Jessica McRory, PE, LEED AP	60%	60%	60%	65%	65%	65%	70%	70%	70%	75%	75%	75%	75%
Kirk M. Eastman, PE	60%	60%	65%	70%	70%	70%	70%	70%	75%	75%	75%	80%	80%
Colliers Engineering													
Nicholas Fewell, CST	47%	55%	53%	45%	58%	52%	59%	45%	48%	55%	58%	46%	46%
Wyatt Altman, PSM	45%	45%	60%	55%	50%	50%	60%	50%	55%	55%	50%	45%	45%
Faller Davis & Associates, Inc.													
Nicholas J. Spatola, PE, PTOE	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Harbor Coordination Solutions, Inc.													
Jeanna J. Dean	45%	60%	55%	60%	60%	45%	45%	55%	50%	40%	40%	50%	25%

1. Miscellaneous Transportation Design Services

Hernando County | Hernando County, Florida

This continuing services contract supports Hernando County's comprehensive traffic engineering design, investigation and analysis, and inspection services that are required in connection with the development and improvement of Hernando County infrastructure. Some of the tasks assigned were:

Spring Hill Comprehensive Plan Review:

The Spring Center proposed development required a traffic analysis as part of the submittal requirements of the Comprehensive Plan Amendment. This scope of this analysis includes field reviews, support at BOCC and MPO planning meetings and support as the final agreement is prepared. Other traffic impact analysis reviews for Rezoning, Concurrency, Access, Site Plans and/or for a Development Agreement are not included. Spring Center is a 450 acres town center concept located in the center of Spring Hill with residential and a school adjacent to the project.

SR 50 Intersection Improvements at Coastal Boulevard:

This project involved adding turn lanes and making modifications to the Coastal Boulevard and SR 50 intersection. The proposed improvements span approximately 525 LF and include the addition of a left-turn lane, a thru/right-turn lane and sidewalks along the east and west right-of-way with ADA ramps. Additional right-of-way was required on both the east and west sides. The roadway improvements to this intersection include the addition of pavement to provide for new turn or acceptance lanes, drainage accommodations for the proposed improvements, modifications to (or complete reconstruction of) the existing traffic signal, and new signage and pavement markings. After collecting turning movement counts, forecasting future traffic, and obtaining area crash data, B&N prepared several design alternatives for the County's consideration. A preferred alternative was chosen and B&N prepared construction plans, specifications, and permitting.

SR 50 Intersection Improvements at Nightwalker Road:

The project includes adding a left-turn lane and a thru/right-turn lane at the Nightwalker Road and SR 50 intersection. The project is approximately 854 LF and did not require any additional right-of-way. Due to improvements, the west turn-out connection to Cortez Boulevard (SR 50) was widened and the signals were modified/replaced. After collecting turning movement counts, forecasting future traffic, and obtaining area crash data, B&N prepared several design alternatives for the County's consideration. A preferred alternative was chosen and B&N prepared construction plans, specifications, and permitting.

RELEVANT FEATURES

Engineering Design:

- Design traffic signals
- Design ancillary intersection improvements, including turn lanes.
- Develop signage and pavement marking plans (MUTCD compliant).
- Formulate Temporary Traffic Control Plans for events and emergencies.
- Comprehensive design projects covering utility, drainage, right-of-way, and traffic/detour plans.
- Deliverables include signed plans, regulatory approvals, and cost estimates.

Investigations and Documentation:

- Conduct traffic control investigations and signal warrant analyses.
- Review plans for development project conformity and roadway impacts.
- Evaluate traffic impact analyses for accuracy and adequacy.
- Provide initial consultation for Developments of Regional Impact.

Role

Prime

Proposed Team

Angelo Belluccia, Danny Hendrickson, Karddy Rodriguez

Work Performed In-House:

Yes

Type/Scope of Services Provided

Intersection design; ADA Compliance; Traffic Signal Design; Roadway design

Owner's Contact Name and Address/Contact Person and Phone Number

Hernando County BOCC
Carlene Riecss
20 N Main St # 460
Brooksville, FL 34601
(352) 754-4082
criecss@co.hernando.fl.us

Project Duration

2016-2018

Project Completed Within Schedule

Yes

Location of Office Performing Work

Burgess & Niple
1511 North Westshore Boulevard,
Suite 500
Tampa, Florida 33607

2. Continuing Traffic Engineering Studies

Hernando County | Various Locations, FL

Ayers at Culbreath Roundabout Evaluation:

This task originated from a Signal Warrant Analysis performed by Burgess & Niple at the study intersection which concluded that the intersection met warrants for signalization. B&N was then tasked with evaluating whether a traffic signal or roundabout was the best option based on vehicular delay, safety, and right of way and other impacts. Conceptual designs were developed for both options showing project footprints and impacts. Synchro and Sidra models were also developed to evaluate traffic operations and predicted crashes were estimated based on Highway Safety Manual methodologies. Finally, based on benefit to cost analyses the roundabout option was recommended.

Sunshine Grove at Plumeria Boulevard Signal Warrant Analysis:

B&N was tasked with performing a signal warrant analysis at the study intersection in March 2023. The study included 12-hour turning movement counts, side street stop-delay, 5-year historical crash analysis, and a qualitative assessment of field conditions by a professional engineer. The study found that although the intersection met Warrant 2 of the MUTCD, a signal was not recommended based on engineering judgment.

Intersection Safety Reviews:

Traffic investigations were conducted at various County intersections for safety and operational concerns requested from local residents. B&N conducted traffic counts, reviewed collision histories, and performed peak hour field observations to determine what, if any, action should be taken to best address the resident's concerns. Recommendations included relocating stop bars and stop signs, trimming vegetation to improve sight distance, and additional signage to alert drivers of an upcoming intersection or driveway.



Ayers Road at Culbreath Road - Roundabout Concept

RELEVANT FEATURES

- Traffic Studies
- Intersection Safety Reviews
- Roundabout Design
- Conceptual Design
- Synchro and Sidra modeling
- Cost analysis

Role

Prime

Proposed Team

Danny Hendrickson, Linda Wu,
Angelo Belluccia

Work Performed In-House:

Yes

Type/Scope of Services Provided

Traffic Studies and Signal Timing

Owner's Contact Name and Address/Contact Person and Phone Number

D. Todd Crosby, PE
Assistant County Engineer
Hernando County Department of
Public Works
1525 East Jefferson St.
Brooksville, FL 34601
(352) 754-4062 ext. 17016
Tcrosby@co.hernando.fl.us

Project Duration

2019-2023

Project Completed Within Schedule

Yes

Location of Office Performing Work

Burgess & Niple
1511 North Westshore Boulevard,
Suite 500, Tampa, Florida 33607

3. SR 50 (Cortez Boulevard) Widening

Florida Department of Transportation - District 7 | Hernando County, FL

The project consists of the widening, resurfacing and new construction of SR 50 (Cortez Boulevard) from a two-lane rural roadway to a four-lane divided rural roadway from US 98 (SR 700/McKethan Road) to US 301 (SR 35/Treiman Boulevard), as well as improvements to US 301 north and south of the intersection with SR 50. The existing SR 50 roadway will be converted to the westbound travel way; new pavement will be constructed south of the existing roadway to become the new eastbound travel way. This project will also include median openings and improvements to pedestrian features (sidewalks), turn lanes and intersections.

B&N used the approved concepts from the PD&E Study of SR 50 (Cortez Boulevard) from Lockhart Road to US 301 (SR 35/Treiman Boulevard), Hernando County, Florida as a basis for the design.



SR 50 (Cortez Boulevard) Widening

RELEVANT FEATURES

Engineering Design

- Four-lane divided rural roadway, including traffic signals, pedestrian signals, and school beacons.
- Fiber optic interconnections for traffic signals and Intelligent Transportation Systems (ITS) facilities.
- Ancillary intersection improvements with turn lanes associated with signal design.
- Traffic calming devices
- Signage and pavement marking plans, ensuring compliance with the latest MUTCD
- Temporary Traffic Control (TTC) Plans

Investigations and Documentation

- Traffic control investigations for SR 50

Technical Assistance

- Safety audits for the SR 50 project

Role

Prime

Proposed Team

Danny Hendrickson

Work Performed In-House:

Yes

Type/Scope of Services Provided

Roadway design; Highway & Streets; Subsurface Utility Engineering; Utility Coordination; Drainage Area Analysis; Hydraulic Analysis

Owner's Contact Name and Address/Contact Person and Phone Number

FDOT District 7

Kevin Lee

11201 McKinley Dr, Tampa, FL 33612
(813) 975-6000

Project Duration

2014 - 2023

Project Completed Within Schedule

In-Progress

Location of Office Performing Work

Burgess & Niple

1511 North Westshore Boulevard,
Suite 500, Tampa, Florida 33607

4. Lithia Pinecrest Road Improvements PD&E

Hillsborough County | Lithia, Florida

The purpose of this project is to provide a Project Development and Environment (PD&E) Study for Lithia Pinecrest Road (CR 640) and Bloomingdale Avenue corridors to evaluate capacity needs and safety improvements. The study corridors include Lithia Pinecrest Road from Fishhawk Boulevard to Lumsden Road (6.0 miles approximately) and Bloomingdale Avenue from Culbreath Road to Pearson Road (1.15 miles approximately) (see map below). Both roadways are currently two-lane undivided roadways in most areas and are functionally classified as arterials with a context classification of C3R (suburban residential).

The objective of the PD&E Study is to provide documented environmental and engineering analyses to assist the County in reaching a decision on the type, conceptual design, and location of the necessary improvements within the Lithia Pinecrest Road PD&E Study limits. This project will provide for an enhanced roadway corridor, congestion relief and will improve safety and mobility through a context and environmentally sensitive design. Within this study, 18 intersections will be evaluated for improvements to reduce the significant traffic delays currently occurring along this corridor. Safe mobility for all roadway users, regardless of mode of travel, will be incorporated into the Study. The schedule for the project includes completion of all tasks within 24 months of Notice to Proceed.

Role

Prime

Proposed Team

Angelo Belluccia

Linda Wu

Carl Spirio

Karddy Rodriguez

Work Performed In-House:

Yes

Type/Scope of Services Provided

PD&E Studies

Owner's Contact Name and Address/Contact Person and Phone Number

Hillsborough County

Sandra González, PE

601 E. Kennedy Blvd.

Tampa, FL 33602

(813) 307-1749

gonzalezsa@hillsboroughcounty.org

Project Duration

2022-present

Project Completed Within Schedule

Ongoing

Location of Office Performing Work

Burgess & Niple

1511 North Westshore Boulevard,

Suite 500

Tampa, Florida 33607



Map of Lithia Pinecrest Road PD&E Study Limits

RELEVANT FEATURES

- Conceptual improvements for traffic signals, pedestrian signals, and school beacons.
- Traffic Control Investigations
- Traffic impact analyses for commercial and residential development projects, focusing on accuracy, adequacy, and impacts on County roadways.

5. University Avenue and 13th Street Complete Streets PD&E

City of Gainesville | Gainesville, Florida

The University Avenue corridor and the 13th Street corridor in Gainesville, FL are active and bustling streets that traverse the City of Gainesville. Both corridors experience high traffic volumes but also have a high degree of pedestrians, bicyclists and transit users who are traveling to and from the University of Florida, downtown Gainesville, and the many origins, destinations and neighborhoods along these two corridors.

B&N teamed with Kimley-Horn and are underway on a significant and transformative project to transition both corridors to safer and more complete streets. Both corridors and the community have experienced severe crashes, injuries and fatalities that have galvanized the community to rethink these two streets.

The current project involves a PD&E study (Phase I) and Design (Phase II) for the reconstruction of University Avenue (SR 26) between NW 22nd Street and NE 31st Street (Segment 1), and W 13th Street (SR 25) between SW 16th Avenue and NW 8th Avenue (Segment 2) as complete streets, emphasizing the safety, movement and accessibility of cyclists and pedestrians. The project length is approximately 4.0 miles along University Avenue (SR 26) and approximately 1.6 miles along W 13th Street (SR 25). B&N and Kimley-Horn have worked with the community, the City, FDOT, residents and stakeholders to help envision a different future for these corridors and are currently at the mid-way point in the PD&E process with the City of Gainesville.



University Avenue - Walk and Talk Tour

RELEVANT FEATURES

- Conceptual improvements for traffic signals, pedestrian signals, and school beacons.
- Traffic Control Investigations
- Traffic impact analyses for commercial and residential development projects, focusing on accuracy, adequacy, and impacts on County roadways.

Role

Sub

Proposed Team

Dan Gallagher

Work Performed In-House:

Yes

Type/Scope of Services Provided

PD&E Studies

Owner's Contact Name and Address/Contact Person and Phone Number

City of Gainesville
Debbie Leistner, PTP
200 E University Ave
Gainesville, FL 32601
(352) 393-8412
leistnerdl@cityofgainesville.org

Project Duration

2022-present

Project Completed Within Schedule

Ongoing

Location of Office Performing Work

Burgess & Niple
1511 North Westshore Boulevard,
Suite 500
Tampa, Florida 33607

6. Ringling Trail Design-Build

City of Sarasota | Sarasota, Florida

The City of Sarasota identified Ringling Boulevard as a candidate for a complete streets project to address the growth in bicycle traffic between The Legacy Trail and downtown Sarasota and the Bayfront. Legacy Trail is a multi-use path extending from south Sarasota County to downtown. The trail connection to Ringling Boulevard provided an excellent opportunity for the City to provide the first protected bike lane corridor in the Sarasota-Manatee region. The design-build delivery method allowed the City to provide that connectivity as quickly as possible.

This \$2.8 million project was high on citizen interest, addressed community needs and is likely to translate into economic growth for the downtown area. Cost-saving and sustainability measures included conducting construction engineering inspection services in-house and reallocating concrete parking wheel stops as bicycle dividers.

The protected bike lane was prioritized and is highlighted with green paint along intersections and conflict points to enhance safety. ADA ramps and crosswalks were upgraded and repaired to ADA standards. Landscaped islands with canopy trees were added as part of the complete streets. Bus stop pads were installed as loading/unloading areas for riders outside of the bike lane. The project delivered the features from design to final acceptance in less than one year and under \$3 million.



Ringling Trail Design-Build Project

2023 Project of the Year Award – Transportation Roadways
Design-Build Institute of America (DBIA) Florida Region Awards



City of Sarasota - Ringling Trail Design-Build Project - East Ave

RELEVANT FEATURES

- Traffic signals, pedestrian signals, and school beacons for enhanced safety and functionality
- Signage and Pavement Planning
- Traffic Control Plans
- Utility locations/relocations, drainage solutions
- Traffic Control Investigations

Role

Sub

Proposed Team

Mark Atkininstall, Danny Hendrickson,
Karddy Rodriguez

Work Performed In-House:

Yes

Type/Scope of Services Provided

Roadway Design, Traffic, and Signal Timing

Owner's Contact Name and Address/Contact Person and Phone Number

City of Sarasota
Nikesh (Nik) Patel, PE, CPM, PTOE,
CGC, AICP
1761 12th St.
Sarasota, FL 34236
(941) 263-6132
Nikesh.Patel@sarasotaFL.gov

Project Duration

2022

Project Completed Within Schedule

Yes

Location of Office Performing Work

Burgess & Niple
1511 North Westshore Boulevard,
Suite 500, Tampa, Florida 33607

7. Development of Hillsborough County's Transportation Design Manual (HCTDM)

Hillsborough County | Hillsborough County, Florida

The HCTDM was prepared as an all-new design manual for Hillsborough County. In development for 2 years, B&N created the outline, contents and approaches of the manual while working closely with the Technical Services Division (TSD) Leadership Team and the County Engineer. The HCTDM was based on the newly created Hillsborough County Context-Based Classification System (also developed by B&N). Typical Cross Sections were developed for each Context Classifications with new design criteria above and beyond those established in the FDM.



Workflow with Hillsborough County

Some challenges with creating the HCTDM and may require internal meetings. These challenges will provide improved opportunities in planning and designing projects:

- Using Target Speed and Design/Posted Speed
- Emergency Vehicle Accommodation Opportunities
- Using Complete Streets Guide's Typologies and HCTDM's Typical
- Preparing the required Multimodal Safety Analysis for the selected projects

Scope of Services Provided:

Assisting with Technical Manuals and Specifications:

- Collaborating on refining and updating existing manuals to meet industry standards.
- Creating new manuals for emerging needs and technologies.

Improvement Development:

- Planning and executing infrastructure and facility enhancements.
- Elevating public asset quality and functionality.

Technical Inquiry Support:

- Addressing inquiries in various disciplines.
- Ensuring effective resolution in line with project goals.

Technical Research and Reports:

- Conducting in-depth research on transportation engineering and safety.
- Producing insightful reports for innovative and context-sensitive design.

RELEVANT FEATURES

- Comprehensive Transportation Capital Improvement Project
- Roundabout Analysis/Design
- Traffic Signal Interconnection Planning and Implementation
- Road Diet Implementation
- Complete Streets Design

Role

Prime

Proposed Team

Angelo Belluccia, PE, Kardy Rodriguez, Carl Spirio, Ambar Diaz-Lozano

Work Performed In-House:

Yes

Type/Scope of Services Provided

- Revising, updating, and creating Public Works Technical Manuals.
- Developing improvements.
- Handling technical inquiries for listed disciplines.
- Conducting research and reports on transportation engineering and safety topics.
- Meeting County requirements for conceptual and complete designs

Owner's Contact Name and Address/Contact Person and Phone Number

Hillsborough County
Lawrence Josephson, PE
601 E. Kennedy Blvd.
Tampa, FL 33602
C: (813) 373-2176
josephsonl@hcflgov.net

Project Duration

August 2020-October 2023

Project Completed Within Schedule

Ongoing

Location of Office Performing Work

Burgess & Niple
1511 North Westshore Boulevard,
Suite 500
Tampa, Florida 33607

8. Transportation Design and General Engineering Services

Hillsborough County | Hillsborough County, Florida

B&N successfully completed a wide variety of projects under their previously named Misc. Professional Engineering Services contract between 2016 and 2020. See a list of representative projects below.

- Colson Rd Culvert Replacement (2016-2019)
- Crawley Rd Drainage Improvements (2016-2018)
- Thonotosassa Rd Culvert Replacements (2016-2018)
- Club Manor Drainage Improvements (2018-2019)
- Chickory Lane Drainage Improvements (2016-2017)
- CR 579 Drainage Improvements (2016-2018)
- Standardization of County Manuals and Specifications (including Stormwater Technical Manual) (2015-2016) Consultant Evaluation Score = 98%

B&N has continued to successfully complete a wide variety of projects under this new contract between 2021 and 2023. See a list of representative projects below.

- Pebble Beach Boulevard Bridge Replacement (design)
- Seffner Elementary School - School Circulation Improvements (Study/Design)
- Brooker Elementary School and Burns Middle School - School Circulation Improvements (Study/Design)
- Palm River Elementary School - School Circulation Improvements (Study/Design)
- School speed zones Phase IIC
- School speed zones Elementary/Middle Schools
- School speed zones High Schools/Private Schools
- Safe Routes to School (SRTS) - Brandon High School and Limona Elementary School
- Corridor Preservation Plan: Alternative Land Use Scenario
- Corridor Preservation Plan Update
- Gibsonton Grant Funding
- Madison Ave. Culvert Replacement



■ Colson Rd Culvert Replacement

RELEVANT FEATURES

- Roadway Design, Plans Preparation, and Post Design Services
- Structures Design of Bridge Culvert
- Utility Coordination
- Construction Phasing and MOT Plans

Role

Prime

Key Staff

Angelo Belluccia, Karddy Rodriguez, Joyce Goulas, Carl Spirio, Danny Hendrickson, Eric Olszewski

Proposed Team

Angelo Belluccia, Karddy Rodriguez, Carl Spirio, Danny Hendrickson, Eric Olszewski

Work Performed In-House:

Yes

Type/Scope of Services Provided

Miscellaneous engineering support on transportation capital improvements including intersection improvements, new signals, traffic signal interconnection, road diets, complete streets, road widening, road resurfacing and reconstruction and bridge rehabilitation and replacement.

Owner's Contact Name and Address/Contact Person and Phone Number

Hillsborough County, Capital Programs Dept.
County Center, 22nd floor
601 E. Kennedy Blvd., Tampa, FL 33602
Sandra González, PE
(813) 307-1749
gonzalezsa@hillsboroughcounty.org

Project Duration

2021-Ongoing

Project Completed Within Schedule

Ongoing

Location of Office Performing Work

Burgess & Niple
1511 North Westshore Boulevard,
Suite 500, Tampa, Florida 33607

9. 62nd Avenue North Full Depth Reclamation Construction City of St. Petersburg | St. Petersburg, Florida

B&N was selected by the City of St. Petersburg, Florida to provide for the design of Full Depth Reclamation (FDR) construction documents for the pavement restoration of 62nd Avenue North from 1st Street North to 16th Street NE, a distance of 1.0 miles.

Services provided under this project include roadway, design, FDR pavement design, maintenance of traffic plans, design survey, geotechnical services, and utility coordination. The project was advanced to 30% plans and the City will move forward with a design build project for the replacement of existing City-owned water and sewer lines, along with pavement reconstruction.



62nd Avenue NE Pavement Conditions

RELEVANT FEATURES

- Traffic Signal Design
- Fiber Optic Interconnections
- Intersection Improvements
- Signage and Pavement Planning
- Traffic Control Plans
- Traffic Control Investigations
- Traffic Impact Analyses
- Utility Coordination
- Geotechnical Services
- Utility Inspection Services

Role

Prime

Proposed Team

Eric Olszewski, Carl Spirio

Work Performed In-House:

Yes

Type/Scope of Services Provided

Roadway Design

Owner's Contact Name and Address/Contact Person and Phone Number

City of St. Petersburg

Mike Gebler, PMP

One 4th Street North

St. Petersburg, FL 33701

727-893-7197

Michael.Gebler@stpete.org

Project Duration

2022-Present

Project Completed Within Schedule

Yes

Location of Office Performing Work

Burgess & Niple

1511 North Westshore Boulevard,
Suite 500

Tampa, Florida 33607

10. CR 452 from CR 44 to Lake County/Marion County Line

Lake County | Lake County, Florida

This project consists of the design services for safety improvements along CR 452 from CR 44 to the Lake/Marion County line, approximately 9.3 miles in length. The design included 5-foot paved shoulders with safety edge treatment at all curves and rumble strips at select curves along CR 452. Additional improvements along the corridor included traffic signal upgrades and lighting improvements at the intersection of CR 452 and CR 44, a westbound left turn lane and approximately 2,000 feet of resurfacing at CR 452 and Goose Prairie Road and the intersection of Felkins Road and CR 452 was reconstructed. The project also included drainage improvements and signing and pavement markings. Additional services included utility and railroad coordination. An Environmental Resource Permit was secured and wildlife survey was performed to identify any protected species.



Offtracking on shoulders will be improved through addition of paved shoulders.

RELEVANT FEATURES

- Roadway Design and Safety Improvements
- Drainage Improvements
- Signing and Pavement Markings Design
- Environmental Resource Permit Acquisition
- Wildlife Survey for Identifying Protected Species
- Utility coordination for the project

Role

Prime

Proposed Team

John Dee, Janey Walls

Work Performed In-House:

Yes

Type/Scope of Services Provided

Widening for the paved shoulders and adding safety edge, guardrail connections, drainage improvements, signing and pavement markings.

Owner's Contact Name and Address/Contact Person and Phone Number

Lake County
George Gadiel, PE
350 N. Sinclair Ave.
Tavares, FL 32778
(352) 253-9092
george.gadiel@lakecountyfl.gov

Project Duration

March 2020-November 2021

Project Completed Within Schedule

Yes

Location of Office Performing Work

Burgess & Niple
1511 North Westshore Boulevard,
Suite 500, Tampa, Florida 33607

11. CR 547 (Davenport Blvd) at North 10th St Intersection Improvements

Polk County | Polk County, Florida

This project provides for intersection improvements along the existing CR 547 (Davenport Boulevard) at North 10th Street intersection in Polk County, Florida.

The existing intersection includes three approaches with only a southern approach via North 10th Street. The intersection is currently controlled in the north-south direction via a stop sign on North 10th Street. The proposed work effort will include a mast arm traffic signal. It is anticipated that traffic volumes on the northbound approach may warrant a northbound right turn lane. A study to obtain traffic volumes and determine whether this northbound right turn lanes is required will be performed. Widening is proposed for the northbound approach for a right turn lane and will require minor earthwork, new asphalt pavement, right of way acquisition, signing and striping, minor drainage design and temporary traffic control measures. This project qualifies for a permit exemption from the Southwest Florida Water Management District (SWFWMD).



Davenport Boulevard

RELEVANT FEATURES

- Roadway Design, Plans Preparation, and Construction Management
- Structures Design for Bridges, Signal and Sign Structures, and Box Culverts
- Plans Review and Expert Witness Services
- Utility Coordination
- Construction Phasing and MOT Plans
- Environmental Permitting

Role

Prime

Proposed Team

John Dee, Eric Olszewski, Janey Walls, David Meadows

Work Performed In-House:

Yes

Type/Scope of Services Provided

Roadway/Traffic Design

Owner's Contact Name and Address/Contact Person and Phone Number

Polk County Board of County Commissioners
William Lorenzo, PE
3000 Sheffield Road, Building 2864
Winter Haven, FL 33830
863-734-6915
WilliamLorenzo@polk-county.net

Project Duration

Ongoing

Project Completed Within Schedule

Ongoing

Location of Office Performing Work

Burgess & Niple
1511 North Westshore Boulevard,
Suite 500
Tampa, Florida 33607

12. Dommerich Hills Sidewalk Improvements - Phases II-IV

City of Maitland | Maitland, Florida

This project was completed under a continuing engineering services contract that has included a diverse array of projects as required by the Maitland Public Works Department on a task work order basis. Individual assignments have included signalization and turn lane improvements, peer review services, water, wastewater and stormwater design, miscellaneous structural design, utility coordination and survey, geotechnical and environmental services. To date, nearly 80 individual task work orders have been issued on this contract. Burgess & Niple has been continuously engaged by the City since 2009 having been renewed frequently and reselected in 2013 and 2018.

This particular project included curb ramp and crossing design, gravity wall details, and traffic control design for both vehicles and pedestrians.



ADA improvements included at driveways along with addition of new sidewalk.

RELEVANT FEATURES

- Comprehensive Transportation Capital Improvement Project
- Intersection Improvements
- Pedestrian Improvements
- Complete Streets Design

Role

Prime

Proposed Team

Janey Walls, John Dee

Work Performed In-House:

Yes

Type/Scope of Services Provided

Roadway Design; Pedestrian Facilities

Owner's Contact Name and Address/Contact Person and Phone Number

Ethan Hand
 City of Maitland
 1827 Fennell St
 Maitland, FL 32751
 O: 407-660-8187
 C: 407-448-2004
 ehand@itsmymaitland.com

Project Duration

June 2023-December 2024

Project Completed Within Schedule

Yes

Location of Office Performing Work

Burgess & Niple
 1511 North Westshore Boulevard,
 Suite 500
 Tampa, Florida 33607

PROJECT APPROACH



BUDGET METHODOLOGY/COST CONTROL

Danny Hendrickson, PE, PTOE, RSP₁ (Project Manager) will ensure that the budget requirements are met through a variety of methods. Monitoring the funds available and spent on a continual basis is required to keep a project within budget. Project budgets will be monitored using our internal Project Gateway accounting system reports. Our staff receives weekly statements showing the hours that have been charged to each assignment, how much has been spent, and what the remaining budget is, in both dollar and hour increments. In addition, as applicable, we will develop construction cost estimates throughout the project life and work with the County to review the construction budget and the goals and objectives of the project to be sure they are comparable.

As part of an overall **Value Engineering approach**, our goal is to help the County make the biggest impact to transportation safety and operations with the limited budget. We do that by being data driven. When comparing alternatives, we perform a benefit/cost analysis that considers the construction & maintenance costs compared with the benefits of reduced delay to the traveling public and reduction in crashes over the life cycle of the improvement. Using this analysis, we can then rank and prioritize improvements to get the best bang for the buck.



QUALITY CONTROL METHODOLOGY

B&N believes that a quality product is the best marketing tool a company could ever utilize. A “fresh eyes” review by experienced professionals is essential to the success of any project and should include checking compliance with regulations/requirements, making sure provisions are made to ensure a high standard of technical project deliverables and reviewing for potential errors and omissions. The goal of Quality Assurance/Quality Control (QA/QC) is to provide project management with a tool to help achieve successful completion of a project. It is not to replace established work practices, rather to supplement them as necessary to provide documentation, traceability and reproducibility.

QA/QC related responsibilities that B&N will provide include:

- Developing and implementing a QA/QC Plan.
- Reviewing and approving project controlling documents.
- Coordinating and monitoring QA/QC Reviews.
- Responding to corrective action requests and assuring that deficiencies are corrected.
- Interfacing with the B&N team and providing a communication link between the team and the client.

QA/QC ROLES & RESPONSIBILITIES

The QA/QC Manager for this contract will be **Angelo Belluccia, PE**. Angelo has more than 36 years of experience performing and reviewing various types of projects for state and municipal governments. As a QA/QC Manager, Angelo will work closely with our staff for effective planning and management of day-to-day QA/QC activities. He will ensure that every task includes a thorough QA/QC review. In addition, he will be responsible for performing a QA review of each project which ensures the project was placed through our QC procedures. Additional responsibilities as QA/QC Manager include:

- Advises project personnel of QA/QC policies and procedures.
- Maintains QA/QC-related files.
- Interfaces with County QA/QC personnel as required.
- Conducts and/or participates in the County and Internal Audits.
- Assures Certifications are provided by all Disciplines and Subconsultants.
- Retains QA/QC files electronically and provides as necessary to County.

CONSTRUCTABILITY/BIDABILITY REVIEWS

As appropriate, **Angelo Belluccia, PE** will also conduct Constructability/Bidability Reviews. His review will only be completed after the QA/QC process mentioned above has been completed. Prior to 90% submittal, this Constructability and Bidability Review will be conducted. The following items would be typically examined:

- Design assumptions and design notes.
- Applicable standards and specifications.
- Accuracy of computations.
- The application of judgement.
- The constructability and bidability of the project.
- Feasibility to meet the County’s and design professional objectives.

The review shall focus on quality, balanced with cost savings.

The Constructability/Bidability Reviewer shall meet the Task Work Order Manager to discuss the findings of the review to assure that the design team addresses areas of the documents needing revision.





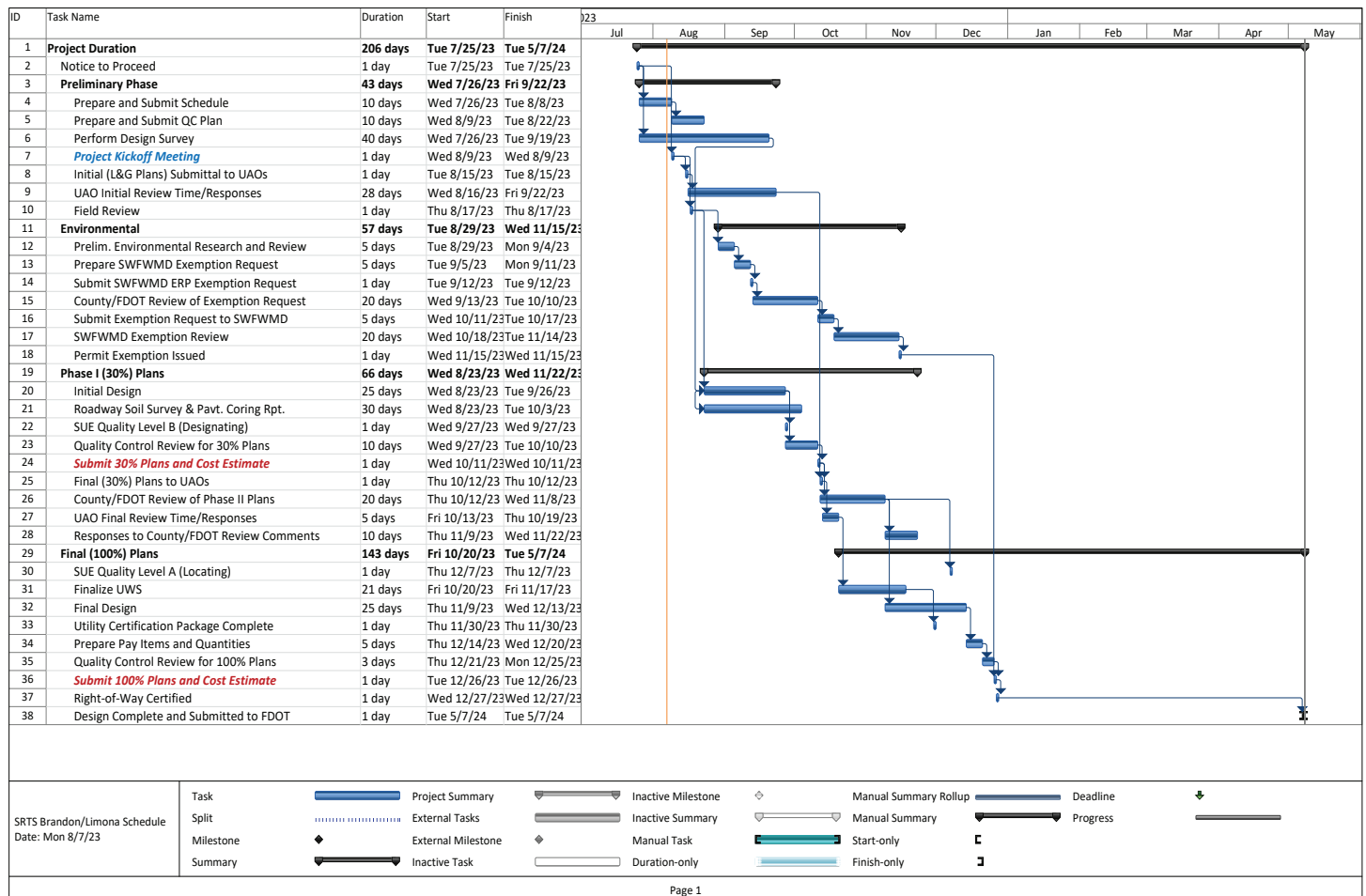
SCHEDULE MAINTENANCE METHODOLOGY

B&N works vigorously with our clients to ensure that their projects are completed when requested. This begins by **prioritizing each portion of the project process and assigning the proper personnel to complete it.** A project schedule will be prepared and will include all required critical tasks, as well as milestone events. In addition, the schedule will provide a working document for our team to monitor the progress during the management of this contract.

During the scoping process, it is important to identify the key tasks that could potentially impact the schedule and define ways to avoid delays and extensive time demands. B&N has instituted many tools on our previous projects to help maintain and/or accelerate a project schedule. Some of the innovative ideas we have implemented on projects to reduce the overall schedule include **reducing the number of phase submittals for signal design projects and accelerating data collection efforts by adding additional resources such as supplying additional traffic data collection crews to complete tasks quicker.** In addition, we have advanced critical path items such as easement acquisition, utility conflicts/relocations and permitting constraints on design projects. B&N's most successful approach to these components is to avoid or minimize impacts whenever possible without compromising the safety or function of an improvement.

REDUCING COSTS & ACCELERATING SCHEDULES

B&N prides itself in our efforts to not only meet our client's budget, but to take it one step further and actually reduce our client's costs and accelerate the schedule while still accomplishing our client's goals. One great example of our ability to perform on work order driven contracts includes B&N's current District Wide Traffic Engineering Studies contract that is being conducted for the Florida Department of Transportation (FDOT) District One. Forty intersection traffic movement counts were requested to be performed during the same week in the City of Arcadia, Florida. To perform this task work order, B&N deployed our data collection team of eight personnel for the entire week and coordinated with all of our subconsultants to make up the remaining counts. In addition, a large quantity (as many as 30) work orders have been assigned during the peak traffic season (January to May). Scheduling personnel in all three phases of work (field, study and Quality Control) is extremely important with clear and accurate scheduling of deliverables.



Example project schedule

Work Coordination

PROXIMITY

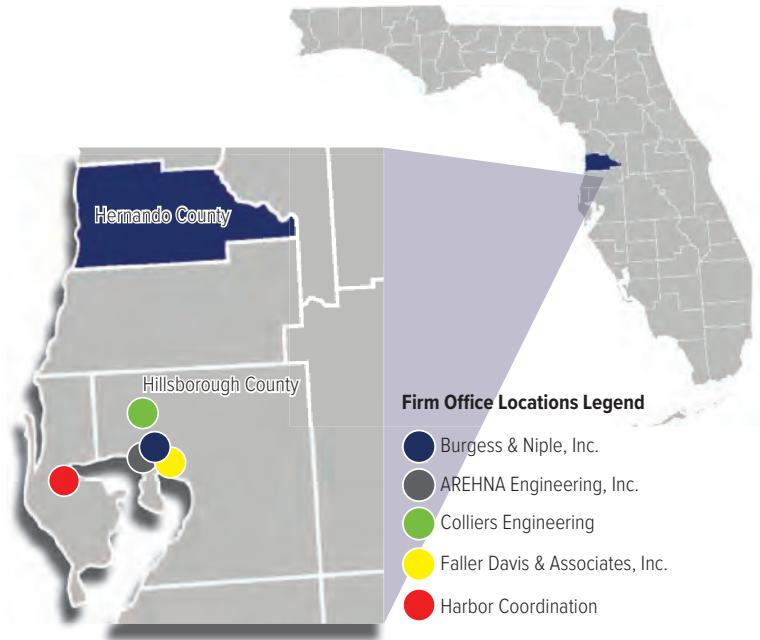
As the Project Manager and the County’s point of contact, Danny Hendrickson, PE, PTOE, RSP₁ will oversee the performance of all work performed by Burgess & Niple and our subconsultants. The table below defines where elements of the project work will be performed and the respective firm performing each element. The drive time from B&N’s Tampa office to Hernando County is approximately 48 minutes (49 miles). All of our proposed subconsultants will be working out of their local offices. Having all team members in a central location will expedite communication throughout the length of the contract.

FIRM’S FAMILIARITY WITH THE PROJECT AREA AND KNOWLEDGE OF LOCAL LABOR AND MATERIAL MARKETS

B&N possess a strong understanding of the local project area and have established relationships with key stakeholders in the County. For instance, during our involvement in previous County projects, we forged connections with local utility agencies such as WREC and the Hernando County Utility Department. In collaboration with WREC, we are actively working to prevent disruptions to their existing overhead electric lines and to install proposed luminaires on the existing utility poles at the SR 50 and Highline Drive intersection. Simultaneously, we are partnering with the County Utilities office on the same project to redirect their force main, ensuring it does not conflict with proposed drainage infrastructure.

These pre-existing relationships are valuable assets that will facilitate our engagement in future County design projects. They enable our team to collaborate closely with local stakeholders and devise innovative solutions that align with the project’s objectives while minimizing adverse impacts.

Furthermore, we are well-versed in the dynamics of the local labor and material markets within the County. Notably, Hernando falls within FDOT Area 7 on the historical cost index, aligning it with other counties of similar size and context. This understanding enhances our ability to navigate and engage effectively in the County’s specific economic and operational landscape.



PROJECT TEAM LOCATION			
Element of Work	Location	Prime or Sub	Key Personnel
Principal-In-Charge	Tampa	Prime	Angelo Belluccia, PE (B&N)
Project Manager	Tampa	Prime	Danny Hendrickson, PE, PTOE, RSP ₁ (B&N)
Traffic & Roadway Design	Orlando	Prime	John Dee, PE (B&N)
Traffic Study & Investigation	Tampa	Prime	Linda Wu, PhD, PE, RSP ₁ (B&N)
Land Use Planning/Grant Writing	Tampa	Prime	Dan Gallagher, AICP (B&N)
Structures	Tampa	Prime	Drew Appler, PE (B&N)
Utility Infrastructure	Tampa	Prime	Mark Atkininstall, PE (B&N)
Drainage	Tampa	Prime	Carl Spirio, PE (B&N)
Traffic & Roadway Design	Tampa	Sub	Nick Spatola, PE, PTOE (FDA)
Survey/Mapping/SUE	Tampa	Sub	Nicholas Fewell, CST (Colliers)
Survey/Mapping/SUE	Tampa	Sub	Wyatt Altman, PSM (Colliers)
Geotech	Tampa	Sub	Jessica McRory, PE (AREHNA)
Geotech	Tampa	Sub	Kirk Eastman, PE (AREHNA)
Utility Coordination	Clearwater	Sub	Jeanna Dean (Harbor)

REQUEST FOR QUALIFICATIONS

**Continuing Traffic
Engineering Services**
County of Hernando

December 4, 2023



City of Sarasota - Ringling Trail Design-Build Project
2023 Project of the Year Award – Transportation Roadways
Design-Build Institute of America (DBIA) Florida Region Awards

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A: PROJECT TEAM

Project Team

TEAM'S QUALIFICATIONS AND EXPERIENCE RELATED TO THE SPECIFIC PROJECT

Burgess & Niple, Inc. (B&N) is extremely excited for the opportunity to continue providing Traffic Engineering Services to Hernando County. Our team's intimate knowledge and experience working on the two previous Continuing Traffic Engineering Services contracts and demonstrated track record of providing high quality services makes the B&N team ideal for this contract. B&N has completed traffic operations, safety, and minor design work orders for Hernando County over the past 10 years and we look forward to continuing to serve you. *Please see resumes starting on page 7 for relevant individual experience.*

With more than 15 years of experience, **Danny Hendrickson, PE, PTOE, RSP₁**, will serve as B&N's Project Manager (PM). Danny has served as a PM or Task Manager on more than 10 different traffic operations Task Work Order (TWO)-based contracts, including the current Hernando County Traffic Engineering Services contract. He is thoroughly familiar with the TWO process and has significant experience with all of the design, study, and other services included in this scope. As part of the current contract, Danny has managed multiple design and study tasks including those listed below.

- Traffic Signal & Turn Lane Design – SR 50 at Highline Drive – On-going
- Fiber Optic Interconnections – Forest Oaks Blvd from US 19 to Deltona Blvd – 2019
- Signal Warrant Analysis – Sunshine Grove Rd at Plumeria Blvd – 2023
- Ayers Rd at Culbreath Rd – Roundabout Analysis – 2023

Danny understands that communication, scheduling and organization are paramount to handling multiple concurrent tasks and will ensure clear and effective coordination with County staff to deliver quality results accurately and on schedule.

Angelo Belluccia, PE, will serve as Principal-in-Charge/Quality Assurance/Quality Control Manager. Angelo has a long and successful history of working with Hernando County on a variety of traffic design and study related tasks. Additionally, Angelo worked closely with County staff to review the Springhill Town Center

Transportation Analysis Comprehensive Plan Amendment. Angelo provides a thorough understanding of policies related to land development, safety and transportation planning and design.

B&N REPEAT BUSINESS

NEARLY

94%

OF OUR BUSINESS IS
FORMER CLIENTS

Spring Hill Town Center, Hernando County, Florida – Hernando County.



B&N represented Hernando County in the transportation impact review of the submitted Comprehensive Plan Amendment and Rezoning. The review centered on transportation methodology, analyses, policy development, and conditions of approval. The Spring Hill Town Center is designated as a Planned Development District (PDD) Land Use Category on the Future Land Use Map. This designation permits a master-planned infill community featuring compact development around a town center comprising a diverse mix of residential, commercial, office, institutional, and recreational land uses.

B&N has created a comprehensive team of seasoned B&N staff and outstanding subconsultants that will work in unison with Hernando County to exceed their expectations. Our unique and interdisciplinary team will meet this contract's objectives by using the best and most accurate data, including population, employment, land use, development, traffic, safety and will advance safe systems and practical design approaches to achieve the community's vision. We will make it our goal to implement creative and context-sensitive planning and design solutions on each task assignment to help improve safety and mobility throughout the County.

Based on the scope of services, we grouped the expected assignments under this contract into the following categories and have provided our experience and technical lead for each. The project organizational chart provides additional details and information on subconsultant support services.

RECENT EXPERIENCE ON PROJECTS AS A TEAM WITH B&N SUBCONSULTANTS

Project	Subconsultant Partners
SR 50 at Highline Drive	Colliers, Harbor
SR 60 (Adamo Dr) at 26th St	Arehna
SR 600 (Hillsborough Ave) at 15th St	Arehna
SR 60 (Kennedy Blvd) from Woodlynne Ave to Brevard Ave	Harbor
FDOT D7 Design-Build Push-Button 3	Colliers, Harbor
SR 50 from Pine Hills Rd to Tampa Ave	Faller Davis
FDOT D5 Traffic Studies & Minor Design	Faller Davis

UNIQUE KNOWLEDGE OF KEY TEAM MEMBERS RELATING TO THE PROJECT AND RELEVANT SUBCONSULTANT EXPERIENCE

› Traffic Design

Danny Hendrickson, PE, PTOE, RSP₁, will lead the PM on this contract and lead traffic design efforts. Danny has been the engineer of record for dozens of traffic signals through the state for local and state agencies. He is an expert on ADA criteria for pedestrian push-buttons and curb ramp design and is acutely aware of the detail required in signalization plans to ensure the push-buttons are accurately located. Danny and the B&N traffic design team have also led an effort by Hillsborough County to update all school zone signs and pavement markings to the latest FDOT Speed Zoning Manual criteria. This involved installing new reduced speed flashing beacons, both ground and overhead mount, at 58 schools. We also performed school circulation studies at several schools to assist in drop-off and pick-up safety and efficiency by increasing storage areas, relocating ingress/ egress areas, and making other operational changes.



B&N can provide five design and three study teams!

› Roadway & Final Design

With 26 years of experience, **John Dee, PE** will lead B&N's roadway and final design team. John has experience working with local agencies throughout Florida and understands their unique needs and priorities. He recently completed plans to convert a signalized intersection from a traffic signal to a roundabout in Polk County and will begin work shortly on the Ayers/Hayman Road at Culbreath Road roundabout with Todd Crosby for Hernando County. John is also working with Hillsborough County on a Safe Routes to School project to provide sidewalks and safer crosswalks using RRFBs and raised intersections around Limona Elementary School. John holds an Advanced MOT certification and has developed both routine and unique Temporary Traffic Control (TTC) plans including detours. He has also prepared construction bid tabs, specifications packages, and performed unbalanced bid reviews for local and state agencies throughout Florida.

› Traffic Studies & Investigations

The County receives numerous traffic service requests from the public varying from requests for stop signs, traffic signals, speeding and/or traffic calming, crosswalks, traffic counts, lighting, and many others. B&N has worked on hundreds of these requests for both local and state agencies, particularly with Hernando and Hillsborough County. We understand some requests can be resolved with a simple field review, documentation of existing conditions and operations, and a brief memo outlining the results and recommendations, if any. Some requests will require more detailed analysis including traffic counts, collision review and analysis, qualitative assessment, and possibly a full signal warrant

analysis (SWA). Our team performed several SWAs as part of our current contract with the County and we are intimately familiar with the warrants as outlined in the Manual on Uniform Traffic Control Devices (MUTCD). We also performed a recent roundabout evaluation at Ayers Rd and Culbreath Rd using a benefit/cost and right of way analysis comparing a traffic signal to a roundabout. We are now beginning the design phase of the roundabout implementation.



B&N's Safety Goals

Our team's goals are in alignment with the Hernando/ Citrus County MPO's goal to reduce fatal and serious injury crashes by 5% per year for all road users. To achieve this goal, our team follows the Safe Systems Approach (SSA) guidance which includes the following framework: **(1)** Serious injuries and deaths are preventable. **(2)** Human life is prioritized. **(3)** Human error is inevitable and roads need to be forgiving. **(4)** Safety is to focus on influencing individual behavior and **(5)** Speed is a basic factor in crash severity. By following the SSA framework, B&N helped Hillsborough County develop a county-specific Multimodal Safety Analysis Methodology that is now included in their Traffic Design Manual (TDM). The methodology combines FHWA, AASHTO, ITE, FDOT and Hillsborough County's unique processes and it requires a thorough assessment of safety conditions for most project development and design projects. This is one of many ways B&N's experience developing tools and procedures reduce serious injuries and fatalities can also be utilized for Hernando County.

› Fiber Optic Interconnect Design & Signal Timing

Faller Davis & Associates (FDA) will be providing traffic signal interconnection and ITS services. FDA is led by **Nick Spatola, PE, PTOE** and has a proven history of successfully completing ITS and signal design projects, and have extensive knowledge of traffic signal controller interfaces, cabinet equipment, and advanced traffic management systems. FDA have designed ITS plans including fiber optic trunk lines, closed circuit television (CCTV) cameras, dynamic message signs (DMS), and microwave vehicle detection systems (MVDS). The team have installed real time traffic monitoring devices that provide real time travel time information allowing for the implementation of real time changes to help mitigate congestion and delays and improve safety.

Hernando County Project Experience:

- Arterial Management Program, Hillsborough, Pasco, and Hernando Counties, FDOT District 7
- District Seven Traffic Signal Retiming Continuing Contract (CA921), FDOT District 7
 - SR 55 (US 19) from Applegate Drive/Pepper Street to Northcliffe Boulevard/Frontage Road, Hernando County
- District-Wide Traffic Signal Retiming (C9A67), FDOT District 7
 - US 19/Commercial Way from Pepper Street/Applegate Drive to SR 50/Cortez Boulevard, Hernando County

› Geotechnical Services

AREHNA Engineering, Inc. will offer geotechnical services led by **Jessica McRory, PE, LEED AP**, and **Kirk Eastman, PE**, who collectively bring over 50 years of geotechnical experience to the team. Jessica and Kirk are well-versed in the geologic conditions of Hernando County and possess extensive experience designing stabilization programs for both pre and post-construction phases. AREHNA specializes in these programs, considering various scenarios. AREHNA's project portfolio encompasses geotechnical engineering and materials testing for diverse developments, including roadway improvements, sidewalks, safety measures, bike and pedestrian enhancements, bridge replacements, complete streets, parks, trails, recreational facilities, and water management projects. AREHNA's work extends to FDOT, FDEP, SWFWMD, as well as other counties and cities throughout the state.

Hernando County Project Experience:

- General Engineering Contract Water & Wastewater
- Corporate Blvd. Suncoast Pkwy.
- Lockhart Pump Station
- David Master Foundation Inspection
- Deltona Blvd. Sidewalk LAP
- Bayou Drive Culvert
- FDEP Weeki Wachee Seawall
- City of Brooksville Pavement
- Kenlake Drainage Retention Areas
- Ruppe Commercial – Drainage Improvements
- Mariner Frontage Road
- Bayou Drive Culvert
- FDEP Weeki Wachee State Park Replacement

› Utility Coordination

Jeanna Dean, from **Harbor Coordination Solutions, Inc.**, will lead the utility coordination services. With over 20 years of experience in utility management coordination, Jeanna brings a wealth of expertise. Harbor Coordination Solutions specializes in providing utility coordination and utility project management support services for both public and private transportation clients.

Hernando County Project Experience:

- Harbor Coordination has collaborated with Hernando County on numerous FDOT projects over the past 23 years.

› Review of 3rd Party Plans & Studies

Burgess & Niple will provide third-party plans and studies review services, led by **Linda Wu, PE, PhD, RSP**, and **John Dee, PE**. Linda will conduct thorough assessments of all developer traffic impact or other transportation studies, focusing specifically on methodology, analyses, policy development, and conditions of approval. John will lead the review for any plans submitted to the County, which he has been doing for Polk County for several years, including the Thompson Nursery Road reconstruction widening project where B&N reviewed Final Plans last month.

Our Team has a thorough knowledge of FDOT standards, AASHTO and FHWA manuals, and most importantly, Hernando County's preferences and standards. In addition, our knowledge continues with an understanding of applicable Florida Statutes and Administrative Codes including definitions (316.003), speed limits (316.183), Hernando County Facility Design Guidelines and Traffic Calming Guidelines, and other Statutes requirements within a municipal road right-of-way

› Survey, Right of Way Mapping, and Subsurface Utility Engineering

Colliers Engineering & Design, Inc. (CED) will spearhead Survey, Right of Way Mapping, and Subsurface Utility Engineering services, with Nicholas Fewell, CST, and Wyatt Altman, PSM, leading these efforts for CED. As a versatile professional services firm, CED specializes in a comprehensive array of offerings, including SUE, GIS, and Survey. Established in 1984, CED has been a steadfast presence in the local area, operating from seven offices with a dedicated team of over 160 employees in Florida. With extensive expertise in SUE and Survey services, CED has played pivotal roles as a prime or lead subconsultant, currently collaborating with Burgess & Niple under contracts with Hernando County. Their influence extends to various other counties, such as Pinellas, Hillsborough, Seminole, Broward, Palm Beach, and Miami-Dade, where they hold multiple FDOT professional services contracts. CED takes pride in delivering a seamlessly integrated turn-key team to the County, ensuring a high-quality client experience through the collaborative efforts of each service line.

Hernando County Project Experience:

- Evergreen & SR 50 Castings, Hernando County, FL. CED provided QL-A and QL-B services in support of roadway design. CED was tasked with locating the ends of casings for a water main, force main and gravity sewer. CED utilized QL-D through QL-A services to successfully locate the end of the casings to verify that their lengths were sufficient for roadway expansion along SR 50 in Hernando County.
- Grace World Church Addition, Brooksville, FL. CED Provided QLA & QLB services associated with expansion of development on the Church campus on an approximately 13.3 acre property. The development consists of an approximate 5,200 SF two-story building addition and an approximate 8,500 SF gathering building area.

TIME COMMITMENT OF KEY STAFF

Burgess & Niple, Inc.	
Danny Hendrickson, PE, PTOE, RSP ₁	70%
Angelo Belluccia, PE	50%
John Dee, PE	50%
Linda Wu, PhD, PE, RSP ₁	65%
Dan Gallagher, AICP	40%
Drew Appler, PE	70%
Mark Atkininstall, PE	65%
Carl Spirio, PE	40%
AREHNA Engineering, Inc.	
Jessica McRory, PE, LEED AP	70%
Kirk M. Eastman, PE	70%
Colliers Engineering	
Nicholas Fewell, CST	50%
Wyatt Altman, PSM	50%
Faller Davis & Associates, Inc.	
Nicholas J. Spatola, PE, PTOE	20%
Harbor Coordination Solutions, Inc.	
Jeanna J. Dean	50%

Per Addendum 1: Names of the principals for all subconsultants being utilized as part of this contract:

- AREHNA Engineering, Inc. - Jessica McRory, PE, LEED AP
- Colliers Engineering - Michael Ehrhart, PSM
- Faller Davis & Associates, Inc. - Nancy Faller Brown, PE
- Harbor Coordination Solutions, Inc. - Jeanna Dean

Your B&N team!



BURGESS & NIPLE**Danny Hendrickson**

PE, PTOE, RSP₁
Project Manager

Total Years of Experience: 15

Years with Current Firm: 10

Education:

BS, Civil Engineering, 2008, University of Florida

Affiliations:

American Society of Civil Engineers (ASCE)

Institute of Transportation Engineers (ITE)

Trainings/Certifications

FDOT Systems Engineering for ITS Workshop,
2012

FDOT Interchange Access Training, 2015

FDOT Designing for Pedestrian Safety Workshop,
2014

FDOT Intermediate Maintenance of Traffic

Registrations:

Professional Engineer-FL, 2013, #76184

BACKGROUND

Mr. Hendrickson specializes in innovative and efficient traffic operations and design. His responsibilities include traffic operations design and simulation, intersection/interchange operational analysis, design for roadway signing and pavement markings, signalization, lighting, data collection, as well as preparing traffic impact and signal warrant studies. He has served as Project Manager on task work order contracts and has completed more than 300 work orders statewide in the past six years. Mr. Hendrickson previously worked at District Seven, specializing in the traffic operations and roadway design. He is proficient in MicroStation, GEOPAK, Visual, Synchro, SIDRA, VISSIM, and HCS 2010.

RELEVANT EXPERIENCE**Hernando County | SR 50 (Cortez Boulevard) at Nightwalker Road and Coastal Boulevard Intersection Operational Studies and Design.**

Project Engineer for intersection operational studies. Responsibilities included performing data collection and analysis to determine optimal intersection lane configuration at the two study intersections along SR 50 (Cortez Boulevard) in Hernando County. Mr. Hendrickson also served as the EOR for signalization and signing and pavement marking plans for the design improvements recommended in the operational study. The design included constructing additional turn lanes, adding sidewalk, and modifications to existing mast arms and ped signals.

Hillsborough County | Traffic Engineering and Road Safety.

Project Manager for this task work order driven contract that includes various safety and operational studies and minor design. Tasks performed include various public request traffic investigations, signal warrant studies, stop sign warrant studies, pedestrian & bicycle safety evaluations, school circulation studies, speed studies, concept and estimate developments, and minor safety and operational designs.

FDOT District 1 | District Wide Traffic Operational Studies, Charlotte, Collier, DeSoto, Glades, Hardee, Hendry, Highlands, Lee, Manatee, Okeechobee, Polk, and Sarasota Counties, FL.

Project Manager/Project Engineer responsible for coordinating and performing intersection delay, speed, leftturn and traffic signal warrant studies along with data collection including approach, turning movements, classifications, and pedestrian counts for state roadways/intersections in the District. Mr. Hendrickson is responsible for coordinating tasks, schedules, and deliverables with client and subconsultants. Over the past four years, 250 tasks have been completed including the following examples:

- 40 intersections along SR 70 in Arcadia in two days – Turning Movement Counts
- SR 600 (US 92) at Fairway Avenue in Polk County – Signal Warrant Analysis
- SR 45 (US 41) at Bispham Road in Sarasota County – Signal Warrant Analysis
- SR 45 (US 41) at 21st Street East in Manatee County – Signal Warrant Analysis

- SR 45 (US 41) at Palmview Road in Manatee County – Signal Warrant Analysis

FDOT District 5 | District Wide Traffic Engineering Studies, Brevard, Flagler, Lake, Marion, Orange, Osceola, Seminole, Sumter, and Volusia Counties, FL. Project Manager for this task work order driven contract that includes conducting traffic operational/safety studies and plans preparation for safety design improvements. Study tasks may include signal warrant analysis or composite study tasks including vehicle, pedestrian and bicycle traffic counts; intersection delay studies; qualitative assessments; left-turn phase warrant analyses; vehicle spot speed studies; collision analyses; intersection inventories; highway lighting justification; and no passing zone studies.

Pasco County | Golden Acres Traffic Calming Study, Pasco County, FL. Project Manager for this task order to conduct a traffic calming study in the residential area of Golden Acres. Residents of the Golden Acres residential neighborhood requested traffic calming measures to slow traffic and deter cut-through driving. Beginning in mid- 2017, Pasco County met with residents, conducted traffic counts, performed increased enforcement, and held a vote to determine if traffic calming measures should be installed. The County retained B&N to conduct a comprehensive traffic calming study of the entire neighborhood. B&N performed speed and volume counts, field inventory, crash analyses, traffic calming research and cost estimates, held public meetings, and provided a summary of both existing conditions and recommendations.

Pinellas County | Gulf Boulevard Pedestrian/Bicycle Safety Study, Pinellas County, FL. Project Manager for three-mile corridor safety study involving ped/bike data collection, field reviews, safety analysis, and cross walk evaluation to determine safe crossing locations for pedestrians and recommendations for improved bicycles facilities throughout the corridor. Also included presentations to the Pinellas bicycle pedestrian advisory committee and other local government city commissions.

Hillsborough County | Engineering Services, Transportation Development and Design, Hillsborough County, FL. Contract involves providing general/civil engineering services to support transportation capital improvements including but not limited to intersection improvements, new signals, traffic signal interconnection, road diets, complete streets, road widening, road resurfacing and reconstruction and bridge rehabilitation and replacement. As the Traffic Engineer, Mr. Hendrickson was responsible for providing traffic design and operational analysis. Tasks Mr. Hendrickson worked on include:

- **Lutz Lake Fern Rd at Heritage Harbor Pkwy.** Preliminary design and engineering study for the intersection as well as signal design as a result of the study's findings.

FDOT District 7 | USB41/SR685/SR60/W Kennedy Blvd, Tampa, FL. Signalization and Signing and Pavement Marking EOR. The FDOT awarded B&N the Kennedy Boulevard Complete Streets project between Woodlynne Avenue and Brevard Avenue. This segment of Kennedy Boulevard connects historic landmarks like the University of Tampa (Tampa Bay Hotel, c. 1891) and the new \$35 million Tampa General Hospital rehabilitation facility to Downtown Tampa and the Hillsborough River. The ongoing urban revitalization along this corridor has spurred the need for more walkable, multi-modal accommodations. B&N will focus on Complete Streets design to address safety, encourage multi-modal usage, and improve connectivity. Recognizing extensive drainage improvements will require the road to be reconstructed, B&N's collaborative relationship with both the City of Tampa and FDOT proved key in guiding the corridor improvements that help the City achieve its "Livable City" vision while addressing FDOT's infrastructure needs.

FDOT District 7 | Traffic Operations Design-Build Push Button Contract 3, Citrus, Hernando, Hillsborough, Pasco, and Pinellas Counties, FL. Project Manager and Engineer-of-Record for multiple minor design tasks including signal reconstruction, signing and pavement markings, and turn-lane modifications. Tasks are completed on accelerated schedules with scopes designed to solve specific safety or operational deficiencies.

FDOT District 7 | District Wide Safety Studies and Minor Design, Citrus, Hernando, Hillsborough, Pasco, and Pinellas Counties, FL. Project Engineer for this task work order driven contract that includes roadside safety measures, lighting justification, intersection improvements, ADA, traffic flow improvements, bike lanes, and sidewalk connectivity – all to reduce the potential for crashes, injuries and fatalities. Additional scope elements include preparing informational/educational materials to provide safety training, providing Roadway Safety Audit (RSA) support, as well as providing Community Traffic Safety Team (CTST)/Local Agency support to assist with identifying municipal Local Agency Program (LAP) projects. In addition, the contract includes a number of independent "study types" encompassing a wide variety of traffic operational tasks including: intersection and signal warrant analyses, vehicle/pedestrian/bicycle traffic counts, corridor safety studies, crash analyses and reports, safety outreach and education, training, safety funding concept development, and minor design.

BURGESS & NIPLE**Angelo Belluccia**

PE

Principal-in-Charge & QA/QC Manager**Total Years of Experience:** 36**Years with Current Firm:** 24**Education:**

BS, Civil Engineering, 1987, University of South Florida

Registrations:

Professional Engineer-FL, 1993, #46548

BACKGROUND

Mr. Belluccia has more than 36 years of experience in the areas of transportation planning and engineering services including traffic design and operational analysis, transportation systems planning, master planning, regional impact analyses, land use planning, project development, safety and context-based applications, corridor studies, and highway design. His project experience spans a broad range of facilities including roadways, land development, airports, rail, and seaports for the public and private sectors. Mr. Belluccia specializes in developing alternative transportation solutions to meet project goals. Throughout his career he has strategically planned and developed solutions for many complex transportation infrastructure and development projects in Florida.

RELEVANT EXPERIENCE**Hernando County | Osowaw Boulevard and Shoal Line Boulevard Sidewalks, Shoulder and Utility Relocation (LAP), Hernando County, FL.**

Principal and Client Manager responsible for providing sidewalks, shoulders and water main relocation construction plans for three Hernando County corridors. As an approved FDOT LAP project, the design was prepared to local standards and was approved following the FDOT LAP process.

Hernando County | SR 50 (Cortez Boulevard) at Nightwalker Road and Coastal Boulevard Intersection Operational Studies and Design.

Principal. This project entails the addition of turn lanes and modifications at one intersection within this corridor. This location shall be widened to accept EB dual left turn lanes from SR 50 to Coastal Boulevard and SB dual left turn lanes from Coastal Boulevard to SR 50 along with a SB through and a right. It is anticipated that roadway modification will be required from SR 50 north to the existing frontage road.

Hernando County | Spring Hill Town Center, Hernando County, FL.

Represented Hernando County for the transportation impact review of the submitted Comprehensive Plan Amendment and Rezoning. The review focused on transportation methodology, analyses, policy development, and conditions of approval. The Spring Hill Town Center is a Planned Development District (PDD) Land Use Category on the Future Land Use Map which allows for a master planned infill community with compact development around a town center containing a compact mixture of residential, commercial, office, institutional and recreational land uses.

Hillsborough County | Engineering Services, Transportation Development and Design, Hillsborough County, FL.

Contract involves providing general/civil engineering services to support transportation capital improvements including but not limited to intersection improvements, new signals, traffic signal interconnection, road diets, complete streets, road widening, road resurfacing and reconstruction and bridge rehabilitation and replacement. Traffic Studies Analyst responsible for Preliminary Engineering Reports (PER) including Benefit Cost Analysis, Synchro analysis, traffic projections, queue length analysis, lighting evaluations, safety analysis and concept development. Efforts included:

- **BUILD Grant Application for I-75/Big Bend Road Interchange, Hillsborough County, Florida – FDOT District Seven.** USDOT grants

\$1.5 billion for projects that will have a significant local and regional impact. Hillsborough County is seeking \$25 million for the construction of I-75/Big Bend Road Interchange Improvements and Big Bend Road widening. The scope includes collecting data and characteristics of the project, conducting benefit-cost-analysis to identify, quantify and compare expected benefits and costs of the project, preparing a narrative to address the evaluation criteria in regard to safety, state of good repair, economic competitiveness, environmental protection, quality of life, innovation, partnership and project readiness.

- **Context Classification Systems.** Completed as three separate tasks, this project included data collection and existing plan review; updates to the typical sections and development of a preliminary context classification database will ultimately improve safety on the County's roads. The assignment included reviewing the preferred typical section for each context and road classification. This included developing appropriate target operating speeds and speed management strategies within the roadway footprint such as lane width, curb/tree separation from the roadway, and other key multi-modal components such as protected bike lanes. This information makes up the new context classification database.

Hillsborough County | Standardization of County Manuals and Specifications (Conducted under the General Engineering Consultant Services Contract), Hillsborough County, FL.

The general scope of this project was to review the different technical manuals and specifications of the Public Works Department (PWD) and the Public Utilities Department (PUD) and provide both guidance on migrating and assistance in creating the procedures, standards and specifications into an internally consistent and standardized format. A total of six technical documents were reviewed and formatted. B&N documented inconsistencies, redundancies, commonalities, and conflicts between each manual and recommended possible solutions for each. In addition, other improvements were suggested and a new preface was created for each document. The scope of services also included creating a uniform procedure for updating all PWD and PUD technical manuals. The procedure had to adhere to current governmental statues and was presented to the public at a public meeting.

FDOT District Seven | SR 693 (Pasadena Avenue) Corridor Study from Shore Drive South to 66th Street, Pinellas County, FL.

Principal/Quality Control Manager for this corridor study that includes conducting an analysis of the travel related problems, needs and issues, as well as developing solutions that support the community defined vision for the future. The scope includes identifying the cause and characteristics of issues relating to capacity, traffic operations, safety, access management, traffic signal timing, intersection lighting, freight movements,

commuter vs. local trips, transit operations, as well as bicycle and pedestrian movements. Both the current and forecasted future travel characteristics and needs will be identified and a Corridor Alternatives and Strategies Report will be prepared to identify a series of goals and objectives to improve the corridor. A road diet, a dedicated Bus Rapid Transit lane, and two roundabout locations are only a few specific improvements that will be analyzed. A range of solutions, both short-term and long-term, will be developed, all with extensive input from area stakeholders throughout the study.

City of Tampa | Busch Boulevard Pedestrian Safety Local Agency Program (LAP) Improvements from Armenia Avenue to Florida Avenue, Hillsborough County, FL.

Principal for a 1.5-mile sidewalk and safety project including improvements along Busch Boulevard from Armenia Avenue to Florida Avenue, sidewalks, ADA upgrades, signalization at North Boulevard, signing and pavement markings, and ITS CCTV cameras. The project was managed under a LAP agreement, funded by FDOT District Seven and managed by the City of Tampa.

FDOT District Seven | SR 618 (Selmon Expressway) Resurfacing, Hillsborough County, FL.

Principal responsible for coordination and Quality Control review of traffic plans and associated tasks. Project included providing signing and pavement markings for 1.72 miles of milling/resurfacing of this facility, from 50th Street to West End of Palm River Bridge. Elements of work included specifications, quantities and cost estimates.

Hillsborough County Public Works | SR 581 (Bruce B. Downs Blvd) Widening from Palm Springs Blvd to Pebble Creek Drive, Hillsborough County, FL.

Engineer of Record for the effort in which B&N provided traffic operations for the \$94 million widening design from Palm Springs Blvd to Pebble Creek Drive. Bruce B. Downs Boulevard is to be widened from four to eight-lanes. As a subconsultant on this Hillsborough County project, work consisted of traffic analysis and design/construction plans for lighting, signing and pavement marking, and signalization for eight signals including ITS/Interconnect plans.

Hillsborough County | Complete Streets Effort for SR 585 (21st/22nd Street) from SR 60 (E.Adamo Drive) to SR 600 (E. Hillsborough Avenue), Hillsborough County, FL.

Project included 3.030 miles of "Complete Streets" improvements including sidewalk widening, lane "diet" (three lanes reduced to two), landscaping improvements, drainage improvements, traffic signal reconstruction, decorative lighting, and signing and pavement marking updates on SR 585 (21st/22nd Street) in Ybor City. Project also included developing plans at 13 intersections along 21st Street and 22nd Street, as well as signal interconnect throughout the project limits.

BURGESS & NIPLE**Linda Wu**PhD, PE, RSP₁**Traffic Study and Investigation/
Traffic Studies Review/Grant
Writing****Total Years of Experience:** 11**Years with Current Firm:** 5**Education:**PhD, Civil Engineering, 2017, University of
Hawaii at ManoaMS, Highway Engineering, 2012, Tongji
University, ChinaBS, Civil Engineering, 2010, Nanjing University of
Aeronautics and Astronautics, China**Professional Organizations:**

American Society of Civil Engineers (ASCE)

Institute of Transportation Engineers (ITE)

Women's Transportation Seminar (WTS)

Registrations:

Professional Engineer-FL, 2022, #94385

Road Safety Professional, 2021, #695

BACKGROUND

Dr. Wu's professional experience includes nearly a decade of transportation and roadway engineering, analysis and studies. She is proficient in Synchro, ArcGIS, TransCAD, MySQL, MATLAB, MicroStation, and Microsoft Office. She recently obtained her *Road Safety Professional Level I* certification. Her responsibilities include assisting with traffic operations design and simulation, intersection operational analysis, design for roadway signing and pavement markings, signalization, data collection, as well as assisting with traffic impact, signal warrant and composite studies

RELEVANT EXPERIENCE**Hernando County | Continuing Traffic Engineering**

Services. Traffic Engineer for various intersection operational studies. Responsibilities include conducting intersection alternative evaluation and benefit cost analysis, signal warrant analysis, multi-way stop control warrant analysis and stop sign evaluation.

Hillsborough County | Traffic Engineering and Road

Safety. Project Engineer for this task work order driven contract that includes various safety and operational studies and minor design. Tasks performed include various public request traffic investigations, signal warrant studies, stop sign warrant studies, pedestrian & bicycle safety evaluations, school circulation studies, speed studies, concept and estimate developments, and minor safety and operational designs.

FDOT District 7 | District Wide Safety Studies and Minor Design, Citrus, Hernando, Hillsborough, Pasco, and Pinellas Counties, FL.

Traffic Studies Analyst for this task work order driven contract that includes roadside safety measures, lighting justification, intersection improvements, ADA, traffic flow improvements, bike lanes, and sidewalk connectivity – all to reduce the potential for crashes, injuries and fatalities. Additional scope elements include preparing informational/educational materials to provide safety training, providing Roadway Safety Audit (RSA) support, as well as providing Community Traffic Safety Team (CTST)/Local Agency support to assist with identifying municipal Local Agency Program (LAP) projects. In addition, the contract includes a number of independent "study types" encompassing a wide variety of traffic operational tasks including: intersection and signal warrant analyses, vehicle/pedestrian/bicycle traffic counts, corridor safety studies, crash analyses and reports, safety outreach and education, training, safety funding concept development, and minor design.

Hillsborough County | Hillsborough County Complete Streets Guidebook.

Project Manager responsible for leading and drafting the guidebook from start to finish.

Hillsborough County | Hillsborough County

Transportation Design Manual. Traffic Safety Specialist responsible for drafting the Safety Analysis Section, Traffic Calming Section and Context Classification Section.

Hillsborough County | Engineering Services, Transportation Development and Design,

Hillsborough County, FL. Contract involves providing general/civil engineering services to support transportation capital improvements including but not limited to intersection improvements, new signals, traffic signal interconnection, road diets, complete streets, road widening, road resurfacing and reconstruction and bridge rehabilitation and replacement. Traffic Studies Analyst responsible for Preliminary Engineering Reports (PER) including Benefit Cost Analysis, Synchro analysis, traffic projections, queue length analysis, lighting evaluations, safety analysis and concept development. Some of the tasks Dr. Wu has worked on include:

- **BUILD Grant Application for I-75/Big Bend Road Interchange.** USDOT grants \$1.5 billion for projects that will have a significant local and regional impact. Hillsborough County is seeking \$25 million for the construction of I-75/Big Bend Road Interchange Improvements and Big Bend Road widening. The scope includes collecting data and characteristics of the project, conducting benefit-cost-analysis to identify, quantify and compare expected benefits and costs of the project, preparing a narrative to address the evaluation criteria in regard to safety, state of good repair, economic competitiveness, environmental protection, quality of life, innovation, partnership and project readiness.
- **Anderson Rd from Linebaugh Ave. to Gunn Hwy.** Resurfacing Improvements outlined in this scope and the Final Preliminary Engineering Report (PER) recommendations for approximately 1.50 centerline miles.
- **Intersection Improvements at North Dale Mabry Highway at Northdale Boulevard and North Lakeview Drive South.** Project Designer responsible for providing minor signalization, lighting, and signing and pavement markings in support of future design for priority intersections identified for improvements in TTF studies/ analyses performed by B&N. Intersections will be improved to increase the flow of traffic through intersections and reduce delay time by providing additional right-turn and left-turn lanes. In addition, intersections will be updated to current design standards and sidewalk and bike lanes will be added to improve flow of pedestrian traffic.
- **Corridor Preservation Plan.** Project Designer for the project, completed as three separate tasks: data collection and existing plan review; updates to the typical sections and development of a preliminary context classification database, will ultimately improve safety on the County's roads. The assignment included reviewing the preferred typical section for each context and road classification. This included developing appropriate target operating speeds and speed management strategies within the roadway

footprint such as lane width, curb/tree separation from the roadway, and other key multi-modal components such as protected bike lanes. This information makes up the new context classification database.

Hillsborough County | Engineering Services, South Coast Greenway Trail Phase 3, Hillsborough County, FL.

Project provides a 12-foot multi-use trail facility between Symmes Road and Big Bend Road in southern Hillsborough County using a context and environmentally sensitive design. The work involves preparing engineering studies to address economic and engineering feasibility of alternative concept trail design, geometrics (inclusive of critical vertical locations), soils, and structures to accommodate an acceptable level of service. After a thorough public involvement and inter-agency coordination process, final trail design was completed.

Pasco County | Golden Acres Traffic Calming Study, Pasco County, FL.

Traffic Studies Analyst for this task order to conduct a traffic calming study in the residential area of Golden Acres. Residents of the Golden Acres residential neighborhood requested traffic calming measures to slow traffic and deter cut-through driving. Beginning in mid- 2017, Pasco County met with residents, conducted traffic counts, performed increased enforcement, and held a vote to determine if traffic calming measures should be installed. The County retained B&N to conduct a comprehensive traffic calming study of the entire neighborhood. B&N performed speed and volume counts, field inventory, crash analyses, traffic calming research and cost estimates, held public meetings, and provided a summary of both existing conditions and recommendations.

Pinellas County | Gulf Boulevard Pedestrian/ Bicycle Safety Study – Pinellas County, FL.

Traffic Studies Analyst for a 5.5-mile corridor safety study involving pedestrian/bike data collection, field reviews, safety analysis, and cross walk evaluation to determine safe crossing locations for pedestrians and recommendations for improved bicycles facilities throughout the corridor. Also included presentations to the Pinellas bicycle pedestrian advisory committee and other local government city commissions.

FDOT District 7 | SR 580/Hillsborough Avenue from Memorial Hwy./Sheldon Rd. to Himes Ave., Hillsborough County, FL.

Traffic Studies Analyst for this safety improvement project which improve median access by lengthening turn lanes, closing median openings and converting some median openings to directional and bi-directional configurations for safety purposes at 17 locations within the project limits. Improvements are based on the "Final Report for the SR580 (Hillsborough Avenue) from Sheldon Road to Himes Avenue Access Safety Study"* dated July 2016.

BURGESS & NIPLE**John Dee**

PE
**Traffic Study and Investigation/
 Traffic and Roadway Design/Design
 Plans Review**

Total Years of Experience: 26

Years with Current Firm: 6

Education:

BS, Civil Engineering, 1996, University of Florida

Registrations:

Professional Engineer-FL, 2003, #60053

BACKGROUND

Mr. Dee has over 24 years of highway design experience on a wide variety of transportation projects including arterial resurfacing, intersection improvement, Complete Streets, and multi-use trail projects. He has extensive knowledge and experience in preparing FDOT specifications packages and certified in Advanced Work Zone Traffic Control. He is proficient in the use of MicroStation and GEOPAK and has served as an in-house resource for FDOT District 5 Design.

RELEVANT EXPERIENCE**Hernando County | Ayers Road at Culbreath Road**

Roundabout Evaluation. As part of B&N's Continuing Traffic Engineering Studies contract, as Project Engineer, Mr. Dee led the concept design for this task that originated from a Signal Warrant Analysis performed by B&N at the study intersection which concluded that the intersection met warrants for signalization. B&N was then tasked with evaluating whether a traffic signal or roundabout was the best option based on vehicular delay, safety, and right of way and other impacts. Conceptual designs were developed for both options showing project footprints and impacts. Synchro and Sidra models were also developed to evaluate traffic operations and predicted crashes were estimated based on Highway Safety Manual methodologies. Finally, based on benefit to cost analyses the roundabout option was recommended.

Polk County | CR 547, Orchid Drive/Holly Hill Road

Intersection Improvements. Project manager responsible for this intersection capacity improvement project as part of a Polk County-wide Professional Services Contract. Under B&N's Continuing Professional Services Contract with Polk County, B&N was tasked with performing an intersection capacity improvement project at CR 547 and Orchid Drive/Holly Hill Road in Davenport, Florida. Prior to design commencement, an Intersection Analysis Summary report was prepared which compared a two-lane modern roundabout with a traditional mast arm signal installation. Following the preparation of the report, final design elements included signalization, auxiliary lane and shoulder widening, driveway construction, drainage improvements, maintenance of traffic, and significant utility coordination in this rapidly growing location. Once design was complete, Polk County's project manager graded the B&N Team on schedule, management, quality, and subconsultants. The B&N team received an overall 4.4/5 on the project design, exceeding expectations in all areas of evaluation with a distinguished performance.

Lake County | CR 452, CR 44 to the Marion County

Line, FL. Project Manager responsible for this safety project. The primary goal of this 9.3-mile safety project in unincorporated Lake County was to mitigate lane-departure related crashes. The two-lane winding corridor was widened with paved shoulders including raised thermoplastic striping and Safety Edges. The Local Agency Program (LAP) funded project included improvements to signalization, lighting, and intersection widening at CR 44. Other construction activities include MOT, excavation/embankment, driveway improvements, signing and pavement markings, and drainage improvements. The intersection improvement of CR 452 and CR 44 includes traffic signal

reconstruction from a diagonal span system to a box span signalized intersection. This includes pull and splice boxes, conduit, electric power service, traffic controller assembly, signal priority and pre-emption system, vehicle detection system, internally illuminated sign and luminaire bracket arms. Gopher tortoise burrows were relocated at four locations.

Lake County | CR 565 (Villa City Road), SR 50 (Broad St) to US 27, Lake County, FL. Project Manager responsible for this lane departure safety project. The 7.1-mile two-lane winding roadway includes widening to 12-foot lanes with 8-foot shoulders (4-foot paved) including safety edge and thermoplastic striping. Additional improvements include flashing beacons, pavement markings, guardrail, and drainage modifications.

FDOT District 2 | SR 202 (J Turner Butler Boulevard) at San Pablo Road, Duval County, FL. Roadway EOR and Deputy Project Manager. This project will convert the existing diamond interchange into a DDI to help ease congestion, improve safety and accommodate future development in Jacksonville, Florida. Bike and pedestrian accommodations will be included with the interchange conversion. Traffic control analysis and design considerations were made to operate the interchange as a DDI during construction to improve efficiency quickly and minimize construction impacts. The proposed work included a Weave Assisted Signal Plan (WASP) signal on the WB ramp to address the weave created by a proposed Mayo Clinic driveway on the ramp. (439467-1)

FDOT District 2 | SR 211 from San Juan Avenue to I-95. Project Manager responsible for the design and management. This resurface, restore and rehabilitate (3R) project is to mill and resurface SR 211 from San Juan Avenue to I-95. This project includes intersection ADA improvements, drainage improvements, signalization, signing and pavement markings, lighting, utility coordination, and maintenance of traffic. (445431-1)

FDOT District 2 | SR 115 (Arlington Expressway) Resurfacing, Duval County, FL. QC Reviewer. The project includes the design and preparation of construction plans and related documents for the resurfacing of 3.5 miles of SR 115 mainline and north and south service roads. The scope of services includes drainage pipe video inspection and associated repairs to address noted deficiencies, bridge repairs to two existing service road structures, minor signalization and lighting improvements and the removal of one eastbound exit ramp to University Boulevard. Project activities have also included coordination with JTA, maintenance of traffic plans and signing and pavement marking plans.

FDOT District 2 | Old Town, Dixie County, FL. Project manager responsible for design of a 1.2-mile multi-

use trail FDOT LAP project in Old Town, Florida. The project, included providing a continuous 10' multi-use trail from Old Town Elementary, past the Dixie County Historical Society building, to the existing Nature Coast trail.

FDOT District 2 | Town of Lacrosse, Alachua County, FL. As Project Manager, Mr. Dee was responsible for 0.33 miles of 5- to 6-foot sidewalk along both the east and west sides of SR 121, an urban two-lane facility marking LaCrosse, Florida. Two public meetings were held, where Mr. Dee served as representative for FDOT District 2. Positive feedback was continually received from the public due to our close coordination. Single-post and guide signs were added throughout the project. Sixty 100-watt LED pedestrian decorative light poles with banner arms were included to support the Town's ambiance. A Town welcome sign and Town hall sign were also designed. Close coordination with the Town of LaCrosse and Alachua County regarding their lighting preferences and their preferred design for the Town signs was crucial to the success of this project. We also coordinated directly with the Town's Mayor for the overall design. We worked closely with District 2 in-house design staff since they were designing an adjacent 6-mile resurfacing project.

FDOT District 2 | SR 26 (Newberry Rd) fr NW 75th St. to NW 69th Terrace, Duval County, FL. Deputy Project Manager and Roadway EOR. This safety improvements project at the SR 26, I-75 interchange includes the design and preparation of construction plans and related documents for various turn-lane, ramp, and signalization upgrades to improve operations and safety of a 0.3-mile segment of SR 26 at the interchange. Scope of services includes adding additional turn lanes, pier protection of I-75 bridge piers, new traffic signal mast arms, interchange ramp widening and drainage and pond design to facilitate an additional through lane on NW 69th Terrace. Project activities also include coordination with Alachua County, MOT plans and signing and pavement marking plans.

FDOT District 2 | Town of Hawthorne, Alachua County, FL. Project Manager responsible for design of an FDOT LAP project through town streets of Hawthorne, Florida. The project included a total distance of 0.70 miles. The intent of the project was to service bicycle traffic from the 7-mile Gainesville/Hawthorne Trail into Hawthorne and connect cyclists to the Town's park. A secondary goal was to calm truck traffic with a design that met the Town's character. The design included milling, resurfacing, minor widening, and sharrow markings. SE 221st Street also included a new serpentine alignment, placed with pavement markings, which allowed for parallel and angled parking spaces. The meandering design helped to promote slower vehicular speeds, specifically for truck traffic.

BURGESS & NIPLE**A. Mark Atkininstall**

PE

Utility Infrastructure Engineer**Total Years of Experience:** 18**Years with Current Firm:** <1**Education:**

MSCE, Civil Engineering, New Jersey Institute of Technology, 2014

BSCE, Civil Engineering, Embry-Riddle Aeronautical University, 2005

Affiliations:

American Society of Civil Engineers (ASCE)

American Water Works Association (AWWA)

Greater Tampa Utility Group (GTUG), Past Chairman

District VII Utilities Liaison Committee, Past Chairman

Florida Utilities Coordinating Committee (FUCC), Secretary

Specialized Training:

Manhole Assessment and Certification Program (MACP)

Pipeline Assessment and Certification Program (PACP)

Lateral Assessment and Certification Program (LACP)

Utility Risk Mitigation for Infrastructure Projects

Registrations:

Professional Engineer-FL #84609, 2018

Professional Engineer-DC #906504, 2011 (inactive)

BACKGROUND

Mr. Atkininstall has 18 years of multi-state experience in project management for Civil Engineering projects including water/wastewater facility design, urban revitalization projects including low-impact development and utility coordination. Mark has worked on several highway design and drainage-related projects across multiple DOT jurisdictions. His relevant experience includes several projects for the Florida Department of Transportation (FDOT), the City of Tampa, and Hillsborough County, along with performing utility coordination (UC) for several major Design-Build projects.

RELEVANT EXPERIENCE

Hernando County | SR 50 (Cortez Boulevard) at Highline Drive/Evergreen Woods Trail Intersection Improvements, Hernando County, FL. Utility Relocation Design EOR. This project involved signalization of the subject intersection, addition of right-turn lanes, intersection lighting, drainage improvements, and the relocation of an 8-inch PVC force main. Mr. Atkininstall also performed constructability reviews and aided with utility conflict mitigation strategies.

Hillsborough County | General Civil Engineering On-Call Services, FL. Senior Utility Coordinator. This contract involves providing as-needed general engineering services to support transportation capital improvement projects including intersection improvements, new signals, traffic signal interconnection, road diets, complete streets, road widening, road resurfacing and reconstruction, and bridge rehabilitation and replacement.

- **Miller Road from Lumsden Road to Railroad Track, FL.** Senior Utility Coordinator
- **Lutz Lake Fern Road from Gunn Highway to Cypress Bridge Drive.** Senior Utility Coordinator
- **24th Street SE from 0.26 miles south of Park Entrance to E College Avenue, FL.** Senior Utility Coordinator
- **East/West Columbus Drive from Dale Mabry Hwy to N 13th Street, FL.** Senior Utility Coordinator
- **Waters Avenue at Florida Mining Boulevard Signal and Intersection Improvements, FL Senior Utility Coordinator and Utility Relocation Design EOR.** This intersection design will implement a traffic signal and pedestrian facilities at the intersection of Waters Avenue and Florida Mining Boulevard, eliminate the full median opening at Thompson Center Waters corporate park to eliminate left-turn crashes and implement westbound dual left-turns at Anderson Road. The structures design for the signal equipment was completed as an advance effort to expediate the acquisition of the structures while the remainder of the design and utility coordination effort is underway. A section of the County's 4-inch force main was impacted by the proposed signal design. Mark was responsible for the design and permitting of the relocated segment.

Hillsborough County | Gibsonton Drive at Fern Hill Drive Intersection Improvements and Signalization (Temporary and New), FL. Utility Coordinator and Utility Relocation Design EOR. This project involved signalization of an intersection along Gibsonton Drive east of I-75 to address an ongoing safety concern related to angle and left-turn crashes. The project included an interim "temporary signal" design to be implemented while the long-term solutions were evaluated and developed through a Preliminary Engineering Report. The improvements include

connectivity to new developments on the north leg of the intersection, consideration of long-term improvements by the Florida Department of Transportation within the limited access right of way, and significant widening and right of way impacts on the northbound approach to the intersection considering ongoing and upcoming development along Fern Hill Drive. Additionally, a custom design vehicle from Ring Power on Fern Hill Drive was utilized to design the intersection and ensure accessibility for this important area stakeholder. Utility relocation design will also be an important component of this project effort.

Hillsborough County | Waters Avenue at Florida Mining Boulevard Signal and Intersection Improvements, FL. Utility Coordinator and Utility Relocation Design EOR. This intersection design will implement a traffic signal and pedestrian facilities at the intersection of Waters Avenue and Florida Mining Boulevard, eliminate the full median opening at Thompson Center Waters corporate park to eliminate left-turn crashes and implement westbound dual left-turns at Anderson Road. The structures design for the signal equipment was completed as an advance effort to expediate the acquisition of the structures while the remainder of the design and utility coordination effort is underway. The initial effort included a traffic analysis report with preferred alternative recommendations and Synchro analysis of the various potential lane configurations on Florida Mining Boulevard with a preferred alternative recommendation which is now under design.

Hillsborough County | Bruce B. Downs Boulevard Corridor Enhancement, FL. Senior Utility Coordinator. This design includes the addition of a 10-foot-wide sidewalk along the east side of the project corridor from USF Pine Drive to E 131st Ave/USF Holly Drive as well as implementation of new, wider sidewalk along the west side of the project corridor. Additionally, the roadway is being milled and resurfaced with the lanes narrowed to provide physically buffered bike lanes utilizing a narrow traffic separator. In addition to speed management, these multimodal corridor enhancements will enhance safety for all users. To provide additional access to transit users and reduce angle and left-turn crashes, traffic signals are being implemented at the intersections of Campus Hill Drive and Richard Silver Way.

Hillsborough County | El Rancho Drive Mobility Improvements, FL. Utility Coordinator. This task involved providing a design package for an approximately 1.3-mile area of 2-lane residential roadway. The signing and pavement marking design designated areas for golf cart access to safely travel on the roadway. In addition, minor sidewalk improvements were also provided as part of the scope of services.

Hillsborough County | Gandy Boulevard from Dale Mabry Highway to Bay Shore Boulevard, FL. Utility Coordinator. This project involved the milling and

resurfacing of an approximately 1-mile area of 4-lane roadway. This project included providing sidewalk and business access improvements and signal retiming to promote operational and pedestrian safety along the high-traffic corridor.

Hillsborough County | N Pebble Beach Boulevard, Mobility Improvements, FL. Utility Coordinator. This task involved providing a design package for the milling and resurfacing of an approximately 1.7-mile area of 2-lane residential roadway. The signing and pavement marking design designated areas for golf cart access to safely travel on the roadway. In addition, minor sidewalk improvements were also provided as part of the scope of services.

Hillsborough County | Lithia Pinecrest Road at Adelaide Avenue / Lithia Ridge Boulevard Intersection Improvements and Signalization, FL. Utility Coordinator. This intersection design will implement traffic signals, pedestrian crosswalks and enhance the safety of an intersection along Lithia Pinecrest Road. Following a traffic analysis effort, a traffic signal was identified as the preferred alternative and the design team identified additional sidewalk connectivity opportunities to the Lithia Ridge neighborhood and worked with County staff and the neighborhood association to identify a preferred location for the sidewalk connection to be incorporated into the design.

Hillsborough County | Hanley Road Intersection Improvement and Signalization Reconstruction, FL. Senior Utility Coordinator and Utility Relocation Design EOR. This intersection design will reconstruct an existing traffic signal with mast arms, adjust crossing locations to maximize visibility of vulnerable roadway users, implement a southbound right-turn lane, and includes various multimodal safety improvements such as the use of flashing yellow arrows and retroreflective backplates. The project effort included traffic analysis to determine a preferred alternative, public meetings, right of way coordination and acquisition and final design. Right of way acquisition is currently ongoing with construction anticipated within the next calendar year. Utility relocation design was also an important component of this project effort.

Hillsborough County | Riverview Drive from S US Hwy 41 to 11227 Riverview Drive, Riverview, FL Utility Coordinator and Utility Relocation Design EOR. This project involves 4.8 miles of milling and resurfacing the existing two-lane, two-way roadway. Riverview Drive involves safety improvements aimed at reducing the number of crashes along the corridor, improving pedestrian safety with enhanced cross walks, added sidewalk connections, extending cross drains outside of the clear zone and eliminating/shielding roadside hazards from traffic. Utility relocation design will be prepared for three culvert crossings for impacted asbestos concrete water mains owned by Hillsborough County.

BURGESS & NIPLE**Carl Spurio**

PE, CPM

Drainage Engineer**Total Years of Experience:** 35**Years with Current Firm:** <1**Education:**

BS, Civil Engineering, 1987, University of South Florida

Registrations:

Professional Engineer-FL, 1994, #47649

Professional Organizations:

Board Member for the Florida Stormwater Association (FSA)

Member of American Water Resources Association (AWRA)

Friend of the AASHTO Technical Committee on Hydrology and Hydraulics (TCHH) and

Friend of TRB AKD 50 – Standing Committee on Hydrology, Hydraulics and Stormwater

Certified Public Manager (CPM), September, 2018, from Florida State University.

Board of Directors for the Stormwater Management Academy at the University of Central Florida (2018-2020).

Awards:

Highway Engineering Award, FDOT, 2014, for advances in stormwater management solutions.

Prudential Productivity Award, 2017, For innovation, dedication and commitment to excellence. Award is sponsored by Prudential, Florida Tax Watch and the State of Florida.

Research Projects:

NCHRP Project 18-20 Engineer's Design Guidance for Cured in Place Pipe (CIPP) Liners.

NCHRP Project 24-50 Re-write of the AASHTO Drainage Design Manual.

BACKGROUND

Mr. Spurio's expertise in drainage and environmental permitting spans more than 35 years in the public and private sectors. Carl was responsible for developing Drainage Policy and Procedures for the Florida Department of Transportation (FDOT). He brings extensive design experience in integrated stormwater management and watershed planning, drainage conveyance, bridge hydraulics modelling, scour design, coastal protection, watershed and flood plain modelling, stormwater/environmental permitting and site-civil/transportation design. His wealth of knowledge allows us to provide our clients with a diverse range of services at the highest level of experience. Likewise, Carl has developed numerous industry relationships through national conferences, workshops, and committee membership.

RELEVANT EXPERIENCE**FDOT District 1 | SR 35 (US 98) Design-Build from North of Socrum Loop Rd. to South of CR 54, Polk County, FL.**

Quality Control Lead. The FDOT District One SR 35 (US 98) from North of Socrum Loop Road to South of CR 54-Polk County Design-Build Project will reconstruct the existing two-lane, two-way facility into a four-lane divided roadway with suburban and rural characteristics within the project limits. Project design has begun and will include the addition of multilane roundabouts at Big Cypress Boulevard and SR 471 as well as a signalized intersection at US 98 and Rock Ridge Road. This project will also include the construction of shared-use paths, wildlife crossings, U-turn loons, bridge culverts and multiple stormwater management facilities.

Collier County | Lake Trafford Road Regional Stormwater Treatment Facility and Roadway Safety Improvements, Immokalee, FL.

Project Manager/Lead Drainage Engineer. Leading all design and permitting efforts to develop a new regional stormwater treatment facility to manage runoff from 450-acres of residential and commercial area on the west side of Immokalee. Similarly, the project requires safety upgrades for pedestrians and motorists along Lake Trafford Road, which is a two-lane rural roadway. The purpose of this project is to improve the overall water quality of the stormwater runoff discharging to Lake Trafford, which is an impaired waterbody. Therefore, two separate stormwater ponds, including the new regional pond, will add new controls to enhance water quality and provide beneficial flood control within this portion of the Lake Trafford watershed. Additionally, the roadway typical section will be modified to remove the existing sidewalk adjacent to the edge of pavement and create a new designated pedestrian/bike pathway at the right-of-way limits to promote add safety to all user of this section of roadway. All permitting will be coordinated through Collier County, South Florida Water Management District (SFWMD) and the Army Corps of Engineers (USACE), as it pertains to the overall project design.

State Drainage Engineer for FDOT, Tallahassee, Florida.

Responsible for all drainage Policies and Procedures for State and Interstate roadways throughout Florida. Developed legislation for drainage and environmental permitting. Coordinated research projects to explore and identify design strategies and materials that are more efficient and cost effective for the State of Florida. Responsible for developing more thoughtful

and efficient strategies for stormwater management. This effort required a lot of stakeholder engagement with other State Agencies and Local Municipalities to identify the watershed issues related to water resources and environmental restoration and the potential for partnerships to manage these and other needs on a regional basis. As a result, a new process has been developed by FDOT, to ensure drainage designers identify and explore all possible regional opportunities, which potentially provide multiple solutions to “real” watershed concerns. Worked with the Central Office Construction staff to address policy and procedures for Design/Build projects and developed specific design considerations for these types of projects within the FDOT Drainage Manual. Additionally, a lot of coordination with the Florida Department of Environmental Protection (FDEP) and Water Management Districts (WMDs) was solicited to gain support for this watershed approach. Overall, the intent of this new approach was to ensure the watershed needs were evaluated prior to locating and designing costly offsite stormwater ponds on private property.

FDOT District 2 | SR A1A Trail in St. Johns County, Lake City, FL. Served as the lead drainage engineer for this Trail Project between Marineland and the Matanzas Inlet Bridge in St. Johns County, Florida. Assisted with the development of the Feasibility Study to evaluate the existing site conditions and design parameters required to construct a 12-ft. wide Multi-use Trail along this relocated portion of SR A1A. The entire project limits are within the tidal floodplain of the Atlantic Ocean and several sections of the roadway have been inundated by tropical storms along the east coast of Florida. Therefore, the Feasibility Study evaluated features related to roadway safety, environmental impacts and coastal resiliency and sustainability to support in the selection of the preferred alignment for the pedestrian facility. Other influences include the Coastal Construction Control Line (CCCL), critical species habitat and essential utility services throughout the limits of the project. Ultimately, a majority of the Trail was located along the west side of SR A1A to minimize the environmental impacts identified along the eastern side of SR A1A. This alignment would also lessen the risk of damage from extreme tropics storms that have damaged the dune systems that have been constructed to protect SR A1A.

FDOT District 7 | District 7 Bridge Scour Maintenance Contract | Tampa, Florida. Project Manager. Served as Project Manager to both coordinate and perform Bridge Scour Evaluations for all bridges over water within the five (5) Counties included as part of District 7. This work included inter-disciplinary teams consisting of Geologists, Bridge Engineers, Maintenance Staff, Bridge Inspectors, Drainage Engineers and others to thoroughly assess and evaluate the structures ability to withstand channel bed scouring. This work included site assessments, bridge hydraulic modeling, along with structural and geotechnical analysis to

better understand the scour vulnerability of existing waterway bridges. Additionally, scour counter-measure designs were developed to armor existing channel beds and minimize the potential for bridge damage and possible structural fatigue as related to scour. All work was performed in accordance with the Federal Highway Administration’s rating system as part of the National Bridge Inventory Program.

Central Office, 2018 - While serving as the State Drainage Engineer at FDOT in Tallahassee, Mr. Spirio provided guidance and advisory services to FDOT’s Legal Consul for a Design/Build roadway project to reconstruct the I-75 and Florida Turnpike interchange in Wildwood, Florida. During construction, the Contractor was finalizing the environmental permit through the Southwest Florida Water Management District (SWFWMD), in order to obtain the necessary permits for construction. Consequently, SWFWMD recently completed a partial study for the downstream watershed that suggested the floodplain elevations were as much as four (4)-feet higher than the FEMA defined floodplain elevations for Lake Panasoffkee. Therefore, the Legal Office requested support to review SWFWMD’s claims and provide guidance on how FDOT should respond to this request, which would require additional design time and potentially result in construction delays. Ultimately, Mr. Spirio provided a significant amount of guidance in support of the negotiations to resolve this matter with SWFWMD and prevent two (2) State Agencies from going to court against each other.

Central Office, 2019 - While serving as the State Drainage Engineer at FDOT in Tallahassee, I assisted in a lawsuit against the FDOT related to offsite flooding to a Church camp. The Church’s suit was claiming that the FDOT (District 2) design did not properly account for the conditions within a lake on their property that served as the outfall from the S.R. 20 widening project near Hawthorne, Florida. The Church hired an independent Engineer to serve as their expert in the lawsuit. Therefore, my role was to review the permitted drainage design and address the concerns expressed by the Church’s Engineer. Similarly, I worked with the FDOT staff to inform them of my findings and presented my thoughts on how the FDOT Legal team should proceed in this matter. I did not have to provide a Deposition, but I was prepared to serve as the FDOT Expert Witness and defend the design that was permitted through St. Johns River Water Management District (SJRWMD). Ultimately, the Church rescinded their lawsuit based on the work I assisted with in preparation for trial and instead, FDOT made a few minor modifications to the original design based on my recommendations to our Legal Consul’s Office.

BURGESS & NIPLÉ**Drew Appler**

PE

Structures Engineer**Total Years of Experience:** 15**Years with Current Firm:** 3**Education:**

BS, Civil Engineering, 2008, University of South Florida

Affiliations:

American Society of Civil Engineers

American Concrete Institute

American Institute of Steel Construction

Registrations:

Professional Engineer-FL, 2013, #76076

Professional Engineer-TX, 2018, #130761

Professional Engineer-NC, 2021, #052917

Professional Engineer-AR, 2022, #21005

Professional Engineer-LA, 2023, #0047675

Professional Engineer-OK, 2022, #33183

Professional Engineer-MT, 2023, #87702

Professional Engineer-MS, 2023, #34035

BACKGROUND

With more than 15 years of experience, Mr. Appler is an expert in the areas of structural engineering, bridge inspection, bridge rehabilitation and load ratings. Mr. Appler provides inspection services for various types of bridges and other structures on Florida Department of Transportation (FDOT) contracts. He has experience with American Association of State Highway and Transportation Officials (AASHTO) and FDOT design standards and manuals, as well as Federal Highway Administration (FHWA) and FDOT structures inspection manuals.

RELEVANT EXPERIENCE**Hillsborough County | Engineering Services, Transportation Development and Design, Hillsborough County, FL.**

Contract involves providing general/civil engineering services to support transportation capital improvements including but not limited to intersection improvements, new signals, traffic signal interconnection, road diets, complete streets, road widening, road resurfacing and reconstruction and bridge rehabilitation and replacement. As the Structural Engineer, Mr. Appler was responsible for providing structural design and exiting structural analysis.

- **Hillsborough School Zone Crossings** - Preliminary design and engineering and final plans for 15 school zone crossings including multiple signal designs and custom spread footer designs.

Hillsborough County, Florida | Bridge Rehabilitation and Guardrail Repair Improvements.

As Project Manager, Mr. Appler was responsible for initial scoping and project coordination between all sub consultants for this GEC style project. Projects included; Bridge Assessment reports, Bridge Feasibility studies, structural inspections of non-qualifying structures and scour countermeasure designs.

FDOT District 7 | SR 585 (21st/22nd Street) “Complete Streets” from SR 60 (East Adamo Drive) to SR 600 (East Hillsborough Avenue), Hillsborough County, FL.

Miscellaneous Structures EOR. Project included 3.030 miles of “Complete Streets” improvements including sidewalk widening, lane “diet” (three lanes reduced to two), landscaping improvements, drainage improvements, traffic signal reconstruction, decorative lighting, and signing and pavement marking updates on SR 585 (21st/22nd Street) in Ybor City. Project also included developing plans at 13 intersections along 21st Street and 22nd Street, as well as signal interconnect throughout the project limits. Mr. Appler provided the miscellaneous structures support for the analysis and design of new traffic signal mast arms.

FDOT District 7 | District Wide Engineering Services, Structures Maintenance Office.

As Deputy Project Manager, Mr. Appler was responsible for project management including project evaluation, scoping and fee creation, coordination between all disciplines of the rehabilitation project including, local municipalities and public involvement. This project was a contract that included various repair and rehabilitation projects such as: steel and concrete cleaning and coating,

pile jacket and cathodic protection, scour countermeasures, spall and crack repairs, and movable bridge steel repairs and mechanical/electrical upgrades.

FDOT District 7 | BR 150606 Rehabilitation

Design. Mr. Appler was the Structures Project Manager and Engineer of Record, and was responsible for steel beam bridge repair. This project contained the repair and rehabilitation of Bridge No. 150606. Repairs included; Steel Beam Bearing repairs and coating of deteriorated steel beams.

FDOT District 5 | General Engineering Consulting (GEC) Services - Multiple Bridge Rehabilitation Design, Sumter County.

Mr. Appler was responsible for all aspects of this rehabilitation project, that included coordination with utilities, drainage, county PM and inspection staff. Project types included milling and resurfacing, construction inspection, drainage and permitting, structural design, safety assessments, guardrail design and inspection, Preliminary Engineering Studies (PES), bridge inspection, lighting, and storm water design.

FDOT District 7 | Waste Facility DMS Sign Design Design, Pinellas County.

Mr. Appler is responsible for initial scoping and project coordination between all entities of the project. The Pinellas County Waste Facility required a DMS sign to be installed to denote which lanes were opened and closed. Improvements include associated roadway and drainage improvements, and the installation of a DMS span sign structure.

FDOT District 1 | Bridge PCA Letter and Investigation Design, Cape Coral, FL.

Mr. Appler served as the Project Manager and Engineer of Record for the additional investigation of the City's inventory of transversely post-tensioned pre-stressed slab unit bridge. The City had received a number of Prompt Corrective Action letters from their qualifying structures stating that additional investigation and repairs were required. Sixty-five qualifying and non-qualifying structures were inspected and the City received a break down of their bridges that required additional repairs or investigation.

FDOT District 7 | Scour Counter Measure Design Pinellas County, FL.

Mr. Appler served as the Structural Engineer for this Project Development and Environment Study. Proposed improvements include widening the existing four-lane arterial, intersection improvements and consideration of a one-way pair system for a portion of the study limits. The study length is approximately 10 miles. The potential expansion of this US 41/SR 45 segment is part of a greater effort to expand US 41 in Hillsborough County to provide additional north-south capacity alternatives to Interstate I-75. U.S. Coast Guard (USCG) approval may be required for any proposed replacement of the Little Manatee River Bridge.

FDOT District 7 | District Wide Engineering Services, Structures Maintenance Office

As Deputy Project Manager, Mr. Appler was responsible for project management including project evaluation, scoping and fee creation, coordination between all disciplines of the rehabilitation project including, local municipalities and public involvement. This project was a contract that included various repair and rehabilitation projects such as: steel and concrete cleaning and coating, pile jacket and cathodic protection, scour countermeasures, spall and crack repairs, and movable bridge steel repairs and mechanical/electrical upgrades.

FDOT District 7 | Design Build I-275 from SR 60 (Memorial Highway) to the Hillsborough River.

As Post-Design Structural Project Manager, Mr. Appler's responsibilities included plans production and structure design, as well as managing structures post-design, field changes and shop drawing review.

FDOT District 7 | District Wide Bridge Repair Design.

Mr. Appler served as Assistant Project Engineer on this task work order contract. Mr. Appler's responsibilities included performing structural repair design and rehabilitation analysis, load rating of culverts, pre-stressed beams bridges, and post-tension segmental boxes. All elements were load rated on this contract. This rehabilitation contract has included bridges of varying sizes and complexity, from box culvert extensions to a three mile (4.9-kilometer) post-tensioned concrete beam bridge over Tampa Bay.

FDOT District 7 | I-4 Lee Roy Selmon Expressway Interchange.

Mr. Appler managed the quantities production and rebar table calculations, as well as plans coordination between multiple disciplines for the four elevated Florida Bulb-T ramps.

FDOT District 7 | US 41 (SR 45) from Hillsborough/Manatee County Line to 12th Street NE.

Mr. Appler served as the Structural Engineer for this Project Development and Environment Study. Proposed improvements include widening the existing four-lane arterial, intersection improvements and consideration of a one-way pair system for a portion of the study limits. The study length is approximately 10 miles. The potential expansion of this US 41/SR 45 segment is part of a greater effort to expand US 41 in Hillsborough County to provide additional north-south capacity alternatives to Interstate I-75. U.S. Coast Guard (USCG) approval may be required for any proposed replacement of the Little Manatee River Bridge.

BURGESS & NIPLE



Dan Gallagher

AICP

Land Use Planner

Total Years of Experience: 31

Years with Current Firm: 2.5

Education:

BA, Political Science, 1990, University of South Florida

MS, Urban and Regional Planning-Transportation Planning, 1992, Florida State University

Registrations:

American Institute of Certified Planners
#012854, 1997

Key Skills:

- Community Engagement that fosters consensus
- Walk and Talk Facilitation
- Coordination with Elected Officials, Task Forces and Stakeholders
- Community consensus building
- Land Use and Transportation Planning
- Grant Writing and Grant Administration

BACKGROUND

Mr. Gallagher has over 30 years of experience working for the City of Charlotte and the City of Orlando planning, implementing and advancing a wide array of transportation projects. Mr. Gallagher served as the Deputy Director for Charlotte DOT and the Transportation Planning Bureau Chief for the City of Orlando. He is passionate about advancing **complete street projects and shaping cities to foster economic development, transportation choices for all residents, transportation equity, and livable communities.**

RELEVANT EXPERIENCE

FDOT District 5, Safety Strategic Plan (2023)

Dan is the Project Manager for the Florida Department of Transportation District 5 Office of Safety's (OOS) Safety Strategic Plan (SSP). The SSP will advance safety and Target Zero efforts in District 5 by considering data in tandem with behavior, align internal and external partner efforts, and remove barriers to advancing safety. The project involves a focus on transportation disadvantaged populations, increasing empathy and equity for all transportation users and recognizing the diversity of communities within District 5. Dan is responsible for leading the project, interviewing and engaging a diverse array of stakeholders, fostering community conversations about transportation safety and advancing the project on budget and on schedule.

Cross Charlotte Trail | City of Charlotte

As the Charlotte Transportation Planning Manager, Dan led a team that planned, designed and implemented the approximately \$100M 30-mile bicycle and pedestrian trail. This project links Uptown Charlotte to over 100,000 jobs and over 120,000 residents within a quarter mile of the trail. The project required significant **community engagement and outreach** focused on connecting a wide array of **diverse neighborhoods** with **safe and equitable transportation options.**

West Boulevard Corridor Study | City of Charlotte

Dan led a team of engineers and planners to conduct **community engagement and community walking tours** to assess how the West Boulevard corridor could be improved to make it easier and safer for pedestrians and transit users to cross this busy 4-lane undivided roadway. The corridor is an NCDOT roadway and Charlotte worked with the state to implement 3 hybrid beacon signals and 2 additional signals to foster safer and more comfortable street crossings for all residents. This project is located in a **historically disadvantaged African American neighborhood** with high concentrations of **transit-dependent residents.**

Lithia Pinecrest Road PD&E (2023-2024) | Hillsborough County

Mr. Gallagher is currently serving as the Deputy Project Manager for this extensive 6.2 mile PD&E complete streets project in Hillsborough County. This \$3.3M PD&E is assessing existing and future conditions. The project is considering existing and future conditions as well as identifying existing and emerging nodes and redevelopment/infill opportunities for the future.

Northeast Corridor Infrastructure (NECI) Program (2018) | City of Charlotte

Transportation Planning Manager tasked with coordinating with project teams and consultant teams to develop a \$100M array of pedestrian, bicycle and street connection projects to facilitate travel to/from light rail transit stations. The collection of projects are currently under construction and will facilitate travel and economic development synergy close to the light rail stations.

Parkwood Avenue Road Diet and Protected Bikeways (2018) | City of Charlotte

Mr. Gallagher led a team of engineers and planners to assess a major road diet along Parkwood Avenue in Charlotte, NC. After careful study, analysis and community coordination, the City of Charlotte is now implementing a significant road diet along Parkwood Avenue to moderate travel speeds, provide protected bicycle lanes and improve non-motorized travel to and from the Cross Charlotte Trail and light rail station areas.

Matheson Avenue Bridge Complete Street (under construction) | City of Charlotte

Mr. Gallagher worked with the project team to design and advance a complete street transformation of the existing Matheson Avenue bridge to comfortably accommodate pedestrians and bicyclists with a buffered sidewalk and protected bikeway. The project is a key connection for the Cross Charlotte Trail.

Uptown CycleLink | City of Charlotte

Mr. Gallagher helped lead a team of consultants and staff to advance Charlotte's first protected bicycle lane through the heart of Uptown Charlotte. The Uptown CycleLink provides a protected bikeway linking the Cross Charlotte Trail through Uptown Charlotte to the Irwin Creek Greenway. This critical link connects Charlotte's largest job center (Uptown Charlotte) to an expansive greenway network, housing, transit and retail land uses.

Other Relevant Projects:

- City of Gainesville 13th Street Corridor PD&E
- FDOT D5 - Safety Central Newsletter
- FDOT D5 - Before/After safety studies
- 25+ Road Diets (Charlotte and Orlando)
- Uptown CycleLink (Charlotte)
- Transit projects including Light Rail, Streetcar, Commuter Rail and bus transit
- Transportation Action Plan (Charlotte)
- Urban Street Design Guidelines (Charlotte)
- Managing comprehensive plans and elements (Charlotte and Orlando)

South Boulevard and South Tryon Street Corridor Studies (2018) | City of Charlotte

When Charlotte opened the first leg of light rail, development soon followed along the light rail station areas. This development resulted in two major arterials that were no longer compatible with the transit-oriented development along those corridors. Mr. Gallagher helped lead a team to assess these corridors and identify a series of improved bicycle and pedestrian mid-block crossing signals that have now been implemented. The project required close collaboration with NCDOT, adjacent stakeholders and residents.

I-85 North Bridge (2018) | City of Charlotte

Mr. Gallagher served on The North Bridge planning team. The North Bridge over I-85 is in Charlotte's northeast corridor and will provide connectivity across I-85, linking residential, retail and educational uses in University City on the east side of the interstate to the employment center of the University Research Park on the west side. This signature bridge will foster automobile, pedestrian and bicycle travel between the University and the Research Park and connect directly to a light rail station. The project will enhance transportation and economic development opportunities around the University and the Research Park.

Jessica McRory, PE, LEED AP

SENIOR GEOTECHNICAL ENGINEER



Contact Information

813.944.3464
jmcory@arehna.com

5012 W. Lemon Street
Tampa, Florida 33609

Licenses

Professional Engineer
Florida Registration No. 68440, 2008
LEED Accredited Professional

Experience

20 years total
14 years at AREHNA

Education

Master of Science, Civil Engineering,
Geotechnical Concentration
University of South Florida, 2004

Bachelor of Science, Civil Engineering
University of South Florida, 2003

Career Summary

Ms. McRory has managed the geotechnical aspects of testing, design and construction for over a thousand engineering projects over the last 20 years. Her involvement has included analysis and evaluation of soil conditions pertaining to new construction design, as well as ongoing construction projects. Project experience has ranged from task order contracts to large FDOT projects. Other responsibilities have included coordinating geotechnical field and laboratory testing, as well as construction materials testing services. Evaluations have included soil and groundwater conditions, determining soil bearing capacity and consolidation characteristics and analyzing the performance of various types of foundation systems. Ms. McRory has provided recommendations for shallow foundations, various ground improvement techniques and deep foundation systems including driven piles, drilled shafts and augercast piles.

Project Experience

Deltona Boulevard Sidewalks from Elgin Boulevard to SR 50 (Cortez Boulevard) Off-System (LAP), Hernando County, Florida AREHNA provides geotechnical engineering services on an as-needed basis for this project which consists of designing approximately 2,700 ft. of a five (5)-foot wide sidewalk on the west side of Deltona Boulevard (from Elgin Blvd. to SR50/Cortez Blvd.). Ms. McRory serves as the Geotechnical Engineer for this project.

Hernando County Engineering Services for Infrastructure Projects Water, Wastewater and Reclaimed Water, Hernando County, Florida AREHNA provides geotechnical engineering services for this contract consisting of water and wastewater infrastructure projects, pipeline and pumping stations, and water treatment plants. Ms. McRory serves as the Principal Engineer providing project oversight, field and laboratory coordination, design and site recommendation and geotechnical analysis.

Weeki Wachee Spring State Park – Seawall and Pond, Spring Hill, Hernando County, Florida The purpose of our geotechnical study was to obtain information on the general subsurface conditions for the proposed construction of a new seawall, two retention ponds, and four boardwalks and provide geotechnical parameters for use in design of an anchored sheet pile wall that would be acceptable to compensate for the shallow embedment depth.

Professional Services for Engineering Services, Transportation Development and Design, Hillsborough County, Florida Ms. McRory serves as the geotechnical Contract Manager and Task Manager on this Hillsborough County contract that supports multiple consultants for transportation improvement projects.

Subsurface Testing & Inspection Contract - Prime Contract, Hillsborough County, Florida AREHNA provided geotechnical engineering and construction oversight services under this continuing services contract. Projects have included multiple County sites for Hardened Maintenance Facilities and support of other County developments. Geotechnical explorations are performed to obtain information on the general subsurface conditions of the proposed structures, stormwater facilities and parking lots. Ms. McRory served as the Senior Geotechnical and Contract Manager.

City of Tampa Design Services – Continuing, Tampa, Florida AREHNA provides geotechnical engineering services on this task-order contract. Projects have included roadway and intersection improvements, drainage and stormwater improvements, milling and resurfacing. Ms. McRory serves as a Senior Geotechnical Engineer and Contract Manager for this task-order contract.

Pavement Engineering Contract, Hillsborough County, Florida AREHNA serves as the Prime Consultant for this professional services task order contract consisting of 14 major roadways throughout the county. Scope includes pavement engineering, subsurface investigation, full depth reclamation (FDR) sampling and mix design, pavement design, evaluation of existing bridge pilings, box culverts and seawalls and construction engineering and inspection (CE&I). Ms. McRory serves as the project manager for this contract.

SBE/WMBE/DBE ▪ ACOE/AASHTO/FDOT Certified Lab

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Jessica A. McRory, PE, LEED AP

District-Wide Materials & Testing CEI Support Continuing Services Contract, District One & Seven, Florida AREHNA serves as the Prime Consultant on this task-order contract. Ms. McRory ensures adequate available resources for the field exploration programs including soil borings, and pavement coring, as well as construction materials testing. Services included pavement data collection, design of structure foundations and soil surveys for intersection improvement, resurfacing, widening and bridge projects.

Miscellaneous Professional Services for Stormwater Management, Transportation & Bridge Improvement Services, St. Petersburg, Florida Ms. McRory served as the Project Manager for geotechnical engineering services on multiple transportation, bridge replacements and seawall rehab and replacement projects under this task order contract. Services included drilling and laboratory testing, engineering analysis and reporting. Ms. McRory was responsible for assisting with coordination and performing quality oversight for the project.

Professional Miscellaneous Geotechnical and Materials Testing Services, Hillsborough County, Florida Ms. McRory served as a Project Engineer and was responsible for the geotechnical and construction materials testing aspects of this continuing services contract. She performed geotechnical analysis and prepared recommendations for foundations, storm water improvements, pavements and site preparation, for a variety of projects from infrastructure improvements to new building facilities.

Continuing Professional Services for Pasco County Utilities (Public Infrastructure), Pasco County, Florida Ms. McRory supports this Capital Improvement Program (CIP) contract and other programs related to water, wastewater, reclaimed water, and solid waste systems for the Utilities department, Public Infrastructure Branch.

City of Tampa Downtown Road & Infrastructure Improvements, Tampa, Florida AREHNA provided geotechnical services for roadwork and infrastructure improvements to include new utilities' installation, tie-ins, new curbing and sidewalk restoration. Ms. McRory coordinated the geotechnical investigation, oversaw quality control, and provided recommendations.

Transportation and General Engineering Contract, Pinellas County, Florida AREHNA provided geotechnical engineering and construction oversight services under this continuing services contract. Projects have included multiple County sites for roadway improvement, public parks and trails, including pedestrian bridges. Projects have included support for bridge, roadway and drainage design. Ms. McRory serves as the Project Manager for geotechnical services under this contract.

City of Pinellas Park Geotechnical & Materials Testing, Pinellas Park, Florida AREHNA serves as the Prime Consultant on this task order is contract. Projects under this contract include water and waste water facilities, power plants, high voltage power lines, roadways, traffic signal poles, stormwater facilities and other City owned buildings and facilities. Ms. McRory serves as the Project Manager.

City of Tarpon Springs Geotechnical & Construction Materials Testing Services Contract, Tarpon Springs, Florida AREHNA serves as the Prime Consultant on this Professional Services Engineering task order contract and provides on an as-needed basis Geotechnical Engineering Services to include soil exploration, geotechnical exploration testing, roadway materials testing, foundations studies, construction materials sampling testing and reporting, pavement evaluation and reporting.

Access Management Safety Studies Continuing Contract, District Seven, Florida AREHNA serves as the geotechnical consultant on this access management contract. Project tasks are anticipated to include roadway and intersection design, engineering and studies, ITS and traffic signal improvements, analysis and evaluations, and pedestrian safety improvements. Ms. McRory serves as a Senior Geotechnical Engineer and Contract Manager for this task-order contract.

St. Petersburg Roadway Improvements, St. Petersburg Florida Ms. McRory's responsibilities included coordinating with the client to define the required scope and assisted with initial planning of this project. Scope: Boring program to provide soil parameters at each location for use in foundation design. A thorough Maintenance of Traffic package was prepared to safely divert traffic. Due to the urban setting and the presence of multiple underground and overhead utilities, utility coordination and permitting were extensive. The project consisted of roadway improvements along 1st and 2nd Street in St Petersburg, Florida, including the installation of new mast arms at 14 locations.

Utilities Continuing Professional Engineering Services, Pinellas County, Florida Ms. McRory serves as the Contract Manager and supports multiple consultant contracts on this task-order contract on an as-needed basis providing geotechnical engineering services. Projects include water supply and treatment; transmission, distribution and collection pipe networks; wastewater treatment facilities; utility relocations; wastewater pumping systems; hydraulic system network modeling.

City of Tampa Lower Peninsula Stormwater Improvements Project – Southeast Region Design-Build, Tampa, Florida This project consists of the utility construction and/or relocation of box culverts, pipes, interconnections through a stormwater pond and outfall to Hillsborough Bay. Ms. McRory's responsibilities include geotechnical scope development, cost estimation, boring layout and utility coordination, geotechnical analysis, and reporting.





Kirk M. Eastman, PE

SENIOR GEOTECHNICAL ENGINEER



Contact Information

813.944.3464
keastman@arehna.com
5012 W. Lemon Street
Tampa, Florida 33609

Licenses

Professional Engineer
Florida Registration No. 50733, 1996

Experience

30 years total
4.5 years at AREHNA

Education

Master of Science, Civil Engineering,
Structures & Foundations Engineering
University of Central Florida, 1992

Bachelor of Science, Aeronautical
Engineering
Embry-Riddle Aeronautical University,
1989

Career Summary

Mr. Eastman has 30 years of experience in the field of geotechnical engineering. He has managed multiple FDOT District Wide Contracts for Districts 1 and 7 over a 27-year period. He has also served as Project Manager for multiple major projects (Design-Build and Design-Bid-Build). His experience includes roadway, bridge, pond and retaining wall projects where he has performed shallow and deep foundation analyses including driven piles, settlement and slope stability analyses. He has also worked on vibration monitoring projects and performed numerous ground subsidence studies.

Project Experience

I-75 (SR 93) from Pasco/Hernando/County Line to South of US98, Hernando County, Florida The project consisted of widening 5 miles of I-75 from a 4-lane to 6-lane facility. The project also included miscellaneous structures consisting of box culverts, box culvert extensions and jack and bore drainage structures. Mr. Eastman served as the Senior Geotechnical Engineer on the project and was responsible for the geotechnical exploration program, supervising the geotechnical testing program, soil classifications, settlement and bearing capacity analyses, providing geotechnical engineering recommendations and report preparation.

Engineering Services for Infrastructure Projects Water, Wastewater and Reclaimed Water, Hernando County, Florida AREHNA supports this contract on an as-needed basis which consist of the design for new and renovated water and wastewater infrastructure, pipeline and sewage pumping stations, forcemain, water treatment plants and related structures.

Access Management Safety Studies Continuing Contract, District Seven, Florida AREHNA serves as the geotechnical consultant for this task workorder contract on an as-needed basis. Project tasks include roadway and intersection design, engineering, and studies, ITS and traffic signal improvements, analysis and evaluations, and pedestrian safety improvements. Mr. Eastman serves as a Senior Geotechnical Engineer on this contract.

Miscellaneous Improvements - Traffic Ops Design Studies Continuing Contract, District Seven, Florida AREHNA provides geotechnical engineering services for this task-order contract which include studies, design and preparation of roadway construction on State Highways, County Roads and City Streets within the five counties of District Seven. Mr. Eastman responsibilities include project oversight, quality control and analyses and recommendations.

Waterfront District, Channelside Complete Streets Design, Tampa, Florida AREHNA provided Geotechnical Engineering support to Stantec for the downtown Tampa Infrastructure Improvements. Services included utility coordination, borings layout, drilling

and soil testing at various intersections in the Waterfront District Channelside area. Mr. Eastman served as the Geotechnical Engineer responsible for project oversight, quality control, coordination for the geotechnical services for field exploration, pavement cores, roadway soil survey, laboratory testing and geotechnical analysis.

Transportation Engineering Technical Review and Manuals Update Services, Hillsborough County, Florida AREHNA provides professional engineering services for review of transportation engineering technical documents related to any analyses, studies, and/or projects that support the development of the Hillsborough County infrastructure. Mr. Eastman serves as a Senior Geotechnical Engineer on this contract.

District-Wide Geotechnical and Materials Testing, Districts One and Seven, Florida Scope of work has included pavement coring and geotechnical support of in-house design projects. Mr. Eastman was responsible for geotechnical exploration and laboratory testing, soil classifications, geotechnical engineering recommendations and report preparation.

SBE/WMBE/DBE ▪ ACOE/AASHTO/FDOT Certified Lab

www.arehna.com

Kirk M. Eastman, P.E.

Subsurface Testing & Inspection Contract, Hillsborough County, Florida AREHNA provides geotechnical engineering and materials testing services on this continuing services contract. Mr. Eastman serves as the Senior Geotechnical Engineer providing project oversight, geotechnical engineering recommendation and report preparation, as well as QA reviews for the contract.

Miscellaneous Professional Services for Stormwater Management, Transportation & Bridge Improvement Services (CIP), Pinellas County, Florida AREHNA has performed geotechnical engineering services on multiple transportation and bridge replacement projects under this task order contract. Mr. Eastman served as the Senior Geotechnical Engineer responsible for drilling and laboratory testing, engineering analysis and reporting. Projects include Philippe Park Pedestrian Bridge Replacement, 62nd Avenue Intersection Improvements, and 42nd Avenue Sidewalk and Drainage and Sand Key Park Pavement Improvements.

City of St. Petersburg Geotechnical Engineering Contract, St. Petersburg, Florida The work included a variety of transportation and utility replacement projects. Mr. Eastman coordinated and oversaw field, drilling and laboratory testing programs and performed engineering analysis and reporting.

El Prado Complete Streets & Sidewalk Design, Tampa, Florida AREHNA supports this project on an as-needed basis providing geotechnical engineering services on this design project consisting of roadway improvements to accommodate bicycle lanes, 5-foot sidewalk to enhance safety, and create a multi-modal facility. Mr. Eastman's responsibilities include project oversight, quality control, coordination for the field exploration, pavement cores, roadway soil survey, laboratory testing and geotechnical analysis.

THEA Design Build Safety Improvements, Hillsborough County, Florida The project consisted of safety improvements to add wider inside paved shoulders to provide refuge for disabled vehicles and a corridor for emergency vehicles. Mr. Eastman served as the Project Engineer responsible for project oversight, quality control, coordination for the geotechnical services which include field exploration, pavement cores, roadway soil survey, laboratory testing and geotechnical analysis.

Florida's Turnpike Enterprise, SR589/SR54 Operational Ramp Improvements, Pasco County, District Seven, Florida Mr. Eastman served as Geotechnical EOR for this ramp improvement project that included support elements for additional lanes, drainage, new mast arms, CCTV and overhead signage.

I-275 Design Build from SR60 to Himes Avenue, Hillsborough County, Florida The project consisted of improvements to the I-275 corridor including 10 bridges, ramps, underpass structures and associated retaining wall structures. Mr. Eastman served as the Senior Geotechnical Engineer on the project and was responsible for the geotechnical exploration program, supervising the geotechnical testing program, soil classifications, settlement, axial pile capacity and slope stability analyses, providing geotechnical engineering recommendations and report preparation.

I-4/Lee Roy Selmon Expressway Interchange North of 7th Avenue, Hillsborough County, Florida The project consisted of constructing a connector between I-4 and the Lee Roy Selmon Expressway and included six bridge structures, MSE walls, ponds and 3,800 feet of roadway. As the Senior Geotechnical Engineer managing the project, Mr. Eastman was responsible for coordinating the subsurface exploration program including SPT soil borings, hand auger borings, muck probing, field permeability tests, reviewing soil samples, assigning laboratory tests, reviewing test results, providing geotechnical engineering recommendations and preparing all geotechnical reports.

City of St. Petersburg Miscellaneous Professional Services for Stormwater Management, Transportation & Bridge Improvement Services, St. Petersburg, Florida Mr. Eastman serves as the Senior Geotechnical Engineer for geotechnical engineering services on multiple transportation and bridge replacement projects under this task order contract. Services included drilling and laboratory testing, engineering analysis and reporting.

Capital Improvement Program - Bridge Replacement Projects, Hillsborough County, Florida The project consists of the replacement of the existing bridge with three 11 feet by 4 feet box culverts. The new bridge structure will include two eleven-foot wide travel lanes with 1.3 foot wide shoulders, sidewalks protected by concrete barrier walls, and two lane undivided rural section with 7-foot wide shoulders. Mr. Eastman provided geotechnical engineering services, recommendations and report preparations.

Roadways, Drainage, Structural, Civil and Traffic Engineering Capital Improvement Program (CIP), Pinellas County, Florida This project consists of improvements and replacement of the existing bridge over Booker Creek in St. Petersburg, and associated roadway improvements. Mr. Eastman serves as the Senior Geotechnical Engineer responsible for project oversight, quality control and providing analyses and recommendations for bridge foundations and roadway construction.

Miscellaneous Improvements - Traffic Ops Design Studies Continuing Contract, District Seven, Florida AREHNA provides geotechnical engineering services for this task-order contract which include studies, design and preparation of roadway construction on State Highways, County Roads and City Streets within the five counties of District Seven. Mr. Eastman responsibilities include project oversight, quality control and analyses and recommendations.





Nicholas Fewell, CST

Deputy Project Manager | Subsurface Utility Lead

Mr. Fewell has over 8 years of field and management experience. He is one of CED's lead SUE managers, responsible for leading designating and locating crews to successful completion of assignments. His responsibilities include assisting project managers, serving as client liaison, communicating with utility owners, contacting state "One-Call" systems, and ensuring compliance with all CED safety and subsurface utility engineering operations.

As a subsurface utility engineering investigator, Mr. Fewell has worked on various project assignments for numerous departments of transportation and other clients such as FDOT, GDOT, LaDOTD, TxDOT, DUKE Energy, Mosaic, Florida Power & Light, TECO Electric, TECO Peoples Gas, Kinder Morgan, Florida Gas Transmission, various state and local governments/municipalities, various contractors, DOD, and Marine and Airport Authorities.

Education

Geomatics Certificate,
University of Florida, in
progress

BA, University of South
Florida, 2021

AA, Hillsborough Community
College, 2011

Professional Certifications

CCS

OSHA 10 Hr Certification

PowerSafe (Duke Energy)

IMOT

First Aid/CPR

Key Projects

Evergreen & SR 50 Casings, Hernando County, FL

CED provided QL-A and QL-B services in support of roadway design. CED was tasked with locating the ends of casings for a water main, force main and gravity sewer. CED utilized QL-D through QL-A services to successfully locate the end of the casings to verify that their lengths were sufficient for roadway expansion along SR 50 in Hernando County.

Grace World Church Addition, Brooksville, FL

Provided QLA & QLB services associated with expansion of development on the Church campus on an approximately 13.3 acre property. The development consists of an approximate 5,200 SF two-story building addition and an approximate 8,500 SF gathering building area.

Confidential Energy Client Master Services Survey Contract, Various Counties, FL

CED has successfully located gas pipelines, in multiple locations, that TECO locators determined were unlocatable. CED used survey-grade data to update TECO People's Gas GIS system for multiple projects to enable future accurate locates. CED used as-built records, historical aeriels, utility designation, test holes and air lance probing to locate undetectable high priority gas mains. CED was also able to repair the tracer wire in some instances to allow ease for future locates.

District Wide SUE Designate, Locate and Coordination, FDOT District 1, Districtwide, FL

Manage task work orders to provide Quality Level A and B subsurface utility investigations. Quality Level A involves the use of the use of nondestructive digging equipment at critical points to determine the precise horizontal and vertical position of underground utilities, as well as the type, size, condition, material, and other characteristics. Quality Level B involves the use of surface geophysical techniques to determine the existence and horizontal position of underground utilities.

Reclaimed Water Transmission Main Design, Braden River, FL

Provided designating (CI/ASCE 38-02 Quality Level B) and locating (CI/ASCE 38-02 Quality Level A) subsurface utility engineering and supporting survey

Nicholas Fewell, CST

services to map the underground utilities within the project limits to support design efforts for the reclaimed water transmission.

SRQ International Airport Culvert and Utilities Exploration, Sarasota, FL

Provided subsurface utility engineering in accordance with (CI/ASCE 38-02 Quality Levels A and B) and supporting survey services to map the horizontal and vertical position of existing underground utilities in support of the design and construction of all taxiways, runway and drainage improvements. CED used the results of the forensic exploration to provide remediation recommendations for the issues (i.e. depressions) caused by the existing stormwater pipeline. Careful coordination between the SUE team, geophysical team, and geotechnical team were critical to provide a seamless deliverable to the airport that accurately depicted the locations of utilities, all subsurface anomalies indicated by the GPR, and the results of the physical that were used to correlate the GPR results. In addition, the entire program had to be performed at night within an accelerated timeframe, to avoid disturbing the functioning airport.

SR 429 Widening from West Rd to SR 414, Central Florida Expressway Authority, FL

CED is currently underway on this 4.4-mile design project as the lead for all Survey and Subsurface Utility Engineering on this contract. This scope includes project control, Right of Way, and full topographic design survey to support widening of the mainline and eight (8) bridges for increased capacity and safety improvements. Mr. Fewell is the lead for all subsurface utility engineering services for this contract.

RSW Airport Taxiway/Runway Rehabilitation, Lee County, FL

Provided subsurface utility engineering in accordance with (CI/ASCE 38-02 Quality Levels A and B) and supporting survey services to map the horizontal and vertical position of existing underground utilities in support of the design and construction of all taxiways, runway and drainage improvements.

Push Button Design-Build Contract, FDOT District 7, Districtwide FL

Currently under contract with WSP USA and Cone & Graham to support various design and construction projects for the FDOT including lighting, signing, and traffic signalization throughout District 7. Duties include providing all survey-related services in the design phase as task orders are released. To meet the demands of this contract, LiDAR scanning is being utilized to accelerate survey data collection and eliminate subsequent visits to the project sites. This data is used to create FDOT compliant design survey files in MicroStation and assist the design team to help ensure the success of the engineer and contractor.

MoPac (S.R. 1 Roadway Improvement Project, TxDOT

Provided utility designating (CI/ASCE 38-02 Quality Level B) and locating (CI/ASCE 38-02 Quality Level A) subsurface utility engineering and supporting survey services to map the underground utilities within the project limits to support roadway improvement design efforts.

Confidential Energy Client Master Services Survey Contract, Various Counties, FL

Provided survey and subsurface utility engineering services to support design and construction at various client facilities



Wyatt Altman, PSM

Senior Surveyor | Survey | Right of Way (ROW) Services Lead

Mr. Altman is an experienced Survey Project Manager with extensive and diversified expertise that includes digital imaging and mapping, geodesy, GIS, GPS, photogrammetry, land tenure and cadastral studies, LiDAR, and remote sensing techniques. He has performed hydrographic, ALTA, full topographic, and boundary surveys; sub-surface utility locating; and construction layout. He also has expertise performing data processing using AutoCAD, CAice, Trimble Business Center, GeoPAK and Starnet.

Education

BS, Geomatics, University of Florida, 2009

Professional Registrations

Professional Surveyor & Mapper (PSM), FL

Technical Skills

ArcGIS v10

ArcPad v10

TopoDOT

TBC

LGO

Cyclone

AutoCAD

MicroStation

StarNet

Key Projects

District Wide SUE Designate, Locate and Coordination, FDOT District 1, Districtwide, FL

Performed task work orders to provide Quality Level A and B subsurface utility investigations. Quality Level A involves the use of the use of nondestructive digging equipment at critical points to determine the precise horizontal and vertical position of underground utilities, as well as the type, size, condition, material, and other characteristics. Quality Level B involves the use of surface geophysical techniques to determine the existence and horizontal position of underground utilities.

Hillsborough Transportation Design and General Engineering Services, Hillsborough County, FL

CED was awarded a county wide contract with Hillsborough county for continuing service for survey support. This contract has provided 2 tasks. Task 1 we provided a topographic and SUE survey for the intersection of Durant Road and Miller road. Under task 2 we provided topographic and SUE survey for the intersection of CR 579 and Old Hillsborough road.

SR 694 Gandy Boulevard, FDOT District 7, FDOT District 7, Pasco County, FL

Survey Crew Chief providing Mobile LiDAR services and post-processed and delivered data for this design-build contract, which consisted of road widening, sidewalk design, and signal redesign for seven miles of SR 54. Responsibilities included utilizing Mobile LiDAR, Static LiDAR, and Aerial LiDAR to create standard FDOT compliant deliverables. TopoDOT was used to extract 3D break lines, features, and ground points for creation of a detailed DTM and standard 2 planimetric files. This information was also combined with conventional boots on the ground survey data and existing information provided by the FDOT from earlier surveys in order to completely cover the corridor width. This investigation found about 70% of the corridor needed to be resurveyed, a process that was completed in a timely matter by leveraging the LiDAR technology.

SR 519 from I-95 to North of SR 520, FDOT District 5, Pinellas County, FL

Managed the data collection for the location of the entire storm water network in only two days which would have taken twice the time using conventional survey techniques. Analyzed the data for proper flow and missing structures further saving time in the field for the main topographic survey. Project consisted of a design survey for the SR 694/Gandy Blvd. from West of I- 275 to East of 4th street to redesign the intersection of Gandy Blvd, Roosevelt Blvd and 4th St., as well as Gandy Blvd and 9th Street. Team delivered design files for planametrics, 3D DTM files, and storm water locations. The storm sewer infrastructure in this project was complex due to the

Wyatt Altman, PSM

coastland elevations to determine storm water flows. Team implemented Trimble RTK GPS with integrated GIS libraries to quickly map the storm structures, decipher flow direction, and collect pertinent attribute data prior to conventional location.

SR 54 Design-Build Survey Services, FDOT District 7, Pasco County, FL

Survey Crew Chief providing Mobile LiDAR services and post-processed and delivered data for this design-build contract, which consisted of road widening, sidewalk design, and signal redesign for seven miles of SR 54. Responsibilities included utilizing Mobile LiDAR, Static LiDAR, and Aerial LiDAR to create standard FDOT compliant deliverables. TopoDOT was used to extract 3D break lines, features, and ground points for creation of a detailed DTM and standard 2 planimetric files. This information was also combined with conventional boots on the ground survey data and existing information provided by the FDOT from earlier surveys in order to completely cover the corridor width. This investigation found about 70% of the corridor needed to be resurveyed, a process that was completed in a timely matter by leveraging the LiDAR technology.

SR 694 Gandy Boulevard, FDOT District 7, St. Petersburg, Pinellas County, FL

Managed the data collection for the location of the entire storm water network in only two days which would have taken twice the time using conventional survey techniques. Analyzed the data for proper flow and missing structures further saving time in the field for the main topographic survey. Attribute data such as inverts, pipe type, pipe size and direction were then used as a QC tool to create the final storm water deliverable. Project consisted of a design survey for the SR 694/Gandy Blvd. from West of Interstate 275 to East of 4th street for the purpose of redesigning the intersection of Gandy Blvd, Roosevelt Blvd and 4th St., as well as Gandy Blvd and 9th Street. Team delivered design files for planametrics, 3D DTM files, and storm water location files. The storm sewer infrastructure within this project was complex and due to the coastland elevations, confusing to determine storm water flows. Team implemented Trimble RTK GPS with integrated GIS libraries to quickly map the storm structures, decipher flow direction, and collect pertinent attribute data prior to conventional location.

SR 528 from Narcoossee Road to 1.3 Miles east of International Corporate Park Boulevard, Orlando, FL

Survey Crew Chief & CADD Technician for mobile scanning of seven (7) miles of a major arterial roadway in the metro Orlando area. Performed topographic survey data collection using terrestrial mobile LiDAR scanning and assisted in the development of digital planimetric drawings.

Gateway Expressway Design Build, FDOT District 7, Pinellas County, FL

Awarded to the Archer Western-de Moya JV team in the summer of 2017, this design-build project is changing the existing roadway system in Pinellas County in order to enhance safety, add capacity, and improve mobility by creating two new four-lane elevated tolled roadways. With approximately 90 miles of roadway affected by this construction, fast and accurate survey data collection was paramount to the design process. Colliers Engineering & Design supported BCC Engineering on this project by providing mobile LiDAR collection for the entire proposed corridor and design survey file creation to produce topography and a digital terrain model over the entire project limits.

SR 417 Widening from Landstar to Boggy Creek, Central Florida Expressway Authority (CFX), Orange County, FL

CED acted as a subconsultant to Horizon Engineering Group, Inc. in support of the design of highway widening and various other improvements along SR 417 from Landstar Blvd to Boggy Creek Rd. The survey scope of work included planimetric mapping and digital terrain modeling of the entire project corridor, from Right of Way to Right of Way for over four miles of highway and cross streets. Colliers Engineering & Design provided underground utility designates and locates, Mobile LiDAR, and UAS LiDAR, which were used to locate and document existing ground features along the roadway. Areas not visible for LiDAR collection, such as drainage ditches and wooded areas, were collected conventionally by RTK GPS or Total station. The resulting datasets were merged to create a highly detailed and comprehensive final design survey deliverable. Mr. Altman managed and coordinated field activities and survey data processing.



FALLER, DAVIS & ASSOCIATES, Inc.
HIGHWAY ENGINEERING SPECIALISTS
DESIGN | ENVIRONMENTAL | OPERATIONS



NICHOLAS J. SPATOLA, PE, PTOE
Project Manager
Traffic Engineer

FDOT Standard Job Class

- Senior Engineer 1
- Project Manager 1

Years of Experience

- 16 years total; 16 years with FDA

Professional Licenses

- Professional Engineer, FL, #76103, 2013

Certifications/Special Training

- Professional Traffic Operations Engineer (PTOE)
- IMSA Level II Traffic Signal Technician

Education

- BSCE, University of Central Florida, 2008

Affiliations

- International Municipal Signal Association (IMSA)
- Institute of Transportation Engineers (ITE)
- ITS Florida

INTRODUCTION

Mr. Spatola is experienced in ITS, signal design, signing and pavement marking design, lighting design, signal retiming, traffic modeling, and traffic operational/safety studies. His safety studies experience includes signal warrant analysis, intersection analysis, qualitative assessments, lighting justification reports, lighting analysis reports, access management studies, left turn phase warrants, and pedestrian studies. His computer skills include ArcGIS, HCS, SIDRA, Synchro, SimTraffic, Tru-Traffic, GTT On-site, and AGI32. He has experience with the following Advanced Traffic Management System platforms: ATMS.now, CENTRACS, MaxView, CLMATs, and TACTICS. He has worked with Intelight, McCain, Trafficware, Eagle/Siemens, Econolite, McCain, and Peek traffic signal controllers.

PROJECT EXPERIENCE

SIGNAL RETIMING

- District-Wide TSM&O Continuing Services Contract for Traffic Operations (NTP 2006), FDOT District 5
 - US 1 from Lytle Street to Washington Street, Volusia County
 - SR 5A from Herbert Street to Big Tree Road, Volusia County
 - US 27/441 from SE Baseline Road to SE 92nd Place Road, Marion County
 - US 17/92/441 from Hunter's Creek Boulevard to Central Florida Parkway, Orange County
 - SR 552/Curry Ford Road from SR 15/Conway Road to SR 551/Goldenrod Road, Orange County
- CSC: Traffic Signal Timing (C9M92), FDOT District 1 - Mr. Spatola serves as the Project Manager and Engineer of Record.
 - SR 70/53rd Avenue E from 5th Street W to Lakewood Ranch Boulevard Fine Tuning, Manatee County
 - SR 45/US 41 from Neopolitan Way/Granada Boulevard to Commercial Drive Fine Tuning, Collier County
 - SR 72 from Sarasota Pavillion Entrance to I-75 NB Ramps Fine Tuning, Sarasota County
 - SR 45/US 41 from Pelican Bay Boulevard N to CR 846/111th Avenue N/Immokalee Road Signal System Retiming, Collier County
 - SR 25/US 27 from Flare Road to Sebring Parkway Implementation and Fine Tuning, Highlands County
 - SR 45/US 41 Business from 21st Avenue W to 8th Avenue W Traffic Signal System Timing, Manatee County
 - SR 25/US 27 from Eagle Ridge Mall Entrance to SR 540/Waverly Road Signal System Retiming, Polk County
 - SR 655/Recker Highway from Spirit Lake Road to CR 542/K-Ville Avenue Signal System Retiming, Polk County
 - Annual Report (Summarizing Benefit/Cost and Performance Measures)
 - SR 80/Hickpochee Avenue from Main Street to Lee Street Signal System Retiming, Hendry County
 - US 17 Northbound from Carlton Road to Oak Street and US 17 Southbound from Oak Street to Carlton Road Signal System Retiming, Hardee County
 - Socrum Loop Road from SR 33 to I-4 Westbound Off Ramps Signal System Retiming, Polk County
 - SR 25/US 27 from CR 634A/Flare Road to Sebring Parkway/Schumacher Road Operational Review, Highlands County
 - SR 758 from Honore Avenue to Cattlemen Road Timing Revisions, Sarasota County
 - SR 35/US 17 from I-75 Southbound Ramps to CR 74/Bermont Road Signal System Retiming, Charlotte County
 - SR 25 /US 27 from Commerce Avenue to Bates Road Signal System Retiming, Polk County



- SR 25 /US 27 from Sanders Road/CR 547 to Ridgewood Lakes Boulevard Signal System Retiming, Polk County
- SR 25/US 27 Citrus Ridge Drive/Minute Maid Ramp Road 2 to CR 54/Dean Still Road/Ronald Reagan Parkway Signal System Retiming, Polk County
- SR 60 at County Line Road and SR 45 (US 41 Bus) at 3rd Avenue Ws, Polk County; SR 758 at Maxfield Drive, Sarasota County; SR 45/US 41 Business at 3rd Avenue W Signal Timing Updates, Manatee County
- Manatee County Traffic Signal Retiming, Manatee County, FDOT District 1
 - 53rd Avenue West/SR 70 from 51st Street West to Lakewood Ranch Boulevard
 - Cortez Road/SR 684/US 41 from 75th Street West to 26th Avenue East/26th Avenue West
 - US 41 from Tallevast Road/Gaines Avenue to Cortez Road/SR 684
 - US 301 from Tallevast Road to 63rd Avenue East
 - 15th Street East from Tallevast Road to 63rd Avenue East
 - 301 Boulevard/15th Street East from 57th Avenue East to 44th Avenue East
- County Wide Signal Retiming Update, Lee County, Lee County BOCC
 - Hanson Street from Metro Parkway to Fowler Street and Fowler Street from Hanson Street to Market Street
 - SR 80/Palm Beach Boulevard from Veronica Shoemaker Parkway to Orange River Boulevard
 - SR 82/Martin Luther King Boulevard from Michigan Avenue to I-75 Northbound Ramp
- District-Wide Traffic Signal Timing (C9E61), FDOT District 7
 - City of Tampa Clearance Interval Updates, Hillsborough County
 - SR 60 from Boat Ramp to Rocky Point Drive, Hillsborough County
 - US 41 Business from Maritime Boulevard to Durham Street, Hillsborough County
- District-Wide Traffic Signal Retiming (C9A67), FDOT District 7
 - US 41 from Crystal Lake Road to West Lutz Lake Fern Road, Hillsborough County
 - Van Dyke Road from Gunn Highway to St. Joseph's Hospital North, Hillsborough County
 - Race Track Road from Douglas Road/Twin Branch Acres Road to South Mobley Road, Hillsborough County
 - US 301 from Summerfield Crossing Boulevard to Symmes Road, Hillsborough County
 - US 19/Commercial Way from Pepper Street/Applegate Drive to SR 50/Cortez Boulevard, Hernando County
 - SR 60/Adamo Drive from Channelside Drive to SR 599/US 41 and Selmon Expressway Ramps, Hillsborough County
- SR 599/SR 583 from 7th Avenue to SR 574/Dr. Martin Luther King Jr. Boulevard and Columbus Drive at I-4, Hillsborough County
- SR 574/Dr. Martin Luther King Jr. Boulevard from 15th Street to 34th Street, Hillsborough County
- Manhattan Avenue from Fair Oaks Avenue Mid-block to Henderson Boulevard; Henderson Boulevard from Manhattan Avenue/San Jose Street to Grady Avenue/Neptune Street; Westshore Boulevard from Euclid Avenue to Culbreath Isles Road; and Manhattan Avenue at Estrella Street, Hillsborough County
- SR 685/Florida Avenue Northbound from Henderson Avenue to Osborne Avenue; SR 685/Tampa Street Southbound from Floribraska Avenue to Palm Avenue; SR 574/Dr. Martin Luther King Jr. Boulevard from North Boulevard to SR 45/Nebraska Avenue; SR 45/Nebraska Avenue from SR 574/Dr. Martin Luther King Jr. Boulevard to Osborne Avenue; and Osborne Avenue from SR 685/Highland Avenue to SR 45/Nebraska Avenue, Hillsborough County
- SR 569/SR 599 from Ellicott Street/Louisiana Avenue to Columbus Drive, Hillsborough County
- Waters Avenue from Armenia Avenue to SR 45/Nebraska Avenue; SR 685/Florida Avenue from Bird Street to Yukon Street; and SR 45/Nebraska Avenue from Sitka Street to Yukon Street, Hillsborough County
- District-Wide Signal Retiming (C9753), FDOT District 7
 - SR 52 from Zimmerman Road to Paradise Pointe Way, Pasco County
 - SR 582/Fowler Avenue from SR 685/Florida Avenue to 50th Street, Hillsborough County
- Signal Retiming, Naples, FL, City of Naples - Mr. Spatola served as Project Manager. The project involved on-call retiming services to address operational issues and citizen complaints, as needed. FDA developed signal timings for City roads and worked to reduce cycle lengths to improve pedestrian operations while maintaining vehicle operations. Services included working with the City to test leading pedestrian intervals at select locations.
- MetroPlan Traffic Signal Retiming (2022-2024), Orange, Seminole, and Osceola Counties - Mr. Spatola serves as the Project Manager and a Signal Timing Team Leader. The purpose of this task-work order driven contract is to provide MetroPlan Orlando with professional services for conducting signal retiming efforts. A major objective of this contract is to improve safety and efficiency along the corridors as expeditiously as possible. MetroPlan Orlando task work orders in Orange, Seminole, and Osceola Counties include data collection, model development and analysis; development of signal retiming plans; and implementation and evaluation.

Jeanna J. Dean

President/Owner/ Chief Utility Coordinator



Years of Experience

- 23 (19 with others)

Education

- B.A., (Court Reporting), St. Louis College, 1991

Awards

- FDOT's Verne Brown Memorial Liaison Person of the Year Award for 2013 for exceptional utility coordination services

Certifications

- National Highway Institute CSS National Training 2010;
- Florida Department of Transportation (FDOT) Plans Reading Course, 2000;
- National Highway Institute/Utility Issues Training, 2002;
- FDOT Specifications Training, 2004;
- FDOT Designer Training for Utilities Issues, 2005

Professional Affiliations

- ASHE
- F.U.C.C.



KEY QUALIFICATIONS

Jeanna Dean is the owner of Harbor Coordination Solutions, Inc and has 23 years of utility coordination experience and acts as the prime liaison between utility agencies, all design disciplines, and any governmental agency. She has experience in various levels of roadway, transit, structures, and utility design projects. She is knowledgeable with Federal, many State and Local government agencies policies and procedures regarding utility design and coordination. Jeanna is knowledgeable in contract negotiation, federal/state and local funding procedures, utility adjustment and/or relocation design, utility permits, transit and railway coordination, right-of-way compensable interest/subordination and federal/state reimbursement requirements. She has extensive experience working with Federal Highway Administration (FHWA), Federal Transit Authority (FTA), U.S. Department of Transportation (USDOT), Florida Department of Transportation (FDOT), Florida Administration Codes (F.A.C.), Florida Department of Environmental Protection (FDEP) and Environmental Protection Agency (EPA) regulations, as well as the Ten State Standards for all pertinent projects with utilities.

Jeanna's unique experience and responsibilities on utility projects includes coordinating, advising and reviewing highway improvement planning with regards to meeting the FHWA Program Manual, American Association of State Highway Transportation Officials' (AASHTO), states' and local government agencies' design criteria and preliminary design plans regarding utilities. She also coordinates the preparation, reviews and recommends approval of utility permits on all assigned projects. Jeanna negotiates initial contracts with utility companies for scheduled design improvement projects involving utility adjustment and/or relocation, including all related work, such as correspondence, review and processing of utility proposals, plans and utility work schedules. Jeanna acts as the Oversight Coordination Manager for all Utility Work by Highway Contractor Agreements (UWHCA), plans, technical specifications and cost estimates. She is certified in Technical Specification Writing. Ms. Dean has done several design/builds projects and understands the construction schedule to ensure the utility's work coincides with the contractors planned work schedule. *Jeanna is the past Chair for the Florida Utilities Coordination Committee this is a non-profit agency that works closely with all UAOs, FDOT and other governmental agencies regarding legislative, State and local policies and procedures.*

RELEVANT PROJECTS

D-7 SR 580/Skinner Blvd from Alt US 19/Broadway to Main Street/Bass Blvd: Acts as the Chief/Sr Utility coordinator for this \$10 Million Dollar Complete Street Project. This project takes 2 lanes to 4 lanes with the addition of two roundabouts. This project has 16 UAOs. The City of Dunedin had a UWHCA for this project with a schedule that could not be adjusted. Harbor was instrumental working with the EOR and the City's design to avoid delays. The city asked for Duke and joint pole users to be placed underground. The utility coordination for Duke's undergrounding and future landscaping by the City was added to this FDOT project and coordinated by Ms. Dean.

D-7 Non-Tampa Bay Next Misc. Improvements Task Work Order Contract: acts as the Sr. utility coordination manager for this task work order driven misc. design contract. This contract represents the Department in advanced Utility Coordination and RFP development for design/build (E.g I-75 @ Overpass Rd and I-75 @ Big Bend)

Harbor Coordination Solutions, Inc.

Jeanna J. Dean
President/Owner/
Chief Utility Coordinator



D-7 Non-Tampa Bay Next Misc. Improvements Task Work Order Contract: acts as the Sr. utility coordination manager for this task work order driven misc. design contract. This contract represents the Department in advanced Utility Coordination and RFP development for design/build projects. (e.g. Overpass Rd and I-75 and Big Bend and I-75 RFP development)

D-7 SR 597 (Dale Mabry) Repaving from N of Fletcher Ave to South o Van Dyke Rd: Acts as the Utility Coordinator for this \$2.1 Million dollar repaving with minor drainage project. This project is currently in design with construction anticipated in 2022.

D-7 General Consultant Services Tampa, FL: This is a \$5 million dollar contract for consultant service held by Atkins. Harbor Coordination provides part-time assistance to serve the District Seven Utilities Office for special assignments and oversight services.

D-7 Non-Tampa Bay Next Misc. Improvements Task Work Order Contract: acts as the Sr. utility coordination manager for this task work order driven misc. design contract. This contract represents the Department in advanced Utility Coordination and RFP development for design/build projects. (e.g. Overpass Rd and I-75 and Big Bend and I-75 RFP development)

D-7 SR 93A/I-75 from S of CSX/Broadway to EB/WB I-4 Exit/Martin Luther King Design Build, Hillsborough, FL: Ms. Dean acted as the Chief Utility Coordination Manager for this \$111 million project. This project is a DDI design with 14 UAOs along the corridor and was split into 3 distinct segments requiring each segment to act as a stand alone project. Ms. Dean was instrumental in assisting the UAOs to work through complex conflicts with the design. Jeanna assisted the team with the overhead relocation of TECO placing their distribution crossing underground and FGT coordination regarding ramp design alternatives to avoid this transmission gas main. Additional coordination with the District Utilities Office, Project Manager and design team was extensive with Hillsborough County's facilities. During the project an additional turn lane was added by Hillsborough County requiring added work to be coordinated with Hillsborough County WRD and other UAOs. Ms. Dean was instrumental in making this a smooth transition with an innovative idea to include the small adjustments required of Hillsborough County's facilities to be included in the LFA to avoid a long delay to the project. Working with WSP during the design phase she assisted the team in conflict resolution, innovative ideas and expedited responses from the UAOs. Individual workshops were utilized to help everyone partner and move as a single unit to eliminate utility conflicts or scheduling of work. This project is currently on-going, but the utility coordination effort was completed in early 2023, well ahead of schedule. Harbor's involvement at this time is to answer any questions the contractor may have while completing the construction tasks.

D-7 I-275 Operational Improvements: This is a \$29-million-dollar operational improvement included widening, milling and resurfacing, bridge widening, noise walls, drainage, lighting, signing, paving markings, signalization, ITS. Ms. Dean provided Utility Coordination support to HDR and the FDOT to successfully relocate the utilities.

D-7 SR 679/Bayway Bridge (Structure E) Replacement and Repaving from N. of Yacht Club Lane to SR 682 Design/Build – American Bridge: Ms. Dean is currently providing Sr. Utility Coordination Manager support for this \$56.3 Million and high-profile project. This project is installing a roundabout at Madonna Blvd and replacing the bridge

D-7 SR 60 (Courtney Campbell Causeway) Old Tampa Bay Water Quality Improvement Project Design-Build, Hillsborough Co. Sr. Utility Coordination Manager. This project is a \$12 million dollar project to cut a bridge into the causeway with an aggressive schedule for the waterway to be open. Ms. Dean was instrumental in coordinating a joint utility bore along the north side of the bridge and TECO's service line bore for the service load centers for both the SR 60 ITS & Lighting Design/Build and this project. It required extensive stakeholder coordination between local agencies, utility agency owners, and adjacent ongoing FDOT projects.

Harbor Coordination Solutions, Inc.

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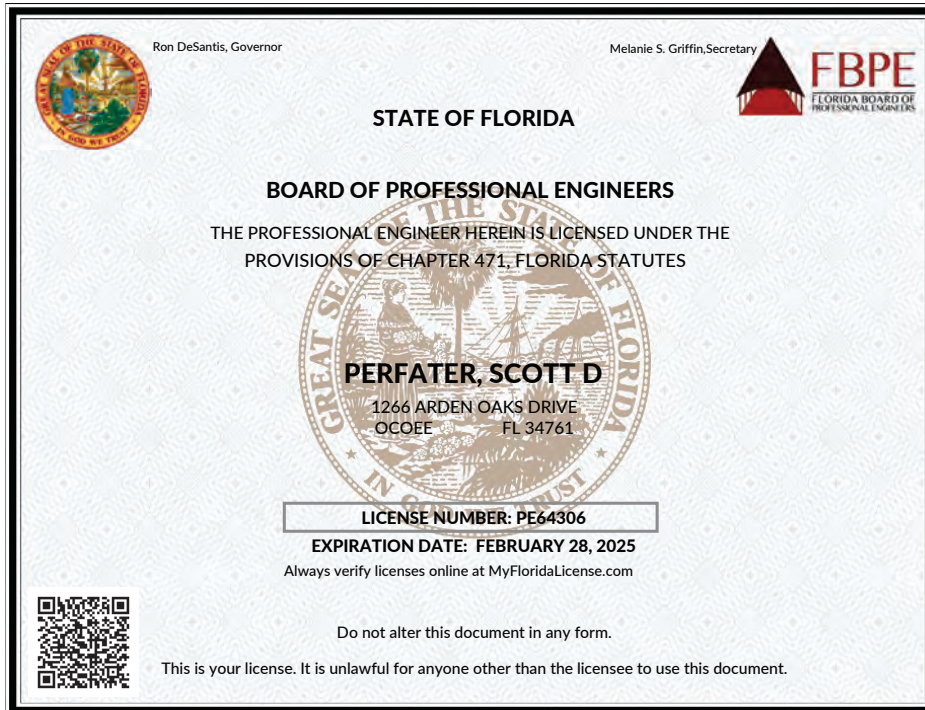
Name:	BURGESS & NIPL, INC.	License Number:	9853
Rank:	Registry	License Expiration Date:	
Primary Status:	Current	Original License Date:	10/20/2003

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
64306	Current, Active	PERFATER, SCOTT D	Registry	05/29/2007	Professional Engineer	02/28/2025

Page 1 of 1

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State of Florida

Department of State

I certify from the records of this office that BURGESS & NIPLE, INC. is an Ohio corporation authorized to transact business in the State of Florida, qualified on September 17, 2003.


The document number of this corporation is F03000004719.

I further certify that said corporation has paid all fees due this office through December 31, 2023, that its most recent annual report/uniform business report was filed on January 23, 2023, and that its status is active.

I further certify that said corporation has not filed a Certificate of Withdrawal.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Twenty-third day of January,
2023*




Secretary of State

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Burgess & Niple, Inc.

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BELLUCCIA, ANGELO GIOVANNI
2845 SAFE HARBOR DRIVE
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1631 MALCOLM POINT DRIVE
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ATKINSTALL, ANDRE MARK ANTHONY
4083 MOUNT BANDON DR
LAND O' LAKES FL 34638

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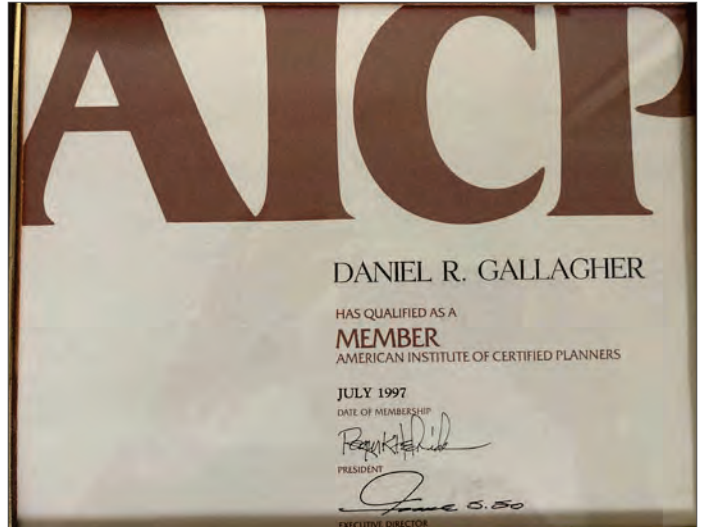
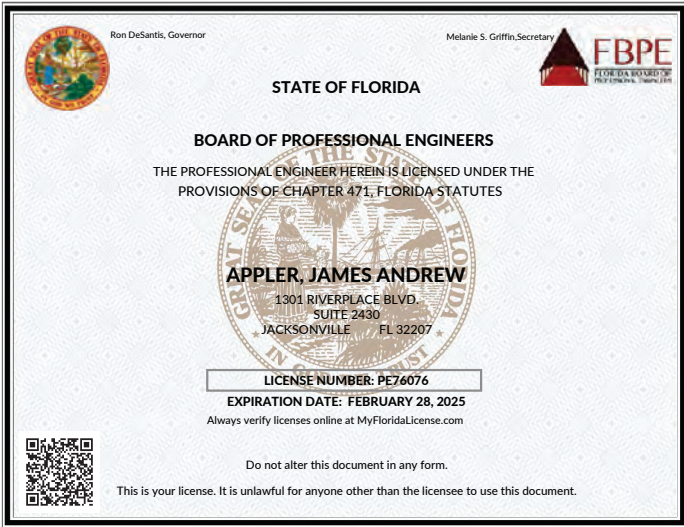
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Burgess & Niple, Inc.



AREHNA Engineering, Inc.

Florida Department of Business & Professional Regulation

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Search Results - 1 Records

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For additional information, including any complaints or discipline, click on the name.

License Type	Name	Name Type	License Number/ Rank	Status/Expires
Engineering Business Registry	AREHNA ENGINEERING, INC.	Primary	28410 Registry	Current

Main Address*: 5012 W. LEMON STREET TAMPA, FL 33609

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MCRORY, JESSICA ANN
5012 W. LEMON STREET
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FDOT BROWARD COUNTY Greater Orlando Aviation Authority JACKSONVILLE TRANSPORTATION AUTHORITY

Florida Unified Certification Program

Disadvantaged Business Enterprise (DBE) Certificate of Eligibility

AREHNA ENGINEERING INC
MEETS THE REQUIREMENTS OF 49 CFR, PART 26
APPROVED NAICS CODES:
541330, 541990, 541380

Samuel Febres
Samuel (Sammy) Febres
DBE & Small Business Development Manager
Florida Department of Transportation

MIAMI-DADE COUNTY TAMPA International Airport TALLAHASSEE VOTMAN

State of Florida

Woman Business Certification

AREHNA Engineering, Inc.

Is certified under the provisions of 287 and 295.187, Florida Statutes, for a period from:
07/10/2023 to 07/10/2025

Todd Insman
Todd Insman
Florida Department of Management Services

Office of Supplier Diversity
4000 Espinola Way, Suite 300
Tallahassee, FL 32309
850-487-0915
www.dms.myfloridacounty.com

Colliers Engineering

THE OFFICIAL SITE OF THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION



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LICENSEE DETAILS 10:37:17 AM 6/20/2022

Licensee Information

Name:	COLLIERS ENGINEERING & DESIGN, INC. (Primary Name)
	MASER CONSULTING (DBA Name)
Main Address:	331 NEWMAN SPRINGS ROAD SUITE 203 RED BANK New Jersey 07701
County:	OUT OF STATE

License Information

License Type:	Registry
Rank:	Registry
License Number:	30301
Status:	Current
Licensure Date:	05/09/2013
Expires:	




Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkwy Tallahassee, Florida 32399-6500

License No.: **LS7062**
Expiration Date: February 28, 2025

Professional Surveyor and Mapper License
Under the provisions of Chapter 472, Florida Statutes

ROBERT W. ALTMAN
5628 CYPRESS ST
ZEPHYRHILLS, FL 33542-4516



WILTON SIMPSON
COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.

Faller Davis & Associates, Inc.



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12:18:07 PM 12/1/2023

LICENSEE DETAILS

Licensee Information

Name:	FALLER, DAVIS AND ASSOCIATES, INC. (Primary Name)
Main Address:	4200 WEST CYPRESS STREET SUITE 500 TAMPA Florida 33607
County:	HILLSBOROUGH

License Information

License Type:	Engineering Business Registry
Rank:	Registry
License Number:	5864
Status:	Current
Licensure Date:	12/18/1990
Expires:	

State of Florida

Woman Business Certification


Faller, Davis & Associates, In

Is certified under the provisions of
287 and 295.187, Florida Statutes, for a period from:
12/17/2021 to 12/17/2023




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Florida Department of Management Services

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SPATOLA, NICHOLAS JOSEPH
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Harbor Coordination



B. FIRM/TEAM CAPABILITIES

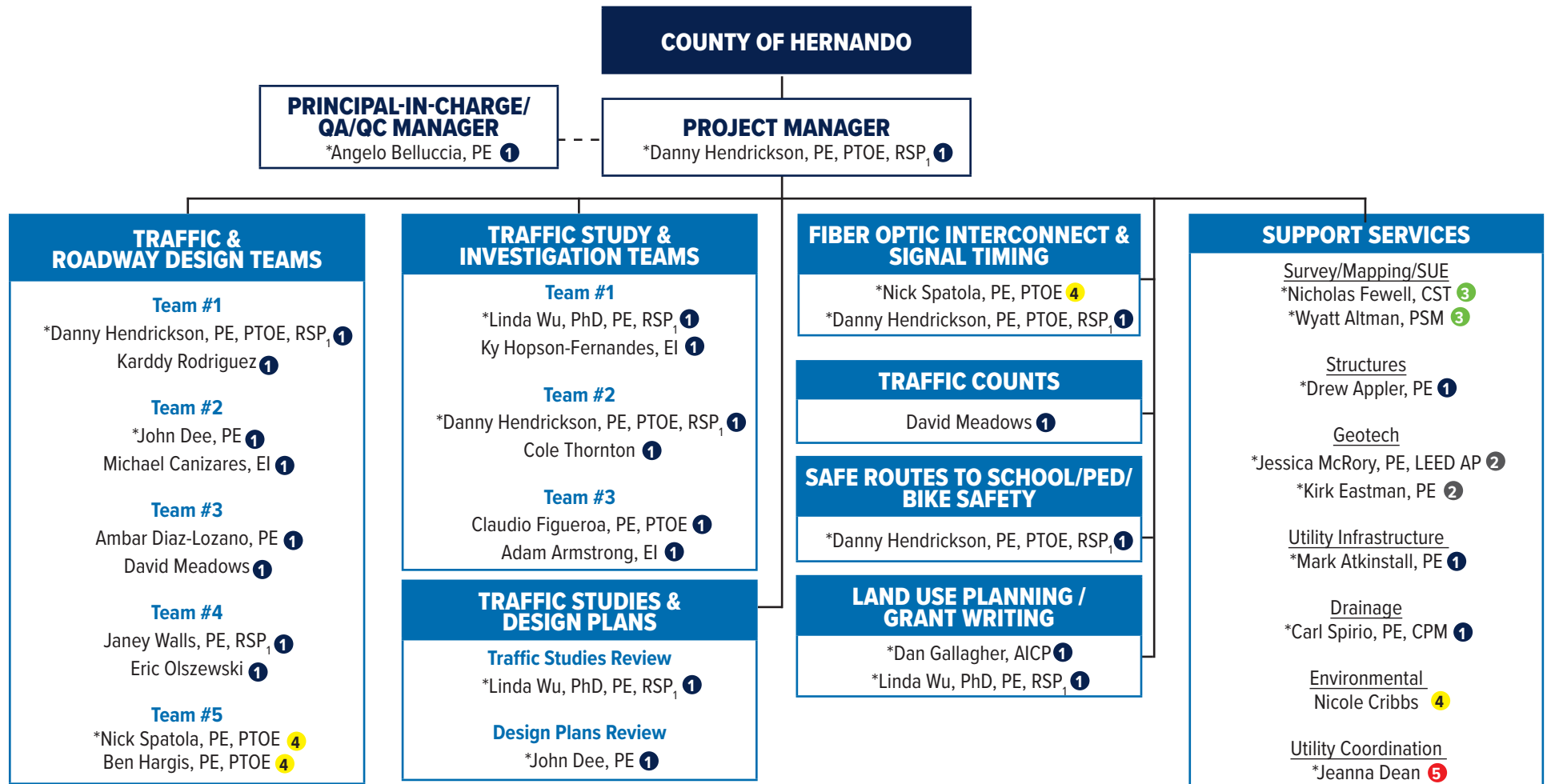


Team Organizational Chart

Our team selection process was driven by a strategic vision to ensure the utmost proficiency and excellence in delivering on the Continuing Traffic Engineering Services contract. We chose our staff based on a comprehensive understanding of the County's needs, objectives, and the scope of services. Each key team member brings a unique blend of skills, and at least 5 years of experience, and expertise that perfectly aligns with the contract requirements, making our team the ideal choice for this project.

LEGEND * = Key Resume

- 1 Burgess & Niple, Inc.
- 2 AREHNA Engineering, Inc. M/WBE & DBE
- 3 Colliers Engineering
- 4 Faller Davis & Associates, Inc. M/WBE
- 5 Harbor Coordination Solutions, Inc. M/WBE & DBE



Current and Projected Work Load													
Key Personnel	2023	2024											
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Burgess & Niple, Inc.													
Angelo Belluccia, PE	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%
Danny Hendrickson, PE, PTOE, RSP ₁	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%
John Dee, PE	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%
Linda Wu, PhD, PE, RSP ₁	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%
Dan Gallagher, AICP	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%
Drew Appler, PE	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%
Mark Atkininstall, PE	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%
Carl Spirio, PE	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%
AREHNA Engineering, Inc.													
Jessica McRory, PE, LEED AP	60%	60%	60%	65%	65%	65%	70%	70%	70%	75%	75%	75%	75%
Kirk M. Eastman, PE	60%	60%	65%	70%	70%	70%	70%	70%	75%	75%	75%	80%	80%
Colliers Engineering													
Nicholas Fewell, CST	47%	55%	53%	45%	58%	52%	59%	45%	48%	55%	58%	46%	46%
Wyatt Altman, PSM	45%	45%	60%	55%	50%	50%	60%	50%	55%	55%	50%	45%	45%
Faller Davis & Associates, Inc.													
Nicholas J. Spatola, PE, PTOE	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Harbor Coordination Solutions, Inc.													
Jeanna J. Dean	45%	60%	55%	60%	60%	45%	45%	55%	50%	40%	40%	50%	25%

C. PRIOR EXPERIENCE

1. Miscellaneous Transportation Design Services

Hernando County | Hernando County, Florida

This continuing services contract supports Hernando County's comprehensive traffic engineering design, investigation and analysis, and inspection services that are required in connection with the development and improvement of Hernando County infrastructure. Some of the tasks assigned were:

Spring Hill Comprehensive Plan Review:

The Spring Center proposed development required a traffic analysis as part of the submittal requirements of the Comprehensive Plan Amendment. This scope of this analysis includes field reviews, support at BOCC and MPO planning meetings and support as the final agreement is prepared. Other traffic impact analysis reviews for Rezoning, Concurrency, Access, Site Plans and/or for a Development Agreement are not included. Spring Center is a 450 acres town center concept located in the center of Spring Hill with residential and a school adjacent to the project.

SR 50 Intersection Improvements at Coastal Boulevard:

This project involved adding turn lanes and making modifications to the Coastal Boulevard and SR 50 intersection. The proposed improvements span approximately 525 LF and include the addition of a left-turn lane, a thru/right-turn lane and sidewalks along the east and west right-of-way with ADA ramps. Additional right-of-way was required on both the east and west sides. The roadway improvements to this intersection include the addition of pavement to provide for new turn or acceptance lanes, drainage accommodations for the proposed improvements, modifications to (or complete reconstruction of) the existing traffic signal, and new signage and pavement markings. After collecting turning movement counts, forecasting future traffic, and obtaining area crash data, B&N prepared several design alternatives for the County's consideration. A preferred alternative was chosen and B&N prepared construction plans, specifications, and permitting.

SR 50 Intersection Improvements at Nightwalker Road:

The project includes adding a left-turn lane and a thru/right-turn lane at the Nightwalker Road and SR 50 intersection. The project is approximately 854 LF and did not require any additional right-of-way. Due to improvements, the west turn-out connection to Cortez Boulevard (SR 50) was widened and the signals were modified/replaced. After collecting turning movement counts, forecasting future traffic, and obtaining area crash data, B&N prepared several design alternatives for the County's consideration. A preferred alternative was chosen and B&N prepared construction plans, specifications, and permitting.

RELEVANT FEATURES

Engineering Design:

- Design traffic signals
- Design ancillary intersection improvements, including turn lanes.
- Develop signage and pavement marking plans (MUTCD compliant).
- Formulate Temporary Traffic Control Plans for events and emergencies.
- Comprehensive design projects covering utility, drainage, right-of-way, and traffic/detour plans.
- Deliverables include signed plans, regulatory approvals, and cost estimates.

Investigations and Documentation:

- Conduct traffic control investigations and signal warrant analyses.
- Review plans for development project conformity and roadway impacts.
- Evaluate traffic impact analyses for accuracy and adequacy.
- Provide initial consultation for Developments of Regional Impact.

Role

Prime

Proposed Team

Angelo Belluccia, Danny Hendrickson, Karddy Rodriguez

Work Performed In-House:

Yes

Type/Scope of Services Provided

Intersection design; ADA Compliance; Traffic Signal Design; Roadway design

Owner's Contact Name and Address/Contact Person and Phone Number

Hernando County BOCC
Carlene Riecss
20 N Main St # 460
Brooksville, FL 34601
(352) 754-4082
criecss@co.hernando.fl.us

Project Duration

2016-2018

Project Completed Within Schedule

Yes

Location of Office Performing Work

Burgess & Niple
1511 North Westshore Boulevard,
Suite 500
Tampa, Florida 33607

2. Continuing Traffic Engineering Studies

Hernando County | Various Locations, FL

Ayers at Culbreath Roundabout Evaluation:

This task originated from a Signal Warrant Analysis performed by Burgess & Niple at the study intersection which concluded that the intersection met warrants for signalization. B&N was then tasked with evaluating whether a traffic signal or roundabout was the best option based on vehicular delay, safety, and right of way and other impacts. Conceptual designs were developed for both options showing project footprints and impacts. Synchro and Sidra models were also developed to evaluate traffic operations and predicted crashes were estimated based on Highway Safety Manual methodologies. Finally, based on benefit to cost analyses the roundabout option was recommended.

Sunshine Grove at Plumeria Boulevard Signal Warrant Analysis:

B&N was tasked with performing a signal warrant analysis at the study intersection in March 2023. The study included 12-hour turning movement counts, side street stop-delay, 5-year historical crash analysis, and a qualitative assessment of field conditions by a professional engineer. The study found that although the intersection met Warrant 2 of the MUTCD, a signal was not recommended based on engineering judgment.

Intersection Safety Reviews:

Traffic investigations were conducted at various County intersections for safety and operational concerns requested from local residents. B&N conducted traffic counts, reviewed collision histories, and performed peak hour field observations to determine what, if any, action should be taken to best address the resident's concerns. Recommendations included relocating stop bars and stop signs, trimming vegetation to improve sight distance, and additional signage to alert drivers of an upcoming intersection or driveway.



Ayers Road at Culbreath Road - Roundabout Concept

RELEVANT FEATURES

- Traffic Studies
- Intersection Safety Reviews
- Roundabout Design
- Conceptual Design
- Synchro and Sidra modeling
- Cost analysis

Role

Prime

Proposed Team

Danny Hendrickson, Linda Wu,
Angelo Belluccia

Work Performed In-House:

Yes

Type/Scope of Services Provided

Traffic Studies and Signal Timing

Owner's Contact Name and Address/Contact Person and Phone Number

D. Todd Crosby, PE
Assistant County Engineer
Hernando County Department of
Public Works
1525 East Jefferson St.
Brooksville, FL 34601
(352) 754-4062 ext. 17016
Tcrosby@co.hernando.fl.us

Project Duration

2019-2023

Project Completed Within Schedule

Yes

Location of Office Performing Work

Burgess & Niple
1511 North Westshore Boulevard,
Suite 500, Tampa, Florida 33607

3. SR 50 (Cortez Boulevard) Widening

Florida Department of Transportation - District 7 | Hernando County, FL

The project consists of the widening, resurfacing and new construction of SR 50 (Cortez Boulevard) from a two-lane rural roadway to a four-lane divided rural roadway from US 98 (SR 700/McKethan Road) to US 301 (SR 35/Treiman Boulevard), as well as improvements to US 301 north and south of the intersection with SR 50. The existing SR 50 roadway will be converted to the westbound travel way; new pavement will be constructed south of the existing roadway to become the new eastbound travel way. This project will also include median openings and improvements to pedestrian features (sidewalks), turn lanes and intersections.

B&N used the approved concepts from the PD&E Study of SR 50 (Cortez Boulevard) from Lockhart Road to US 301 (SR 35/Treiman Boulevard), Hernando County, Florida as a basis for the design.



SR 50 (Cortez Boulevard) Widening

RELEVANT FEATURES

Engineering Design

- Four-lane divided rural roadway, including traffic signals, pedestrian signals, and school beacons.
- Fiber optic interconnections for traffic signals and Intelligent Transportation Systems (ITS) facilities.
- Ancillary intersection improvements with turn lanes associated with signal design.
- Traffic calming devices
- Signage and pavement marking plans, ensuring compliance with the latest MUTCD
- Temporary Traffic Control (TTC) Plans

Investigations and Documentation

- Traffic control investigations for SR 50

Technical Assistance

- Safety audits for the SR 50 project

Role

Prime

Proposed Team

Danny Hendrickson

Work Performed In-House:

Yes

Type/Scope of Services Provided

Roadway design; Highway & Streets; Subsurface Utility Engineering; Utility Coordination; Drainage Area Analysis; Hydraulic Analysis

Owner's Contact Name and Address/Contact Person and Phone Number

FDOT District 7

Kevin Lee

11201 McKinley Dr, Tampa, FL 33612
(813) 975-6000

Project Duration

2014 - 2023

Project Completed Within Schedule

In-Progress

Location of Office Performing Work

Burgess & Niple

1511 North Westshore Boulevard,
Suite 500, Tampa, Florida 33607

4. Lithia Pinecrest Road Improvements PD&E

Hillsborough County | Lithia, Florida

The purpose of this project is to provide a Project Development and Environment (PD&E) Study for Lithia Pinecrest Road (CR 640) and Bloomingdale Avenue corridors to evaluate capacity needs and safety improvements. The study corridors include Lithia Pinecrest Road from Fishhawk Boulevard to Lumsden Road (6.0 miles approximately) and Bloomingdale Avenue from Culbreath Road to Pearson Road (1.15 miles approximately) (see map below). Both roadways are currently two-lane undivided roadways in most areas and are functionally classified as arterials with a context classification of C3R (suburban residential).

The objective of the PD&E Study is to provide documented environmental and engineering analyses to assist the County in reaching a decision on the type, conceptual design, and location of the necessary improvements within the Lithia Pinecrest Road PD&E Study limits. This project will provide for an enhanced roadway corridor, congestion relief and will improve safety and mobility through a context and environmentally sensitive design. Within this study, 18 intersections will be evaluated for improvements to reduce the significant traffic delays currently occurring along this corridor. Safe mobility for all roadway users, regardless of mode of travel, will be incorporated into the Study. The schedule for the project includes completion of all tasks within 24 months of Notice to Proceed.

Role

Prime

Proposed Team

Angelo Belluccia

Linda Wu

Carl Spirio

Karddy Rodriguez

Work Performed In-House:

Yes

Type/Scope of Services Provided

PD&E Studies

Owner's Contact Name and Address/Contact Person and Phone Number

Hillsborough County

Sandra González, PE

601 E. Kennedy Blvd.

Tampa, FL 33602

(813) 307-1749

gonzalezsa@hillsboroughcounty.org

Project Duration

2022-present

Project Completed Within Schedule

Ongoing

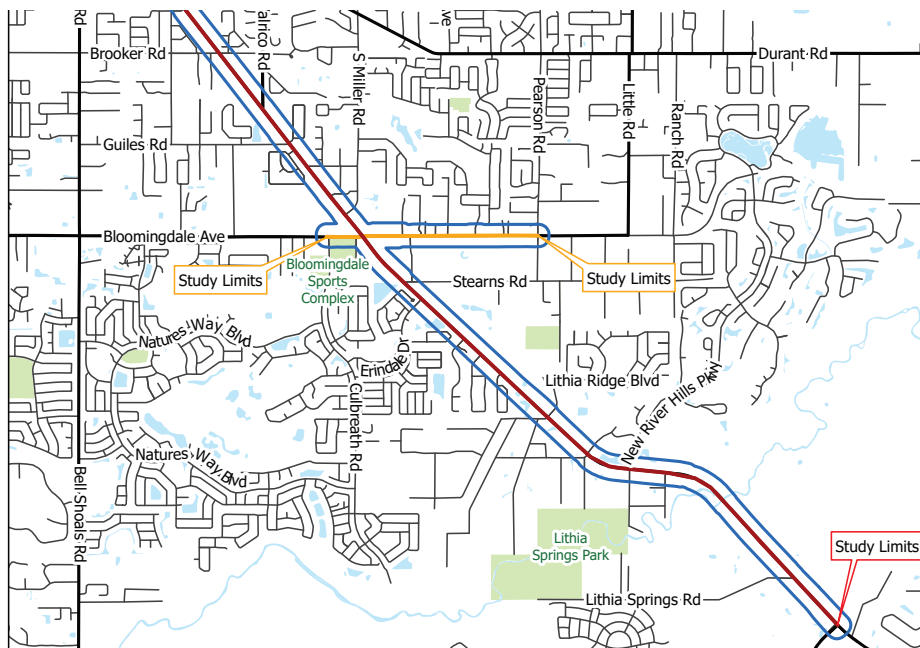
Location of Office Performing Work

Burgess & Niple

1511 North Westshore Boulevard,

Suite 500

Tampa, Florida 33607



Map of Lithia Pinecrest Road PD&E Study Limits

RELEVANT FEATURES

- Conceptual improvements for traffic signals, pedestrian signals, and school beacons.
- Traffic Control Investigations
- Traffic impact analyses for commercial and residential development projects, focusing on accuracy, adequacy, and impacts on County roadways.

5. University Avenue and 13th Street Complete Streets PD&E

City of Gainesville | Gainesville, Florida

The University Avenue corridor and the 13th Street corridor in Gainesville, FL are active and bustling streets that traverse the City of Gainesville. Both corridors experience high traffic volumes but also have a high degree of pedestrians, bicyclists and transit users who are traveling to and from the University of Florida, downtown Gainesville, and the many origins, destinations and neighborhoods along these two corridors.

B&N teamed with Kimley-Horn and are underway on a significant and transformative project to transition both corridors to safer and more complete streets. Both corridors and the community have experienced severe crashes, injuries and fatalities that have galvanized the community to rethink these two streets.

The current project involves a PD&E study (Phase I) and Design (Phase II) for the reconstruction of University Avenue (SR 26) between NW 22nd Street and NE 31st Street (Segment 1), and W 13th Street (SR 25) between SW 16th Avenue and NW 8th Avenue (Segment 2) as complete streets, emphasizing the safety, movement and accessibility of cyclists and pedestrians. The project length is approximately 4.0 miles along University Avenue (SR 26) and approximately 1.6 miles along W 13th Street (SR 25). B&N and Kimley-Horn have worked with the community, the City, FDOT, residents and stakeholders to help envision a different future for these corridors and are currently at the mid-way point in the PD&E process with the City of Gainesville.



University Avenue - Walk and Talk Tour

RELEVANT FEATURES

- Conceptual improvements for traffic signals, pedestrian signals, and school beacons.
- Traffic Control Investigations
- Traffic impact analyses for commercial and residential development projects, focusing on accuracy, adequacy, and impacts on County roadways.

Role

Sub

Proposed Team

Dan Gallagher

Work Performed In-House:

Yes

Type/Scope of Services Provided

PD&E Studies

Owner's Contact Name and Address/Contact Person and Phone Number

City of Gainesville
Debbie Leistner, PTP
200 E University Ave
Gainesville, FL 32601
(352) 393-8412
leistnerdl@cityofgainesville.org

Project Duration

2022-present

Project Completed Within Schedule

Ongoing

Location of Office Performing Work

Burgess & Niple
1511 North Westshore Boulevard,
Suite 500
Tampa, Florida 33607

6. Ringling Trail Design-Build

City of Sarasota | Sarasota, Florida

The City of Sarasota identified Ringling Boulevard as a candidate for a complete streets project to address the growth in bicycle traffic between The Legacy Trail and downtown Sarasota and the Bayfront. Legacy Trail is a multi-use path extending from south Sarasota County to downtown. The trail connection to Ringling Boulevard provided an excellent opportunity for the City to provide the first protected bike lane corridor in the Sarasota-Manatee region. The design-build delivery method allowed the City to provide that connectivity as quickly as possible.

This \$2.8 million project was high on citizen interest, addressed community needs and is likely to translate into economic growth for the downtown area. Cost-saving and sustainability measures included conducting construction engineering inspection services in-house and reallocating concrete parking wheel stops as bicycle dividers.

The protected bike lane was prioritized and is highlighted with green paint along intersections and conflict points to enhance safety. ADA ramps and crosswalks were upgraded and repaired to ADA standards. Landscaped islands with canopy trees were added as part of the complete streets. Bus stop pads were installed as loading/unloading areas for riders outside of the bike lane. The project delivered the features from design to final acceptance in less than one year and under \$3 million.



Ringling Trail Design-Build Project

2023 Project of the Year Award – Transportation Roadways
Design-Build Institute of America (DBIA) Florida Region Awards



City of Sarasota - Ringling Trail Design-Build Project - East Ave

RELEVANT FEATURES

- Traffic signals, pedestrian signals, and school beacons for enhanced safety and functionality
- Signage and Pavement Planning
- Traffic Control Plans
- Utility locations/relocations, drainage solutions
- Traffic Control Investigations

Role

Sub

Proposed Team

Mark Atkininstall, Danny Hendrickson,
Karddy Rodriguez

Work Performed In-House:

Yes

Type/Scope of Services Provided

Roadway Design, Traffic, and Signal Timing

Owner's Contact Name and Address/Contact Person and Phone Number

City of Sarasota
Nikesh (Nik) Patel, PE, CPM, PTOE,
CGC, AICP
1761 12th St.
Sarasota, FL 34236
(941) 263-6132
Nikesh.Patel@sarasotaFL.gov

Project Duration

2022

Project Completed Within Schedule

Yes

Location of Office Performing Work

Burgess & Niple
1511 North Westshore Boulevard,
Suite 500, Tampa, Florida 33607

7. Development of Hillsborough County's Transportation Design Manual (HCTDM)

Hillsborough County | Hillsborough County, Florida

The HCTDM was prepared as an all-new design manual for Hillsborough County. In development for 2 years, B&N created the outline, contents and approaches of the manual while working closely with the Technical Services Division (TSD) Leadership Team and the County Engineer. The HCTDM was based on the newly created Hillsborough County Context-Based Classification System (also developed by B&N). Typical Cross Sections were developed for each Context Classifications with new design criteria above and beyond those established in the FDM.



Workflow with Hillsborough County

Some challenges with creating the HCTDM and may require internal meetings. These challenges will provide improved opportunities in planning and designing projects:

- Using Target Speed and Design/Posted Speed
- Emergency Vehicle Accommodation Opportunities
- Using Complete Streets Guide's Typologies and HCTDM's Typical
- Preparing the required Multimodal Safety Analysis for the selected projects

Scope of Services Provided:

Assisting with Technical Manuals and Specifications:

- Collaborating on refining and updating existing manuals to meet industry standards.
- Creating new manuals for emerging needs and technologies.

Improvement Development:

- Planning and executing infrastructure and facility enhancements.
- Elevating public asset quality and functionality.

Technical Inquiry Support:

- Addressing inquiries in various disciplines.
- Ensuring effective resolution in line with project goals.

Technical Research and Reports:

- Conducting in-depth research on transportation engineering and safety.
- Producing insightful reports for innovative and context-sensitive design.

RELEVANT FEATURES

- Comprehensive Transportation Capital Improvement Project
- Roundabout Analysis/Design
- Traffic Signal Interconnection Planning and Implementation
- Road Diet Implementation
- Complete Streets Design

Role

Prime

Proposed Team

Angelo Belluccia, PE, Kardy Rodriguez, Carl Spirio, Ambar Diaz-Lozano

Work Performed In-House:

Yes

Type/Scope of Services Provided

- Revising, updating, and creating Public Works Technical Manuals.
- Developing improvements.
- Handling technical inquiries for listed disciplines.
- Conducting research and reports on transportation engineering and safety topics.
- Meeting County requirements for conceptual and complete designs

Owner's Contact Name and Address/Contact Person and Phone Number

Hillsborough County
Lawrence Josephson, PE
601 E. Kennedy Blvd.
Tampa, FL 33602
C: (813) 373-2176
josephsonl@hcflgov.net

Project Duration

August 2020-October 2023

Project Completed Within Schedule

Ongoing

Location of Office Performing Work

Burgess & Niple
1511 North Westshore Boulevard,
Suite 500
Tampa, Florida 33607

8. Transportation Design and General Engineering Services

Hillsborough County | Hillsborough County, Florida

B&N successfully completed a wide variety of projects under their previously named Misc. Professional Engineering Services contract between 2016 and 2020. See a list of representative projects below.

- Colson Rd Culvert Replacement (2016-2019)
- Crawley Rd Drainage Improvements (2016-2018)
- Thonotosassa Rd Culvert Replacements (2016-2018)
- Club Manor Drainage Improvements (2018-2019)
- Chickory Lane Drainage Improvements (2016-2017)
- CR 579 Drainage Improvements (2016-2018)
- Standardization of County Manuals and Specifications (including Stormwater Technical Manual) (2015-2016) Consultant Evaluation Score = 98%

B&N has continued to successfully complete a wide variety of projects under this new contract between 2021 and 2023. See a list of representative projects below.

- Pebble Beach Boulevard Bridge Replacement (design)
- Seffner Elementary School - School Circulation Improvements (Study/Design)
- Brooker Elementary School and Burns Middle School - School Circulation Improvements (Study/Design)
- Palm River Elementary School - School Circulation Improvements (Study/Design)
- School speed zones Phase IIC
- School speed zones Elementary/Middle Schools
- School speed zones High Schools/Private Schools
- Safe Routes to School (SRTS) - Brandon High School and Limona Elementary School
- Corridor Preservation Plan: Alternative Land Use Scenario
- Corridor Preservation Plan Update
- Gibsonton Grant Funding
- Madison Ave. Culvert Replacement



■ Colson Rd Culvert Replacement

RELEVANT FEATURES

- Roadway Design, Plans Preparation, and Post Design Services
- Structures Design of Bridge Culvert
- Utility Coordination
- Construction Phasing and MOT Plans

Role

Prime

Key Staff

Angelo Belluccia, Karddy Rodriguez, Joyce Goulas, Carl Spirio, Danny Hendrickson, Eric Olszewski

Proposed Team

Angelo Belluccia, Karddy Rodriguez, Carl Spirio, Danny Hendrickson, Eric Olszewski

Work Performed In-House:

Yes

Type/Scope of Services Provided

Miscellaneous engineering support on transportation capital improvements including intersection improvements, new signals, traffic signal interconnection, road diets, complete streets, road widening, road resurfacing and reconstruction and bridge rehabilitation and replacement.

Owner's Contact Name and Address/Contact Person and Phone Number

Hillsborough County, Capital Programs Dept.
County Center, 22nd floor
601 E. Kennedy Blvd., Tampa, FL 33602
Sandra González, PE
(813) 307-1749
gonzalezsa@hillsboroughcounty.org

Project Duration

2021-Ongoing

Project Completed Within Schedule

Ongoing

Location of Office Performing Work

Burgess & Niple
1511 North Westshore Boulevard,
Suite 500, Tampa, Florida 33607

9. 62nd Avenue North Full Depth Reclamation Construction City of St. Petersburg | St. Petersburg, Florida

B&N was selected by the City of St. Petersburg, Florida to provide for the design of Full Depth Reclamation (FDR) construction documents for the pavement restoration of 62nd Avenue North from 1st Street North to 16th Street NE, a distance of 1.0 miles.

Services provided under this project include roadway, design, FDR pavement design, maintenance of traffic plans, design survey, geotechnical services, and utility coordination. The project was advanced to 30% plans and the City will move forward with a design build project for the replacement of existing City-owned water and sewer lines, along with pavement reconstruction.



62nd Avenue NE Pavement Conditions

RELEVANT FEATURES

- Traffic Signal Design
- Fiber Optic Interconnections
- Intersection Improvements
- Signage and Pavement Planning
- Traffic Control Plans
- Traffic Control Investigations
- Traffic Impact Analyses
- Utility Coordination
- Geotechnical Services
- Utility Inspection Services

Role

Prime

Proposed Team

Eric Olszewski, Carl Spirio

Work Performed In-House:

Yes

Type/Scope of Services Provided

Roadway Design

Owner's Contact Name and Address/Contact Person and Phone Number

City of St. Petersburg

Mike Gebler, PMP

One 4th Street North

St. Petersburg, FL 33701

727-893-7197

Michael.Gebler@stpete.org

Project Duration

2022-Present

Project Completed Within Schedule

Yes

Location of Office Performing Work

Burgess & Niple

1511 North Westshore Boulevard,
Suite 500

Tampa, Florida 33607

10. CR 452 from CR 44 to Lake County/Marion County Line

Lake County | Lake County, Florida

This project consists of the design services for safety improvements along CR 452 from CR 44 to the Lake/Marion County line, approximately 9.3 miles in length. The design included 5-foot paved shoulders with safety edge treatment at all curves and rumble strips at select curves along CR 452. Additional improvements along the corridor included traffic signal upgrades and lighting improvements at the intersection of CR 452 and CR 44, a westbound left turn lane and approximately 2,000 feet of resurfacing at CR 452 and Goose Prairie Road and the intersection of Felkins Road and CR 452 was reconstructed. The project also included drainage improvements and signing and pavement markings. Additional services included utility and railroad coordination. An Environmental Resource Permit was secured and wildlife survey was performed to identify any protected species.



Offtracking on shoulders will be improved through addition of paved shoulders.

RELEVANT FEATURES

- Roadway Design and Safety Improvements
- Drainage Improvements
- Signing and Pavement Markings Design
- Environmental Resource Permit Acquisition
- Wildlife Survey for Identifying Protected Species
- Utility coordination for the project

Role

Prime

Proposed Team

John Dee, Janey Walls

Work Performed In-House:

Yes

Type/Scope of Services Provided

Widening for the paved shoulders and adding safety edge, guardrail connections, drainage improvements, signing and pavement markings.

Owner's Contact Name and Address/Contact Person and Phone Number

Lake County
George Gadiel, PE
350 N. Sinclair Ave.
Tavares, FL 32778
(352) 253-9092
george.gadiel@lakecountyfl.gov

Project Duration

March 2020-November 2021

Project Completed Within Schedule

Yes

Location of Office Performing Work

Burgess & Niple
1511 North Westshore Boulevard,
Suite 500, Tampa, Florida 33607

11. CR 547 (Davenport Blvd) at North 10th St Intersection Improvements

Polk County | Polk County, Florida

This project provides for intersection improvements along the existing CR 547 (Davenport Boulevard) at North 10th Street intersection in Polk County, Florida.

The existing intersection includes three approaches with only a southern approach via North 10th Street. The intersection is currently controlled in the north-south direction via a stop sign on North 10th Street. The proposed work effort will include a mast arm traffic signal. It is anticipated that traffic volumes on the northbound approach may warrant a northbound right turn lane. A study to obtain traffic volumes and determine whether this northbound right turn lanes is required will be performed. Widening is proposed for the northbound approach for a right turn lane and will require minor earthwork, new asphalt pavement, right of way acquisition, signing and striping, minor drainage design and temporary traffic control measures. This project qualifies for a permit exemption from the Southwest Florida Water Management District (SWFWMD).



Davenport Boulevard

RELEVANT FEATURES

- Roadway Design, Plans Preparation, and Construction Management
- Structures Design for Bridges, Signal and Sign Structures, and Box Culverts
- Plans Review and Expert Witness Services
- Utility Coordination
- Construction Phasing and MOT Plans
- Environmental Permitting

Role

Prime

Proposed Team

John Dee, Eric Olszewski, Janey Walls, David Meadows

Work Performed In-House:

Yes

Type/Scope of Services Provided

Roadway/Traffic Design

Owner's Contact Name and Address/Contact Person and Phone Number

Polk County Board of County Commissioners
William Lorenzo, PE
3000 Sheffield Road, Building 2864
Winter Haven, FL 33830
863-734-6915
WilliamLorenzo@polk-county.net

Project Duration

Ongoing

Project Completed Within Schedule

Ongoing

Location of Office Performing Work

Burgess & Niple
1511 North Westshore Boulevard,
Suite 500
Tampa, Florida 33607

12. Dommerich Hills Sidewalk Improvements - Phases II-IV

City of Maitland | Maitland, Florida

This project was completed under a continuing engineering services contract that has included a diverse array of projects as required by the Maitland Public Works Department on a task work order basis. Individual assignments have included signalization and turn lane improvements, peer review services, water, wastewater and stormwater design, miscellaneous structural design, utility coordination and survey, geotechnical and environmental services. To date, nearly 80 individual task work orders have been issued on this contract. Burgess & Niple has been continuously engaged by the City since 2009 having been renewed frequently and reselected in 2013 and 2018.

This particular project included curb ramp and crossing design, gravity wall details, and traffic control design for both vehicles and pedestrians.



ADA improvements included at driveways along with addition of new sidewalk.

Role

Prime

Proposed Team

Janey Walls, John Dee

Work Performed In-House:

Yes

Type/Scope of Services Provided

Roadway Design; Pedestrian Facilities

Owner’s Contact Name and Address/Contact Person and Phone Number

Ethan Hand
 City of Maitland
 1827 Fennell St
 Maitland, FL 32751
 O: 407-660-8187
 C: 407-448-2004
 ehand@itsmymaitland.com

Project Duration

June 2023-December 2024

Project Completed Within Schedule

Yes

Location of Office Performing Work

Burgess & Niple
 1511 North Westshore Boulevard,
 Suite 500
 Tampa, Florida 33607

RELEVANT FEATURES

- Comprehensive Transportation Capital Improvement Project
- Intersection Improvements
- Pedestrian Improvements
- Complete Streets Design

D. PROJECT APPROACH

PROJECT APPROACH



BUDGET METHODOLOGY/COST CONTROL

Danny Hendrickson, PE, PTOE, RSP₁ (Project

Manager) will ensure that the budget requirements are met through a variety of methods. Monitoring the funds available and spent on a continual basis is required to keep a project within budget. Project budgets will be monitored using our internal Project Gateway accounting system reports. Our staff receives weekly statements showing the hours that have been charged to each assignment, how much has been spent, and what the remaining budget is, in both dollar and hour increments. In addition, as applicable, we will develop construction cost estimates throughout the project life and work with the County to review the construction budget and the goals and objectives of the project to be sure they are comparable.

As part of an overall **Value Engineering approach**, our goal is to help the County make the biggest impact to transportation safety and operations with the limited budget. We do that by being data driven. When comparing alternatives, we perform a benefit/cost analysis that considers the construction & maintenance costs compared with the benefits of reduced delay to the traveling public and reduction in crashes over the life cycle of the improvement. Using this analysis, we can then rank and prioritize improvements to get the best bang for the buck.



QUALITY CONTROL METHODOLOGY

B&N believes that a quality product is the best marketing tool a company could ever utilize. A “fresh eyes” review by experienced professionals is essential to the success of any project and should include checking compliance with regulations/requirements, making sure provisions are made to ensure a high standard of technical project deliverables and reviewing for potential errors and omissions. The goal of Quality Assurance/Quality Control (QA/QC) is to provide project management with a tool to help achieve successful completion of a project. It is not to replace established work practices, rather to supplement them as necessary to provide documentation, traceability and reproducibility.

QA/QC related responsibilities that B&N will provide include:

- Developing and implementing a QA/QC Plan.
- Reviewing and approving project controlling documents.
- Coordinating and monitoring QA/QC Reviews.
- Responding to corrective action requests and assuring that deficiencies are corrected.
- Interfacing with the B&N team and providing a communication link between the team and the client.

QA/QC ROLES & RESPONSIBILITIES

The QA/QC Manager for this contract will be **Angelo Belluccia**,

PE. Angelo has more than 36 years of experience performing and reviewing various types of projects for state and municipal governments. As a QA/QC Manager, Angelo will work closely with our staff for effective planning and management of day-to-day QA/QC activities. He will ensure that every task includes a thorough QA/QC review. In addition, he will be responsible for performing a QA review of each project which ensures the project was placed through our QC procedures. Additional responsibilities as QA/QC Manager include:

- Advises project personnel of QA/QC policies and procedures.
- Maintains QA/QC-related files.
- Interfaces with County QA/QC personnel as required.
- Conducts and/or participates in the County and Internal Audits.
- Assures Certifications are provided by all Disciplines and Subconsultants.
- Retains QA/QC files electronically and provides as necessary to County.

CONSTRUCTABILITY/BIDABILITY REVIEWS

As appropriate, **Angelo Belluccia, PE** will also conduct Constructability/Bidability Reviews. His review will only be completed after the QA/QC process mentioned above has been completed. Prior to 90% submittal, this Constructability and Bidability Review will be conducted. The following items would be typically examined:

- Design assumptions and design notes.
- Applicable standards and specifications.
- Accuracy of computations.
- The application of judgement.
- The constructability and bidability of the project.
- Feasibility to meet the County’s and design professional objectives.

The review shall focus on quality, balanced with cost savings. The Constructability/Bidability Reviewer shall meet the Task Work Order Manager to discuss the findings of the review to assure that the design team addresses areas of the documents needing revision.

GETTING IT RIGHT... THE FIRST TIME : B&N’s QA/QC PROCESS





SCHEDULE MAINTENANCE METHODOLOGY

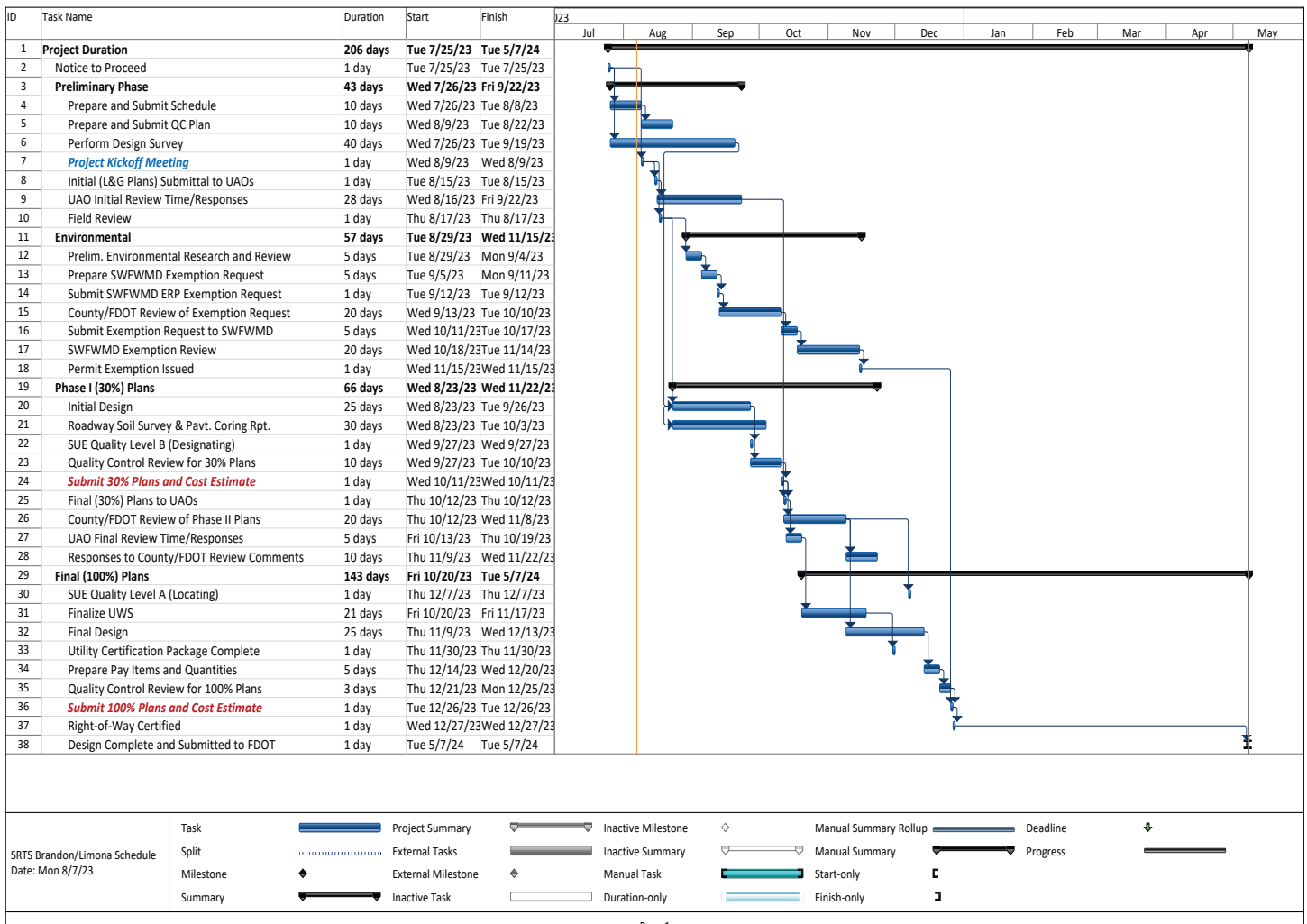
B&N works vigorously with our clients to ensure that their projects are completed when requested. This begins by **prioritizing each portion of the project process and assigning the proper personnel to complete it.** A project schedule will be prepared and will include all required critical tasks, as well as milestone events. In addition, the schedule will provide a working document for our team to monitor the progress during the management of this contract.

During the scoping process, it is important to identify the key tasks that could potentially impact the schedule and define ways to avoid delays and extensive time demands. B&N has instituted many tools on our previous projects to help maintain and/or accelerate a project schedule. Some of the innovative ideas we have implemented on projects to reduce the overall schedule include **reducing the number of phase submittals for signal design projects and accelerating data collection efforts by adding additional resources such as supplying additional traffic data collection crews to complete tasks quicker.** In addition, we have advanced critical path items such as easement acquisition, utility conflicts/relocations and permitting constraints

on design projects. B&N's most successful approach to these components is to avoid or minimize impacts whenever possible without compromising the safety or function of an improvement.

REDUCING COSTS & ACCELERATING SCHEDULES

B&N prides itself in our efforts to not only meet our client's budget, but to take it one step further and actually reduce our client's costs and accelerate the schedule while still accomplishing our client's goals. One great example of our ability to perform on work order driven contracts includes B&N's current District Wide Traffic Engineering Studies contract that is being conducted for the Florida Department of Transportation (FDOT) District One. Forty intersection traffic movement counts were requested to be performed during the same week in the City of Arcadia, Florida. To perform this task work order, B&N deployed our data collection team of eight personnel for the entire week and coordinated with all of our subconsultants to make up the remaining counts. In addition, a large quantity (as many as 30) work orders have been assigned during the peak traffic season (January to May). Scheduling personnel in all three phases of work (field, study and Quality Control) is extremely important with clear and accurate scheduling of deliverables.



Example project schedule

E. WORK COORDINATION

Work Coordination

PROXIMITY

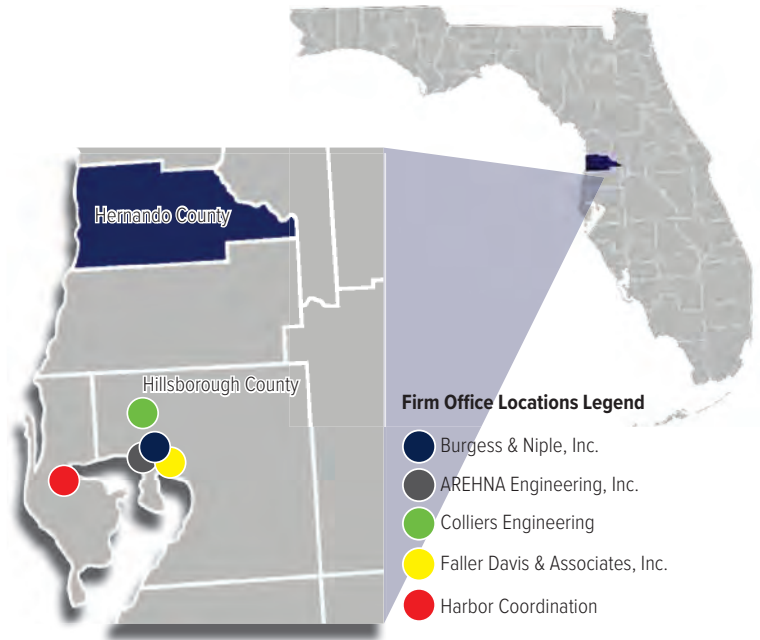
As the Project Manager and the County’s point of contact, Danny Hendrickson, PE, PTOE, RSP₁ will oversee the performance of all work performed by Burgess & Niple and our subconsultants. The table below defines where elements of the project work will be performed and the respective firm performing each element. The drive time from B&N’s Tampa office to Hernando County is approximately 48 minutes (49 miles). All of our proposed subconsultants will be working out of their local offices. Having all team members in a central location will expedite communication throughout the length of the contract.

FIRM’S FAMILIARITY WITH THE PROJECT AREA AND KNOWLEDGE OF LOCAL LABOR AND MATERIAL MARKETS

B&N possess a strong understanding of the local project area and have established relationships with key stakeholders in the County. For instance, during our involvement in previous County projects, we forged connections with local utility agencies such as WREC and the Hernando County Utility Department. In collaboration with WREC, we are actively working to prevent disruptions to their existing overhead electric lines and to install proposed luminaires on the existing utility poles at the SR 50 and Highline Drive intersection. Simultaneously, we are partnering with the County Utilities office on the same project to redirect their force main, ensuring it does not conflict with proposed drainage infrastructure.

These pre-existing relationships are valuable assets that will facilitate our engagement in future County design projects. They enable our team to collaborate closely with local stakeholders and devise innovative solutions that align with the project’s objectives while minimizing adverse impacts.

Furthermore, we are well-versed in the dynamics of the local labor and material markets within the County. Notably, Hernando falls within FDOT Area 7 on the historical cost index, aligning it with other counties of similar size and context. This understanding enhances our ability to navigate and engage effectively in the County’s specific economic and operational landscape.



PROJECT TEAM LOCATION			
Element of Work	Location	Prime or Sub	Key Personnel
Principal-In-Charge	Tampa	Prime	Angelo Belluccia, PE (B&N)
Project Manager	Tampa	Prime	Danny Hendrickson, PE, PTOE, RSP ₁ (B&N)
Traffic & Roadway Design	Orlando	Prime	John Dee, PE (B&N)
Traffic Study & Investigation	Tampa	Prime	Linda Wu, PhD, PE, RSP ₁ (B&N)
Land Use Planning/Grant Writing	Tampa	Prime	Dan Gallagher, AICP (B&N)
Structures	Tampa	Prime	Drew Appler, PE (B&N)
Utility Infrastructure	Tampa	Prime	Mark Atkininstall, PE (B&N)
Drainage	Tampa	Prime	Carl Spirio, PE (B&N)
Traffic & Roadway Design	Tampa	Sub	Nick Spatola, PE, PTOE (FDA)
Survey/Mapping/SUE	Tampa	Sub	Nicholas Fewell, CST (Colliers)
Survey/Mapping/SUE	Tampa	Sub	Wyatt Altman, PSM (Colliers)
Geotech	Tampa	Sub	Jessica McRory, PE (AREHNA)
Geotech	Tampa	Sub	Kirk Eastman, PE (AREHNA)
Utility Coordination	Clearwater	Sub	Jeanna Dean (Harbor)



DANNY HENDRICKSON

PE, PTOE, RSP₁

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Anti-Human Trafficking Affidavit

In compliance with Fla. Stat. § 787.06(13), this affidavit must be completed by an officer or representative of a nongovernmental entity that is executing, renewing, or extending a contract with Hernando County or any of its subordinate units (the “Governmental Entity”).

1. My name is Angelo Belluccia and I am over eighteen years of age. The following information is given from my own personal knowledge.
2. I am an officer or representative with Burgess & Niple, a non-governmental entity (the “Nongovernmental Entity”). I am authorized to provide this affidavit on behalf of Nongovernmental Entity.
3. Neither Nongovernmental Entity, nor any of its subsidiaries or affiliates, uses *coercion for labor or services*, as such italicized terms are defined in Fla. Stat. § 787.06, as it may be amended from time to time.
4. If, at any time in the future, Nongovernmental Entity does use coercion for labor or services, Nongovernmental Entity will immediately notify Governmental Entity and no contracts may be executed, renewed, or extended between the parties.
5. This declaration is made pursuant to Fla, Stat. § 92.525. I understand that making a false statement in this declaration may subject me to criminal penalties.

Under penalties of perjury, I Angelo Belluccia, declare that I have read the foregoing Anti-Human Trafficking Affidavit and that the facts stated in it are true.

FURTHER AFFIANT SAYETH NAUGHT.

Burgess & Niple

Name of Nongovernmental Entity

Angelo Belluccia

Printed Name of Affiant

Vice President

Title of Affiant

Angelo G

Signature of Affiant
Belluccia

Digitally signed by Angelo G
Belluccia

Date: 2024.10.30 18:11:09
-04'00'

Date