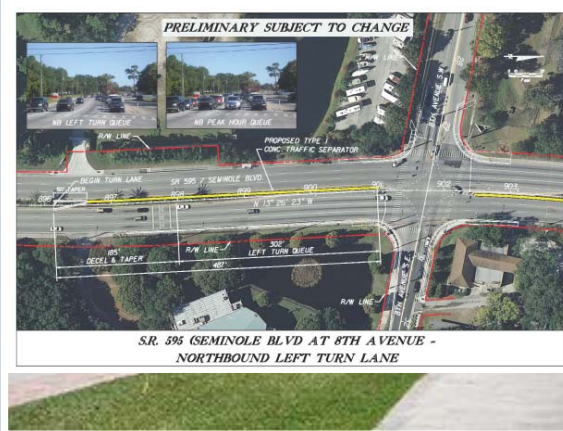


GENERAL TRAFFIC ENGINEERING SERVICES

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CITY OF KEY WEST, FLORIDA

FEBRUARY 28, 2018



CONTACT:
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ORIGINAL



"ENGINEERING FOR A WORLD IN MOTION"

February 28th 2018

Mr. David Sermack
City of Key West
1300 White Street
Key West, FL 33040

Dear Mr. Sermack:

RESPONSIBLE OFFICE: 8333 NW 53rd St, Suite 450
Doral, FL 33166
Ph. (305) 463-8411
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CONTACT PERSON: Oliver Rodrigues, PE, PTOE
Cell (305) 733-2729
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Florida Transportation Engineering, Inc. (FTE) has been providing traffic engineering services since 1989. **FTE has all the in-house professional staff and support technical staff to successfully complete this contract** and brings the necessary local and State knowledge required to produce high quality project coordination, data collection, traffic studies, and recommendations. We believe this proposal showcases our qualifications for consideration in the referenced project.

The following is a list of FTE's completed/ongoing contracts:

- FDOT D-6 District Wide Traffic Operations Safety Studies
- FDOT D-6 Safety Studies
- City of Miami Beach Miscellaneous Traffic Engineering Services
- Miami-Dade Miscellaneous Traffic Engineering Services
- City of Homestead Traffic Engineering Services
- City of Marathon Traffic Engineering Services
- City of Coconut Creek Traffic Engineering Services
- Town of Longboat Key Miscellaneous Traffic Engineering Services
- FDOT D-1 District Wide Signal Retiming
- FDOT D-3 District Wide Signal Retiming
- City of Cape Coral Signal Retiming
- Charlotte County Miscellaneous Traffic Engineering Services
- Lee County Miscellaneous Traffic Engineering Services
- Collier County Traffic Engineering Services
- City of Bonita Springs Traffic Engineering Services
- City of Naples Miscellaneous Services
- City of North Port Traffic Engineering Services
- City of Sanibel Miscellaneous Traffic Engineering Services
- City of Tampa Miscellaneous Engineering Services
- FDOT D-1 District Wide Safety Studies

We understand that the tasks from this contract are initiated by events that are sensitive in nature. Time is of essence in completing the assignments within a short period of time. We are excited about the opportunity to serve the City.

Sincerely,



Oliver Remy Rodrigues, PE, PTOE
Senior Vice President

EXPERTISE AND TECHNICAL COMPETENCE:

FTE offers the City a team with the depth and breadth of expertise to ensure the success of this contract. FTE has been working with Florida Cities since 1989 and has deep knowledge of the Goals, needs, constraints, demographics, and character. We are very familiar with the City's procedures and working ways and means. FTE will be able to provide attention of a small company with big company experience.

The fundamental philosophy of the FTE Project Team is Proactive Traffic Safety and Operations Management. This is a "Hands On" approach which requires a local presence, intimate local knowledge, and established working relationships with the stakeholders. We believe there is no substitute for expert "detective" field work when it concerns public traffic safety and operations.

One of FTE's most important goals for this project is the commitment to responsiveness. Although governed by the policies, procedures and criteria established in the design standards, Plans Preparation Manual, Traffic Engineering Manual (TEM), and Manual on Uniform Traffic Studies (MUTS), as well as AASHTO guidelines, the Highway Safety Manual (HSM) and the Manual on Uniform Traffic Control Devices (MUTCD), it is important to remember that each study requires a certain amount of flexibility to adapt to the specifics of the project. FTE understands this and commits to working with the City to provide accurate, verifiable and timely results with a minimum amount of red tape.

FTE has extensive expertise in using specialized engineering software such as Synchro, SimTraffic, HCS, CORSIM and VISSIM. Our unique skill set guarantees accurate and reliable traffic models.

FTE understands and respects the unique issues facing City of Key West. Local citizens and elected officials take special interest in the roadway system and can be tenacious in pursuing their perceived needs. In addressing delicate issues, FTE will balance engineering judgment with political reality by providing coherent defensible justifications for all study recommendations.

TRAFFIC IMPACT STUDY (TIS): TIS is an important tool in the overall development planning process to evaluate the impact of a proposed development with respect to the need for roadway/intersection capacity, operations and safety improvements, as well as to identify the required mitigation measures for any impacts identified. *FTE has prepared and/or reviewed over 100 TISs* including the peer review for several developments. FTE prepares and reviews impact studies following the guidelines set in the Institute of Transportation Engineers' (ITE) Transportation Impact Analyses for Site Development: An ITE Proposed Recommended Practice, the ITE's Parking Generation and FDOT's Transportation Impact Handbook.

FTE acknowledges that the TIS prepared and presented to the City of Key West are programmatic as the development applications are reviewed by the Planning Board. From our previous experience, we clearly understand that the following requirements are critical in reviewing TIS.

- **Methodology Development**
- **Review of the Trip Generation** ITE's *Trip Generation Manual*
- **Review of the Trip Distribution and Assignment**
- **Field Review to identify any potential issues**
- **Review of the Operational Analysis**

FTE will **validate the micro-simulation models** following the procedures outlined in the *Highway Capacity Manual* and using the latest software (Synchro, etc.). In addition to the LOS analysis, FTE will ensure that all operational constraints are being considered, such as:

- Need and/or adequacy of turn lane storage capacity
- Median island or channelization island movement restrictions
- proposed layout of **internal circulation**
- Proper access and circulation of the anticipated vehicle mix such as delivery and garbage trucks. This includes the review of the **computer-generated vehicle turning path plans**.
- Need for a new signal or stop signs and signal or stop sign warrant study
- Effect of signalization on existing signal coordination plans
- Drive-through use
- Proper site access
- Assessment of the parking operations, including mechanical or automated systems
- Assessment of Valet service operations

If tasked to perform peer reviews of the TISs, FTE understands the importance of the accuracy of the peer reviews since City staff will have to defend our assessment before the Planning Board. FTE will be available to the City staff and the applicants to discuss and resolve any issues satisfactorily and in a timely manner so that the project can be presented to the Planning Board. FTE will prepare for the City staff a memorandum with all the comments resulting from our review and will work diligently with the City staff and the developer to resolve all issues.

SIGNAL TIMING PROJECTS: The fundamental philosophy of FTE is **Proactive Arterial / System Management**. This is a “Hands On” approach which requires a local presence, intimate local knowledge, and established working relationships with the Maintaining Agencies. *In the past 3 years, FTE has been involved with retiming 300 signals with extremely successful results.* The initial task is to identify **Verifiable Performance Measures** which will define the success of each individual assignment.

A **Priority List of Locations** will be developed in coordination with the City and the Maintaining Agencies. We will address any potential issues such as conflicting construction projects, any ongoing or future hardware or software upgrades, and any possible geometric or operational changes.

A **Comprehensive Site Visit and Field Inventory** will be performed by two-man teams which will include a Professional Engineer (PE) / Professional Traffic Operations Engineer (PTOE) as well as a IMSA Signal Technician. All intersections within the project area will be observed during both the peak periods and the off-peak hours of operations. Operational Issues, such as queue spillback, detection failures, and access conflicts, will be documented and photographed if necessary. Field Inventory Items will include: cabinet hardware, signal head arrangement, geometric layout of intersection(s), preemption, pedestrian features, detection layout, existing timing plans, phase sequence, cycle lengths, recall mode and established coordination and/or day plan schedules, if any.

Traffic Data Collection will be performed using **Passive and Verifiable Traffic Data Collection Technology**. Miovision video collection units (VCUs) will be used to capture all intersection turning movement counts, approach volume counts, pedestrian volume counts and percent of heavy vehicle (raw video files will be available upon demand). Bluetooth detection devices and Tru-Traffic will be used for all travel time evaluations. Bluetooth detection devices will be used for “Before” and “After” travel time studies. In addition, BlueTOAD detection devices will be used

for proactive arterial management in conjunction with the BlueARGUS internet portal for 24/7 travel time and average speed monitoring.

The latest approved versions of Synchro and Tru-Traffic software will be used to model the existing conditions and to develop the proposed signal timing / coordination plans for each intersection or corridor. All basic timing parameters will be verified or updated based on the latest procedures and guidance published in Section 3.6 of the Traffic Engineering Manual. ***SimTraffic and the Miovision video files will be used to calibrate the Synchro model.*** A pre-implementation report will be prepared and submitted and a stakeholders meeting will be scheduled to discuss any specific concerns.

Field implementation of the approved signal timing / coordination plan will be performed by two-man teams which will include a Professional Engineer (PE) / Professional Traffic Operations Engineer (PTOE) as well as a IMSA Signal Technician. All patterns will be observed to ensure that the intersection / corridor is functioning as intended. ***Field operations will be validated by multiple runs of Tru-Traffic.*** The Team will assess queue lengths, arrival patterns and phasing anomalies. Split times and offsets will be fine-tuned to optimize the operation of the intersection / corridor and will be reevaluated as necessary to ensure peak performance. A post-implementation travel time evaluation will then be conducted using the Bluetooth detection devices and Tru-Traffic GPS runs.

A signed and sealed ***Final Report*** will be submitted documenting the tasks performed, data collected, analysis conducted, along with any additional findings or recommendations concerning the operation of the particular signal, corridor, or network. Included in the Final Report will be a benefit to cost ratio of the signal timing improvement along with an intersection capacity evaluation.

FTE has been involved in 33 Signal System Retiming projects in the State. Currently, FTE holds the Signal Retiming Contracts in both Districts 1 and 3 as the Prime Consultant as well as the Escambia Santa Rosa Signalization Consultant as the technical sub-consultant. On the current District 3 Retiming Contract, ***FTE has to-date achieved a verifiable combined travel time reduction of approximately 21,640 vehicle-hours per week.*** In addition, FTE has also recently provided retiming services for Charlotte, Lee, Collier Counties as well as the City of Sarasota and Cape Coral.

ROADWAY SIGNAGE: FTE is familiar with all of the design standards including but not limited to the following: Florida Greenbook, AASHTO Green Book; MUTCD; FDOT Plans Preparation Manual: Volumes 1 and 2; FDOT Design Manual; Flexible Pavement Design Manual; Drainage Manual; FDOT Maintenance of Traffic; NCHRP Report 672, Roundabouts: An Informational Guide; and the Florida Intersection Design Guide. *FTE has prepared numerous signing and pavement marking plans.*

INTERSECTION ANALYSIS: The Intersection Analysis is the tool by which an intersection is evaluated, after observation and data analysis, to determine the need as well as opportunity for safety improvements. This study type involves the analysis of an existing intersection in order to develop a specific conceptual design recommendation that can be utilized in preparing plans for construction. *In past 5 years, FTE has performed over 200 concise, accurate and definitive intersection studies in the state of Florida.*

SIGNAL WARRANT ANALYSIS: The purpose of this Study Type is to provide a specific determination whether or not an intersection meets warrants for signalization and, if so, whether or not a signal should be considered for installation or removal. Based on our extensive experience, FTE understands that the primary factor in performing a successful analysis of an un-signalized intersection is a true understanding the nature of the request. Open communication between the City and FTE is essential in defining potential safety issues and appropriate mitigation.

FTE's main objective for this report is to provide a conscientious evaluation of the thresholds within the nine warrants from Section 4C01 of MUTCD in conjunction with the MUTS procedure and guidelines that support the installation or removal of a signal for a specific location. FTE understands that satisfaction of the signal warrant does not imply that a signal should be installed. Therefore, this analysis includes traffic and pedestrian volumes, accidents, delays & gaps, roadway geometry, public transportation and the effect that a new signal could have over the progression along an arterial. Several additional issues that should be considered include elements such as right/left turn effects, access management adequacy (signal spacing), timing phasing, future LOS, costs/benefits, standard compliances, positive guidance, and the potential to apply traffic calming techniques. One item we always look for in addition to warrant compliance, is alternatives to signalization such as re-routing neighborhood exit patterns to nearby existing signals. This results in potential cost savings to the City and avoid unnecessary signal installation. *FTE has prepared numerous signal warrant studies throughout the state of Florida and just received a task from Charlotte County to prepare signal warrant analysis for four (4) intersections.*

Miami-Dade Miscellaneous Projects: FTE has been involved with numerous design projects, working with the County and with FDOT. FTE provided miscellaneous traffic engineering services including 469 traffic counts, signal design at 17 locations, *safety studies, traffic studies, signal warrant analysis*, and area planning.

Lee County Miscellaneous Projects: The scope of this project was to provide specific professional services throughout Lee County. Assignments have included Traffic Volume Data Collection, One-way Tolling Test Program, *Signal Warrant Analysis*, Signal Design, Traffic Circulation Study, and Pedestrian Access Improvements.

Le Jeune Road and Curtis Road: The *signal warrant analysis* included field investigations, traffic data collection, crash data review, delay study, and an assessment of traffic signal warrants based on existing and future traffic conditions.

Flamingo Road at SW 14th Street: The main objective for this study was to conduct an evaluation of the 2009 MUTCD thresholds within each of the nine traffic warrants by following adequate procedures and guidelines from FDOT that could support the installation of a traffic signal at this location. The *signal warrant analysis* included field investigations, traffic data collection, crash data review, delay study, and assessment of traffic signal warrants based on existing and future traffic conditions.

SAFETY STUDIES: Our multi-disciplinary team is composed of talented staff with extensive skills for Safety Analysis, Traffic Operations, Americans with Disabilities Act (ADA), Design (in particular Signing and Pavement Markings), Constructability, and Public Involvement. As part of a safety evaluation, advanced gathering of relevant information will be imperative in order to assess efficiently the existing and proposed conditions. This involves obtaining the most recent data pertaining to stakeholders' plans (CIP, FDOT work program, LAP agreements, and LRTP projects), current and historical traffic and safety conditions, as well as, possible determinations regarding signals, previous reports, As-Built plans, applicable design standards and exceptions or variations.

For safety studies that are oriented to address pedestrian safety, we use a similar approach incorporating the FHWA pedestrian road safety audit guidelines to evaluate the proper integration of pedestrian and bicycles as road users. Amongst the elements to be considering by our team includes connectivity, ADA design compliance, lighting, parking, transit access, visibility (daylight and nighttime), roadway characteristics and driver behavior in conjunction with special deliberations for elderly, disabled and school zones users. After conducting the field reviews, the team will meet to document findings, levels of risk, provide suggestions and recommendations and define priorities. *FTE has*

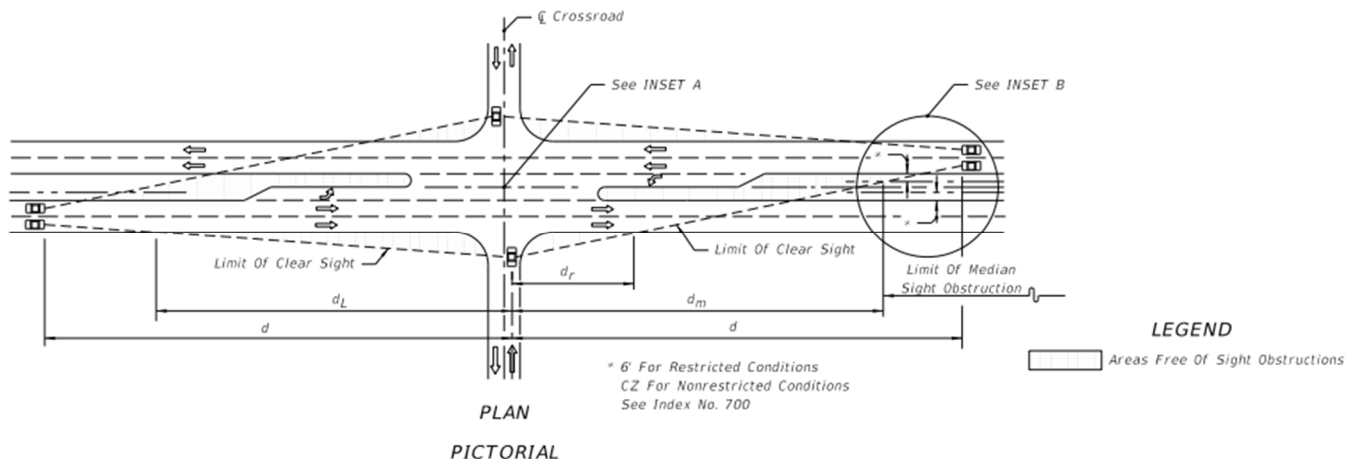
analyzed over 150 high crash spots, segments, night crashes, and over 400 fatal crash reviews, in addition to numerous qualitative assessments, RRR safety reviews.

FDOT D1 Safety Studies: FTE provided services for *signal warrant analysis*, *intersection analysis*, arterial study, and composite study. Tasks included SR 45 (US 41) from North of 69th Street to SR 684 (Cortez Road) Manatee County Safety Improvement Evaluation; Charlotte County Off-System Sidewalk Improvement Study; I-75 Aerial Survey; Turn Lane Feasibility Study on US Bus 41 at 21st Street; US 17 at Regent Road Safety Improvement Evaluation; Districtwide Crash Locations Studies, Fatal Crash and Skid Reviews; SR 25 (US 27) at US 192 Evaluation Study; 8-hour turning movement counts and pedestrian counts; *intersection analysis and safety engineering analysis*.

FDOT D6 Safety Studies: FTE performed a driver fatal crash analysis and provided recommendations for the intersection of SR 907 / Krome Avenue and SR / Okeechobee Road; Performed a pedestrian crash review and provided recommendations for the intersections of SR 9 / NW 27 Avenue at NW 41 Street, and SR 944 / NW 54 Street at NW 37 Avenue; Also performed a *fatal crash analysis*, *Synchro evaluation of geometric alternatives*, and provided recommendations for the intersection of Flagler Street at NW 74 Avenue.

EXPECTED TRAFFIC CONFLICT FACTORS: Traffic conflict as defined by FHWA is “An event involving two or more road users, in which the action of one user causes the other user to make an evasive maneuver to avoid a collision”. Center for Urban Transportation Research (CUTR) developed thirteen traffic conflict types and summarized the data in tables that can be used to estimate the expected annual number of crashes at different intersection types.

SITE VISIBILITY TRIANGLES: This refers to the roadway area visible to the driver. The sight distance is dependent upon the design speed and is critical in enabling pedestrians and motorists passing through the intersection to clearly see around the corners in order to avoid collisions. The details are based on the AASHTO ‘A Policy on Geometric Design of highways And Streets’, Chapter 9, Intersection Sight Distance.



TRAFFIC AND FEASIBILITY STUDIES: FTE has performed multiple planning and feasibility studies for various municipalities. We are aware of the City’s goal to prioritize pedestrians and transit services. All our studies followed the ITE’s practices and manuals, MUTCD, HCM, and procedures use for the purpose to establish solutions to the traffic and transit mobility. We have also followed practices for the improvement of safety particularly of non-motorized road users.

- A. *Intersection Analysis* - FTE will provide an in-depth assessment of an intersection based on an analysis which includes field observations, inventory, data collection, accident, LOS, and delay studies to generate a set of viable alternatives (usually two or three) to improve safety and performance without disrupting the

arterial's current cycle length patterns and progression. The intersection analysis must address: the impact of geometric improvements, the existing and future intersection LOS, interval and phasing timing optimization, new signal timing plans, fuel consumption over benefits like reductions in control delay and accidents or severity, as well as, community response among each alternative. Additional essential elements for the alternative selection include appropriate software selection to perform LOS analysis, the suitable selection for crash factor reduction rates, right-of way encroachment, material costs, CEI, construction contingencies, permits, and fuel inflation rates.

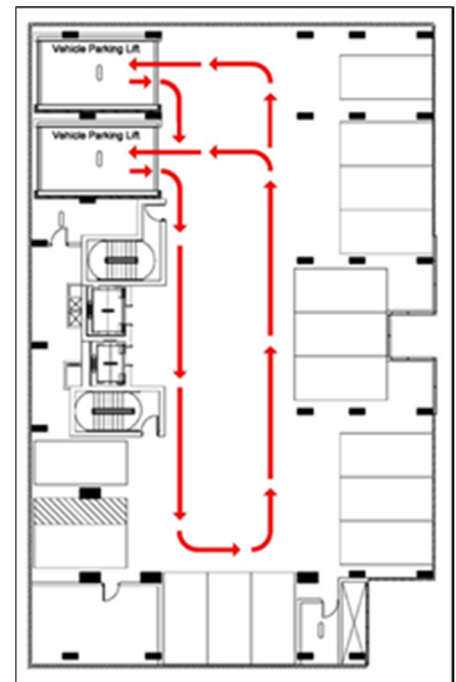
- B. *Arterial Analysis:* The in-depth study of arterial segments would include field observations with roadway audit characteristics, inventories, data collection, accident, LOS, travel time and delay studies to generate a set of viable alternatives to improve safety and performance of the traffic. The arterial analysis incorporates multiple elements such as: the impact of geometric improvements, right-of-way availability, the existing and future intersections/arterial LOS, optimization including cycle and timing, new signal timing plans, fuel consumption over benefits like reduction in congestion, control delay and accidents or severity, as well as, community response, and costs among each alternative. In addition, the alternative selection must assess recommended improvements for access management, travel time, speed, progression/platooning, queues, and bandwidth.

FTE will provide systematic analyses and studies to achieve creative and cost-efficient traffic operations solutions with priorities to promote public safety and environmental quality. Preferred alternatives with secondary concepts will be presented with cost estimates, considering right-of-way, cross sections, property lines, intersections, interchanges, medians & structure impacts.

FDOT D6 Intersection Studies: FTE provided services that included qualitative assessments, [signal warrant analysis](#), [intersection analysis](#), arterial analysis, left turn phase warrant analysis, and supplemental tasks. The task work orders included turning movement counts, volume and classification counts, intersection delay studies, intersection qualitative assessment, arterial qualitative assessment, left turn signal warrant study, fatal crash reviews, RRR safety reviews, signal warrant analysis, sight distance studies, and preparation of technical memorandums.

FDOT D3 Intersection Studies: As a direct extension of District Three Traffic Operations office, FTE is providing assistance to Departmental staff by performing advanced traffic operational analysis of the State Roadway System covering 16 counties in the Florida Panhandle region. Specific tasks include [signal warrant studies](#), [intersection analysis](#), arterial studies, traffic signal re-timing, speed studies, roundabout justification studies, pedestrian safety studies, permit review, PD&E study review, and composite studies. Tasks have included comprehensive traffic operational analyses, safety evaluations and qualitative assessments of the State Roadway System.

ASSESSMENT OF THE PARKING OPERATIONS - FTE will review all the details of the parking facility including the ingress, egress, and circulation within the parking facility. For valet parking operations, FTE will verify that number of spaces proposed to stack vehicles at the valet parking stands and that the required number of valet attendants are sufficient to ensure that the parking operations do not cause excessive stacking, waiting, or backups on to the public right-of way. Similarly, the operations plan for all mechanical parking or automated parking systems will



be analyzed to ensure that they satisfy the operational need of the project. *FTE has had the opportunity to review several mechanical parking systems proposed in City of Miami Beach.*

TRANSIT ROUTE PLAN - FTE understand that the City require a transportation and traffic consultant familiar with County's transit operations, as well as a consultant who understands the City's concerns. In particular the impact from development projects such as hotels, learning institutions, and shopping centers could have a major determination on transit routes and involve multi-agency coordination. Conducting an assessment along arterials with the purpose of identifying mobility improvements and developing a plan to facilitate efficient transportation movements of people will require consideration of the current development. FTE will be able to support the City's need to pursue alternative and new transit routes and services. *FTE has been involved with eight (8) transit related projects.*

FTE has performed multiple studies for major multimodal corridors following the guidelines set in the 2010 HCM, the latest FDOT Quality/LOS Handbook, the Transit Capacity and Quality of Service Manual (TCQSM), and the National Cooperative Highway Research Program (NCHRP) Report 616: Multimodal Level of Service Analysis for Urban Streets. We have evaluated the benefits of transit signal priority for two transit routes along western Kendall Drive in Miami-Dade County. FTE also evaluated the level of service of all the transit routes along the US-1 Busway corridor as part of a PD&E study for existing and future operations.

TRANSIT OPERATIONS PLANNING: We will review the existing operation to determine the feasibility of improve access to developing regions of the City and to provide connectivity with Miami-Dade system. Tasks would evaluate existing transportation and transit infrastructure and identify deficiencies on roadway, pedestrian, and bicycle facilities. The goal will be to provide a sustainable and permanent transportation investment that will anchor the future growth and spur economic development in developing regions of the city. We will develop an evaluation criterion and performance measures to evaluate route and service alternatives for an improved trolley system.

FTE conducted an on-board travel survey of SFRTA Tri-Rail riders for the purpose of capturing travel patterns, socio-economic characteristics, and customer opinions and preferences. The primary goal of a survey in the City of Miami Beach will be to gather information related to current ridership patterns and identify areas for improvements to support service expansion.

US-1/South Dixie Highway (Busway) Express Lanes PD&E Study, Miami Dade Expressway Authority (MDX): FTE's responsibilities for included data collection, an Auto Occupancy Study (35,000 vehicles) and an Origin-Destination Study (9,500 surveys). Additional tasks FTE was responsible for include *safety analysis*, access management, development of design traffic, development of travel demand model, evaluation of "No-Build" Alternative; managed lanes alternatives for three analysis years using VISSIM Software; and Signal Timing Optimization and Operational analysis using SYNCHRO Software.

BICYCLE/PEDESTRIAN FACILITY STUDIES - The FTE team has the depth of experience appropriate for the planning and design of possible proposed bicycle trails, bike paths, or bike lanes that share the road with traffic. These projects include roadway design, signalization, pavement marking and drainage. In addition, bicycle paths, which have intersections with the roadway, require proper signage following jurisdiction standards, also considering the MUTCD standards. Our team has experts dealing with master plans that encompass multimodal transportation issues and context sensitive design. We are ready to work with the City staff to complete the bicycle and pedestrian network, that its envisioned in the Master Plan.

Like all projects involving the design of bicycle facilities, a clear understanding of the functional and physical requirements of the project is essential for its success, such as ADA compliance, and connectivity. FTE has been responsible for generating a set of plans with constructability objectives; i.e. sustainability, accessibility, safety, cost-effectiveness, and compliance with local, federal and state design and environmental standards. To do this, FTE's Team has established an adopted and integrated concept and design process that relies on feedback from local municipalities, stakeholders and businesses in the vicinity of the projects. Our Senior Engineer, *Gary Ng, P.E. has been involved with 40 sidewalk projects and is currently designing a multi-use recreational trail (MURT) in City of North Port.*

SW 144th Avenue Bikeway from SW 42nd Street to SW 9th Street, Miami-Dade DTPW, Miami-Dade County, FL (2015-2016): FTE prepared final design plans for a paved multi-use path along SW 144th Avenue. Services also included a pedestrian / bicycle crossing with RRFBs at SW 26th Street, mid-block crossings, and signing & marking to the nearby Tree Island Park.

US 41 Multi-Use Recreational Trail (MURT) Decorative Lighting Design (LAP Funding), City of Punta Gorda, FL (2011-2112): FTE worked with FDOT District 1 and City of Punta Gorda to complete the decorative lighting design for the MURT along US 41.

US 41 Multi-Use Path from Sumter Boulevard to Ortiz Boulevard, FDOT District 1, Sarasota County, FL (2015-2017): FTE has designed a 2- mile multi-use path along both sides of US 41. The project requires removal of the existing concrete sidewalk and profiling of the new 12-foot wide multi-use asphalt path.

City of Tampa Architectural/Engineering Services Contract 14-D-00400 (2015-2016): FTE was retained to provide professional services to improve certain physical facilities within the operational jurisdiction of the various City Departments. Assignments have included the Citywide Sidewalk Program which involved a design of sidewalk at two locations; and professional engineering services in connection with West River Trail Pedestrian Crossing at Cass Street.

COMPLETE STREETS - FTE is aware of comprehensive mobility plans that address all modes and make recommendations for short, mid, and long-term projects to ensure safe and efficient streets for all users (i.e., complete streets). Complete streets impact the way roads are planned designed and constructed. FTE's team of engineers and planners will follow the Complete Streets policies to plan and design streets with all users in mind, but keeping in mind the City's goal to prioritize the people, the pedestrians. Some of the strategies that can be considered are adequate sidewalk widths, emphasis crosswalks, adequate pedestrian signalization, traffic calming improvements such as bulb-out, proper shading and lighting, etc.

City streets need to offer a balance between functional classification, adjacent land uses, and the competing needs of all transportation modes. The various design elements need to be in context with the character of the neighborhood and street. Within Miami Beach's constrained public right-of way, tradeoffs must be balanced and equitable and should always encourage the active transportation options of bicycling and walking.

TRANSPORTATION IMPROVEMENTS: Design projects require the capacity and the knowledge to prepare, update and revise roadway improvement plans in short timeframes. Our staff can provide the design expertise to readily meet the contract demands and our prior work on other similar contracts allows us to efficiently design and produce plans for minor improvements. A fast response to the assessment of potential utility conflicts and coordination with utility providers is required to successfully complete design projects. Our staff has extensive experience in providing final design plans including roadway, lighting, signing and pavement markings, and signalization to perform minor improvements. A field review will be performed to complete a list of existing features. Our design staff is trained in

preparing technical special provisions. These special provisions are required for lighting and signal designs involving special equipment or fiber optics interconnect systems.

SPOT SPEED STUDIES: Custom spreadsheets were specifically designed for Spot Speed Studies by FTE staff. These spreadsheets expedite the data processing for calculating and analyzing the speed data. This data collection function will involve performing spot speed measurements at specified locations. FTE will use the procedure presented in the ITE "Transportation and Traffic Engineering Handbook", Second Edition, Chapter 17, to gather the data. Speed studies can be done utilizing one of two methods, either based on Doppler principle (radar) methods or using road detectors (tubes). FTE will conduct spot measurements utilizing radar type device(s) to perform the task. Radar will be calibrated prior to each study and rechecked at the end of the data collection period.

TURNING MOVEMENT COUNTS: In addition to the industry standard data collection equipment, FTE has 47 Miovision Video Collection Units to obtain Turning Movement Counts processed through software automation. Traffic Data Collection will be performed using Passive and Verifiable Traffic Data Collection Technology. Miovision Scouts will be used to capture all intersection turning movement counts. The use of this equipment provides for a more consistent analysis of the traffic stream (volume, speed, occupancy and classification by lane) as well as providing an audit trail in the case of the video files. Miovision's traffic data technology combines Computer Vision and proprietary Quality Assurance Software to provide accurate traffic counts. The unprecedented accuracy, speed, low cost, and flexibility of the system provides important benefits for our clients.

GAP STUDIES: This data collection function will involve measuring gaps between vehicles at specified locations. This information will be recorded and summarized on forms included in the "Manual on Uniform Traffic Studies" (MUTS). FTE will measure the gaps between vehicles at specified locations in accordance with the general procedures established in Chapter III of MUTS or the ITE Transportation and Traffic Engineering Handbook, Second Edition, Chapter 17. In performing this work, it will first be determined whether the study site will require two-way or one-way gaps to be measured, depending on whether turning movements or pedestrian crossings can be accomplished in one or two phases. For a Vehicle Gap Measurement and Volume Count, the length of gaps between vehicles are observed and recorded for a 24-hour continuous period. The lengths of gaps between vehicles exceeding six seconds will be measured. Gaps of less than the study standard are not recorded.

DEVELOPMENT OF ALTERNATIVES AND RECOMMENDATIONS: FTE will present concise reports with information based on field reviews and crash data for specific locations during the concerning time periods to determine and identify improvements for roadway geometric and operational characteristics flaws, conflicts and deficiencies. FTE understands that the assessment of each alternative must weigh the advantages and disadvantages of each improvement. The selection of alternatives will be based on the safety benefits obtained utilizing the crash reduction factors (FHWA Desk Top Reference of the CRASH database) as well as the operational benefits from delay reductions to determine the benefit/cost of each alternative.

Gasparilla Road Widening: FTE obtained and developed intersection traffic data in the year 2012 to design five intersections along Gasparilla Road: Data Collection (8-hour turning movement counts and 24-hour approach counts; [Signal Warrant Analysis at Marathon Blvd, San Domingo Blvd, Ingraham Blvd, and Rotonda Blvd](#); Traffic Analysis; technical memorandum preparation; Development of Design Alternatives; Lighting; and Signalization.

Winchester at Ave of Americas: [Traffic analysis](#), Surveying, Geotechnical Engineering, intersection improvements, turn lane addition, signing and pavement marking, and signal design.

Veterans Boulevard Driveway: FTE reviewed and made recommendations with respect to the appropriateness of a proposed Circle K utilizing an existing driveway on Veterans Boulevard as access to the parcel located on the southeast corner of Cochran Boulevard and Veterans Boulevard in Charlotte County.

Murdock Village DRI: This project included providing transportation planning and traffic engineering services. These services included traffic analysis, turn lane analysis, [signal warrant analyses](#), intersection design at SR 776 and Flamingo, and meeting attendance.

Peachland at Loveland Blvd: [Intersection Analysis](#), turn lane additions, drainage modifications, permitting, new traffic signals with pedestrian features, ITS and Incident Management Cameras, signing and pavement marking, supplemental roadway lighting, geotechnical investigation for signal poles, drainage structures, utility coordination and SUE.

Charlotte County Miscellaneous Projects: Task Work orders have included professional services for [transportation studies](#) at various locations in Charlotte County: Acline and Taylor Road [multi-way stop evaluation](#), US 41 and Burnt Store Road, traffic signal design, railroad pre-emption, signal timing evaluation.

City of North Port Miscellaneous Projects: FTE performed four [traffic studies](#) and provided recommendations for the following locations in the City of North Port: Chamberlain Boulevard from North Cranberry Boulevard to Hillsborough Boulevard; New London Street and Acosta Avenue Intersection; East Price Boulevard and Yorkshire Boulevard; Purdue Street and Geranium Avenue.

Analysis of Traffic Conflicts at Driveways & Right-Turn Lanes Pilot Study: Provided subconsultant services as part of a pilot study to collect and analyze data at various locations and conduct a [manual conflicts analysis](#) at each location.

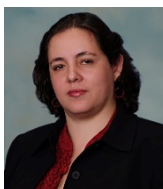
Congestion Management Study: FTE was retained to develop a traffic study to develop various [alternatives for congestion mitigation](#) at the Intersection of Kings Highway at Sandhill Boulevard and the surrounding area.

Olean Boulevard Widening: The work tasks under this contract included 24-hour machine counts and 8-hour turning movement counts at 4 intersections and 21 driveways; traffic issues, stakeholder coordination, [development of alternatives](#) addressing pedestrian improvements, access management, numbers of lanes and lane assignments. Prepared crash reports for the most recent 5 years, evaluated crash types and clusters, and recommended improvements. In addition, evaluated [access management classification and performed operational analysis of the intersections](#).

QUALIFICATIONS, CERTIFICATIONS, AND CAPACITY OF STAFF: FTE has assembled staff that have provided traffic engineering and design services for many agencies. The following paragraphs provide brief descriptions of the key team members.



Oliver Rodrigues, P.E., PTOE, Project Manager: Oliver has 26 years of experience in the area of transportation planning and traffic engineering. He has been providing services to the various Cities and is familiar with the Cities' roadway network, demographics, and culture. Oliver has conducted various pedestrian and bicycle studies, transit studies, and corridor feasibility studies throughout Florida. He also prepares design plans for minor roadway and sidewalk improvements, signing and pavement markings, decorative street lighting, and signalization.



Claudia Lamus, P.E., Project Engineer: Claudia has 13 years of experience in traffic operations, safety studies, transportation planning, and traffic impact studies. She has prepared and reviewed technical reports for various cities and counties. She currently reviews various traffic impact studies and attends the Planning Board meetings at City of Miami Beach. Claudia assisted in developing level of service volumes for lane reduction for the evaluation of a plan to implement Bus Rapid Transit (BRT) along the following transit corridors: North Corridor (NW 27th Avenue), East-West Corridor (SR-836 and Flagler Street), Kendall Corridor and Douglas Road Corridor.



Ravi Devaguptapu, P.E., PTOE, Senior Engineer: Ravi has 24 years of experience with traffic data collection, traffic operations studies, traffic safety studies, project traffic reports, operational analyses, access management, lighting design, and signal design. Ravi has performed quality assurance/quality control reviews on various design projects. He has been trained in Roadway Safety Audits and has successfully managed traffic data collection and traffic engineering contracts for FDOT, Counties, and other municipalities.



Phillip Kurth, P.E., PTOE, Senior Traffic Engineer: Phillip is a Senior Traffic Engineer bringing over 13 years of experience in both the public and private sectors. As a Consultant and as a Traffic Studies Specialist, Phillip conducted hundreds of traffic studies utilizing the industry's latest standards, techniques and traffic model simulations. His traffic experience includes operational analysis, traffic concurrency, intersection design, capacity analysis, roundabout analysis, traffic signal warrants, crash data analysis, speed studies, access management, roadway and intersection field assessments, area-wide signal retiming projects, and multi-million-dollar capital deployments.



Gary Ng, P.E., Senior Design Engineer: Gary has over 20 years of experience in highway engineering design, project coordination and management. He has served as Contract Manager on several multidiscipline task work order contracts and also urban reconstruction projects. He has prepared over 100 3R projects throughout Florida, which included over 100 intersection designs, 40 sidewalk projects, pavement designs, safety improvements, ADA upgrades, and preparation of design variations and exceptions.



Charles M. Sloan, Data Collection Manager: Charles has over 27 years of experience with volume counts, vehicle classification counts, approach counts, turning movement counts, intersection/roadway characteristic inventories, condition diagram preparation, and travel time and delay studies for numerous Department projects and local government agencies' projects. Charles has extensive experience in using the state of the art data collection equipment.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Oliver Rodrigues, P.E., PTOE	Project Manager	A. TOTAL 26	B. WITH CURRENT FIRM 14
15. FIRM NAME AND LOCATION (City and State)			
Florida Transportation Engineering, Inc. (FTE), Miami, Florida			
16. EDUCATION (Degree and Specialization)		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
B.S., Civil, University of South Florida, 1991		Professional Engineer, FL No. 50646 Professional Traffic Operations Engineer No. 1765	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
"Roadway Characteristics Inventory", FDOT, 2012; "Basic Highway Lighting", FDOT, 2007; "The Florida Green Book", Florida Engineering Society, 2007; "Low Cost Road Safety Audit Review Workshop", FDOT, 2007			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	SR 5 / US 1 from Beach Rd to County Line Rd, FDOT District 4, Palm Beach County, FL	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Project Manager/Engineer of Record – FTE is a subconsultant providing design services for the signing and pavement marking plan set. The project includes milling and resurfacing for the existing 6-lane urban, divided arterial along SR-5/US 1 from Beach Road to County Line Road in Palm Beach County, to extend the service life of the existing roadway. The new typical section will be a 4-lane urban divided arterial with bike lanes. Fee: \$29,487.00.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	NW 42nd Avenue Traffic Calming and Pedestrian Improvements, City of Coconut Creek, Florida	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Project Manager - FTE designed and developed construction contract documents for the addition of curb and gutter and the enhancement of the multiuse trail system with ADA compliant features. Prepared signing and marking plans for a pedestrian mid-block crossing with flashing beacon. Fee: \$37,370.00.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	SR 580 from E of Enterprise Dr to E of Countryside Blvd, FDOT District 7, Pinellas County, FL	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Senior Engineer - FTE was a sub-consultant, providing traffic design, signalization, and signing & pavement marking services. Signalization plans were prepared at three major intersections, SR 580 at US 19, Summerdale Dr., and Countryside Blvd. Plans are currently at 100%. Fee: \$56,126.00.		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	SR 50 A from E of Cortez Blvd to E of N Mildred Ave, FDOT District 7, Hernando County, FL	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Senior Engineer - FTE was a sub-consultant, providing signalization design services. Signalization plans were prepared for the intersection of SR 50A at Ponce De Leon Blvd. Fee: \$31,891.00.		

Additional projects for Oliver include:

SR 90 / US 41 / Tamiami Trail / SW 8th Street from Krome Avenue to SW 122nd Avenue, FDOT District 6, Miami-Dade County, FL (2015-2016): Project Manager/Engineer of Record – FTE evaluated existing conditions and evaluating improvement needs based on future travel demand along the corridor. Develop concepts for the corridor in addition to bicycle and pedestrian needs. Coordinated with adjacent studies and present updates to the Project Advisory Team. *Reference: Neil Lyn; FDOT District 6, 305-470-5373.*

SW 144th Avenue Bikeway from SW 42nd Street to SW 9th Street, Miami-Dade PWWM, Miami-Dade County, FL (2015-2016): Project Manager/Engineer of Record – FTE prepared design plans for a paved multi-use path along SW 144th Avenue. Services include a crossing at SW 26th Street, signing & marking to the nearby Tree Island Park, and landscape architecture. *Reference: Yanek Fernandez; P.E., PTOE, PTP, Miami-Dade PWWM, 305-375-1847.*

SR 5 / US 1 from Beach Rd to County Line Rd, FDOT District 4, Palm Beach County, FL (2012-On-going): Project Manager/Engineer of Record – FTE is a subconsultant providing design services for the signing and pavement marking and decorative pedestrian lighting plan sets. The project includes milling and resurfacing for the existing 6-lane urban, divided arterial along SR-5/US 1 from Beach Rd to County Line Rd in Palm Beach County, to extend the service life of the existing roadway. The new typical section will be a lane reduction to a 4-lane urban divided arterial with buffered bike lanes. *Reference: Robert Lopes, PE, FDOT District 4, 954-777-4425.*

US 41 Multi-Use Recreational Trail (MURT) Decorative Lighting Design (LAP Funding), City of Punta Gorda, FL (2011-2112): Engineer of Record - FTE worked with FDOT District 1 and City of Punta Gorda to complete the decorative lighting design for the MURT along US 41. *Reference: Mark Gering, PE; City of Punta Gorda, 941-575-5050*

US 41 Multi-Use Path from Sumter Boulevard to Ortiz Boulevard, FDOT District 1, Sarasota County, FL (2015-Ongoing): QC Reviewer – FTE is designing a 2- mile multi-use path along both sides of US 41. The project requires removal of the existing concrete sidewalk and profiling of the new 12-foot wide multi-use asphalt path. *Reference: FDOT PM: Chris Zeigler, (863) 519-2253.*

City of Tampa Architectural/Engineering Services Contract 14-D-00400 (2015-2016): QC Reviewer - FTE was retained to provide professional services to improve certain physical facilities within the operational jurisdiction of the various City Departments. Assignments have included the Citywide Sidewalk Program which involved a design of sidewalk at two locations; and professional engineering services in connection with West River Trail Pedestrian Crossing at Cass Street. *Reference: Bryan Rodger/Kevin Henika/ Karla Price, City of Tampa PMs, 813-274-8427.*

Beach Corridor Transit Connection Study, Miami Dade County MPO GPC (2013): Project Manager/QC Reviewer - Assisting in the update of a 2003 Environmental Impact Statement by researching census data and construction/development in downtown Miami and Miami Beach. *Reference: Myrna Valdez; Gannett Fleming, 786-845-9540.*

Transit Development Plan Major Update, Miami Dade Transit, (2013–Ongoing): Project Manager/QC Reviewer - Currently a sub consultant for Miami-Dade Transit (MDT). Assisting in the Transit Development Plan Major Update by gathering and analyzing census and MDT user data, developing GIS maps of municipalities' local bus/trolley routes, and researching master plans of other transportation agencies. *Reference: Monica D. Cejas, Miami Dade Transit, 786-543-2795.*

Bus Rapid Transit (BRT) Implementation Plan, Miami Dade MPO General Planning Consultant, Miami-Dade County, FL (2014): Project Manager/QC Reviewer As a sub-consultant for Miami Dade County MPO, Oliver assisted in developing level of service volumes for lane reduction for the evaluation of a plan to implement Bus Rapid Transit (BRT) along the following transit corridors: North Corridor (NW 27th Avenue), East-West Corridor (SR-836 and Flagler Street), Kendall Corridor and Douglas Road Corridor. *Reference: Larry Foutz, HNTB, 305-704-1218.*

Kendall Drive Transit Signal Priority Pilot Study, Miami Dade MPO General Planning Consultant, Miami-Dade, FL (2012-2013): Project Manager/QC Reviewer - The MPO initiated this pilot study to assess the impacts of bus priority at selected intersections within the corridor. In order to best analyze the impacts of TSP along the corridor, including any impacts on the signal coordination system, the Kendall Drive segment of SW 137th Avenue to SW 127th Avenue was selected as the study area for this project. The purpose of this study was to assess the impacts of bus priority. Reduction in bus control delay and bus travel time, minimal delay to non-transit vehicles were the Measures of Effectiveness (MOE) for this study. FTE is a sub consultant providing traffic engineering and data collection services, and report preparation. *Reference: Jitender Ramchandani, Miami-Dade MPO, 305-375-1735.*

Douglas Road Transit Corridor Study, Miami-Dade MPO General Planning Consultant, Miami-Dade, FL (2013): Project Manager/QC Reviewer - As a sub-consultant, FTE evaluated travel characteristics for a potential new route along the Douglas Road Corridor from the Miami Intermodal Center (MIC) to Coral Gables/Coconut Grove area. Evaluated travel time and speed, identified operational deficiencies, prepared technical memorandum. *Reference: Carlos Cejas, Gannett Fleming, 786-845-9540 Ext. 5812.*

US-1/South Dixie Highway (Busway) Study, Miami Dade Expressway Authority (MDX), Florida (2011–2014): Project Manager/QC Reviewer - FTE provided services as a sub consultant for the Miami Dade Expressway Authority. The services include: data collection, Crash Data Analysis, Inventory of existing signage along the project study area, Origin Destination Survey, Travel Time Survey Information and Analysis, Auto-Occupancy Study, Modeling through Trip Development, Defining Target Travel Times, Development of Design Traffic, Travel Time Validation, and managing Lanes Concepts Alternatives Testing. *Reference: Carlos Cejas, Gannett Fleming, 786-845-9540 Ext. 5812.*

Districtwide Modal Development Consultant, FDOT District 4 (2013–2015): Project Manager/QC Reviewer - Currently a sub consultant for FDOT District 4. FTE collected and analyzing pedestrian and bicycle movements using portable video collection units at high activity locations throughout the district. The data is collected annually for a comparison of trends. FTE also observed rail car movements at various CSX and FEC crossings in Miami-Dade, Broward, Palm Beach, and the Treasure Coast counties. Using video collection units, FTE collected characteristics at crossings including time of day, direction of travel, duration of gate closure, and number of engines and passenger/freight cars. Data was collected simultaneously over several locations so as to gather passenger/freight movement across the region in Districts 4 and 6. *Reference: A. Jeffrey Weidner, FDOT District 4, 954-777-4670.*

City of Miami Beach, Beach Walk Expansion – Pedestrian and Bicycle Study, Miami Beach, FL (2015): Project Manager/QC Reviewer - Oliver provided support for the evaluation of existing conditions for pedestrian and bicycle activity along the beach walk. *Reference: Xavier Falconi, City of Miami Beach, 305-673-7000 Ext. 6129.*

City of Miami Beach Transportation Planning and Traffic Engineering, Miami Beach, FL (2015–Ongoing): Project Manager/QC Reviewer - FTE is providing general transportation planning and traffic engineering consulting services, on an as needed basis. Oliver has provided services for a traffic circulation, one-way to two-way street conversion, and conceptual alternatives study on W. 42nd Street. In addition, he prepared the one-way traffic circulation feasibility study on Sunset Island IV evaluating a stop control vs. a roundabout intersection. *Reference: Josiel Ferrer-Diaz, City of Miami Beach, 305-673-7514.*

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Claudia Lamus, P.E.	Project Engineer	A. TOTAL	B. WITH CURRENT FIRM
		13	5
15. FIRM NAME AND LOCATION (City and State)			
Florida Transportation Engineering, Inc. (FTE), Miami, Florida			
16. EDUCATION (Degree and Specialization)		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
M.S Civil Engineering, Florida International University, 2004 B.S Civil Engineering, Florida International University, 2001		Professional Engineer, FL No. 72303	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	D-6 Transportation Statistics Support No. 3, Contract No. C-8T89, FPID 408199-1-12-02	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2014	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
Project Engineer: Claudia has prepared 18-Kip Reports and Scoping Reports. FTE is responsible for In-house support, statewide district coordination and involved in the following programs: roadway jurisdictional transfers, urban boundaries, functional classification, and NHS designations, RCI, SLD's, HPMS development, traffic count stations program, TTMS and PTMS implementation, work program, project traffic forecasting, Database management, and LOS. Fee: \$1.5m			
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	US-1/South Dixie Highway (Busway) Study, Miami Dade County, FL	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2014	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
Senior Engineer: FTE provided Data Collection, Transit Survey, Engineering Analysis and Reports, Crash Data, Signage Inventory, O&D Survey, Transit Data Collection & Analysis, Auto Occupancy/Visual Classification, Design Traffic, Travel Time Validation, Street Traffic Impact Analysis Parameters, Design Traffic Technical Memorandum, Meetings, Access Management, Quality Assurance, Public Involvement, and Public Meetings. Fee: \$860,465.00			
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	City of Miami Beach General Transportation Planning and Traffic Engineering Services	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2014- On-going	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
Traffic Engineer: FTE is providing professional services general transportation planning and traffic engineering consulting services on, as needed basis, for the City of Miami Beach, pursuant to RFQ No.55-08/09, general transportation planning and traffic engineering consulting services. Fee: \$234,800.00			
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	City of Coconut Creek General Professional Engineering Services	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2015	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
Traffic Engineer: Traffic Calming Improvements along NW 42 nd Avenue, Seminole Tribe Traffic Impact Study, and Reclaimed Water Metering Station project. Fee: \$37,370.00			

Additional projects for Claudia include:

Charlotte County Traffic Signal Retiming and Implementation, Charlotte County, FL (2014-2016): FTE is developing peak and off-peak season timing plans for three coordinated systems. The system timings are being developed for weekday and weekend plans using Synchro and TruTraffic software. FTE will provide the system data for implementation and fine tuning of the system.

US-1/South Dixie Highway (Busway) PD&E Study, Miami Dade Expressway Authority (MDX), Miami-Dade County, FL (2011-2014): Claudia is currently a sub consultant for the Miami Dade Expressway Authority. She is performing an evaluation of existing travel and geometric conditions, crash history, and travel time along the project corridor utilizing Synchro and Vissim to evaluate existing signal timing and to develop optimized timings. She is preparing design traffic to evaluate managed lane alternatives.

City of Cape Coral Signal Timing Analysis and Implementation, (2016-2017): FTE provided professional services for conducting needed traffic signal timing studies for six (6) arterials comprising of 34 intersections. Study types include Data Collection, Analysis, Implementation and Fine Tuning.

Miami Dade MPO General Planning Consultant, Kendall Drive Transit Signal Priority Pilot Study, Miami-Dade, FL (2012-2013): Senior Transportation Engineer – Claudia was in charge of preparing a traffic study to assess the impact of bus signal priority as part of a pilot program initiated by Miami Dade County MPO. The corridor Kendall Dr. from 137 Ave. to SW 127 Ave. was analyzed using VISSIM.

Charlotte County Congestion Mitigation Study at Kings Highway and Sandhill Boulevard, Charlotte County, (2013-On-going): Claudia is preparing a traffic study to create various alternatives including signal retiming using Synchro for congestion mitigation at the intersection of Kings Highway at Sandhill Boulevard and the surrounding area.

FDOT District 6, 18-Kip Report SR 934/NE 79th Street Causeway, Districtwide Transportation Statistics No. 3 (2011-2012): Claudia performed an 18-Kip Report for SR 934/NE 79th Street Causeway East of N Bayshore Drive to Bay Drive West. This 18-kip Report was prepared based on the Trend Analysis, and Equivalent Single Axle Load (ESAL) Analysis Tool developed by the FDOT. Trend Analysis was performed using FDOT's historical data, and SERPM 6.5 model volumes. The report also included ESAL calculations for design, mid-design and opening year.

FDOT District 6, Flagler Street and NW 74th Avenue Crash Analysis, Traffic Operations & Safety Studies (2012): Claudia performed a fatal crash analysis and provided recommendations for the intersection of Flagler Street and NW 74 Avenue.

Miami Dade Transit, Bus Rapid Transit (BRT) Implementation Plan along Transit Corridors, Miami-Dade County, FL (2014): Currently a sub-consultant for Miami Dade County MPO. Claudia evaluated a plan to implement Bus Rapid Transit (BRT) along the following transit corridors: North Corridor, East-West Corridor (SR-836 and Flagler Street), Kendall Corridor and Douglas Road Corridor.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Ravi Devaguptapu, P.E., PTOE	Senior Engineer	A. TOTAL 24	B. WITH CURRENT FIRM 24
15. FIRM NAME AND LOCATION (City and State)			
Florida Transportation Engineering, Inc. (FTE), Punta Gorda, Florida			
16. EDUCATION (Degree and Specialization)		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
M.S. Civil Engineering, Arizona State University, 1994 B.S. Civil Engineering, JNTU, India		Professional Engineer - Civil, FL No. 53150; AL 30803, AR 14201, AZ 59381, KS 22820, GA 034439, MO 000162, NC 036979, TN 113596, SC 27710, TX 112339, WV 21006, RI 11571, Professional Traffic Operations Engineer No. 1112	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Work Zone Control Safety Certification-MOT Level II; Advanced Maintenance of Traffic; Roadway Design Workshop; Traffic Signals Workshop ISMA; FDOT Basic Highway Lighting and Electricity Course; FDOT FSUTMS Workshops-Basic Transit Travel Demand Modeling, Intermediate Travel Demand Modeling, Advanced Travel Demand Modeling, QUATS Travel Demand Forecasting, Calibration, Highway Capacity Analysis, TRAFNetSim; QC Manager; UCF Timing Traffic Signals; Synchro Level I and II			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Congestion Mitigation Study at Kings Highway and Sandhill Boulevard, Charlotte County, FL	PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Prepared a traffic study to evaluate various alternatives for congestion mitigation at the intersection of Kings Highway at Sandhill Boulevard and the surrounding area. Ravi was the Project Manager for this project. Fee: \$92,200.00		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Traffic Engineering Assessment, City of Cape Coral, FL	PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Conduct an assessment of the functions performed by the Traffic Engineering section within the Cape Coral Public Works Department's Design and Construction Division. The goal of this Traffic Engineering Assessment and Action Plan is to provide the City with a practical and actionable, state-of-the-art, strategic work plan which addresses the essential elements of a modern, municipal traffic engineering office. Ravi was the Project Manager for this project. Fee: \$25,000.00.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	City of North Port Traffic Studies, North Port, FL	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Performed four traffic studies and provided recommendations for the following locations in the City of North Port: Chamberlain Boulevard from North Cranberry Boulevard to Hillsborough Boulevard; New London Street and Acosta Avenue Intersection; East Price Boulevard and Yorkshire Boulevard; Purdue Street and Geranium Avenue. Ravi was the Project Manager for this project. Fee: \$19,900.00.		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	US-1/South Dixie Highway (Busway) Study, Miami Dade County, FL	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Provided services as a subconsultant for the Miami Dade Expressway Authority. The services include: data collection, crash data analysis, inventory of existing signage along the project study area, origin destination survey, travel time survey information and analysis, auto-occupancy study, modeling through trip development, defining target travel times, development of design traffic, travel time validation, and managing lanes concepts alternatives testing. Ravi was the Senior Engineer for this project. Fee: \$860,000.00.		

Additional projects for Ravi include:

Charlotte County Professional Services Contracts (2006-On-going): FTE is providing Civil, Transportation Studies and Engineering services to Charlotte County. Task Work orders have included professional services for transportation studies at various locations in Charlotte County: Acline and Taylor Road multi-way stop evaluation, US 41 and Burnt Store Road signing and pavement marking, traffic signal design, railroad pre-emption, signal timing evaluation.

Districtwide Miscellaneous Planning Studies, FDOT District 4 (2008-2015): Supporting the Districtwide programs for traffic and highway data collection. These programs involve roadway jurisdictional transfers, urban boundaries, functional classification, and NHS designations, RCI, SLD's, HPMS development, traffic count stations program, TTMS and PTMS implementation, work program, project traffic forecasting, database management, and LOS.

Town of Longboat Key Traffic Engineering Services (2009): FTE provided a traffic engineering study to review and evaluate the City of Sarasota's Bayfront Transportation Improvement Plan including analysis of roundabouts, modeling assessment, traffic forecasting, level of service analysis, and proposed geometric configurations.

D-6 Transportation Statistics Support No. 3, Contract No. C-8T89: (2009-2014): FTE was responsible for In-house support, statewide district coordination and involved in the following programs: roadway jurisdictional transfers, urban boundaries, functional classification, and NHS designations, RCI, SLD's, HPMS development, traffic count stations program, TTMS and PTMS implementation, work program, project traffic forecasting, Database management, and LOS.

Lee & Collier County MPO Long Range Transportation Plan Updates (2009-2010). FTE provided planning, data collection, congestion management recommendations and financial analysis.

Hillsborough County MPO General Planning Consultant (2010): FTE was a subconsultant to URS on this contract. The scope included assistance with the LRTP, and Systems Planning: including Congestion Management, ITS, Intermodal/Freight, Transit and Bicycle and Pedestrian Planning. FTE collected volume and classification counts for the County thru this contract.

Miami Dade County MPO General Planning Consultant (GPC) (2010): FTE provided services to Gannett Fleming for Transit projects.

Miami Dade County MPO General Planning Consultant (2011-2014): FTE provided services under Work Order 16 GPCIV-16, Origin Destination Surveys for Express Bus Services to HNTB.

City of North Port Professional Services, RLI No. 2009-05 & 2009-05/R2010 (2009-2012): FTE provided services in the areas of civil engineering, construction management, engineering, planning, and transportation studies on an as needed basis.

City of Fort Myers Library - Transportation Planning, RFQ-10/18/07-RFQ-PW (2011): FTE's services included Traffic Impact Statement (TIS) Methodology and Review.

Charlotte County Professional Services Contract No. 2010000335 (2011-2013): Work Order 14, Charlotte County Traffic Studies including data collection, four-way stop warrant analysis, signal design, signing and pavement marking, railroad preemption timings, and construction management.

City of Cape Coral Engineer Contract, CON PW10-36/PB (2011-2014): FTE was contracted to provide professional services necessary for conferences, consultation, and preparation of preliminary studies, working drawings, specifications, scale and detail drawings and estimate of costs in connection with the City's planned architectural, engineering and construction projects.

City of North Miami Continuing Architectural and Engineering Services (2001-2003): Tasks include Feasibility Study; Conceptual Plan, and Construction Documents Preparation; Assist with application for funding of the NE 125th Street improvements project with the MPO under the Transportation Enhancement Program.

D-6 Districtwide Data Collection Services, FDOT Contract No. C-7837 (2001-2005): One of the main tasks under this contract is the update of the Functional Classification performed every 10 years. As part of this task, FTE assisted the Department in the development of the Scope of Services, analysis of the roadway network in Miami Dade and Monroe counties, urban boundaries, roadway characteristics inventory, and coordination meetings. Also, as an extension of the Planning Office staff, FTE provided in-house engineering support assisting the Department in the review of traffic counts submitted by consultants, as well as being in charge of the maintenance and revisions of the GIS Basemap for section alignments, length, description, and correction of inconsistencies. FTE lead the efforts in a Pilot Project assigned by the Central Office for RCI data extraction using GIS applications.

Polk County Contract No. 98-70-06 (2003): FTE provided data collection services for Evaluation of Congested Roadway Segments and Short-Term Intersection Program (20 intersections) in Polk County as a subconsultant to PBS&J.

Burnt Store Road/Veterans Parkway/Colonial Boulevard (2003-2005): FTE proved data collection and post card surveys, for Lee and Charlotte Counties - Phase I - Project Traffic Development, and Phase II - Conceptual Alternatives Analyses as a subconsultant to PBSJ.

Lee County Miscellaneous Traffic Engineering Services, CN-06-06 (2006-2008): The scope of this project was to provide specific professional services to the Department throughout Lee County. Assignments have included Traffic Volume Data Collection, One-way Tolling Test Program, Signal Warrant Analysis, Signal Design, Traffic Circulation Study, and Pedestrian Access Improvements. Specific assignments have included: 2007 and 2008 Traffic Volume Data Collection; One-way Tolling Test Program; Signal Design; Traffic Circulation Study; Del Prado and SE 22nd Lane/SE 12th Pedestrian Access Improvements.

Bonita Springs Traffic Circulation Study (2006-2008): As part of the City's Traffic Circulation Study, FTE's services included: Project Management, Traffic Data Collection (24-hour volume counts at 25 locations), Spot Speed Studies at 11 locations, Speed Limit Evaluation at 11 locations, Stop Sign Evaluation Studies at 19 locations, Sight Distance Studies at 10 locations, Existing Conditions Evaluation, Video Data Collection for 10 roadways, Collision Diagrams for 30 locations, Travel Demand Model (FSUTMS) Calibration, Travel Demand Model (FSUTMS) runs for 2 years and 8 alternatives, Travel Demand Model runs for Corridor Feasibility Studies (21 scenarios), Provide assistance with Senate Bill 360, Review of Traffic Impacts from Proposed Developments, Concurrency Issues, Functional Classification Recommendations, GIS Mapping, Intersection Improvement Evaluation, Interchange Evaluation, Roadway Classification, Public Involvement, Corridor Feasibility Studies for 5 corridors, Project Cost Estimates, Prioritization of Roadway Improvements, and Roadway Alignment.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Phillip Kurth, P.E., PTOE	Senior Traffic Engineer	A. TOTAL	B. WITH CURRENT FIRM
		10	2
15. FIRM NAME AND LOCATION (City and State)			
Florida Transportation Engineering, Inc. (FTE), Chipley, Florida			
16. EDUCATION (Degree and Specialization)		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
B.S. Civil Engineering, Magna Cum Laude, Florida State University 2006		Professional Engineer: FL 72434, AL 32065 Professional Traffic Operations Engineer (PTOE) No. 3209	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Synchro / SimTraffic Modeling, 2010 HCM / HCS Analysis, SIMSA Traffic Signal Inspector, SIMSA Traffic Signal Level 2 Technician, FDOT Level of Service, FDOT Intersection Design, FDOT Design Exceptions & Variations, FSUTMS Comprehensive Modeling, Advanced Maintenance of Traffic, Treasurer of the ITE Emerald Coast Chapter			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Districtwide Traffic Operations (TOPS) Signal Retiming, Contract C-9K57, FDOT District 3, Florida	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2015-2020	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Manager: FTE is providing FDOT with professional services for conducting needed traffic signal retiming studies for arterials and isolated intersections. Signal systems will be retimed for both weekday and weekend operation, with the number of timing patterns determined by the data collection effort and approved by FDOT. Project Cost: \$1,500,000.			
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	FDOT District Three, ITS / ATMS General Consultant, Contract C-9FOO	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2014-2019	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Manager: As a sub-consultant, Phillip manages traffic signal data collection, traffic signal trouble shooting, and travel time delay studies in FDOT District 3. Total Project Cost: \$1,500,000.			
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Escambia County Signalization Continuing Services Consultant, Escambia and Santa Rosa Counties, Florida	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2015-On-going	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Manager: FTE is providing subconsultant services for DRMP. Phillip is the project manager providing enhanced traffic operations, traffic engineering, transportation planning and support of system of traffic signals. Project Cost: \$80,000			
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	SR 30 (US 98) @ 17th Avenue PD&E Study in Escambia County, FDOT District 3, FL	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2015-2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Manager: FTE is providing the following services as a subconsultant: Traffic Data collection and assist in the setup of alternates in synchro and Vissim, including initial setup, calibration, am/pm analysis. Work effort to include modifications to model alternates from input received from stakeholders. Project Cost: \$31,513			

Additional projects for Phillip include:

Roaring Fork Transit Authority (RFTA), CO State Highway 82: Performed traffic impact and operational analysis for a federally funded Transit Authority which included traffic data collection, trip generation, trip distribution, capacity analysis and system wide traffic model simulations. Re-timed traffic signals and altered signal phasing operations on a Strategic Regional Corridor to accommodate Bus Rapid Transit (BRT) facilities and implement Transit Signal Priority (TSP) system.

D-3 Districtwide Traffic Operations (TOPS) Signal Retiming, Contract C-9K57 (2015-2020): FTE is providing FDOT with professional services for conducting needed traffic signal retiming studies for arterials and isolated intersections. Signal systems will be retimed for both weekday and weekend operation, with the number of timing patterns determined by the data collection effort and approved by FDOT. *Reference: Cliff L. Johnson, Jr., FDOT District 3 Traffic Operations Office, 850-330-1694.*

D-3 Traffic Operational Studies, Contract C-9A18, FMN 220898-2-32-01 (2013-2018): Phillip is providing the Department with professional services for conducting traffic operational/safety studies, performing professional engineering services to support the traffic regulation approval process, as well as to provide technical services of a miscellaneous nature involving traffic operations. As a direct extension of the Traffic Operations office, Phillip is providing assistance to Departmental staff in reviewing various plan sets, traffic analyses, and their associated design/impact for compliance with FDOT standards, specifications, and other governing documents. Specific tasks include signal warrant studies, intersection analysis, arterial studies, speed studies, permit review; PD&E study review, and composite studies.

D-3 Districtwide Miscellaneous Traffic Count Services, Contract B-DQ40, FMN 220984-1-32-14 (2010-2013): The scope of this project is to provide the Department with Eight (8), Ten (10), and Twelve (12) hour Intersection traffic counts, twenty-four-hour traffic counts, vehicle speed studies, intersection delay studies, vehicle gap studies, intersection topography, special counts, and travel time and delay studies.

D-3 Districtwide Traffic Operations Studies-Access Management, Contract C-9L03 (2015-2020): The purpose of this contract is to provide professional services for conducting traffic operational/safety studies, performing professional engineering services to support the traffic regulation approval process, as well as to provide technical services of a miscellaneous nature involving traffic operations. The subsequent analysis and conceptual recommendations produced will be used in the development of construction plans, incorporated into traffic operational/safety improvement projects to be included in FDOT's work program, or in the case of traffic signal timing plans, be implemented directly into the field by FTE. Additionally, assistance is to be provided to District Traffic Operations staff in reviewing various plan sets, traffic analyses, and their associated design/impact for compliance with FDOT standards, specifications, and other governing documents. *Reference: Mac Watters, P.E., D-3 Traffic Operations, 850-330-1276.*

Escambia County Signalization Continuing Services Consultant, Escambia and Santa Rosa Counties, Florida (2015-On-going): FTE is providing subconsultant services for DRMP. Phillip is the project manager providing enhanced traffic operations, traffic engineering, transportation planning and support of system of traffic signals. *Reference: John Alaghemand, P.E., DRMP, Inc., 850-640-3904 Ext. 3203.*

SR 30 (US 98) @ 17th Avenue PD&E Study in Escambia County, FDOT District 3 (2015-2017): FTE is providing the following services as a subconsultant: Traffic Data collection and assist in the setup of alternates in Synchro and

Vissim, including initial setup, calibration, am/pm analysis. Work effort to include modifications to model alternates from input received from stakeholders. *Reference: Shawn R. Justice, P.E., Volkert, Inc., 850-588-1618, Ext 1402.*

PD&E Study for SR 30 (US 98) over Santa Rosa Sound Bridge Replacement, FDOT District 3 (2015-2019): FTE provided traffic data collection and analysis. In addition, Phillip is performing the Traffic Operations Analysis for the nine (9) signalized intersections within the Project Area utilizing Synchro and Vissim for the existing conditions and three (3) alternatives. Work effort also included the Safety Analysis and Needs Statement for the US 98 Corridor. *Reference: Steve Schnell, AICP, HDR, 904-228-7715*

PD&E Study for CR 390 in Bay County, FDOT District 3, C-9L70 (2015-2017): FTE provided traffic data collection and analysis. In addition, Phillip is performing the QA/QC of the Traffic Operations Analysis for the six (6) signalized intersections within the Project Area. *Reference: Walter Nemecek, P.E., ARCADIS-US, 904-721-2991, ext 844*

FDOT / Department of Defense, Hulbert Field, FL: Developed system-wide traffic model, analyzed multiple Single Point Urban Interchange (SPUI) design options.

FDOT, Escambia and Santa Rosa Counties, FL: Supervised the review, implementation and QA/QC of a multi-jurisdictional urban signal retiming project of over 200 traffic signals in the Greater Pensacola Area.

SR 30 (US 98) PD&E Studies, Okaloosa & Santa Rosa Counties, FDOT District 3 Contract C-9068 (2016-2019): FTE provided traffic data collection services, traffic analysis, traffic operational analysis, and prepared a Design Traffic Technical Memorandum. *Reference: Daniel Kristoff, PE, RS&H, 904-256-2139.*

SR 10 (US 90) f Washington County Line to Begin 4-Lane East Banfill Ave., FDOT District 3 (2016-2025): FTE is providing roadway analysis services to prepare a 3R Safety Report. *Reference: Bryan Pumphrey, P.E., Panhandle Group, 850-638-3363.*

PD&E for SR 30 (US 98) Navy Blvd in Escambia County, FDOT District 3 Contract C-9P53 (2016-2018): FTE is providing support services for this PD&E project. *Reference: Ben Faust, P.E., DRMP, 850-640-3904.*

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Charles Sloan	Data Collection Manager	A. TOTAL	B. WITH CURRENT FIRM
		26	16
15. FIRM NAME AND LOCATION (City and State)			
Florida Transportation Engineering, Inc. (FTE), Tampa, Florida			
16. EDUCATION (Degree and Specialization)		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Certifications in: RCI Basics, RCI Advanced Concepts, RCI Intro to Data Management, RCI Intermediate Office, RCI Intermediate Field Data Collection, Highway Performance Monitoring System (HPMS), Planning Roadway Data Collection, Sign Installation & Inspection, Guardrail Installation & Inspection

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	US-1/South Dixie Highway (Busway) Express Lanes PD&E Study Miami Dade Expressway Authority (MDX), Florida	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2015	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
FTE's responsibilities include data collection (72-hour arterial counts at 362 locations, turning movement counts at 94 intersections, and 72-hour miscellaneous counts at 57 locations), Auto Occupancy Study (35,000 vehicles) and Origin Destination Study (9,500 surveys). In addition, the tasks FTE is responsible for include Safety Analysis, Access Management, development of design traffic, development of travel demand model, evaluation of "No-Build" and three Managed Lanes alternatives for 3 analysis years using VISSIM Software, and Signal Timing Optimization and Operational analysis of the intersections using SYNCHRO Software. Project Cost: \$838,052			
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Orlando-Orange County Expressway Authority (OOCEA) Traffic & Earnings Consultant, Florida	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2016	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
FTE is providing data collection services as a subconsultant to CDM Smith including 72-hour volume, directional counts at 35 locations in the Central Florida Region. FTE is utilizing the BluFAX Bluetooth technology to conduct a ramp-to-ramp origin-destination survey on the Beachline Airport Mainline Toll Plaza on SR 528 (Beachline Expressway). Project Cost: \$36,260			
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	South Florida Regional Transportation Authority (SFRTA) Tri-Rail Transit Development Plan - On Board Ridership Survey, Palm Beach, Broward, Miami-Dade, Florida	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2013	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
FTE conducted an on-board travel survey of SFRTA Tri-Rail riders for the purpose of capturing travel patterns, socio-economic characteristics, and customer opinions and preferences. The primary goal of this survey effort is to gather information related to current ridership patterns and identify areas for improvements to support SFRTA's FY 2014-2023 Transit Development Plan (TDP), Major Update. Project Cost: \$95,015			
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Miami Dade MPO General Planning Consultant, Kendall Drive Transit Signal Priority Pilot Study, , Miami-Dade, Florida	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		Ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
The MPO initiated this pilot study to assess the impacts of Bus priority at selected intersections within the corridor. Reduction in bus control delay and bus travel time, minimal delay to non-transit vehicles were the Measures of Effectiveness (MOE) for this study. FTE is a subconsultant providing traffic engineering, data collection services, and report preparation. Project Cost: \$52,472			

Additional projects for Charles include:

US-1/South Dixie Highway (Busway) Express Lanes PD&E Study, Miami Dade Expressway Authority (MDX) (2011-2013): Services included data collection (72-hour arterial counts at 362 locations, turning movement counts at 94 intersections, and 72-hour miscellaneous counts at 57 locations), Auto Occupancy Study (35,000 vehicles) and Origin Destination Study (9,500 surveys). In addition, the tasks FTE is responsible for include Safety Analysis, Access Management, development of design traffic, development of travel demand model, evaluation of “No-Build” and three Managed Lanes alternatives for 3 analysis years using VISSIM Software, and Signal Timing Optimization and Operational analysis of the intersections using SYNCHRO Software.

South Florida Regional Transportation Authority (SFRTA) Tri-Rail Transit Development Plan - On Board Ridership Survey, Palm Beach, Broward, Miami-Dade, FL (2011-2013): FTE conducted an on-board travel survey of SFRTA Tri-Rail riders for the purpose of capturing travel patterns, socio-economic characteristics, and customer opinions and preferences. The primary goal of this survey effort is to gather information related to current ridership patterns and identify areas for improvements to support SFRTA’s FY 2014-2023 Transit Development Plan (TDP), Major Update.

Kendall Drive Transit Signal Priority Pilot Study, Miami Dade MPO General Planning Consultant, Miami-Dade, FL (2012-2013): The MPO initiated this pilot study to assess the impacts of Bus priority at selected intersections within the corridor. In order to best analyze the impacts of TSP along the corridor, including any impacts on the signal coordination system, the Kendall Drive segment of SW 137th Avenue to SW 127th Avenue was selected as the study area for this project. Reduction in bus control delay and bus travel time, minimal delay to non-transit vehicles were the Measures of Effectiveness (MOE) for this study. FTE was a subconsultant providing traffic engineering and data collection services, and report preparation.

Orlando-Orange County Expressway Authority (OOCEA) Traffic & Earnings Consultant (2013): FTE provided data collection services as a subconsultant to CDM Smith including 72-hour volume, directional counts at 35 locations in the Central Florida Region. FTE is utilizing the BluFAX Bluetooth technology to conduct a ramp-to-ramp origin-destination survey on the Beachline Airport Mainline Toll Plaza on SR 528 (Beachline Expressway).

D-2 Managed Lanes Feasibility Study on I-295 from Buckman Bridge to I-95 South Interchange, FMN 432124-1-12-01 (2012-2013): FTE provided the following data collection services at I-295 interchanges: 7-day volume ramp counts at 28 locations; mainline 7-day bi-directional volume counts at six locations; deploy blue tooth units for 7 days at 40 locations; 12 arterial counts; turning movement counts collected at four intersections.

Lee County Miscellaneous Traffic Engineering Services (2003-2013): FTE provided professional services in the area of traffic engineering: some of the tasks included development of a circulation study and conceptual recommendations; traffic engineering services; traffic volume data collection; Three Oaks & Coconut mast arm signalization plans; one-way tolling test program; tube counts; Del Prado & SE 22nd Lane & Del Prado & SE 12th pedestrian access improvements; College Parkway & Summerlin Road traffic counts.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Gary Ng, P.E.	13. ROLE IN THIS CONTRACT Senior Engineer (CIVIL)	14. YEARS EXPERIENCE	
		A. TOTAL 20	B. WITH CURRENT FIRM 3
15. FIRM NAME AND LOCATION (City and State) Florida Transportation Engineering, Inc., Tampa, FL			
16. EDUCATION (Degree and Specialization) BS Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Florida P.E. (Civil Engineering)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Florida Engineering Society (FES); Florida Engineering Leadership Institute (FELI) Class of 2013 Advanced Maintenance of Traffic; FDOT Specification Package Preparation; FDOT Long Range Estimates Program			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) Olean Boulevard Widening, Charlotte County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2015-ongoing	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project included evaluation of four alternatives which focused on Safety, Capacity, Community Enhancements, and budget. The evaluation included analysis of a roundabout at the intersection of Caring Way. The design is underway for widening of Olean Boulevard. Gary is the Engineer of Record for this project. Fee: \$902,292.50	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) Architectural/Engineering Services, City of Tampa, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Assignments have included Citywide Sidewalk Program which involved design of sidewalks at two locations and Professional Engineering Services in connection with West River Trail Pedestrian Crossing at Cass Street. Gary is the Engineer of Record for these projects. Fee: \$106,428.38	<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (City and State) US 41 (SR 44/SR 45) from SR 44 to Cherry Avenue, Citrus County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE RRR project which includes milling and resurfacing, signalization, pavement marking and pedestrian signal improvements. The project included adding a bicycle keyhole at the right turn lane at S. Park Avenue, directional signs, and ADA improvements. Gary was the project manager for this project. Fee: \$646,244.00	<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (City and State) Winchester Ave at Avenue of the Americas, Charlotte County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Traffic analysis, Surveying, Geotechnical Engineering, intersection improvements, turn lane addition, signing and pavement marking, and signal design. Gary is the Engineer of Record for this project. Fee: \$89,000.00	<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (City and State) Peachland/Loveland Intersection Improvements, Charlotte County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Turn lane additions, drainage modifications, permitting, new traffic signals with pedestrian features, ITS and Incident Management Cameras, signing and pavement marking, supplemental roadway lighting, geotechnical investigation for signal poles, drainage structures, utility coordination and SUE. Gary is the Engineer of Record. Fee: \$135,000.00	<input checked="" type="checkbox"/> Check if project performed with current firm	

Additional projects for Gary include:

12th Street sidewalk from Hanna Street to Henry Street, City of Tampa: Project Manager and Engineer for the addition of 1300 feet of sidewalk through a residential area. Project included driveway analysis, ADA compliance, and curb ramps. 2015-2017, COT PM: *Jorge Uy P.E., (813) 274-1289*

West River Trail Pedestrian Crossing at Cass Street, City of Tampa: Project Manager and Engineer for the addition of a mid-block crossing at Cass Street located between the University of Tampa and Tampa Preparatory School. The crossing included a raised median, new sidewalk, ADA upgrades and solar powered Rectangular Rapid Flashing Beacons (RRFB). 2015-2016, COT PM: *Karla Price, (813) 274-8211*

US 92/SR 600/Dale Mabry Hwy. from S of W McKay Ave. to S of W Cleveland St., Hillsborough County, FDOT District 7: Project Manager and Engineer for RRR and safety improvements. The project included milling and resurfacing, driveway modifications, upgrading curb ramps to ADA conformance, new mast arm signalization with lighting at Swann Avenue and Azelee Street. 2016-2018, FDOT PM: *Indike Ratnayake, P.E., (813) 975-6426*

US 41 Multi-Use Path from Tuscola Blvd to Ortiz Blvd, Sarasota County, FDOT District 1: Project Manager and Engineer to provide a 2-mile, 12-foot wide multi-use path along both sides of US 41. The project includes median modifications, signing and pavement markings, pedestrian feature upgrades, and lighting relocations. The project was requested by the City of North Port. 2015-2017, FDOT PM: *David Jones, (863) 519-2253*

District Wide Traffic Operations Minor Project Design, FDOT District 1, Charlotte, Collier, DeSoto, Glades, Hardee, Hendry, Highlands, Lee, Manatee, Okeechobee, Polk, and Sarasota Counties: Project Manager for a task assignment contract. Task assignments ranged from new sidewalks to intersection improvements. The project involved design of roadway, drainage, signing and pavement marking, signalization, and lighting. 2005-2015, FDOT PM: *Amy Blair, (863) 519-2272*

SRTS Shadowlawn Elementary School, Collier County, FDOT District 1: Project Manager and Engineer to provide sidewalks for Shadowlawn Elementary on Andrew Drive and Francis Avenue. Project included drainage modifications and right-of-way donation. 2013-2014, FDOT PM: *Justin Reck, (863) 519-2502*

SRTS Lake Placid Elementary School, Highlands County, FDOT District 1: Project Manager and Engineer to provide sidewalks for Lake Placid Elementary. Project included signing and pavement marking and pedestrian features. 2013-2013, FDOT PM: *Amy Blair, (863) 519-2272*

SRTS James Stephens Int'l Academy Sidewalk, Lee County, FDOT District 1: Project Manager and Engineer to provide sidewalks for James Stephens Int'l Academy. Project included signing and pavement marking and pedestrian features. 2012-2012, FDOT PM: *Kellie Spurgeon, (863) 519-2654*

SRTS Nocatee Elementary School, DeSoto County, FDOT District 1: Project Manager and Engineer for LAP project to provide sidewalks for Nocatee Elementary School. Project includes signing and pavement marking, and drainage improvements. 2006-2007, FDOT PM: *Amy Blair, (863) 519-2272*

SR 17 sidewalk from F Street to I Street, Polk County, FDOT District 1: Project Manager and Engineer to provide sidewalks for Frost Proof Middle School. Project included signing and pavement markings and pedestrian features. 2012-2012, FDOT PM: *Justin Reck, (863) 519-2502*

US 92/Memorial Boulevard from Gary Road to North Eastside Drive, Polk County, FDOT District 1: Project Manager and Engineer for the addition of 1 mile of sidewalk through the City of Lakeland. Project included driveway analysis, ADA compliance, transit improvements, and pedestrian feature updates at the signalized intersections. 2010-2011, FDOT PM: Amy Blair, (863) 519-2272

SR 29 Pedestrian Improvements, City of Immokalee, FDOT District 1: Project Manager and Engineer for a safety improvement project that provided a pedestrian zone through the City of Immokalee. The project included providing sidewalk bulb outs to enhance pedestrian safety while maintaining existing drainage patterns. Signing included two overhead pedestrian warning signs with high emphasis pavement markings to promote driver awareness. 2009-2010, FDOT PM: Justin Reck, (863) 519-2502

SR 544 at US 27, Polk County, FDOT District 1: Project Manager and Engineer for an intersection improvement which included widening a two-lane roadway to provide for dual left turn lanes and a right turn lane. Project included sidewalk, new signal, drainage improvements, right-of-way acquisition, pavement design, and utility coordination. 2011-2014, FDOT PM: Kellie Spurgeon, (863) 519-2654

SR 572 at Old Tampa Highway, Polk County, FDOT District 1: Project Manager and Engineer for an intersection improvement which included widening a two-lane roadway to provide for left turn lanes. The project included signal and drainage improvements, right-of-way acquisition, and pavement design. 2012-2013, FDOT PM: Amy Blair, (863) 519-2272

SR 540 at Thornhill Road, Polk County, FDOT District 1: Project Manager and Engineer for intersection improvements which included adding right turn lanes. The project included signing and drainage improvements, pavement design, lighting relocation, signal replacement and utility coordination. 2009-2010, FDOT PM: Kellie Spurgeon, (863) 519-2654

US 98 at Griffin Road, Polk County, FDOT District 1: Project Manager and Engineer for intersection improvements to enhance pedestrian safety. Project included modifying the radial returns at the intersections and updating crosswalks and pedestrian features to eliminate free flow right turn lanes. The project also included signal and drainage improvements, and utility coordination. 2010-2011, FDOT PM: Justin Reck, (863) 519-2502

SR 546/US 92 from Wabash Avenue to Florida Avenue, Polk County, FDOT District 1: Project Manager for the construction of a left turn lane at Wabash Avenue and left turn lane extensions at the approaches of Martin Luther King Jr. Boulevard. The project included signalization improvements and concrete pavement design. 2011-2012, FDOT PM: Amy Blair, (863) 519-2272

SR 45/US 41 from CR 572 to Pine Cabin Road, Hernando County, FDOT District 7: Project Manager for the RRR and safety improvement project which involved the milling and resurfacing of 1.2 miles of US 41. The project included the addition of sidewalk and new signalization at CR 572. Traffic control plans were designed to construct a 66-inch cross drain. 2013-2015, FDOT PM: Charlie Xie, (813) 975-6287

US 301 from CR 675 to Moccasin Wallow Road, Manatee County, FDOT District 1: Project Manager for reconstruction of 2.0 miles of roadway from two-lanes to five-lanes. The project included sidewalks and lighting. Also included was pond siting, right-of-way acquisition, and historical and environmental clearances. 2011-2015, FDOT PM: Kati Sherrard, (863) 519-2990

EXPERIENCE WITH KEY WEST, MONROE COUNTY AND FDOT D6:

The following is a list of our projects that demonstrate our experience.

FDOT D6 Traffic Monitoring Sites Design and Professional Services Consultant: As a prime consultant, FTE provided consulting services to design Traffic Monitoring Sites (TMS) in Miami-Dade and Monroe Counties, and provided planning and engineering statistics services.

FDOT D6 Intersection Studies: As a prime consultant, FTE provided services that included qualitative assessments, signal warrant analysis, intersection analysis, arterial analysis, left turn phase warrant analysis, and supplemental tasks. The task work orders included turning movement counts, volume and classification counts, intersection delay studies, intersection qualitative assessment, arterial qualitative assessment, left turn signal warrant study, fatal crash reviews, RRR safety reviews, signal warrant analysis, sight distance studies, and preparation of technical memorandums. *Some of the tasks included fatal crash reviews in Monroe County and RRR Safety review of Over Seas Highway.*

SR 5/ US 1 & Guava Avenue, Grassy Key, Monroe County: FTE was involved with intersection Improvements at US 1 and Guava Avenue on Grassy Key in Monroe County. The scope included addition of a North Bound Left Turn Lane onto Guava Ave.

Woody's Islamorada: FTE has collected traffic data collection on US 1 near Blackwood Drive.

FDOT D6 SR-953 / LeJeune Road from SE 11 Place to N of SR 934 / E 25 Street: The project included resurfacing of 0.9 miles of a seven-lane urban facility. FTE provided design services for signing and pavement markings and signalization improvements along LeJeune Road. Updated existing signs to MUTCD 2009 standards. Coordinated with roadway design and maintaining agencies for signalization and transit facilities along the corridor.

FDOT D6 Safety Studies: FTE performed a driver fatal crash analysis and provided recommendations for the intersection of SR 907 / Krome Avenue and SR / Okeechobee Road; Performed a pedestrian crash review and provided recommendations for the intersections of SR 9 / NW 27 Avenue at NW 41 Street, and SR 944 / NW 54 Street at NW 37 Avenue; Also performed a *fatal crash analysis, Synchro evaluation of geometric alternatives*, and provided recommendations for the intersection of Flagler Street at NW 74 Avenue.

FDOT D6 SR 90 / US 41 / Tamiami Trail / SW 8th Street from Krome Avenue to SW 122nd Avenue: FTE evaluated existing conditions and evaluated improvement needs based on future travel demand along the corridor. Developed concepts for the corridor in addition to bicycle and pedestrian needs. Coordinated with adjacent studies and presented updates to the Project Advisory Team.

ABILITY, LOCATION, AND AVAILABILITY:

We understand that the tasks from this contract are initiated by events that are sensitive in nature. Time is of essence in completing the assignments within a short period of time. FTE has carefully selected the project team to provide professionals with extensive experience in their respective field to offer services on an expedited schedule and will complete the assignments in an expedited manner.

PROJECT CONTROL AND MANAGEMENT

FTE staff consists of highly experienced personnel who have a proven track record of superior service. FTE's primary goal of this contract will be to coordinate with its professional team members in the support of the City. FTE has a successful history in meeting schedule and budget since we began. Our success and diversity of services demonstrate we have completed our projects on time and within budget. Our contracts with public sector clients have defined services, fees, and contractual time for completion. FTE relies on communication and effective leadership to reach our goal of bringing a project in on time and within budget. We are committed to following this philosophy to ensure the success of this contract.

SCHEDULE

The first step we must take is to meet with the client to collaborate on a project schedule. Once everyone conveys all the peripheral elements of the project, we can begin to plan and implement a realistic and workable schedule. Effective project schedules are created by determining every task required for the project, what resources are necessary to complete the task, and how to execute each task. The task list is then prioritized with the interdependencies between the tasks identified and documented within the proposed project schedule. Every employee working on a project takes personal responsibility in completing their portion of the task accurately and on time. We believe in documented accountability rather than the assumed accountability. We are very serious about our reputation as a firm in providing quality services. We will assure that appropriate resources are allocated to the contract. Resource allocation is key in ensuring that the project schedule stays on its course.

BUDGET

Our public-sector contracts have been either lump sum or not to exceed fees. We are motivated to provide the contracted services within budget. Our quality control process has enabled FTE to remain competitive. During the economic uncertainty and corporate layoffs,

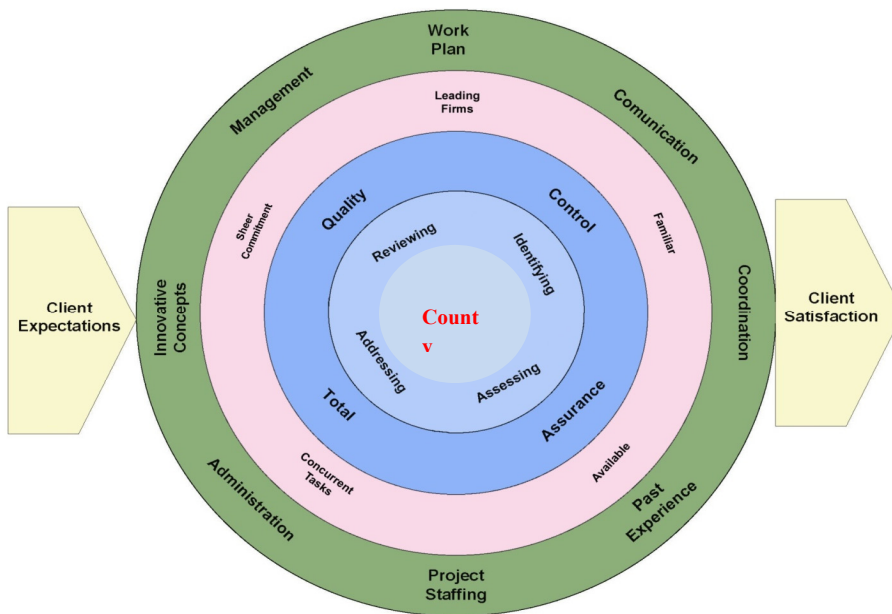
QUALITY CONTROL

FTE has adopted a Quality Control Plan that utilizes the principals in the Shewhart Cycle which was developed by Walter Shewhart, an American physicist, engineer, and statistician. FTE expanded on this model and created a plan that allows one to develop Quality Control practices on a company wide scale and for specialized projects. This Plan consists of four phases: Plan, Do, Check and Act. FTE uses a Quality Control stamp to track and document the review process, similar to that used by FDOT In-House Design staff. This is to be used on all project work, including studies, plans, reports, design documents, surveys, estimates, and calculations. It is very important to have the most qualified people in the

QUALITY CONTROL TRACKING STAMP	
_____ Submittal Quality Control Review	
ORIGINATOR / LEAD PROFESSIONAL (Ready for Checking)	Date
CHECKED (QC REVIEW) (Correct – Yellow Highlighter, Change – Red)	Date
CONCURRENCE, ORIGINATOR (Blue Pen - Check to agree or comment)	Date
CHANGE INCORPORATION (Blue highlighter)	Date
VERIFICATION (Green Pen Check or Green pen remark)	Date

checking process. They must know their role and schedule the time for their participation. An important step in the overall QA/QC process is documentation. We document the materials reviewed for each submittal, and retain all check prints, design memoranda, reports, and calculations. The FTE Team will make our QC documents available to the client with each submittal, recognizing that the client may not require submittal of the QA/QC plans. This step assures that we are following the plan prepared at the onset of the project.

FTE staff is committed to consistently providing quality work products. This commitment is embodied in our corporate Quality Assurance (QA) policy, implemented through our Project Management and Quality Guidelines, and enforced



through our Standard Procedures, Work Instructions, and Audit Procedures (as contained in our Quality Management system). FTE has constructed a Quality Control Plan that utilizes the principals in the Shewhart Cycle, which was developed by Walter Shewhart. FTE expanded on this model and created a plan that allows one to develop Quality Control practices on a company wide scale and for specialized projects. This Plan consists of four phases: Plan, Do, Check and Act.

PLAN Phase: Before each project begins, FTE holds a kick-off meeting

where stakeholders sign off on the following: Contract Specifications, Project Deliverables, Project Schedule, Specific QA/QC Components, and Task Manager Assignment.

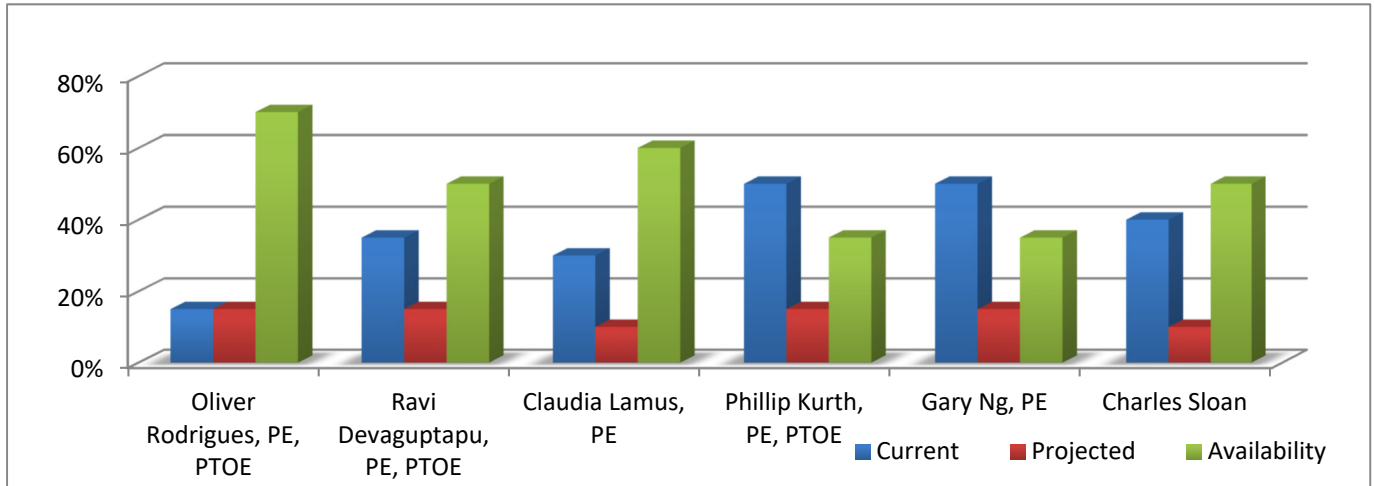
DO Phase: Construct tangible components of the QA/QC Program. These include: Written Quality Control Policies, Documentation (QA/QC Report), QA/QC Flowchart, QA/QC Time-line. During project, employees will adhere to the contract specifications and QA/QC guidelines: Meet Project Schedule, Follow MPO and FDOT Guidelines, Perform Self-QC, and Uphold Professional Standards. This ensures that FTE's deliverables will meet and exceed expectations.

Check Phase: Document the QA/QC for Ongoing and Final product, Sign and Seal, and Distribute documentation.

ACT Phase: Annual review of QA/QC Processes include: User-Friendliness, Cost Benefit, Value Added, Service Enhancement, Increased Performance Levels, Project Grades, Project Suitability, and Accountability.

AVAILABILITY

FTE saw an opportunity to retain high quality professionals and have expanded our capabilities. The following charts identify our staff's workload and availability.



LOCATION

Our proposed Project Manager, Project Engineer, and Engineering Technician are located in Miami.

EXAMPLE PROJECTS AND REFERENCES: The following is a list of traffic engineering projects with references:

PROJECT NAME: CITY OF MIAMI BEACH PLANNING AND TRAFFIC ENGINEERING SERVICES

Project Description: Provided Miscellaneous Planning and Traffic Engineering Services.

Task Description: Provided services for this traffic circulation study for the conversion of 42nd Street from one-way traffic to two-way traffic between Prairie Avenue to Pine Tree Drive. Conceptual design alternatives were prepared with bike lanes, pedestrian crosswalks, on-street parking, and signing & markings. Met with neighborhood stakeholders.



Staff Assigned: Oliver Rodrigues, P.E., PTOE; Claudia Lamus, P.E.; Ravi Devaguptapu, P.E., PTOE

Service Fees: \$53,977

Task Description: Provided traffic peer review services on an as needed basis. Conducts peer reviews of traffic impact studies for various land uses and development applications. Represents the City in coordinating with the applicants' project team, provides review comments and input to the City in resolving transportation issues, and attends Planning Board meetings.

Staff Assigned: Oliver Rodrigues, P.E., PTOE; Claudia Lamus, P.E.; Ravi Devaguptapu, P.E., PTOE; Charles Sloan

Service Fees: \$207,900

Project Contact Name & Title: Josiel Ferrer-Diaz, EI, Transportation Manager

Contact's Telephone: 305-673-7514 **Contact's Email:** JOSIELFERRER@miamibeachfl.gov

PROJECT NAME: SUNSET ISLAND IV TRAFFIC CIRCULATION STUDY, CITY OF MIAMI BEACH

Project Description: Provided services for this traffic circulation study to evaluate the feasibility and operation of one-way traffic circulation on Sunset Island IV. Prepared a one-way traffic circulation feasibility study on Sunset Island IV evaluating a stop control vs. a roundabout intersection.

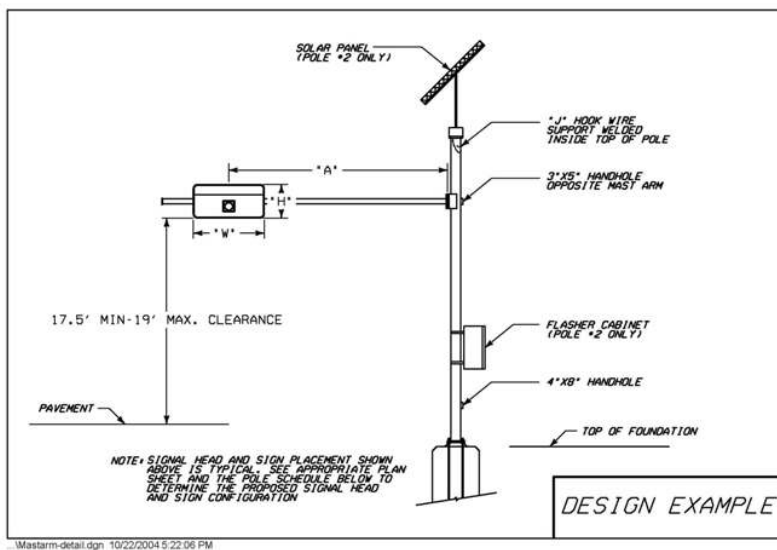


Staff Assigned: Oliver Rodrigues, P.E., PTOE; Claudia Lamus, P.E.; Ravi Devaguptapu, P.E., PTOE; Charles Sloan
Service Fees: \$23,296

Project Contact Name & Title: Mina Samadi, PE, LEED®AP, Senior Capital Project Coordinator
Contact's Telephone: 305-673-7071
Contact's Email: MinaSamadi@miamibeachfl.gov

PROJECT NAME: MIAMI-DADE MISCELLANEOUS TRAFFIC ENGINEERING SERVICES

Project Description: Throughout Miami-Dade County, FTE has been involved with numerous design projects, working with the County and with the Florida Department of Transportation in the district. FTE Provided miscellaneous traffic engineering services including 469 traffic counts, signal design at 17 locations, safety studies, design of traffic circles, traffic studies, signal warrant analysis, and area planning. Some of the major projects include the signal design at the Opa-Locka Airport, AND the flashing-signal design for the South Miami-Dade Senior High School. The work involved traffic engineering services, safety studies, data collection, design, roadway geometrics, signing pavement marking design, drainage, MOT, landscaping, signalization, signal warrant analysis, bid document preparation and construction administration. A total of 20 intersections were involved as part of this contract to date.



Staff Assigned: Oliver Rodrigues, P.E., PTOE; Claudia Lamus, P.E.; Ravi Devaguptapu, P.E., PTOE; Charles Sloan
Service Fees: \$548,611

Project Contact Name & Title: David W. Hays, P.E.
Contact's Telephone: 305-375-1019
Contact's Email: hays@miamidade.gov

PROJECT NAME: SFRTA TRI-RAIL TRANSIT DEVELOPMENT PLAN - ON BOARD RIDERSHIP SURVEY

Project Description: Gather information related to current ridership patterns and identify areas for improvements to support SFRTA's FY 2014-2023 Transit Development Plan (TDP), Major Update. Conducted an on-board travel survey of SFRTA Tri-Rail riders for the purpose of capturing travel patterns, socio-economic characteristics, and customer opinions and preferences.



Staff Assigned: Oliver Rodrigues, P.E., PTOE; Claudia Lamus, P.E.; Ravi Devaguptapu, P.E., PTOE; Charles Sloan
Service Fees: \$77,175

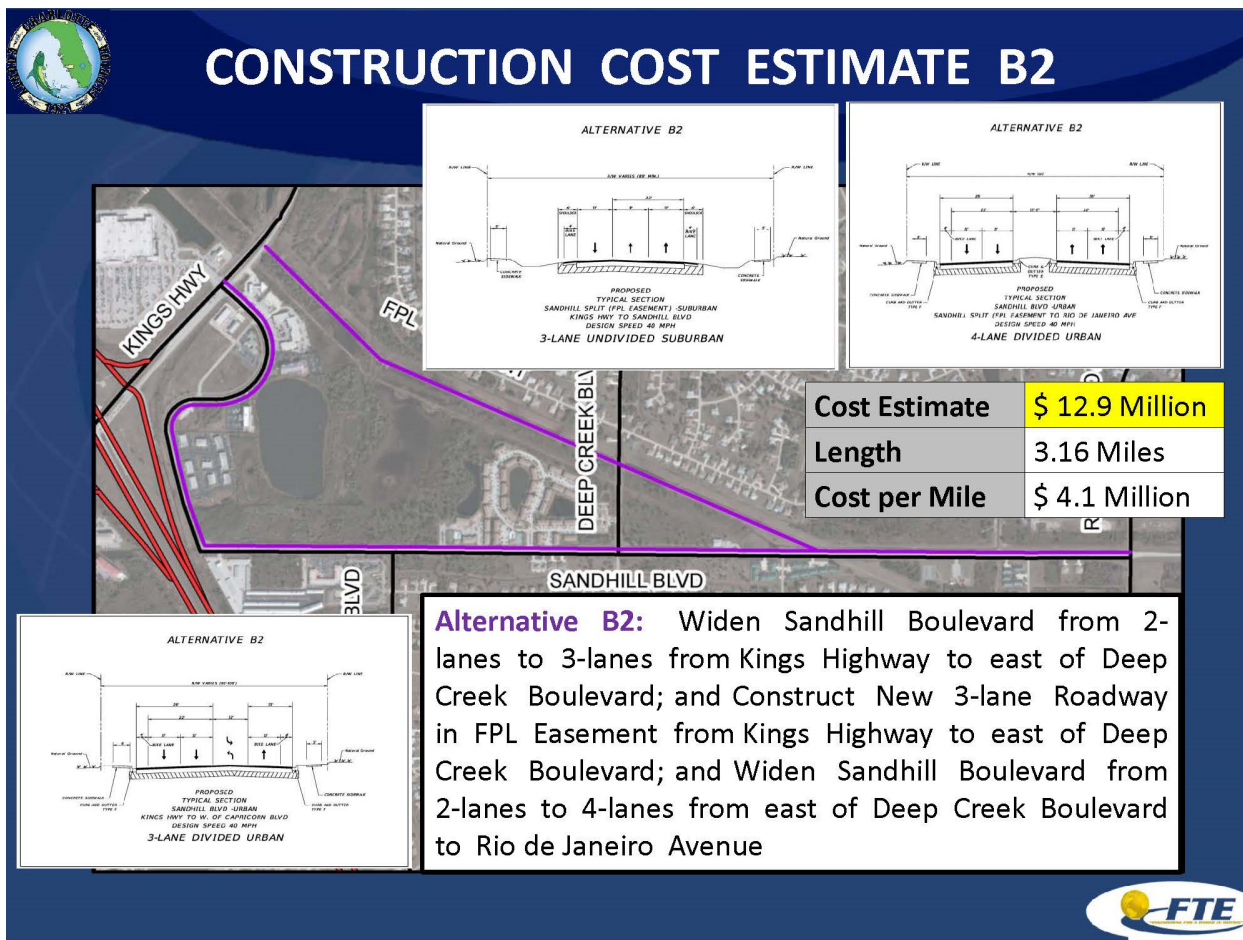
Contact Individual Name & Title: Odalys Delgado, AICP, Florida Practice Lead (Parsons)

Contact's Telephone: 305-507-5583

Contact's Email: Odalys.Delgado@parsons.com

PROJECT NAME: CONGESTION MITIGATION STUDY AT KINGS HIGHWAY AND SANDHILL BOULEVARD, CHARLOTTE COUNTY

Project Description: Evaluate various alternatives for congestion mitigation at the intersection of Kings Highway at Sandhill Boulevard and the surrounding area. Prepared a traffic study to evaluate various alternatives for congestion mitigation at the intersection of Kings Highway at Sandhill Boulevard and the surrounding area.



Staff Assigned: Oliver Rodrigues, P.E., PTOE; Claudia Lamus, P.E.; Ravi Devaguptapu, P.E., PTOE; Charles Sloan; Phillip Kurth, P.E., PTOE; Gary Ng, P.E.

Service Fees: \$92,200

Contact Individual Name & Title: Venkat Vattikuti, PE, PTOE, County Transportation Engineer

Contact's Telephone: 941-575-3676

Contact's Email: Venkat.Vattikuti@charlottecountyfl.gov

PART 2

FORMS AND AFFIDAVITS

ANTI-KICKBACK AFFIDAVIT

STATE OF FLORIDA)
 : SS
COUNTY OF MONROE)

I, the undersigned hereby duly sworn, depose and say that no portion of the sum herein bid will be paid to any employees of the City of Key West as a commission, kickback, reward or gift, directly or indirectly by me or any member of my firm or by an officer of the corporation.

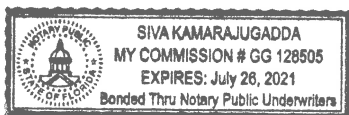
By: 

Sworn and subscribed before me this

23rd day of February, 2018.


NOTARY PUBLIC, State of Florida at Large

My Commission Expires: July 26, 2021




[illegible]

By: trial



NOTARY PUBLIC, State of Florida at Large



SIVA KAMARAJUGADDA
MY COMMISSION # GG 128505
EXPIRES: July 26, 2021
Bonded Thru Notary Public Underwriters

**SWORN STATEMENT UNDER SECTION 287.133(3)(a)
FLORIDA STATUTES ON PUBLIC ENTITY CRIMES**

**THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICE
AUTHORIZED TO ADMINISTER OATHS.**

1. This sworn statement is submitted with Bid, Bid or Contract No. 18-001 for
General Traffic Engineering Services
2. This sworn statement is submitted by Florida Transportation Engineering, Inc
(Name of entity submitting sworn statement)

whose business address is 8250 Pascal Dr, Punta Gorda, FL 33950

and (if applicable) its Federal
Employer Identification Number (FEIN) is 650183924 (If the entity has no FEIN,
include the Social Security Number of the individual signing this sworn statement.)
3. My name is Ravi Devaguptapu and my relationship to
(Please print name of individual signing)

the entity named above is Owner.
4. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including but not limited to, any Bid or contract for goods or services 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, material misrepresentation.
5. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, 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 information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.
6. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, means
 1. A predecessor or successor of a person convicted of a public entity crime: or
 2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting 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 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 36 months shall be considered an affiliate.
7. I understand that a "person" as defined in Paragraph 287.133(1)(8), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which Bids or applies to Bid on contracts for the provision 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.

8. Based on information and belief, the statement, which I have marked below, is true in relation to the entity submitting this sworn statement. (Please indicate which statement applies.)

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

☐ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989, AND (Please indicate which additional statement applies.)

☐ There has been a proceeding concerning the conviction before a hearing of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer did not place the person or affiliate on the convicted vendor list. (Please attach a copy of the final order.)

☐ The person or affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate from the convicted vendor list. (Please attach a copy of the final order.)

☐ The person or affiliate has not been put on the convicted vendor list. (Please describe any action taken by or pending with the Department of General Services.)

[Signature]

(Signature)

02-23-2018

(Date)

STATE OF Florida

COUNTY OF Charlotte

PERSONALLY APPEARED BEFORE ME, the undersigned authority,

Ravi Devaguptapu

(Name of individual signing)

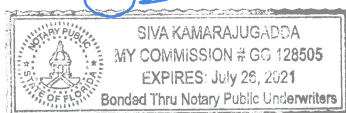
who, after first being sworn by me, affixed his/her signature in the

space provided above on this 23rd day of February, 2018.

My commission expires:
NOTARY PUBLIC

[Signature]

July 26, 2021



INDEMNIFICATION

To the fullest extent permitted by law, the CONSULTANT expressly agrees to indemnify and hold harmless the City of Key West, their officers, directors, agents, and employees (herein called the "indemnitees") from liabilities, damages, losses and costs, including, but not limited to, reasonable attorney's fees and court costs, such legal expenses to include costs incurred in establishing the indemnification and other rights agreed to in this Paragraph, to persons or property, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the CONSULTANT, its Sub-consultants or persons employed or utilized by them in the performance of the Contract. Claims by indemnitees for indemnification shall be limited to the amount of CONSULTANT's insurance or \$1 million per occurrence, whichever is greater. The parties acknowledge that the amount of the indemnity required hereunder bears a reasonable commercial relationship to the Contract and it is part of the project specifications or the bid documents, if any.

The indemnification obligations under the Contract shall not be restricted in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the CONSULTANT under workers' compensation acts, disability benefits acts, or other employee benefits acts, and shall extend to and include any actions brought by or in the name of any employee of the CONSULTANT or of any third party to whom CONSULTANT may subcontract a part or all the Work. This indemnification shall continue beyond the date of completion of the work.

CONTRACTOR: Florida Transportation Engineering, Inc

SEAL:

8250 Pascal Dr, Punta Gorda, FL 33950

Address



Signature

Ravi Devaguptapu

Print Name

President

Title

02-23-2018

Date

EQUAL BENEFITS FOR DOMESTIC PARTNERS AFFIDAVIT

STATE OF Florida)
 : SS
COUNTY OF Charlotte)

I, the undersigned hereby duly sworn, depose and say that the firm of
FTE provides benefits to domestic partners of its employees on the same
basis as it provides benefits to employees' spouses per City of Key West Ordinance Sec. 2-799.

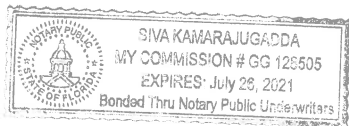
By: 

Sworn and subscribed before me this

23rd day of February, 2018.


NOTARY PUBLIC, State of Florida at Large

My Commission Expires: July 26, 2021



City Ordinance Sec. 2-799
Requirements for City Contractors to Provide Equal Benefits for Domestic Partners

(a) Definitions. For purposes of this section only, the following definitions shall apply:

- (1) **Benefits** means the following plan, program or policy provided or offered by a contractor to its employees as part of the employer's total compensation package: sick leave, bereavement leave, family medical leave, and health benefits.
- (2) **Bid** shall mean a competitive bid procedure established by the city through the issuance of an invitation to bid, request for proposals, request for qualifications, or request for letters of interest.
- (3) **Cash equivalent** means the amount of money paid to an employee with a domestic partner in lieu of providing benefits to the employee's domestic partner. The cash equivalent is equal to the employer's direct expense of providing benefits to an employee for his or her spouse.

The cash equivalents of the following benefits apply:

- a. For bereavement leave, cash payment for the number of days that would be allowed as paid time off for the death of a spouse. Cash payment would be in the form of the wages of the domestic partner employee for the number of days allowed.
 - b. For health benefits, the cost to the contractor of the contractor's share of the single monthly premiums that are being paid for the domestic partner employee, to be paid on a regular basis while the domestic partner employee maintains such insurance in force for himself or herself.
 - c. For family medical leave, cash payment for the number of days that would be allowed as time off for an employee to care for a spouse who has a serious health condition. Cash payment would be in the form of the wages of the domestic partner employee for the number of days allowed.
- (4) **Contract** means any written agreement, purchase order, standing order or similar instrument entered into pursuant to the award of a bid whereby the city is committed to expend or does expend funds in return for work, labor, professional services, consulting services, supplies, equipment, materials, construction, construction related services or any combination of the foregoing.
 - (5) **Contractor** means any person or persons, sole proprietorship, partnership, joint venture, corporation, or other form of doing business, that is awarded a bid and enters into a covered contract with the city, and which maintains five (5) or more full-time employees.
 - (6) **Covered contract** means a contract between the city and a contractor awarded subsequent to the date when this section becomes effective valued at over twenty thousand dollars (\$20,000).
 - (7) **Domestic partner** shall mean any two adults of the same or different sex, who have registered as domestic partners with a governmental body pursuant to state or local law authorizing such registration, or with an internal registry maintained by the employer of at least one of the domestic partners. A contractor may institute an internal registry to allow for the provision of equal benefits to employees with domestic partner who do not register their partnerships pursuant to a governmental body authorizing such registration, or who are located in a jurisdiction where no such governmental domestic partnership

registry exists. A contractor that institutes such registry shall not impose criteria for registration that are more stringent than those required for domestic partnership registration by the City of Key West pursuant to Chapter 38, Article V of the Key West Code of Ordinances.

- (8) ***Equal benefits*** mean the equality of benefits between employees with spouses and employees with domestic partners, and/or between spouses of employees and domestic partners of employees.

(b) Equal benefits requirements.

- (1) Except where otherwise exempt or prohibited by law, a Contractor awarded a covered contract pursuant to a bid process shall provide benefits to domestic partners of its employees on the same basis as it provides benefits to employees' spouses.
- (2) All bid requests for covered contracts which are issued on or after the effective date of this section shall include the requirement to provide equal benefits in the procurement specifications in accordance with this section.
- (3) The city shall not enter into any covered contract unless the contractor certifies that such contractor does not discriminate in the provision of benefits between employees with domestic partners and employees with spouses and/or between the domestic partners and spouses of such employees.
- (4) Such certification shall be in writing and shall be signed by an authorized officer of the contractor and delivered, along with a description of the contractor's employee benefits plan, to the city's procurement director prior to entering into such covered contract.
- (5) The city manager or his/her designee shall reject a contractor's certification of compliance if he/she determines that such contractor discriminates in the provision of benefits or if the city manager or designee determines that the certification was created, or is being used for evading the requirements of this section.
- (6) The contractor shall provide the city manager or his/her designee, access to its records for the purpose of audits and/or investigations to ascertain compliance with the provisions of this section, and upon request shall provide evidence that the contractor is in compliance with the provisions of this section upon each new bid, contract renewal, or when the city manager has received a complaint or has reason to believe the contractor may not be in compliance with the provisions of this section. This shall include but not be limited to providing the city manager or his/her designee with certified copies of all of the contractor's records pertaining to its benefits policies and its employment policies and practices.
- (7) The contractor may not set up or use its contracting entity for the purpose of evading the requirements imposed by this section.

(c) Mandatory contract provisions pertaining to equal benefits. Unless otherwise exempt, every covered contract shall contain language that obligates the contractor to comply with the applicable provisions of this section. The language shall include provisions for the following:

- (1) During the performance of the covered contract, the contractor certifies and represents that it will comply with this section.
- (2) The failure of the contractor to comply with this section will be deemed to be a material breach of the covered contract.
- (3) If the contractor fails to comply with this section, the city may terminate the

covered contract and all monies due or to become due under the covered contract may be retained by the city. The city may also pursue any and all other remedies at law or in equity for any breach.

- (4) If the city manager or his designee determines that a contractor has set up or used its contracting entity for the purpose of evading the requirements of this section, the city may terminate the covered contract.

(d) Enforcement. If the contractor fails to comply with the provisions of this section:

- (1) The failure to comply may be deemed to be a material breach of the covered contract; or
- (2) The city may terminate the covered contract; or
- (3) Monies due or to become due under the covered contract may be retained by the city until compliance is achieved; or
- (4) The city may also pursue any and all other remedies at law or in equity for any breach;
- (5) Failure to comply with this section may also subject contractor to the procedures set forth in Division 5 of this article, entitled "Debarment of contractors from city work."

(e) Exceptions and waivers.

The provisions of this section shall not apply where:

- (1) The contractor does not provide benefits to employees' spouses.
- (2) The contractor is a religious organization, association, society or any non-profit charitable or educational institution or organization operated, supervised or controlled by or in conjunction with a religious organization, association or society.
- (3) The contractor is a governmental entity.
- (4) The sale or lease of city property.
- (5) The provision of this section would violate grant requirement, the laws, rules or regulations of federal or state law (for example, the acquisition services procured pursuant to Chapter 287.055, Florida Statutes known as the "Consultants' Competitive Negotiation Act").
- (6) Provided that the contractor does not discriminate in the provision of benefits, a contractor may also comply with this section by providing an employee with the cash equivalent of such benefits, if the city manager or his/her designee determines that either:
 - a. The contractor has made a reasonable yet unsuccessful effort to provide equal benefits. The contractor shall provide the city manager or his/her designee with sufficient proof of such inability to provide such benefit or benefits which shall include the measures taken to provide such benefits or benefits and the cash equivalent proposed, along with its certificate of compliance, as is required under this section.
- (7) The city commission waives compliance of this section in the best interest of the city, including but not limited to the following circumstances:
 - a. The covered contract is necessary to respond to an emergency. b.


Where only one bid response is received.

- c. Where more than one bid response is received, but the bids demonstrate that none of the bidders can comply with the requirements of this section.
- (f) City's authority to cancel contract. Nothing in this section shall be construed to limit the city's authority to cancel or terminate a contract, deny or withdraw approval to perform a subcontract or provide supplies, issue a non-responsibility finding, issue a non-responsiveness finding, deny a person or entity prequalification, or otherwise deny a person or entity city business.
- (g) Timing of application. This section shall be applicable only to covered contracts awarded pursuant to bids which are after the date when this section becomes effective.

CONE OF SILENCE AFFIDAVIT

STATE OF Florida)
: SS
COUNTY OF Charlotte)

I the undersigned hereby duly sworn depose and say that all owner(s), partners, officers, directors, employees and agents representing the firm of FTE have read and understand the limitations and procedures regarding communications concerning City of Key West issued competitive solicitations pursuant to City of Key West Ordinance Section 2-773 Cone of Silence (attached).

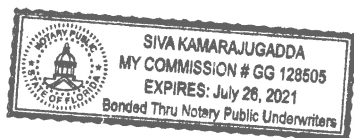

(signature)
02-23-2018
(date)

Sworn and subscribed before me this

23rd Day of February, 2018.


NOTARY PUBLIC, State of Florida at Large

My Commission Expires: July 26, 2021



City Ordinance Sec. 2-773. - Cone of silence.

- (a) *Definitions.* For purposes of this section, reference to one gender shall include the other, use of the plural shall include the singular, and use of the singular shall include the plural. The following definitions apply unless the context in which the word or phrase is used requires a different definition:
- (1) *Competitive solicitation* means a formal process by the City of Key West relating to the acquisition of goods or services, which process is intended to provide an equal and open opportunity to qualified persons and entities to be selected to provide the goods or services. Competitive solicitation shall include request for proposals ("RFP"), request for qualifications ("RFQ"), request for letters of interest ("RFLI"), invitation to bid ("ITB") or any other advertised solicitation.
 - (2) *Cone of silence* means a period of time during which there is a prohibition on communication regarding a particular competitive solicitation.
 - (3) *Evaluation or selection committee* means a group of persons appointed or designated by the city to evaluate, rank, select, or make a recommendation regarding a vendor or the vendor's response to the competitive solicitation. A member of such a committee shall be deemed a city official for the purposes of subsection (c) below.
 - (4) *Vendor* means a person or entity that has entered into or that desires to enter into a contract with the City of Key West or that seeks an award from the city to provide goods, perform a service, render an opinion or advice, or make a recommendation related to a competitive solicitation for compensation or other consideration.
 - (5) *Vendor's representative* means an owner, individual, employee, partner, officer, or member of the board of directors of a vendor, or a consultant, lobbyist, or actual or potential subcontractor or sub-consultant who acts at the behest of a vendor in communicating regarding a competitive solicitation.
- (b) *Prohibited communications.* A cone of silence shall be in effect during the course of a competitive solicitation and prohibit:
- (1) Any communication regarding a particular competitive solicitation between a potential vendor or vendor's representative and the city's administrative staff including, but not limited to, the city manager and his or her staff;
 - (2) Any communication regarding a particular competitive solicitation between a potential vendor or vendor's representative and the mayor, city commissioners, or their respective staff;
 - (3) Any communication regarding a particular competitive solicitation between a potential vendor or vendor's representative and any member of a city evaluation and/or selection committee therefore; and
 - (4) Any communication regarding a particular competitive solicitation between the mayor, city commissioners, or their respective staff, and a member of a city evaluation and/or selection committee therefore.
- (c) *Permitted communications.* Notwithstanding the foregoing, nothing contained herein shall prohibit:
- (1) Communication between members of the public who are not vendors or a vendor's representative and any city employee, official or member of the city commission;
 - (2) Communications in writing at any time with any city employee, official or member of the city commission, unless specifically prohibited by the applicable competitive solicitation.
 - (A) However, any written communication must be filed with the city clerk. Any city employee, official or member of the city commission receiving or making any written communication must immediately file it with the city clerk.

- (B) The city clerk shall include all written communication as part of the agenda item when publishing information related to a particular competitive solicitation;
- (3) Oral communications at duly noticed pre-bid conferences;
 - (4) Oral presentations before publically noticed evaluation and/or selection committees;
 - (5) Contract discussions during any duly noticed public meeting;
 - (6) Public presentations made to the city commission or advisory body thereof during any duly noticed public meeting;
 - (7) Contract negotiations with city staff following the award of a competitive solicitation by the city commission; or
 - (8) Purchases exempt from the competitive process pursuant to section 2-797 of these Code of Ordinances;
- (d) *Procedure.*
- (1) The cone of silence shall be imposed upon each competitive solicitation at the time of public notice of such solicitation as provided by section 2-826 of this Code. Public notice of the cone of silence shall be included in the notice of the competitive solicitation. The city manager shall issue a written notice of the release of each competitive solicitation to the affected departments, with a copy thereof to each commission member, and shall include in any public solicitation for goods and services a statement disclosing the requirements of this ordinance.
 - (2) The cone of silence shall terminate at the time the city commission or other authorized body makes final award or gives final approval of a contract, rejects all bids or responses to the competitive solicitation, or takes other action which ends the competitive solicitation.
 - (3) Any city employee, official or member of the city commission that is approached concerning a competitive solicitation while the cone of silence is in effect shall notify such individual of the prohibitions contained in this section. While the cone of silence is in effect, any city employee, official or member of the city commission who is the recipient of any oral communication by a potential vendor or vendor's representative in violation of this section shall create a written record of the event. The record shall indicate the date of such communication, the persons with whom such communication occurred, and a general summation of the communication.
- (e) *Violations/penalties and procedures.*
- (1) A sworn complaint alleging a violation of this ordinance may be filed with the city attorney's office. In each such instance, an initial investigation shall be performed to determine the existence of a violation. If a violation is found to exist, the penalties and process shall be as provided in section 1-15 of this Code.
 - (2) In addition to the penalties described herein and otherwise provided by law, a violation of this ordinance shall render the competitive solicitation void at the discretion of the city commission.
 - (3) Any person who violates a provision of this section shall be prohibited from serving on a City of Key West advisory board, evaluation and/or selection committee.
 - (4) In addition to any other penalty provided by law, violation of any provision of this ordinance by a City of Key West employee shall subject said employee to disciplinary action up to and including dismissal.
 - (5) If a vendor is determined to have violated the provisions of this section on two more occasions it shall constitute evidence under City Code section 2-834 that the vendor is not properly qualified to carry out the obligations or to complete the work contemplated by any new competitive solicitation. The city's purchasing agent shall also commence any available debarment from city work proceeding that may be available upon a finding of two or more violations by a vendor of this section.

(Ord. No. 13-11, § 1, 6-18-2013)

PART 3

LICENSES



Florida Board of Professional Engineers
2639 North Monroe Street, Suite B-112
Tallahassee, FL 32303-5268

Florida Transportation Engineering, Inc.
8250 PASCAL DRIVE
PUNTA GORDA, FL 33950

Each licensee is solely responsible for notifying the Florida Board of Professional Engineers in writing the licensee's current address.

Name changes require legal documentation showing name change. An original, a certified copy, or a duplicate of an original or certified copy of a document which shows the legal name change will be accepted unless there is a question about the authenticity of the document raised on its face, or because the genuineness of the document is uncertain, or because of another matter related to the application.

At least 90 days prior to the expiration date shown on this license, a notice of renewal will be sent to your last known address. If you have not yet received your notice 60 days prior to the expiration date, please call (850) 521-0500, or write, Florida Board of Professional Engineers, 2639 North Monroe Street, Suite B-112, Tallahassee, FL 32303-5268 or e-mail: board@fbpe.org. Our website address is <http://www.fbpe.org>.

State of Florida

Board of Professional Engineers

Attests that

Florida Transportation Engineering, Inc



FBPE
FLORIDA BOARD OF
PROFESSIONAL ENGINEERS

Is authorized under the provisions of Section 471.023, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.

Expiration: 2/28/2019
Audit No: 228201902206 R

CA Lic. No:
7924



Disadvantaged Business Enterprise Certificate of Eligibility

Granted to

FLORIDA TRANSPORTATION ENGINEERING INC

*It has been determined that the firm listed above has met the federal requirements in accordance with
the Code of Federal Regulations (49 CFR Part 26) and is thereby eligible to participate
in the Disadvantaged Business Enterprise Program in the State of Florida.*

NAICS CODES:

541330 541340

541690 541820

541990

Issue Date: February 4, 2014

A handwritten signature in black ink, reading "Victoria V. Smith", is written over a horizontal line.

VICTORIA V. SMITH

Disadvantaged Business Enterprise Certification Manager

State of Florida

Minority Business Certification

Florida Transportation Engineering Inc

Is certified under the provisions of
287 and 295.187, Florida Statutes, for a period from:

06/19/2017 to 06/19/2019



Erin Rock, Secretary
Florida Department of Management Services



FLORIDA DEPARTMENT OF MANAGEMENT SERVICES
office of supplier
DIVERSITY
We serve those who serve Florida

Transportation Professional Certification Board Inc.

certifies that

Oliver R. Rodrigues

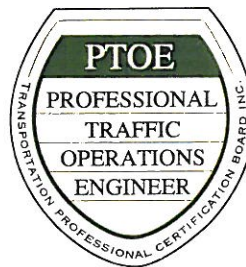
*has met all of the requirements established by the Certification Board
to use the title of*

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

*unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 1765 issued in Washington, D.C., U.S.A.*

September 9, 2009

Steven D. Hofener
Chair



Thomas W. [Signature]
Executive Director

Data Contained In Search Results Is Current As Of 03/06/2017 12:31 PM.

Search Results

Please see our [glossary of terms](#) for an explanation of the license status shown in these search results.

For additional information, including any complaints or discipline, click on the name.

License Type	Name	Name Type	License Number/ Rank	Status/Expires
Professional Engineer	RODRIGUES, OLIVER R	Primary	50646 Prof Engineer	Current, Active 02/28/2019

Main Address*: 8750 NW 36TH STREET MIAMI, FL 33178

[Back](#)[New Search](#)

Transportation Professional Certification Board Inc.

certifies that

Ravikumar V. Devaguptapu

*has met all of the requirements established by the Certification Board
to use the title of*

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

*Unless withdrawn by the Certification Board, this certificate number 1112
issued in Washington, D.C. is subject to the provisions for renewal
April 7, 2009*

Steven D. Hofener
Chair



[Signature]
Executive Director



State of Florida
Board of Professional Engineers
2639 North Monroe Street, Suite B-112
Tallahassee, FL 32303-5268

Ravikumar V. Devaguptapu
8250 PASCAL DRIVE
PUNTA GORDA, FL 33950

NOTICE

FBPE no longer requires that continuing education be reported by the provider. Instead licensees will be subject to a random audit no more than every four (4) years. If you are selected for the random audit, you must provide verification of one (1) hour of Florida laws and rules, one (1) hour of professional ethics, four (4) hours of area of practice and twelve (12) hours in any topic pertaining to the practice of engineering, all taken prior to February 28, 2017. (See s. 471.017, Fl. Stat.) Any CE hours taken after February 28, 2017 will result in a \$100 delinquent fee and your license being placed in a delinquent status until the additional fee is paid.

State of Florida

Board of Professional Engineers

Attests that

Ravikumar V. Devaguptapu, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes
Expiration: 2/28/2019
Audit No: 228201916622



State of Florida

Board of Professional Engineers

Attests that

Ravikumar V. Devaguptapu, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2019

Audit No: 228201916622 R



FBPE
FLORIDA BOARD OF
PROFESSIONAL ENGINEERS

P.E. Lic. No:

53150

State of Florida

Board of Professional Engineers

Attests that

Claudia M. Lamus, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes
Expiration: 2/28/2019
Audit No: 228201921118



NOTICE

FBPE no longer requires that continuing education be reported by the provider. Instead licensees will be subject to a random audit no more than every four (4) years. If you are selected for the random audit, you must provide verification of one (1) hour of Florida laws and rules, one (1) hour of professional ethics, four (4) hours of area of practice and twelve (12) hours in any topic pertaining to the practice of engineering, all taken prior to February 28, 2017. (See s. 471.017, Fl. Stat.) Any CE hours taken after February 28, 2017 will result in a \$100 delinquent fee and your license being placed in a delinquent status until the additional fee is paid.

State of Florida

Board of Professional Engineers

Attests that

Claudia M. Lamus, P.E.



FBPE
FLORIDA BOARD OF PROFESSIONAL ENGINEERS

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2019

Audit No: 228201921118 R

P.E. Lic. No:

72303

Transportation Professional Certification Board Inc.

certifies that

Phillip L. Kurth

*has met all of the requirements established by the Certification Board
to use the title of*

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

unless withdrawn by the Certification Board and subject to the provisions for renewal.

Certificate number 3209 issued in Washington, D.C., U.S.A.

May 2, 2012

Steven D. Hofener
Chair



Thomas W. Fisher
Executive Director

State of Florida

Board of Professional Engineers

Attests that

Phillip Kurth, P.E.



Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2019

Audit No: 228201914868 R

P.E. Lic. No:

72434

State of Florida

Board of Professional Engineers

Attests that

Gary Ng, P.E.



FBPE
FLORIDA BOARD OF
PROFESSIONAL ENGINEERS

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2019

Audit No: 228201902017 R

P.E. Lic. No:

58717

“ENGINEERING FOR A WORLD IN MOTION”



WWW.FTEINC.NET