



RSQ No: 21-0940
ON-CALL TRANSPORTATION AND TRAFFIC
ENGINEERING SERVICES

SECTION 2: FORMS



W.E. OLIVER, P.E., LLC
SEPTEMBER 21, 2021

Forms

The following forms are provided in this section:

- Attachment 1: Submittal Form
- Sunbiz registration confirmation
- IRS W-9 Form
- Completed Addenda
- Proof of Insurance Certificate
- Attachment 3 – Team Composition Form, with resumes
- Attachment 4 – Location and Percentage of Work to be Completed Form

The undersigned hereby declares that: William E. Oliver, P.E., LLC has examined and accepts the specifications, terms, and conditions presented in this Solicitation, satisfies all legal requirements to do business with the County, and to furnish **On-Call, Transportation and Traffic Engineering Services** for which Submittals were advertised to be received no later than 3:00 P.M. Eastern time on the date stated in the solicitation or as noted in an addenda. Furthermore, the undersigned is duly authorized to execute this document and any contracts or other transactions required by award of this Solicitation.

All pricing will be FOB Destination unless otherwise specified in this solicitation document. Pricing submitted will remain valid for a ninety (90) day period.

Vendor will accept payment through the County Credit Card-based payment system: YES

1.0 TERM OF CONTRACT

The Contract will be awarded for an initial one (1) year term with the option for two (2) subsequent two (2) year renewals. Renewals are contingent upon mutual written agreement.

The Contract will commence upon the first day of the next calendar month after Board approval. The Contract remains in effect until completion of the expressed and implied warranty periods. The County reserves the right to negotiate for additional services/items similar in nature not known at time of solicitation.

2.0 METHOD OF PAYMENT

The Contractor must submit an accurate invoice to the County's using department's email. The date of the invoice must be after delivery but no more than 30 calendar days after delivery. Invoices must reference the: purchase or task order; delivery date, delivery location, and corresponding packing slip or delivery ticket signed by a County representative at the time of acceptance. Failure to submit invoices in the prescribed manner will delay payment.

Payments will be tendered in accordance with the Florida Prompt Payment Act, Part VII, Chapter 218, Florida Statutes. The County will remit full payment on all undisputed invoices within 45 days from receipt by the appropriate County using department. The County will pay interest not to exceed 1% per month on all undisputed invoices not paid within 30 days after the due date.

3.0 CERTIFICATION REGARDING LAKE COUNTY TERMS AND CONDITIONS:

I certify that I have reviewed the [General Terms and Conditions for Lake County Florida](#) and accept the Lake County General Terms and Conditions dated 5/6/21 as written including the Proprietary/Confidential Information section. YES Failure to acknowledge may result in Submittal being deemed non-responsive.

4.0 CERTIFICATION REGARDING FELONY CONVICTION:

Has any officer, director, or an executive performing equivalent duties, of the bidding entity been convicted of a felony during the past ten (10) years? NO

5.0 CONFLICT OF INTEREST DISCLOSURE CERTIFICATION:

Except as listed below, no employee, officer, or agent of the firm has any conflicts of interest, real or apparent, due to ownership, other clients, contracts, or interests associated with this project; and, this Submittal is made without prior understanding, agreement, or connection with any

corporation, firm, or person submitting a proposal for the same services, and is in all respects fair and without collusion or fraud. None

6.0 CERTIFICATION REGARDING BACKGROUND CHECKS:

Under any County Contract that involves Contractor or subcontractor personnel working in proximity to minors, the Vendor hereby confirms that any personnel so employed will have successfully completed an initial, and subsequent annual, Certified Background Check, completed by the Contractor at no additional cost to the County. The County retains the right to request and review any associated records with or without cause, and to require replacement of any Contractor employee found in violation of this requirement. Contractor shall indemnify the County in full for any adverse act of any such personnel in this regard. Additional requirements may apply in this regard as included within any specific contract award. YES

7.0 DISADVANTAGED BUSINESS ENTERPRISE PROGRAM

The County does not establish specific goals for minority set-asides however, participation by minority and non-minority qualified firms is strongly encouraged. If the firm is a minority firm or has obtained certification by the State of Florida, Office of Supplier Diversity, (OSD) (CMBE), please indicate the appropriate classification(s) not applicable [Choose an item.](#)
and enter OSD Certification Number [Click or tap here to enter text.](#)
and enter effective date [Click or tap to enter a date.](#) to date [Click or tap to enter a date.](#)

8.0 RECIPROCAL VENDOR PREFERENCE:

Vendors are advised the County has established, under Lake County Code, Chapter 2, Article VII, Sections 2-221 and 2-222; a process under which a local vendor preference program applied by another county may be applied in a reciprocal manner within Lake County. The following information is needed to support application of the Code:

- A. Primary business location of the responding Vendor: Tampa, Florida
- B. Does the responding vendor maintain a significant physical location in Lake County at which employees are located and business is regularly transacted: NO If “yes” is checked, provide supporting detail: [Click or tap here to enter text.](#)

9.0 GENERAL VENDOR INFORMATION:

Firm Name: W.E. Oliver, P.E., LLC
Street Address: 2606 W Morrison Av
City: Tamap State and ZIP Code: FL 33629
Mailing Address (if different): P.O. Box 10361, Tampa, FL 33679
Telephone: (813) 748-9188 Fax: n/a
Federal Identification Number / TIN: 46-4856220
DUNS Number: none

10.0 SUBMITTAL SIGNATURE:

I hereby certify the information indicated for this Submittal is true and accurate and that my electronic signature shall have the same legal effect as if made under oath; that I am an authorized representative of this Vendor and/or empowered to execute this Submittal on behalf of the Vendor.

I, individually and on behalf of the Vendor, acknowledge and agree to abide by all terms and conditions contained in this solicitation as well as any attachments, exhibits, or addenda.

Name of Legal Representative Submitting this Proposal: *William E. Oliver*

Date: 9/20/2021

Print Name: William E. Oliver

Title: President

Primary E-mail Address: bill@weo-pe.com

Secondary E-mail Address: [Click or tap here to enter text.](#)

The individual signing this Submittal affirms that the facts stated herein are true and that the response to this Solicitation has been submitted on behalf of the aforementioned Vendor.

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Proof of Sunbiz.org registration



[Department of State](#) / [Division of Corporations](#) / [Search Records](#) / [Search by Entity Name](#) /

Detail by Entity Name

Florida Limited Liability Company
W.E. OLIVER, P.E., LLC

Filing Information

Document Number L14000024800
FE/EIN Number 46-4856220
Date Filed 02/12/2014
State FL
Status ACTIVE

Principal Address

2606 MORRISON AVE
TAMPA, FL 33629

Mailing Address

P.O. Box 10361
TAMPA, FL 33679

Changed: 01/16/2018

Registered Agent Name & Address

OLIVER, WILLIAM E
2606 MORRISON AVE
TAMPA, FL 33629

Authorized Person(s) Detail

Name & Address

Title AMBR

OLIVER, WILLIAM E
2606 MORRISON AVE
TAMPA, FL 33629

Annual Reports

Report Year	Filed Date
2019	01/06/2019
2020	01/12/2020
2021	01/21/2021

Document Images

01/21/2021 -- ANNUAL REPORT	View image in PDF format
01/12/2020 -- ANNUAL REPORT	View image in PDF format
01/06/2019 -- ANNUAL REPORT	View image in PDF format
01/16/2018 -- ANNUAL REPORT	View image in PDF format
01/09/2017 -- ANNUAL REPORT	View image in PDF format
04/10/2016 -- ANNUAL REPORT	View image in PDF format
02/24/2015 -- ANNUAL REPORT	View image in PDF format
02/12/2014 -- Florida Limited Liability	View image in PDF format

Request for Taxpayer Identification Number and Certification

**Give Form to the
requester. Do not
send to the IRS.**

▶ Go to www.irs.gov/FormW9 for instructions and the latest information.

Print or type. See Specific Instructions on page 3.	<p>1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank. W. E. Oliver, P.E., LLC</p> <p>2 Business name/disregarded entity name, if different from above</p> <p>3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes.</p> <p><input type="checkbox"/> Individual/sole proprietor or single-member LLC <input type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate</p> <p><input checked="" type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ S</p> <p>Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is not disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.</p> <p><input type="checkbox"/> Other (see instructions) ▶</p>	<p>4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):</p> <p>Exempt payee code (if any) _____</p> <p>Exemption from FATCA reporting code (if any) _____</p> <p><small>(Applies to accounts maintained outside the U.S.)</small></p>
	<p>5 Address (number, street, and apt. or suite no.) See instructions. 2606 W. Morrison Av</p> <p>6 City, state, and ZIP code Tampa, FL 33629</p>	<p>7 List account number(s) here (optional)</p> <p>Requester's name and address (optional)</p>

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Social security number									
or									
Employer identification number									
4	6	-	4	8	5	6	2	2	0

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Part II Certification

- Under penalties of perjury, I certify that:
- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
 - I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
 - I am a U.S. citizen or other U.S. person (defined below); and
 - The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here	<p>Signature of U.S. person ▶ <i>Wm. E. Oliver</i></p>	<p>Date ▶ 8-17-2020</p>
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General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.



REAL FLORIDA • REAL CLOSE
Office of Procurement Services

P.O. Box 7800 • 315 W. Main St., Suite 441 • Tavares, FL 32778

SOLICITATION: On-Call, Transportation and Traffic Engineering Services

08/30/2021

Vendors are responsible for the receipt and acknowledgement of all addenda to a solicitation. Confirm acknowledgement by including an electronically completed copy of this addendum with submittal. Failure to acknowledge each addendum may prevent the submittal from being considered for award.

THIS ADDENDUM DOES NOT CHANGE THE DATE FOR RECEIPT OF PROPOSALS.

QUESTIONS/RESPONSES

Question 1. Will the County be providing topographic survey for task work orders or will the consultant need to provide survey?

Response 1. Survey is typically provided by the County for design projects under this contract as these are much smaller projects.

Question 2. Section 5.0.B. 2. Past Performance requires references / relevant projects completed within the last three (3) years, but the instructions on the Reference Form (Attachment 2) state that references must be less than five years old. Are we allowed to use projects less than five years old, or must they be within three years?

Response 2. The projects must be from within the past five years

Question 3. Section 6.0. E.4. Subcontractors/Joint Ventures section states, “Provide a list of proposed subcontractors or joint venture arrangements that may be used on the project. Provide the same information required in the Pricing Proposal for each sub-vendor or joint venture participant.” Since there is no ‘Pricing Proposal’ to be submitted, can you please specify what information is required for our subconsultants?

Response 3. The information is noted in the REVISED Attachment 3 – Team Composition Form.

ADDITIONAL INFORMATION

Remove and replace Attachment 3 – Team Composition Form with the REVISED Attachment 3 – Team Composition Form.

ACKNOWLEDGEMENT

Firm Name: W.E. Oliver, P.E., LLC

I hereby certify that my electronic signature has the same legal effect as if made under oath; that I am an authorized representative of this vendor and/or empowered to execute this submittal on behalf of the vendor.

ADDENDUM NO. 1

21-0940

Signature of Legal Representative Submitting this Bid: *William E. Oliver*

Date: 9/17/2021

Print Name: William E. Oliver

Title: President

Primary E-mail Address: bill@weo-pe.com

Secondary E-mail Address: [Click or tap here to enter text.](#)



Office of Procurement Services

P.O. Box 7800 • 315 W. Main St., Suite 441 • Tavares, FL 32778

SOLICITATION: On-Call Transportation and Traffic Engineering Services

09/14/2021

Vendors are responsible for the receipt and acknowledgement of all addenda to a solicitation. Confirm acknowledgement by including an electronically completed copy of this addendum with submittal. Failure to acknowledge each addendum may prevent the submittal from being considered for award.

THIS ADDENDUM DOES NOT CHANGE THE DATE FOR RECEIPT OF PROPOSALS.

QUESTIONS/RESPONSES

Q1. In reference to PDF page 5 (in the Solicitation) under item #4 Subcontractors/joint ventures - Could you clarify what is meant by the sentence? “Provide the same information in the pricing proposal for each sub-vendor or joint vendor participant.”

R1. There is no pricing component for this solicitation at this time. Please list any and subcontractors on Attachment 3 – Team Composition Form

Q2. Under the Lake County General Terms and Conditions for the On-Call Transportation and Traffic Engineering Services RSQ No. 21-0940, it appears the “Warranty” terms do not apply to engineering type services and the “Indemnification” provision does not comply with Florida Statutes 725.08. Would the County be open to discussion of modifications to these provisions? At the County’s convenience, and if necessary, we would be available to discuss these sections in more depth.

R2. The County will ensure that all indemnification language requirements are in accordance with Florida Statutes upon award of a contract.

ACKNOWLEDGEMENT

Firm Name: W.E. Oliver, P.E., LLC

I hereby certify that my electronic signature has the same legal effect as if made under oath; that I am an authorized representative of this vendor and/or empowered to execute this submittal on behalf of the vendor.

Signature of Legal Representative Submitting this Bid: *William E. Oliver*

Date: 9/17/2021

Print Name: William E. Oliver

Title: President

Primary E-mail Address: bill@weo-pe.com

Secondary E-mail Address: [Click or tap here to enter text.](#)

NOTEPAD:HOLDER CODE LAKECOU
INSURED'S NAME W. E. Oliver, P.E. LLCWEOLI-1
OP ID: TNPAGE 2
Date 09/20/2021

Lake County A polititcal Subdivision of the state of florida and board of county commissioners shall recieve a 30 day notice of cancellation for any reason other than non-payment of premium, which affords a 10 day notice.

CONSULTANT

ROLE	Name	City of Residence	Florida Active Registrations Number
Principal in Charge	W.E. Oliver	Tampa	FL PE 31157

SUB CONSULTANTS

ROLE	Company Name	Address	Individual's Name Assigned	Projected % of Overall Work	Worked with Prime before (YES/NO)	Individual Worked with Prime before (YES/NO)
Project Development	Wey Engineering	238 East Davis Blvd, Suite 212 Tampa, FL 33601	Matthew Wey, P.E.	18	Yes	Yes
Traffic Design	Roark Engineering	2017 Chimney Swift Hollow Tallahassee FL 32301	Drew Roark, P.E.	11	Yes	Yes
Safety Studies	Hagen Consulting Services	351 Strawder Rd Ray City, GA 31645	Larry Hagen, P.E.	10	No	Informally
Transportation Planning	MSRCG	8885 Key West Circle Tampa, FL 33626	Sri Meka, P.E.	9	Yes	Yes
Transit, Bicycle, Pedestrian Design	JRB Solutions	3023 Eastland Blvd, Suite 110, Clearwater, FL 33615	James Fogarty, P.E., LEED, A.P.	3	No	Yes
Roadway Design	Bayer United Engineering	320 W Kennedy Blvd, Suite 650, Tampa, FL 33601	Mark Bayer, P.E.	4	No	No
Traffic Data Collection	National Data Services, Inc.	10286 NW 47th St. Sunrise, FL 33351	Diana Leon	5	Yes	Yes



P.O. Box 10361
Tampa, Florida
33679

bill@weo-pe.com

(813) 748-9188

SBE/SLBE

Florida DOT Pre-Certifications:

- 6.1, Traffic Engineering Studies
- 6.2 Traffic Signal Timing
- 7.1 Signing, Pavement Marking, and Channelization
- 7.2 Lighting
- 7.3 Signalization
- 13.3 Policy Planning
- 13.5 Subarea/Corridor Planning
- 13.6 Land Planning/Engineering
- 13.7 Transportation Statistics
- 13.4 Systems Planning

William E. (“Bill”) Oliver, P.E., PTOE

Bill Oliver has practiced professional traffic engineering and transportation planning in Florida since 1978, earning a reputation for versatility, sound transportation analyses, practical solutions to client issues, and an understanding of Florida’s growth management processes. He has built strong relationships with his clients, whether private or public sector, and has worked effectively with neighborhood groups and agency staff to find practical solutions to transportation issues that meet the needs of interested parties.

Bill’s areas of practice and project management include:

- long-range transportation systems planning,
- sub-area transportation network planning,
- development of growth management policies and regulations relating to development impacts on the transportation system,
- land use plan amendments,
- development of regional impact (DRI), rezoning, concurrency, and site access permitting,
- developing transportation mobility and impact fees,
- roadway improvement design traffic and traffic operations analysis,
- roadway typical section development, including “complete streets”,
- access management,
- safety and street lighting analyses, and
- intersection conceptual design (traffic signals, roundabouts).

He has supplemented these activities with expert testimony at public hearings, certificate of need proceedings, and neighborhood meetings; presentations at professional organization conferences; providing input to legislative task forces; and by publishing related articles – demonstrating excellent communications skills.

Education:

- B.S. Civil Engineering, University of Virginia, 1978, with high distinction
- M.S. Civil Engineering, University of Virginia, 1979

Professional Registrations:

- Professional Engineer, Florida, 31157
- Professional Traffic Operations Engineer, 129

Member:

- Institute of Transportation Engineers

Previous Employment:

12/2017 – Current: Owner, W.E. Oliver, P.E., LLC. Practice includes impact/mobility fees, traffic impact and site access studies, traffic signal design, transportation planning services.

1/2015 – 11/2017 Senior Principal Engineer, Kittelson and Associates, Inc. Opened branch office for Kittelson in Tampa, secured multiple MPO and private sector contracts, directed roadway PD&E study, impact/mobility fee studies, land development planning studies.

2/1989 – 2/2014 Senior Vice-President, Tindale-Oliver and Associates, Inc. Directed traffic engineering and transportation staff of up to 9-10 staff supporting land development, transportation planning, roadway project development and design studies. Responsible for business development, employee development, and production for the group.

8/1981 – 1/1988 Associate, Kimley-Horn and Associates, Inc. Project manager and managed team of 4-6 production staff undertaking development impact and roadway design analyses.

10/1978-7/1981 Traffic Engineer, City of Tampa, Florida. Served as City representative to MPO Technical Advisory Committee, reviewed land development proposals.

Professional Affiliations/Task Advisory Committees:

- Institute of Transportation Engineers (National and Florida Section)
- Tampa Bay Applications Group
- Model Proportionate Share Ordinance Task Force (2005/2006)

Representative Projects and Clients:

- Development Site Due Diligence Reviews, TaylorMorrison
- Traffic Signalization Plans, Hotel Driveway at Epcot Resorts Blvd, Lake Buena Vista, FL
- Tampa Downtown DRI, Tampa, FL
- St. Petersburg Times Forum (“Ice Palace”) DRI, Lightning Partners
- DRI analysis for over 170 million s.f. and 150,000 dwellings of development.
- Dozens of traffic impact studies for smaller rezoning and land use plan amendment proposals
- Consultant to City of Sarasota regarding traffic impacts of development proposals
- Multi-Modal Mobility Fee Studies for Pasco, Lake, and Seminole Counties, City of Orlando, FL
- US 41 Roundabouts Study, City of Sarasota, FL
- Long Range Transportation Plan, Volusia County, Charlotte County MPO/Florida DOT
- Livingston Road PD&E Study, Collier County, FL
- Goodlette-Frank Road PD&E Study, Collier County, FL
- Golden Gate Boulevard PD&E Study, Collier County, FL
- US 19: 66th Avenue North to 118th Avenue North PD&E Update Study, HW Lochner/Florida DOT
- Morrison Avenue Area Traffic Calming Study, City of Tampa, FL
- 22nd Avenue North Multi-Modal Corridor Study, Pinellas County MPO



Matthew G. Wey, PE

Matthew G. Wey, PE formed Wey Engineering, PLLC in September 2018 after 22 years of providing project development, traffic engineering, and transportation planning services to federal, state, municipal, university, and private clients.

Mr. Wey has served as project manager and lead engineer on a wide variety of traffic engineering studies, multimodal transportation planning projects, NEPA environmental studies, and project development and environment (PD&E) studies. His expertise includes the development of regional multimodal transportation plans and freight programs, the creation of large-scale access management plans, and the completion of traffic impact and transportation corridor studies in rural, urban, and environmentally sensitive locations. He has headed many public engagement programs and has considerable experience in coordination between governmental and environmental agencies, transit and utility providers, businesses, community groups, and other project stakeholders. He has conducted technical analyses using macro-level traffic applications (HCS, SIDRA, Synchro) and microsimulation (SimTraffic, CORSIM, and VISSIM) to support more than forty (40) interchange access requests in multiple Florida Department of Transportation (FDOT) Districts and is experienced in the development of design traffic memoranda and preliminary engineering reports, conceptual roadway design, and transportation cost estimating. A sample listing of Mr. Wey's project experience is provided below:

General Engineering Consultant (GEC); Districtwide, FL

Owner: Florida Department of Transportation-District 7

Principal Traffic Engineer | 8/2006 - Present

Responsible for acting as an extension of FDOT staff while serving as both an in-house consultant and external advisor to the Planning and Environmental Management Office of FDOT 7. Responsible for reviewing traffic impact studies affecting the State Highway System (SHS), performing plans review in support of design project phase submittals and enhancement projects, developing construction cost estimates in the FDOT's LRE System, reviewing corridor feasibility studies/area wide transportation plans/preliminary engineering reports and assisting with statewide research efforts spearheaded by FDOT Central Office. In addition, Mr. Wey is integral in preparing numerous Interchange Access Requests (IARs) in support of access modifications to the Interstate System within the Tampa Bay Region and other parts of Florida.

Strategic Intermodal System (SIS) Consultant; Districtwide, FL

Owner: Florida Department of Transportation-District 7

Project Manager | 10/2015 - Present

On-call engineering/planning services and studies for all corridors and multimodal facilities identified on the Strategic Intermodal System (SIS). This effort includes the preparation of planning and traffic studies, preliminary engineering and design, review of Interchange Access Requests, assistance in SIS funding strategy and priorities for future work and assisting the District with getting new corridors identified as SIS facilities. Responsible for:

- Conducting corridor studies to identify existing operational and highway safety deficiencies and their corresponding transportation system management and operations (TSM&O) improvements;
- Developing traffic forecasts to identify future transportation needs of SIS corridors/facilities and documenting these needs in the form of Action/Master Plans, Design Traffic Technical Memoranda (DTTM), and Project Traffic Analysis Reports (PTARs); and,

Years of Experience:

24

Education:

- Bachelor of Science in Civil Engineering, University of South Florida, Tampa, FL 1997
- Master of Science in Civil Engineering, University of South Florida, Tampa, FL 2000

Professional Registration:

- Professional Engineer: FL #59545 (1/14/2003)

Certifications:

- Professional Traffic Operations Engineer #1114 (4/7/2003)

Affiliations:

- Institute of Transportation Engineers (ITE) International – Fellow
- American Society of Civil Engineers (ASCE) – Member

Publications:

- Development of Statistical Models to Estimate Crash Frequency at Urban, Four-Legged, Signalized Intersections in the State of Florida

Areas of Expertise:

- Microsimulation
- Highway Capacity and Level of Service
- Highway Safety
- Signal Warrant and Signal Timing Analysis
- Access Management Studies
- Traffic Operational Analysis
- Traffic Impact Studies
- Traffic Data Collection
- Sub Area/Corridor Studies
- Interchange Access Requests (IARs)
- Freight Mobility and Logistics
- Project Development and Environment (PD&E) Studies
- Alternative Development and Analysis
- Conceptual Roadway Design
- Multi-modal Transportation Planning
- Traffic Forecasting/Modeling
- Public Involvement
- Growth Management
- Complete Streets
- Intersection Control Evaluation (ICE)
- Long Range Estimates (LRE)
- Plans Review
- Managed Lanes
- Lane Elimination Studies
- Innovative Intersections and Interchanges
- Roundabouts

- Preparing interchange access requests while employing innovative intersection and interchange design concepts such as Diverging Diamond Interchanges (DDIs), Continuous Flow Intersections (CFIs), displaced left turns, Superstreets, etc.

Gateway Expressway and TBNext Section 2 Design-Build – Concept Plans and RFP; Pinellas County, FL

Owner: Florida Department of Transportation-District 7

Principal Traffic Engineer | 4/2014 - Present

Design-Build Support Services for the \$540M Gateway Expressway: a new elevated, tolled expressway connecting US 19, St. Petersburg–Clearwater Airport, and the Bayside Bridge directly to I-275 and the addition of express lanes along I-275 from south of Gandy Blvd to north of 4th Street. Coordinated with the Department and stakeholders to refine the design and consolidate multiples sets of design plans originally intended for separate construction, added toll facilities, modified details to the level of indicative plans suitable for a Design-Build RFP, and created a homogenous design that can be constructed as one project. Prepared the Request for Proposal as well as supporting documents including the Typical Section Package, Pavement Design, Variations/Exceptions, and permits. Provided technical advice to FDOT during procurement process, including review of the proposals and alternative technical concepts submitted by the prospective DB Firms. After selection of the DB Firm, Mr. Wey has continued to review all design plans and serves as FDOT's Owner's Representative to provide continuity and to address any technical issues that arise during construction.

Responsible for:

- Developing traffic forecasts and a comprehensive CORSIM model to analyze and refine the geometric conditions of the future build conditions; and
- Acting as an extension of FDOT staff by reviewing all traffic-related aspects of the alternative technical concepts (ATCs) proposed by the various design build teams and advising the Department on the safety and operational effects of the ATCs.

I-275 Pinellas Managed Lanes Study; Pinellas County, FL

Owner: Florida Department of Transportation-District 7

Project Manager and Principal Traffic Engineer | 6/2012 - Present

Engineering, alternative development, and cost estimation for the Project Development and Environmental (PD&E) Study to evaluate the addition of lane continuity improvements and managed lanes to I-275 from south of 54th Avenue South to north of 4th Street North in Pinellas County. These improvements have been developed as part of a regional master plan to add managed lanes to major highways throughout the Tampa Bay Region called TBNext.

Responsible for:

- Conducting stakeholder outreach and coordination with TBNext (formerly Tampa Bay Express – TBX) and Florida's Turnpike Enterprise for planning, design, and operation of tolled express lanes;
- Performing future traffic operational analyses of tolled express lanes and general-purpose lanes using microsimulation; and
- Developing the preliminary engineering report and supporting engineering and environmental documents used in obtaining NEPA approval from FHWA.

Access Management Consultant; Districtwide, FL

Owner: Florida Department of Transportation-District 1

Project Manager / Principal Traffic Engineer | 3/2010 - 8/2011

Project Manager and lead traffic engineer for a districtwide contract to provide traffic safety and operations studies and site access evaluations relative to Administrative Rule 14-97.

Responsible for:

- Evaluating corridors and individual sites on the State Highway System (SHS) relative to site access issues, roadway level of service, traffic operations and safety issues; and
- Developing corridor access management plans (CAMPs), evaluating the need for traffic signalization and median closures and the effects that these traffic control devices have on safety and on arterial operations.

Districtwide Traffic Safety and Operations Studies; Districtwide, FL

Owner: Florida Department of Transportation-District 6

Senior Traffic Engineer | 3/2003 - 8/2007

Task work order-based contract to provide FDOT District 6 on-call traffic engineering and highway safety services and studies for all roadway facilities identified on the State Highway System in District 6.

Responsible for:

- Assisting staff with the completion of traffic safety and operational studies that include the development of crash diagrams and crash profiles, intersection capacity analyses, travel time and delay studies, signal warrant and left turn signal phasing studies, and traffic microsimulation.



CHARLES ANDREW (DREW) ROARK, PE, CTL

Experience

Mr. Roark has over 25 years of experience in the transportation consulting industry with over 10 years of senior management experience in the transportation consulting industry. He has experience from traffic data collection to directing the Transportation Sector for the Southeast US for large engineering firms. As is shown below, although Mr. Roark's experience is broad across many areas within the industry, his technical specialties are primarily in the area of traffic engineering and planning. Mr. Roark has been directly involved with multiple Project Development and Environment (PD&E) studies, managed specialty projects such as the Florida Department of Transportation Central Office Transportation Statistics Data Support project and the Florida Statewide Motor Carrier Compliance General Consultant contract. Mr. Roark is experienced in preparation and review of transportation impact studies for numerous Developments of Regional Impact (DRI) throughout the state of Florida. His experience has included preparation and supervision of data collection programs, coordination with local review agencies, preparation of traffic signal warrant reports, modeling of future traffic volumes using the FSUTMS model, calculations of projected impact fees including independent impact fee studies and preliminary roadway planning and design.

Mr. Roark is also experienced in the planning for surface transportation roadways of airports. His experience in this area includes the development of software used as a planning tool for curb fronts, as well as general planning for airport circulation roadways.

Project experience includes:

- Destin Traffic Signals Update, Destin, Florida – 3TP. This project included updating the phasing, timings, and geometries of all of the traffic signals within the City of Destin. As a sub to 3TP, Roark Engineering provided all of the services and deliverables including the updated Synchro files and models.
- First and Second Street Signal Designs, City of Fort Myers, Florida. Signal Design Lead. Project included the re-design of six traffic signals. Five of the intersections included mast arms, and one was strain pole. The intersections are located on First and Second Street, which were one-way pairs and were being converted back to two-way and taken over by the City of Fort Myers. Challenges included trying to re-use as much of the existing infrastructure as possible. Project included converting loop detectors to video detection and signal timings.
- Woodville Highway Safety Study. FDOT District 3, Tallahassee, Florida. Project Manager. Project included evaluation of five years of crash records to determine patterns and appropriate crash mitigation and crash modification factors using the Highway Safety Manual. Recommendations including conceptual designs and benefit cost analyses were included.
- Jasper Ocean Terminal, Jasper County South Carolina – Moffatt & Nichol. Project is the development of a roadway and rail construction concept to service the terminal operations for a 1,500-acre site including 7 million TEUs annual throughput capacity, berths for Post-Panamax ships, rail service, and highway access. Mr. Roark authored the Roadway and Rail Construction Concept Report.
- Maintenance Engineering and Inspection (MEI) Support, Florida Department of Transportation, District Three – Project Manager. This project supported the District Maintenance Office by providing the appropriate qualified staff of Inspectors, Inspector Aides, Quality Managers, etc. and the appropriate equipment to maintain the existing infrastructure within District Three. The project

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services included Plans Reviews, Advance Maintenance Contract Evaluation, Reporting System Maintenance, Utility Coordination, Permitting Inspection, Maintenance Inspection, CEI Support, Emergency Support, Safety Program, Document Control, Traffic Control Review, and other services.

- BluePrint 2000 General Engineering Consultant, Tallahassee, Florida. City of Tallahassee, Florida. Quality Assurance Manager. Support of the development, design, financing, and construction process for all projects administered under BluePrint 2000 Program, a 15-year sales-tax-funded transportation, floodway, and greenway improvement program. The program, which provides an effective and efficient infrastructure and natural resource management plan, has become one of the most successful community improvement efforts in the country and a model for environmental and economic consensus. The program has facilitated major corridor improvements, constructed stormwater and flood-control systems, helped preserve environmentally sensitive lands, and developed the first phase of a signature community park. The project also developed accurate construction cost estimates, facilitated necessary fieldwork, prepared project concept reports, and created a master plan to fit the anticipated sales tax revenue. Project team was also responsible for reviewing all plans, including bridge development reports, bridge hydrology reports, and construction plans, and for conducting value engineering studies for all disciplines, including structures.
- Transportation Statistics Data Support Contract, Florida Department of Transportation, Central Office (2012-2015) (multiple selections) - Project Manager/Officer. Involves a General Consultant contract supporting Central Office Statistics. This contract includes assignments in traffic monitoring (primarily relating to data extraction from the permanent count stations, teaching the Project Traffic Forecasting classes and development of the new Project Traffic Forecasting database), data collection (freight, RCI, RITA, SLD, Video Log, route sequencing and Quality Control processes), data analysis (HPMS, city-county mileage web site and VMT) and GIS Basemap (FREAC, Remote sensing, ArcGIS and ArcSDE application development and testing) areas.
- I-10 (SR 8) from Okaloosa County Line to East of SR 83 (US 331), Florida Department of Transportation, District 3, Walton County, Florida--Project Officer. Project is the design of resurfacing for over 18 miles of a four-lane interstate in Walton County, Florida. The project consists of milling and resurfacing the interstate, along with upgrades/additions to drainage facilities.
- US 98 (SR 30) from CR 30F(Airport Road) to the Walton County Line, Florida Department of Transportation, District 3 – Project Officer. Project is the design of a capacity improvement from four to six lanes. Our portion of the project included traffic data collection, analysis and signal design, noise analysis, landscape architecture, and permitting.
- I-10 (SR 8) from Apalachicola River to West of SR 12, Florida Department of Transportation, District 3, Leon County, Florida--Project Director. Project is the design of resurfacing for a four-lane interstate in Gadsden County, Florida. The project consists of milling and resurfacing the interstate, along with upgrades/additions to drainage facilities.
- Pensacola Bay Bridge Project Development and Engineering (PD&E) Study, Florida Department of Transportation, District 3--Project Director. Involved a PD&E study to evaluate the widening of a four-lane bridge to six lanes. Project included development of alternatives, engineering and environmental analysis to determine impacts associated with the alternatives, public meetings, selection of preferred alternative and documentation.
- Bannerman Road Corridor Study, Leon County, Florida--Project Manager. Preparation of a corridor study to analyze a two-lane divided roadway and its applicability to be widened to four lanes. Project includes traffic analysis, development of alternatives, evaluation of the preferred alignment, review of potential environmental impacts, public participation and reports documenting the analysis completed.
- I-75 at Bill Gardner Parkway Interchange Modification Report (IMR), Locust Grove, Georgia--Project Engineer. Responsible for developing opening, interim and design year, design hour traffic volumes

and interchange alternatives. Performed capacity, CORSIM and operational analysis for the No-Build and Build alternatives. Responsible for quality assurance of the Interchange Modification Report (IMR).

- Motor Carrier Compliance (OMCC) General Consultant, Florida Department of Transportation, Central Office--Project Manager. A General Consultant contract providing architectural and engineering services, including planning, environmental, building design, geotechnical, landscaping, developing design criteria for design-build, permitting and other necessary services to assist in the planning, construction and management of various projects and facilities around the state of Florida managed by the OMCC.
- Transportation Statistics Support Contract, Florida Department of Transportation, Central Office (2006-2013)--Project Manager. Involves a General Consultant contract supporting Central Office Statistics. This contract includes assignments in traffic monitoring (primarily relating to data extraction from the permanent count stations, teaching the Project Traffic Forecasting classes and development of the new Project Traffic Forecasting database), data collection (RCI, RITA, SLD, Video Log, route sequencing and Quality Control processes), data analysis (HPMS, city-county mileage web site and VMT) and GIS Basemap (FREAC, Remote sensing, ArcGIS and ArcSDE application development and testing) areas.
- Destin Traffic Study, Destin, Florida--Project Manager. Traffic study analyzing a new alignment extension of a roadway connecting two roadways. Project included traffic data collection and analysis using Synchro software and report.
- Comprehensive Plan Update, Southwest Florida International Airport, Fort Myers, Florida--Transportation Engineer. Involved a general planning study of the Southwest Florida International Airport (RSW) to update the local comprehensive plan and to remove RSW from the DRI process in Florida. Responsibilities included traffic and transportation analysis of roadway surrounding and within the airport, including airport trip generation, distribution, assignment and analysis.
- SR 70, 34th Avenue to Berman Road Project Development and Engineering (PD&E) Study, Florida Department of Transportation, District 1--Project Manager. Involved a PD&E study to widen SR 70 from two lanes to four lanes. Project included development of alternatives, engineering and environmental analysis to determine impacts associated with the alternatives, public meetings, selection of preferred alternative and documentation.
- Westside Boulevard from I-4 to Osceola/Polk County Line Route Study, Polk County, Florida--Project Manager. Preparation of a corridor study for a new segment of Westside Boulevard. Project includes traffic analysis, development of alternatives, evaluation of the preferred alignment, review of potential environmental impacts, public participation and reports documenting the analysis completed.
- SR 54 (West of CR 579 to East of Curley Road), Pasco County Government, Pasco County, Florida--Project Manager. Under the Pasco Continuing Professional Services Agreement, prepared a Project Development and Environment (PD&E) study to be carried forward as a State Environmental Impact Report to determine needed improvements to this roadway. Project includes traffic projection to the 2025 design year, engineering analysis to determine right-of-way requirements for alternatives developed, environmental evaluation and a public involvement program.
- Clinton Avenue Extension (McKendree Boulevard to East of Curley Road) Pasco County, Florida--Project Manager. Under the Pasco Continuing Professional Services Agreement, prepared a corridor study for the new segment of Clinton Avenue. Project includes traffic analysis, development of alternatives, evaluation of the best-fit alignment, review of potential environmental impacts, public participation and reports documenting the analysis completed. Right-of-way maps prepared to document existing conditions.

- CR 54 (US 27 to US 17/92), Polk County Government, Polk County, Florida--Project Manager. Under the Pasco Continuing Professional Services Agreement, prepared a corridor study for this segment of CR 54. Project includes traffic analysis of existing conditions, projection of traffic to the 2025 design year and determining of future laneage needs. Alternatives developed and analyzed to determine future right-of-way requirements.
- Florida's Turnpike at the Lake Worth Road Interchange Project Development and Environment (PD&E) Study, Florida's Turnpike Enterprise, Palm Beach County, Florida--Engineering Lead. Prepared a PD&E study to be carried forward as a State Environmental Impact Report to determine needed improvements to this Interchange. Project includes engineering and environmental analyses to determine impacts associated with alternatives developed.
- US 27 Weigh-in-Motion (WIM) Project Development and Environment (PD&E) Study, Florida Department of Transportation, District 1, Glades and Highland Counties, Florida--Project Manager. Prepared a PD&E study re-evaluation to locate two WIM stations on US 27 between SR 29 in Glades County and SR 70 in Highlands County. Project included a Site Selection Report and development of alternatives. The environmental evaluation included sand skink surveys to determine whether this species existed at several potential sites. The public involvement program included coordination with county officials, a Public Information Workshop and Public Hearing.
- I-4 Weigh-in-Motion (WIM) Project Development and Environment (PD&E) Study, Florida Department of Transportation, District 1--Transportation Engineer. Prepared a PD&E study to locate two WIM stations on I-4 between I-75 and US 27. Project included projection of traffic volumes on I-4 to the 2030 design year, preparation of a Site Selection Report, engineering analysis to determine site and ramp geometry, environmental evaluation of alternatives and public involvement program.
- Hillsborough County Signal Warrants – Hillsborough County Government, Hillsborough County, Florida – Project Manager. As part of an on-call contract this project included providing traffic signal warrant analyses at intersections specified by Hillsborough County. Field and traffic volume count data were collected at each intersection. Scope included analyzing dozens of intersections that were suspected of the need for a signal or were citizen inquiries.
- Hillsborough County Intersection Master Plan Program – Hillsborough County Government, Hillsborough County, Florida – Project Manager. As part of an on-call contract this project included providing cost effective solutions to specified issues at intersections in Hillsborough County. Traffic volumes and other data were collected at each intersection. Each intersection was analyzed to determine the issue and a cost-effective solution was developed and associated benefits were developed. All of the intersections were then prioritized based on b/c ratios.
- Hillsborough County Traffic Calming Program – Hillsborough County Government, Hillsborough County, Florida – Project Manager. Essentially a traffic count program to establish traffic volumes on local Hillsborough County roadways to determine appropriate traffic calming strategies. Traffic counts were at hundreds of locations around the county and included tube and magnetic card counters.
- Pauls Drive (Brandon Main Street) from Brandon Boulevard to Bandon Parkway, Hillsborough County Government, Hillsborough County, Florida--Transportation Engineer. Prepared a Project Development and Environment (PD&E) study to determine typical sections and alignment to Pauls Drive (Brandon Main Street). Project included traffic analysis, development of alternatives, evaluation of the best-fit alignment, review of potential environmental impacts, public participation and reports documenting the analysis completed. Right-of-way maps prepared to document existing conditions.
- Dover/Little/Durant Intersection Improvement Study, Hillsborough County Government, Hillsborough County, Florida--Project Manager. Preparing a study to examine existing and future traffic

operations, document accident occurrences and review potential solutions to improve geometry at this intersection.

- I-275/SR 60/I-4 CORSIM Evaluations, Tampa, Florida--Transportation Engineer. Simulation and evaluation study using CORSIM to identify problem areas for opening-day traffic operations for the combined interim improvements on LINKS, I-275 and I-4.
- Busch Boulevard CMS Corridor Study, Tampa, Florida--Transportation Engineer. Corridor study to identify problem areas and potential low-cost solutions to improve mobility by reducing congestion and maximizing the potential for alternative modes.
- Multimodal Transportation Needs Plan, Plant City, Florida--Transportation Engineer. Study to develop an action plan for transportation improvements within the city of Plant City. Responsibilities included data collection and analysis, agency coordination and report preparation.
- CR 578/County Line Road Project Development and Environment (PD&E) Study, Pasco and Hernando Counties, Florida. Multilane improvements to CR 578 and an extension of CR 576. Responsibilities included transportation analyses of CR 578 and CR 576 for multiple development years with alternatives.
- SMATS Long-Range Transportation Plan Update, Sarasota and Manatee Counties, Florida. Aided in future land-use plans to be used in the development of the FSUTMS models. This project developed a cost-constrained multimodal transportation plan for Sarasota and Manatee Counties.
- Lee Roy Selmon Expressway Project Development and Environment (PD&E) Study, Tampa Florida. Reversible lanes on the expressway from Brandon to downtown Tampa. Responsibilities included analyses for the expressway and ramps for all alternatives.
- Lee Roy Selmon Expressway Reversible Lanes Study. Traffic Engineer. Tampa-Hillsborough Expressway Authority. Tampa, FL. Project was part of a General Engineering contract to analyze elevated reversible expressway lanes utilizing CORSIM modeling throughout the project.
- Bearss Avenue CMS Corridor Study, Tampa, Florida. Corridor study to identify problem areas and potential low-cost solutions to improve mobility by reducing congestion and maximizing the potential for alternative travel modes. Responsibilities included analyses for intersections within the study.
- Tampa Regional Goods Movement Study, Florida Department of Transportation, District 7--Transportation Engineer. Study to develop recommendations for actions which will improve the safety, efficiency and effectiveness of goods movement in the Tampa Bay area. This study identifies and addresses the major issues and concerns of goods movement in the area and provides a blueprint for actions that need to be undertaken to ensure an adequate and efficient system of freight movement in Tampa Bay.
- JFK International Airport Curbside Analysis. Curbside analyses for all nine terminals at John F. Kennedy International Airport. Responsibilities included data collection and development of a computer model to replicate existing and future conditions.
- Development and Enhancement of Impact Fee Schedule, Collier County, Florida. Performed studies to determine the trip rate and trip lengths for many existing and new land-use types to develop an impact fee schedule that would more accurately assess impact fees to multiple land uses.
- Transportation Impact Analyses. Conducted transportation impact analysis for the following projects as well as over a dozen others in the Tallahassee Area:

- Florida Mall DRI, Orange County, Florida
 - Northbrook Development, Collier County, Florida
 - Riviera Dunes DRI, Manatee County, Florida
 - Sarasota Memorial Hospital, Sarasota County, Florida
 - Connerton DRI, Pasco County, Florida
 - Tampa Tech Park, Hillsborough County, Florida
- Development of Regional Impact Reviews, Florida. Conducted a thorough review of the DRI. Responsibilities included checking methodologies and procedures for reasonableness and accuracy, identifying errors and suggesting solutions or alternative procedures. Includes the following DRIs:
 - Saddlebrook, Pasco County, Florida
 - Independence Park, Hillsborough County, Florida
 - Westshore Areawide, Hillsborough County, Florida
 - Northwood, Pasco County, Florida
 - Cypress Creek, Pasco County, Florida
 - Tara, Manatee County, Florida
 - Long Lake Ranch, Pasco County, Florida
 - South Shore Corporate Park, Hillsborough County, Florida
 - Sunlake Centre, Pasco County, Florida
 - CR 581 (Bruce B. Downs Boulevard) Corridor Study. Corridor study to identify problem areas and potential low-cost solutions to improve mobility by reducing congestion and maximizing the potential for alternative travel modes. Responsibilities included analyses for intersections within the study.

Professional Credentials

Bachelor of Science in Civil Engineering, University of South Florida, 1997

Registered Professional Engineer: Florida (No. 56826), 2001

Registered Professional Traffic Operations Engineer: (No. 1105), 2003 - 2009

Board Member, Tampa Bay Chapter Institute of Transportation Engineers, 2005 - 2007

Member, Institute of Transportation Engineers, Planning Council

Member, Leadership Tallahassee Class 26

Board Member, Tallahassee Economic Development Council, 2014

Certification in Transportation and Logistics (CTL), 2014 – Lifetime Member

Public Relations Committee Member, ACEC FL - Current

Transportation Committee Member, ACEC FL – Current

Small Business Subcommittee Member, ACEC FL – Current

Florida Engineering Society – Big Bend Chapter – Current

Updated 07/01/2021

Résumé of Lawrence T. Hagen, P.E., PTOE, RSP

Education

University of Florida:

Master of Engineering, Civil Engineering -- 1988

Graduate work specializing in transportation engineering

Bachelor of Science in Civil Engineering -- 1985



Experience

Hagen Consulting Services, LLC

Owner / Principal – July 2006 - Present

Providing engineering consulting services in areas related to traffic operations, traffic safety, road safety audits, and intelligent transportation systems. Current FDOT projects include: Safety Studies & Minor Design (D1); Traffic Safety and Minor Design (D3); Community Safety Studies and Design (D5); Pedestrian Bicycle Safety (D6), Plans Review (D6), Traffic Signal Retiming (D6 & D7), Safety Studies & Minor Design (D7), Traffic Operations Support (D7), Connected and Automated Vehicle Support (Central Office), and Pedestrian and Bicycle Safety Engineering (Central Office). Also providing professional development training and PDHs for engineers nationwide including the Florida Greenbook, Engineering Ethics, and Florida's Laws & Rules.

Technology Transfer Center / University of Florida

Safety Circuit Rider Manager – July 2006 - July 2012

Responsibilities include providing training and technical assistance to transportation agencies throughout Florida. Courses taught included “Low-Cost Safety Improvements,” “Road Safety Audits,” “Safe Mobility for Life,” and “Traffic Engineering Fundamentals” workshops. Also taught Intermediate and Advanced Maintenance of Traffic certification courses.

Center for Urban Transportation Research / University of South Florida

Program Director; ITS, Traffic Operations, & Safety – September 2002 - June 2006

Responsibilities included research in the areas of Intelligent Transportation Systems, Traffic Operations, and Safety. Worked on several projects related to improving freeway interchange operations, transit signal priority, traffic incident management, and improved safety for bus operations. Established the foundation for the Automated Lighting Measurement System. Also taught graduate and undergraduate transportation engineering courses.

Broward County Traffic Engineering

Signal System Engineer – March 2001 - September 2002

Responsibilities included managing the operation of the centralized traffic signal control center which controls over 1000 signalized intersections throughout the Ft. Lauderdale metro area. Responsible also for design efforts for new intersections. Worked to upgrade outdated UTCS signal system to 21st Century ATMS

Kimley-Horn & Associates, Inc.

Senior Transportation Engineer – September 1999 - March 2001

Responsibilities included design and review of roadway plans in the areas of Work Zone Traffic Control, Signing and Pavement Markings, and Signalization. Also involved in traffic studies, traffic impact reports, and intelligent transportation systems projects.

Faller, Davis & Associates, Inc.

Vice President for Transportation Services – March 1998 - August 1999

Responsible for all transportation projects including the preparation of roadway plans in the areas of Work Zone Traffic Control, Signing and Pavement Markings, Signalization and Highway Lighting. Responsible also for marketing and project development.

Faller, Davis & Associates, Inc.

Senior Traffic Engineer – January 1994 - March 1998

Involved in the development of the technical specifications and testing for the SunPass AVI/ETTM system (Florida's statewide electronic toll collection system). Also involved in the development of the concept studies for the Turnpike Advanced Traveler Information System, Highway Advisory Radio system, and other ITS applications for Florida's Turnpike. Worked on special traffic studies, project concept development, and the review of roadway plans in the areas of signing and pavement marking, signalization, and work zone traffic control.

Barr, Dunlop & Associates, Inc.

Traffic Engineer – May 1992 - December 1993

Responsibilities included a variety of traffic engineering tasks for public and private clients including roadway design, signalization design, signing and pavement markings and access management studies.

Florida Department of Transportation

Assistant State Traffic Operations Engineer – April 1990 - May 1992

Responsibilities included development of sign designs, Quality Assessment Reviews of school zones and traffic studies, travel time studies, corridor efficiency reviews, training for Department personnel and Computer-Aided Design (CAD).

Transportation Research Center, University of Florida

Assistant in Engineering - Civil Engineering Faculty – May 1988 - April 1990

Responsibilities included providing technical support for several traffic engineering computer models (TRANSYT-7F, HCS, PASSER II, Traf-NETSIM, etc.) to traffic engineers worldwide. Also involved in presenting training courses, development of signal timing plans and developing methods for field data collection.

McTrans Center, University of Florida

Acting Manager – March 1987 - May 1988

Responsibilities included managing the daily operation of the Center for Microcomputers in Transportation (McTrans). Duties also included technical support to users worldwide for software covering traffic engineering, transportation planning, and other areas.

Transportation Research Center, University of Florida

Graduate Research Assistant – August 1985 - March 1987

Responsibilities included assisting on a variety of research projects for the Florida Department of Transportation.

Professional Activities and Awards

Registered Professional Engineer in Florida and Georgia.

Certified Professional Traffic Operations Engineer (PTOE) and Road Safety Professional (RSP)

Fellow of the Institute of Transportation Engineers (ITE).

Frequent presenter at Florida Puerto Rico District ITE meetings.

Florida Board of P.E.'s approved provider of Professional Development Hours

Recipient of Florida Section ITE's "Woody Hiller Distinguished Service Award" 2007

Recipient of ITE District 10 "Edward Mueller Transportation Engineer of the Year" Award 2005

Recipient of Florida Section ITE's "Young Transportation Engineer of the Year" Award 1995

Authored chapter on traffic control devices ITE's [Toolbox on Intersection Safety and Design](#)

Served as technical reviewer for ITE's [Manual of Transportation Engineering Studies](#)

Member of the Board of Directors for ITS Florida (2005-2006)

President of Florida Section ITE (2002)

Webmaster for Florida Section ITE (www.floridasectionite.org)



Srinivas (Sri) Meka, PE, PTOE
Senior Engineer / Project Manager

Phone: (813) 703-5250
 e-mail: sri@msrcg.com



PROFESSIONAL SUMMARY

Sri is Professional Engineer (PE), and certified professional Traffic Operations Engineer (PTOE), with over 19 years of progressive and responsible experience in Transportation Planning and Engineering including, **traffic operations**, traffic safety, intersection studies, access management, lighting justification, noise traffic analysis, **PD&E studies**, corridor studies, traffic impact studies, travel demand modeling, **feasibility studies**. He has written many technical reports and documents and presented findings to clients and non-technical audience such as elected officials, citizens in project information workshops. Sri has have worked on several turnpike studies that included tasks such as **concept development**, interchange justifications, design traffic development and traffic modeling support. He has worked on planning and PD&E studies in FDOT Districts 1, 7, and 2. His experience also includes project management, client coordination, project budgets, preparation of progress reports and project execution plans.

PROFESSIONAL EXPERIENCE AND SKILLS

- **Traffic Engineering Operations and Safety Projects:**
 - Safety Studies and minor design consultant, FDOT D7
 - Districtwide Traffic operations support, FDOT D7
 - US 27 **Corridor Access Management and Safety** Evaluation, FDOT D1
 - I-75/SR 951 Interchange **Traffic and Access Management** Study, FDOT D1
 - Fletcher Avenue Complete Streets Project, Hillsborough County
 - Waters Avenue-From Hanley Road to Sheldon Road, **Road Safety Audits (RSA)**, Hillsborough County
 - Hinson Avenue and 30th Street **Intersection Improvements Study**, Polk County
 - Bartow Municipal Airport, New Access Road and **Traffic Circulation** Study
 - Morgan Johnson Road and SR 64 **intersection improvements**, Manatee County
 - ConRAC (Consolidated Rental Car Facility) **Traffic Study**, Tampa International Airport
 - Traffic Signal Installation and Intersection Improvement Analysis, Hillsborough County
 - Signal Warrant Study for Countryway Blvd and Old Memorial Hwy, Hillsborough County
 - Air Cargo Road **Traffic Study**, Tampa International Airport

Served as lead traffic engineer and task manager for traffic and safety studies.

Responsibilities included identification of project data needs, **data collection**, field review, capacity analysis of various roadway elements such as freeways, interchanges, weaving segments, arterials, and intersections using **HCS, Synchro/Simtraffic, VISSIM, CORSIM and FDOT LOS** software. Also responsible for traffic **signal optimizations**, identification of counter measures and geometric improvements to enhance operations, safety and improve transportation system performance applying standards and guidelines from FHWA, MUTCD, FDOT and local jurisdictions. Prepared traffic technical memorandums documenting traffic study procedures and findings. Performed safety related projects for FDOT District Seven, District One and various municipalities in Tampa Bay Area. These studies included intersections analysis to improve operations and safety, **signal warrants analysis**, all-way stop warrants, turn lane analysis, **delay and speed studies**, and road safety audits (RSA). Typical tasks included five-year crash data review, **crash data analysis**, identification of crash types and contributing causes, and recommendation of safety improvements. Also, prepared concepts showing counter measures and presenting them at **RSA** team and client meetings. Conducted before and after studies to evaluate the effectiveness of counters measures by comparing data before and after the implementation.

Years of Experience: 19

Education:

- M.S. Civil Engineering, University of South Florida, Tampa, 2003

Employment:

- 03/2016 – Current: MSR Consulting Group LLC Tampa, Florida
- 07/2005 – 03/2016: AECOM / URS, Tampa, Florida – Senior Transportation Engineer
- 07/2002 – 06/2005: King Engineering Associates, Tampa, Florida – Transportation Planner
- 08/2000 – 07/2002: University of South Florida, Tampa, Florida – Transportation Research Assistant

Registrations:

- 01/2008 - Professional Engineer - Florida #67390
- 02/2008 - Professional Traffic Operations Engineer

- **Transportation Planning Projects:**

- Orlando South Ultimate Interchange Improvements Study, Florida's Turnpike
- SR 50 / Colonial Parkway PD&E Study, Florida's Turnpike
- ETDM General Planning Consultant – Traffic Support, FDOT D1
- East-west express bus toll lanes, Tampa Hillsborough Expressway Authority
- US 27 PD&E study, Polk County, FDOT D1
- Beckett Bridge PD&E Study, Pinellas County, FDOT D7
- Fort Hamer Bridge PD&E Study, Manatee County, FDOT D1
- I-75 in Manatee and Sarasota Counties PD&E study, FDOT D1
- Central Manatee Network Alternatives Analysis (CMNAA), FDOT D1
- I-95 and I-295 System Interchange Modification Report (SIMR), FDOT D2
- SR 75 (US 231) PD&E, FDOT D3
- Hillsborough Avenue Corridor Evaluation (HACE), FDOT D7
- I-275/SR 60 Interchange Design Refinement Study, FDOT D7
- Tampa Bay Express (TBX) Managed Lanes, FDOT D7
- All Aboard Florida (AAF) Proposed New Rail Service Feasibility Study

Served on many subarea/**corridor planning studies** and project development and environment (**PD&E**) studies. Provided traffic support for NEPA documentations. Also conducted **Access Management Studies**, Airport Access and Curbside Planning, Parking and Traffic Circulation, Congestion Management, and Feasibility studies. Responsible for coordinating and supervising data collection, defining and managing **origin-destination** studies using **blue tooth** technologies, field reviews, travel demand modeling, development design traffic, capacity analysis. Developed and evaluated viable alternatives, attended meetings with clients and presented results of the analysis. Prepared **Project Traffic Reports** (PTR), and Design Traffic Technical Memorandums (DTTM). Participated in public information workshops and **public hearing meetings** to support the **public involvement** task for many corridor and PD&E studies.

- **General Planning and Review Consultant**

Reviewed planning and engineering studies conducted by other consultants on client's behalf, represented clients at other agency meetings. Provided written comments and coordinated with consultants to make appropriate revisions to analysis. Coordinated projects between the consultant and agencies and provided methodologies, scopes and cost estimates for various projects. Studies included interstate related projects, PD&E studies, traffic impact studies, **roundabout / lane reduction** studies, feasibility studies, intersection safety improvement studies and corridor studies.

- **Interchange Project Management (IPM) contract, FDOT D7**
- **Districtwide Safety and Minor Design studies contract, FDOT D7**
- 40th Street Roundabout / Lane Reduction study -Review, FDOT D7
- I-295 Managed Lanes (SR 9B to JTB Blvd) Design Traffic Development – Review, FDOT D2
- Wiregrass Ranch DRI, Proportionate share and mitigation, timing and phasing of improvements, Pasco County
- Traffic Review I-75 PD&E in Hillsborough County, FDOT D7
- Starkey Ranch DRI Review, Pasco County

- **Land Development Planning**

Served as transportation planner /traffic engineer for large developments including malls, residential complexes, retail and mixed-use developments. Coordinated data collection, prepared **traffic impact studies** to support the approval of such developments. Performed **signal warrant analysis, access and congestion management studies**. Responsibilities included **trip generation**, traffic forecasting and modeling, capacity and LOS analysis using HCS and Synchro software, identification of project impacts and **mitigation measures**. Represented the client at development review committee meetings and made presentations.

- Crystal River Mall, Traffic Analysis, Citrus County
- Seminole Town Center, Traffic Analysis, Seminole County
- Wiregrass Ranch DRI, Pasco County



JRB Solutions, LLC
People Focused Planning and Engineering
3023 Eastland Blvd, Suite 110
Clearwater, FL 33761

James G. Fogarty, P.E., LEED A.P.

Education

University of Florida, College of Engineering; *Gainesville, FL;* Bachelor of Science in Civil Engineering: Dec. 2006

Work Experience

JRB Solutions, LLC - Clearwater, Florida, 2015-present

President: Nov 2015- Present

- Multimodal Planning & Engineering focused on Bicycle, Pedestrian, and Transit Mobility.

Tindale Oliver and Associates, Inc. - Tampa, Florida, 2013-2015

Project Manager: Feb 2013 – Dec 2015

- Transit Development Planning, Comprehensive Operational Analysis, ADA Assessments, Bus Stop Inventory and Analysis, Transit Access Safety Assessments, Bus Stop Design, Corridor Safety Studies, Bicycle and Pedestrian Infrastructure Planning, Transit Oriented Development, Urban Design.

Hillsborough Area Regional Transit (HART) - Tampa, Florida, 2009-2013

Project Manager: Jun 2012 – Feb 2013, Planner/Project Coordinator: Aug 2009 – Jun 2012,

- Capital Project Management and Owners Representation, Grant Application Support and Intergovernmental Coordination, Procurement Support, Facility Reconstruction/Renovation, Committee Representative, Transit Planning and Engineering

Kimley-Horn and Associates, Inc; Tampa, Florida, 2005-2009

Analyst: Jan 2007 – Jun 2009, Intern: May 2005 – Aug 2006 (summer only);

- Land Development Coordination
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Professional Activities

Institute of Transportation Engineers (2018 – present)

- FHWA Countermeasure Study (2018-2019)

Tampa Downtown Partnership (2012 – present)

- Transportation & Parking Committees (2012-2019)

American Society of Civil Engineers (2002 – 2018)

- Tampa Bay Region Infrastructure Report Card (2011, 2016)

Urban Land Institute (July 2012 – present)

- Program committee (2015); Transportation Committee Co-Chair (2013-2016); Regional Transportation Action Plan (2014); Transit Oriented Development Workshops (2014)

Hillsborough Metropolitan Planning Organization Bike & Ped Advisory Committee (BPAC)

- HART representative (2011 – 2013)

Certifications and Recognitions

- Tampa Bay Business Journal Up-and-Comer (2012)
- Tampa Bay ITE Young Professional of the Year (2012)
- Florida Department of Environmental Protection Stormwater Inspector (March 2007)

Project Experience

Expert Witness for Bicycle and Pedestrian Safety (2015-2019) – Provided on-demand professional expertise to a forensic engineering firm related to various court cases that involve parking, parking lots, bicycle infrastructure, sidewalks, bus stops, transit services, bike lanes, and miscellaneous pedestrian infrastructure. Services have included technical reports, analysis, field testing, and court testimony.

USF to Downtown Tampa Bus Rapid Transit Project Development (2019) – Developed an innovative scope and project approach for the Hillsborough Transit Authority for a multimillion dollar effort to improve bus travel times and accessibility between the University of South Florida and downtown Tampa. The project prioritized low-cost incremental improvements that could be quickly leveraged to improve the reliability and accessibility between the most productive transit districts in Hillsborough County.

Channelside Drive Redesign Multimodal Study (2018-2019) – Conducted a comprehensive mobility analysis of the Channel District in downtown Tampa, FL. The study included local and regional bicycle and pedestrian safety and connectivity, ADA compliance, transit ridership, streetcar access, bike-share access, and a comprehensive look at public and private parking supply and projected demand. The study also considered the impact of the cruise industry on the district, as well as future connectivity and transportation impacts for Water Street Tampa, Ybor City, Downtown Tampa, Marion Transit Center, Union Station, and Port Tampa Bay.

Traffic Impact and Parking Waiver for 220 Madison (2018) – Conducted a transportation impact analysis and parking study for Tampa's only fully transit and pedestrian oriented development. The historic nature of the building and the surrounding blocks in the heart of downtown Tampa made it impossible to accommodate on-site parking for a proposed repurposing of an office building to apartments without demolishing historic structures. The analysis proved that there was a public benefit to the city for waiving the on-site parking requirements, as parking and transportation demand would be offset from the peak demand for surrounding office buildings, resulting in a net public benefit.

Pasco County Transit Passenger Information (2017) – Redesigned and rebranded passenger information for Pasco County Public Transit (PCPT). The scope included an update and redesign for passenger route maps, system maps, passenger schedules, and ride guides in English and Spanish. One year of map updates was included as well, however the new designs were compatible with commonly available software so as to be editable in-house and on-the-fly when needed. Passenger information was also formatted to fit on standard page sizes so as to facilitate printing at-home, in-house production, and to reduce reproduction costs.

Additional Project Experience

- Tampa Bay Regional Transit Feasibility Study Scope Development (2016)
- Tampa Bay Ferry Market Analysis (2016)
- Ocala Comprehensive Operations Analysis (2015),
- Bus Transit Infrastructure Stop Improvements, Hillsborough County, FL (2015-2019),
- Pasco County Public Transportation (PCPT) Stop Inventory & ADA Assessment (2015),
- Transit Access Along Arterial Highways Case Studies (2015),
- US 19 Access to Transit Safety Analysis and Assessment, Pinellas County (2015),
- Accessing Transit Bus Stop Training, FDOT District 5, Deland, FL (2015),
- Regional Transit Service (RTS) Transit Development Plan, Gainesville, FL (2014),
- St Lucie Transit Development Plan, St Lucie County, FL (2014),
- BRT Feasibility and Conceptual Design for the US 98 Corridor, Lakeland, FL (2014)
- MCAT General Planning Consulting (2013-2015)



Years of Experience

- 18 years

Professional Licenses

- Professional Engineer, FL, #66620, 2007

Education

- BSCE, University of Central Florida, 2002

Certifications/Special Training

- FDOT Specification Package Preparation
- Advanced Maintenance of Traffic
- Florida Engineering Leadership Institute, class of 2014

Affiliations

- American Society of Highway Engineers

INTRODUCTION

Mark Bayer has 18 years of roadway design, maintenance of traffic design, drainage design, utility coordination, project management and contract management experience. Mark's project experience includes major roadway reconstruction projects such as widening from two-lanes to four-lanes to minor design project that include intersection improvements, resurfacing, sidewalks and trail projects. These projects involve safety improvements, drainage improvements, signing and pavement marking, signalization, lighting, structures, geotechnical, environmental impacts, permitting, traffic control, specifications, quality control and post design services.

PROJECT EXPERIENCE

2017 District Wide Minor Design Contract, FDOT District 1

Contract Manager

Contract consisted of 14 separate task assignments including intersection improvements, addition of turn lanes, multi-use trails and sidewalks.

2015 District Wide Minor Design Contract, FDOT District 1

Contract Manager

Contract consisted of 23 separate task assignments including intersection improvements, addition of turn lanes, sidewalks and railroad crossing replacement.

US 441 CSX Railroad Crossing Replacement, Okeechobee County, FDOT District 1

Project Manager and Roadway Engineer of Record

Project consists of roadway design, maintenance of traffic, and plans production. The project involves milling and resurfacing of the roadway and replacing numerous sidewalk segments to meet ADA. Project elements include roadway design, maintenance of traffic, coordination with CSX, extensive coordination with stakeholders for a major roadway detour, and signing and pavement marking.

US 41 from Hillsborough/Manatee County Line to 15th Avenue, Hillsborough County, FDOT District 7

Roadway Senior Engineer

Responsible for horizontal design, typical section package, sidewalk matrix, multiple pavement designs, cross slope correction analysis and details and maintenance of traffic. The project involved the milling and

resurfacing of 8.9 miles of an existing four-lane roadway including significant cross slope correction, ADA improvements, addition of sidewalk, and elimination of FC-5 within turn lanes and median openings.

US 19 Reconstruction from Jump Ct to Fort Island Trail, Citrus County, FDOT District 7

Design Engineer for Roadway and Traffic Control Plans

Responsible for horizontal/vertical design, maintenance of traffic design and plans production. The project involves the reconstruction of 4.7 miles of an existing four-lane roadway to a six-lane section and consisted of numerous pavement designs and included both rural and urban typical sections.

US 98 (Peace River/Fort Meade) John Singletary Bridge Replacement, Polk County, FDOT District 1

Project Manager

The project involves replacing the functionally obsolete, historic John Singletary bridge over the Peace River. Responsible for preliminary horizontal and vertical design. Lead public involvement efforts with the City of Fort Meade, Polk County, Fort Meade Middle-Senior High School, and FDOT.

Peace River Trail from Mount Pisgah Road to US 98, Polk County, FDOT District 1

Project Manager and Roadway Engineer of Record

Responsible for horizontal/vertical design and plans production. The project involved the construction of 2.6 miles of 8' shell trail to provide a recreational facility. Lead coordination efforts with the City of Fort Meade and Duke Energy Transmission.

US 301 at Erie Road Intersection Improvement, Manatee County, FDOT District 1

Project Manager and Roadway Engineer of Record

Responsible for pavement design, horizontal design, maintenance of traffic. The minor design intersection improvement project consisted of widening to provide dual left turn lanes. The design also included curb ramp reconstruction, minor drainage improvements, signing, pavement markings, utility adjustments, installation of a mast arm near a gas line and adjacent to overhead electric, coordination with an adjacent project and coordination with the county for maintained R/W limits.

SR 33 at Duey Road Intersection Improvement, Polk County, FDOT District 1

Project Manager and Roadway Engineer of Record

Responsible for pavement design, horizontal design, maintenance of traffic, and plans production. The minor design project consisted of widening to provide left and right turn lanes at three intersections. The design also included bike keyholes, minor drainage improvements, signing, pavement markings, utility adjustments, and coordination with an adjacent project.

SR 80 at US 27 Interchange Reconstruction, Hendry County, FDOT District 1

Roadway Engineer of Record for Traffic Control Plans

Responsible for the highly complex maintenance of traffic design and plans production. The project involved the reconstruction of 2.3 miles of an existing four-lane section of US 27 for a "T" Intersection bridge over US 27 to connect SR 80. US 27 curves 90 degrees with a posted speed limit of 65 MPH. The maintenance of traffic design included several phases and steps.

US 41 Resurfacing from Ehren Cutoff to Tower Road, Pasco County, FDOT District 7

Roadway Senior Engineer

Responsible for providing quality control reviews. The project involved milling and resurfacing to preserve and extend the life of the existing pavement, adding new sidewalks/trail on both sides.

US1 Resurfacing from Volusia County Line to St Johns County Line, Flagler County, FDOT District 5

Project Manager and Roadway Engineer of Record

Responsible for pavement design, adding 4' paved median shoulders, and maintenance of traffic design. The project included wet weather audible pavement markings and drainage improvements.

LOCATION PERCENTAGE OF
WORK TO BE COMPLETED

Address of Prime Consultant's designated office where the majority of work will be performed	
Street	2606 W Morrison Av
Street 2	
City	Tampa
State	FL

Percentage of total overall fees projected to be performed by the Prime Consultant's office above (Do not include percentage of fees anticipated to be performed on this project by sub-consultants)	40.00%
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Address of Prime Consultant's other offices where work will be performed (if applicable)	
Street	None
Street 2	
City	
State	

Percentage of total overall fees projected to be performed by the Prime Consultant's office above (Do not include percentage of fees anticipated to be performed on this project by sub-consultants)	
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Percentage of total overall fees projected to be performed by firms located within Lake County including the Prime Consultant and Subconsultants.	0.00%
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