



### **Education**

Bachelor of Science in Civil Engineering – University of Florida (December 2012)

### **Registration**

PE – Florida 85395

### **Certifications**

Trafficware Synchro Studio I  
Trafficware Synchro Studio II  
IMS A Traffic Signal Inspector I  
IMS A Fiber Optics Technician I  
FDOT Advanced MOT  
IMS A Traffic Signal I  
IMS A Traffic Signal Design II

### **Alex M. Moye, P.E. – Design Engineer**

Alex M. Moye has over 12 years of experience in Transportation Engineering, analysis and design of traffic signal concrete strain poles, traffic signal mast arms and high mast lighting structures. He has performed structural computation for signal strain poles and Mast Arms and performed traffic flow analysis using the Synchro Studio program. Following are recent projects:

#### **SR 113 (Southside Connector) from north of SR 115 to I-295**

Mr. Moye served as the EOR for the Traffic Signal and ITS components of the RRR project. The project included the rebuild design of one signalized intersection, analyzing five (5) existing signalized intersections for modification, Pedestrian Lighting and Fiber Optic Interconnect. The work included preparation of plans and specifications with development of new Technical Special Provisions for controller cabinet equipment unique to the County.

#### **Consultant for City of Jacksonville, Traffic Engineering**

Mr. Moye was tasked with addressing the backlog of CARE issues - requests from city residents to address traffic related issues throughout the city (ie. broken STOP sign, request for traffic calming, etc.). The work included conducting traffic studies, conducting field visits, and delegating specific types of work to different crew members within the Traffic Engineering Division.

#### **SR 134 (103rd Street) between McManus/Hillman and Firestone Road - District 2**

Mr. Moye served as EOR for the Traffic Signal, Lighting and Fiber Optic Interconnect project. The project included the rebuild design of three signalized intersections, Pedestrian Lighting and Fiber Optic Interconnect. The work included preparation of plans and specifications with development of new Technical Special Provisions for controller cabinet equipment unique to the County.

#### **SR-109/University Blvd. Signalization & Interconnect from SR-13 (San Jose Blvd.) to Cesery Blvd. - FDOT**

This FDOT signalization and interconnect project included 11 span wire systems. Mr. Moye performed the structural computations for the span wire and strain poles using the Atlas v6 Program and manual calculations for optimizing foundations for pole locations with confined site conditions.

#### **SR-104/Dunn Ave. Signalization & Interconnect from Leonid Rd. to Main St. - FDOT**

This FDOT signalization and interconnect project included four span wire systems at four separate intersections. Mr. Moye performed the structural computations for the span wire and strain poles using the Atlas v6 Program.

#### **SR-93/I-75 from South of SR-121 to South of SR-222 - FDOT**

This FDOT Resurfacing, Restoration, and Rehabilitation project includes one span wire system design and a mast arm design. Mr. Moye performed the structural computations for the span wire and strain pole system using the Atlas V6 Program as well as performing the structural calculations for the proposed mast arm using the FDOT Mast Arm v5.03 Mathcad program.

#### **University Blvd and Merrill Road Roadway Diet Traffic Study**

Waitz & Moye Inc. conducted a Roadway Diet traffic study of University Boulevard between Arlington Road and Fort Caroline Road, and Merrill Road between University Boulevard and Rogero Road for the City of Jacksonville. The purpose of the study was to analyze existing and future conditions and determine if the number of roadway travel lanes could be reduced while maintaining an acceptable level-of-service. Various scenarios were studied for a two (2) lane section that included additional turn lanes at key intersections. Other traffic control devices such as roundabouts were considered to support a reduction of



travel lanes on University Boulevard for the forecast traffic demand. Additionally, a signalization removal study was recommended at one intersection due to low traffic volumes no longer supporting the justification of a signal. Mr. Moye served as project engineer for the study.

### **Collins Road & Argyle Forest Boulevard Operational Analysis**

WMI performed an operational analysis study for the City of Jacksonville at the intersections of Collins Road & Shindler Drive, Collins Road & Rampart Road, Collins Road & Paramore Road, Argyle Forest Boulevard & Shindler Drive, and Argyle Forest Boulevard & Rampart Road. The study included traffic data collection of the existing conditions and an operational and capacity analysis at each of the five intersections. This data was reviewed, and modifications were identified to improve the capacity and functionality of these intersections. The study resulted in recommendations to optimize the signal timings for all intersections to allow for more efficient traffic flow. Mr. Moye served as project engineer for the study.

### **Atlantic Boulevard and Girvin Road Operational Analysis and Signal Design**

The purpose of this study was to determine if an additional eastbound left turn lane is necessary to accommodate future traffic conditions at the intersection of Atlantic Boulevard and Girvin Road. It was determined that adding additional storage length to the existing eastbound left turn lane would be sufficient in accommodating projected traffic counts based on growth rates obtained from FDOT's Historical AADT Data. Mr. Moye was responsible for obtaining relevant information and performing an operational analysis by using Synchro 8 and SimTraffic.

### **Duval Road and Armsdale Road Warrant Study**

This traffic signal warrant study was authorized by the City of Jacksonville. The purpose of this study was to determine if a signalized intersection is warranted at the intersection of Duval Road and Armsdale Road. Mr. Moye was responsible for obtaining inventory of existing conditions, collecting traffic data, performing an operational analysis using Synchro 8, and determining whether or not a traffic signal is warranted at the study intersection in accordance with the Florida Department of Transportation Manual on Uniform Traffic Studies (FDOT MUTS).

### **Philips Highway and Reba Avenue Warrant Study**

This traffic signal warrant study was authorized by the Florida Department of Transportation (FDOT). The purpose of this study was to determine if a signalized intersection is warranted at the intersection of Philips Highway and Reba Avenue. Mr. Moye was responsible for obtaining inventory of existing conditions, collecting traffic data, performing an operational analysis using Synchro 8, and determining whether or not a traffic signal is warranted at the study intersection in accordance with FDOT's Manual on Uniform Traffic Studies (MUTS).

### **Rogero Road and Pine Summit Drive Warrant Study**

This traffic signal warrant study was authorized by the City of Jacksonville. The purpose of this study was to determine if a signalized intersection is warranted at the intersection of Rogero Road and Pine Summit Drive. Mr. Moye was responsible for obtaining inventory of existing conditions, collecting traffic data, performing an operational analysis using Synchro 8, and determining whether or not a traffic signal is warranted at the study intersection in accordance with the Florida Department of Transportation Manual on Uniform Traffic Studies (FDOT MUTS).