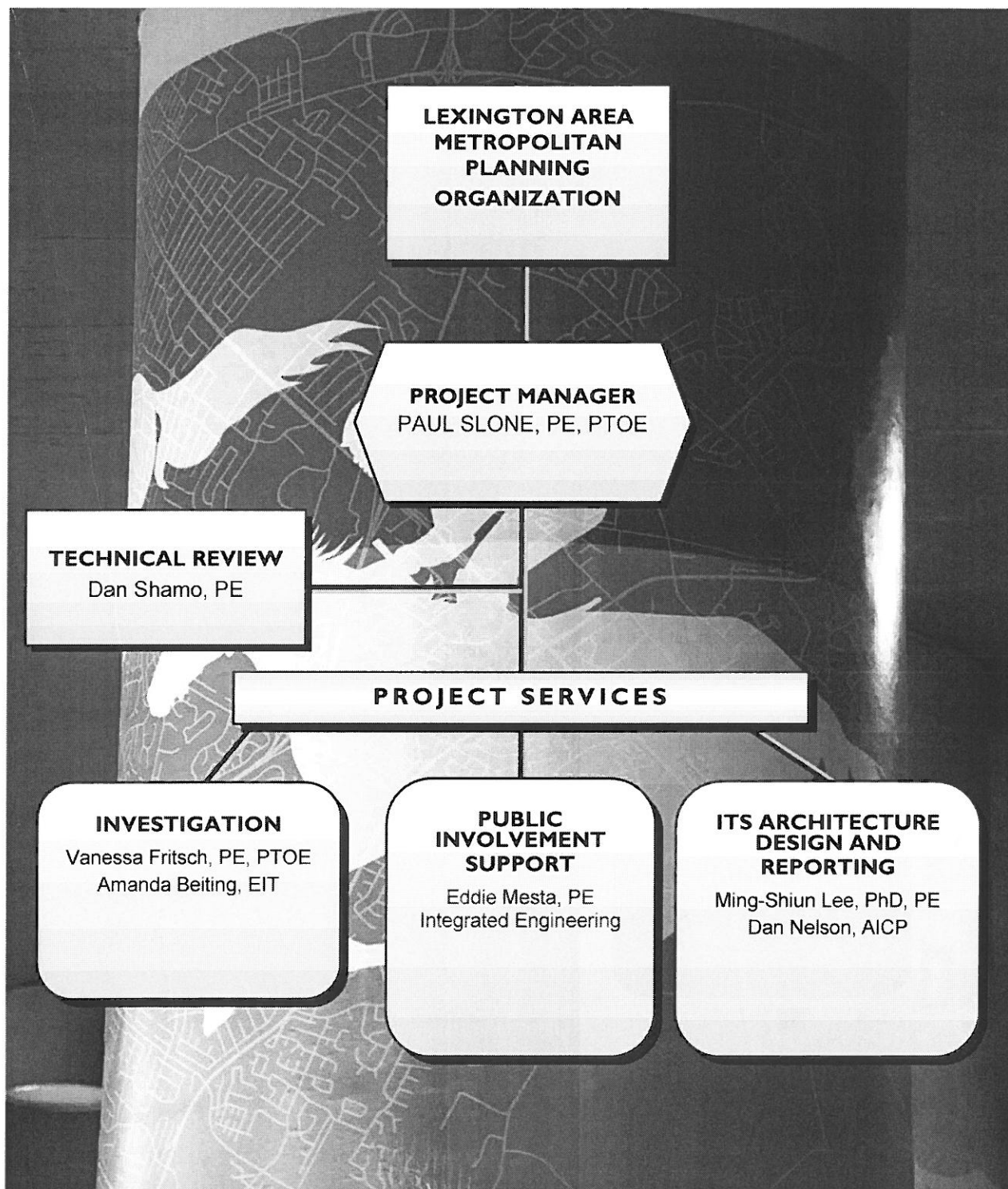
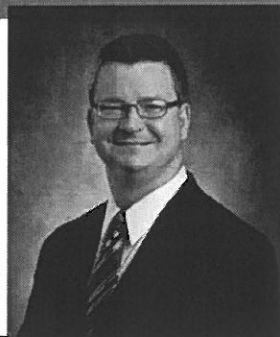




PROJECT TEAM ORGANIZATIONAL CHART URS INTEGRATED ENGINEERING





Paul A. Slone, PE, PTOE

Project Manager

Education

BS/1992/Civil Engineering/ University of Kentucky

Registration/Certification

Professional Engineer, Kentucky – 19880

Professional Traffic Operations Engineer (PTOE)

Areas of Expertise

Traffic Operations & Analysis
 Traffic Signal Design & Timing
 Signal Timing Implementation
 Congestion Management
 Simulation Modeling
 Intersection/Interchange Design
 Traffic Impact Analysis

Years of Experience

22 Years, 9 with URS

Mr. Slone will serve as Project Principal for the ITS Architecture Project. Mr. Slone is one of the top traffic operations engineers in the region. He is highly skilled at finding solutions to today complex transportation problems. His well rounded experience with multiple public agencies gives him a unique perspective of the issues faced at the state and local levels. His attention to detail will serve this project well. **He lives in Northern Kentucky, previously worked for LFUCG, and is a proud alumni of the University of Kentucky.** He knows well the ITS architecture in the Lexington Area, having served as Project Manager of the recent Signal Timing Project. He has developed a team approach to this project that includes regional experts to address the concerns that may develop and contingencies for the challenges.

Experience Relevant to this project:

Lexington Signal Retiming Project, Lexington Fayette County Urban Government: Project Manager for this traffic operations project involving 35 intersections on four of Lexington's major arterial routes. A minimum of 12 unique coordinated timing plans were developed for weekdays and weekends. The timing plans were based on over 800 hours of traffic data collected for the project. URS was responsible for working in the Lexington Traffic Management Center to program and download signal timing to local controllers and well as provide field support to adjust the timing. Final project results indicated a benefit/cost ratio on each route ranging from 35:1 to 69:1 when considering fuel and delay (time) savings for motorists.

Project Manager, US 27 Access Management Study, Fayette and Jessamine Counties: This project was a small area study driven by the potential impacts of a large planned development. The Brannon Crossing development was proposed to have approximately one million square feet of retail, 400,000 square feet of office space, and eventually have new neighborhoods develop from an expanded street network. Paul was the lead professional responsible for oversight of traffic analysis and design recommendations of roadway improvements. The project involved complex trip generation, trip assignments, and detailed internal site circulation analysis.

Specialty ITS Services, Kentucky Transportation Cabinet, District 5: Mr. Slone has completed several specialty ITS services projects for District 5 in conjunction with other roadway services conducted by URS. He and his team designed the Over Height warning system in conjunction with the Eastern Parkway Improvements at the University of Louisville Campus, and a specialty railroad crossing signal to alert motorists on 265 to utilize a different exit while the train is crossing.

District 7 Traffic Engineering Services, Kentucky Transportation Cabinet (2007-present): Mr. Slone is the Program Manager for a staff augmentation contract for the KYTC District 7 Office (Lexington Area). Primary work activity is to assist on an as needed basis, with routine intersection studies to more specialized studies. Studies include traffic signal requests, speed studies plus various other traffic engineering studies, supervision of the district electrical contractor, and assisting with the day-to-day operation and management of the district's 277 traffic signals and 15 closed loop systems that are outside of Fayette County (Lexington maintains all state traffic signals in the county). **Specialized services for this contract include developing signal construction plans for Newtown Pike and US 25 (Berea Rd.). URS was reselected to maintain this contract in 2009 and 2011.**

Statewide Traffic Engineering Services, Kentucky Transportation Cabinet (2007-present): Project Manager for providing specialized traffic engineering services under this statewide task order contract. Services include review and management of assigned coordinated traffic signal systems, collecting travel time data, developing traffic simulation models, signal retiming, and intersection inventories. Under this two-year contract, four Letter Agreements were assigned to analyze and recommend improvements to six coordinated networks. Networks ranged from small rural towns (Irvine, West Liberty, Maysville & Radcliff) to urbanized areas (Owensboro & Ashland).



Ming-Shiun Lee, Ph.D., P.E.

Project Technical Lead

Education

PhD / Transportation Engineering/ Washington University
 MS / International Project Management & Finance/ Washington University
 MS / Transportation Engineering/Washington University

Registration/Certification

Professional Engineer, Minnesota — #43396

Areas of Expertise

Intelligent Transportation Systems
 ITS Planning and Architecture
 ITS Program Management
 ITS Evaluation

Years of Experience

21 Years, 14 with URS

As a project engineer of URS Minneapolis office, Dr. Lee is primarily involved with engineering projects in the Intelligent Transportation Systems (ITS) and Traffic Engineering areas. He has over 19 years of experience in the areas of program management, ITS planning and architecture, design and implementation, systems engineering, advanced traffic management systems (ATMS), active traffic management (ATM), transportation systems evaluation, traffic modeling and simulation, and signal design and analysis. He brings this experience to the team which will serve Lexington in its regional knowledge, allowing a fresh approach, yet with the proven track record of multiple Midwestern States' ITS Architecture.

Experience Relevant to this project:

Minnesota Strategic ITS Development Plan, Project Manager (2014-Present): Analyze ITS development needs and objectives to identify emphasis areas and strategies to address ITS projects and research development needs. Develop a strategic ITS development plan to help guide future Minnesota DOT's ITS development and deployment investments.

Fresno County ITS Strategic Deployment Plan Update, Project Support (2014-Present): Updates the ITS Plan to guide the planning and implementation of ITS in Fresno County. Addresses the expanded realm of ITS in Fresno County. Provides a vision for ITS, outlines a program of low, medium and high priority projects, identifies a funding strategy, and establishes a plan for managing, integrating, operating, and maintaining the ITS elements in the region.

Minnesota Statewide ITS Architecture Update, Project Manager (2011-Present): Coordinate with statewide and regional transportation planning efforts, refine ITS goals, develop S.M.A.R.T. objectives, and identify performance measures and targets. Maintain and update the Statewide ITS Architecture, and develop an implementation plan to guide future ITS deployment in Minnesota.

Omaha-Council Bluffs Regional ITS Architecture Update, Project Manager (2013): Identified stakeholder needs, developed ITS vision, goals and objectives, identified and recommended performance measures, developed ITS integration strategies; provided training to MPO staff on architecture updates and maintenance, and developed strategies for architecture maintenance.

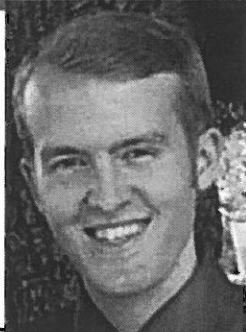
ARTS ATMS Master Plan Update, Task Manager (2013): Updated the ATMS plan that describes the ARTS ITS vision, operational concepts, projects and costs associated with deploying the vision. Responsible for developing an ITS architecture for the Augusta, Georgia metropolitan planning organization area.

Southwest Region ITS Concept of Operations and Design, Task Manager (2009-2010): Assist Michigan DOT with developing a concept of operations for ITS infrastructure in the Southwest Region.

Minnesota Urban Partnership Agreement Transit Technology Project, Task Manager (2008-2011): Developed concept of operations and requirements for transit arrival/departure information signs and systems, transit travel time displays, park and ride availability system, and transit signal priority system.

Mississippi Statewide ITS Architecture, Architecture Development Task Lead (2006-2007): Provided technical support for updating the Mississippi statewide ITS architecture as well as developing three regional ITS architectures.

Iowa Statewide ITS Architecture, Project Manager (2005-2007): Assisted Iowa DOT with the development of the Iowa Statewide ITS Architecture. Also developed a statewide DMS architecture and a DMS operations manual to assist with statewide DMS deployment and operations.



Dan Nelson, AICP

Project Planner

Education

MA / Urban and Regional Planning / University of Iowa
 BA / Economics and American Studies / St. Olaf College

Registration/Certification

American Institute of Certified Planners / #024115

Areas of Expertise

Intelligent Transportation Systems
 ITS Planning and Architecture

Years of Experience

8 Years with URS

Mr. Nelson has been an ITS Planner in URS' Minneapolis Office for over eight years. During this time, he has worked with multiple public sector clients on ITS Architecture projects and the application of all steps of the Systems Engineering process to multiple ITS projects. He will bring his planning expertise and the working relationship with Dr. Lee to the City of Lexington to find solutions for the Regional ITS Architecture.

Experience Relevant to this project:

Minnesota Strategic ITS Development Plan (June 2014 to present): Mr. Nelson is currently assisting MnDOT in developing a Strategic ITS Development Plan that will provide recommendations on ITS strategies and countermeasures that can help achieve MnDOT's ITS Development Objectives. Mr. Nelson will be gathering research on existing ITS studies, reports, and performance measures, and ultimately recommending a number of ITS Development Objectives to be further analyzed based on available data and performance measures to evaluate those objectives. Mr. Nelson will also highlight emphasis areas within the recommended ITS Development Objectives where the most progress can be demonstrated with recommended ITS strategies and countermeasures.

Minnesota Regional ITS Architecture Update (Aug. 2011 to present): Mr. Nelson is currently assisting MnDOT in updating its Statewide Regional ITS Architecture through the development of objectives and performance measures that conform to the S.M.A.R.T. (Specific, Measurable, Agreed, Realistic, and Time-bound) characteristics recommended by FHWA. Mr. Nelson is also developing an ITS Architecture Maintenance Plan that will provide guidance to MnDOT staff as they update the ITS Architecture over time. Mr. Nelson previously provided technical support to MnDOT in the development of the Statewide Regional ITS Architecture from Nov. 2007 to March 2009.

MAPA Regional ITS Architecture (April 2013 to Dec. 2013): Mr. Nelson is currently working for the Metropolitan Area Planning Agency (MAPA) on updating the Regional ITS Architecture for the Omaha-Council Bluffs MPO. To date, the work has involved conducting a stakeholder workshop with several regional stakeholders to understand the current state of ITS deployment in the region and planned ITS projects by various agencies. Mr. Nelson developed a survey that gathered information on existing and planned ITS in the region, and will be involved in providing training and guidance to MAPA staff on how to update the Regional ITS Architecture based on stakeholder feedback. Mr. Nelson will also be responsible for reviewing the work of MAPA staff to confirm the Regional ITS Architecture is in compliance with federal rules and regulations governing the use of ITS Architecture.

Augusta Regional Transportation Study (ARTS) ITS Architecture Update (June 2013 to December 2013): Mr. Nelson updated the Regional ITS Architecture for the Augusta, GA MPO region that included several cities and counties along the Georgia-South Carolina border. This included updating an inventory of existing and planned ITS technologies throughout the region, creating an extensive list of stakeholders, and identifying how future ITS projects could be accommodated for in the Regional ITS Architecture.

Regional Transit Signal Priority Implementation Program (December 2012 to present): Mr. Nelson has been involved with the Regional Transit Signal Priority Implementation Program (RTSPIP) since December 2012. Mr. Nelson is responsible for developing multiple ITS Systems Engineering documents for the Regional Transportation Authority (RTA) of Chicago, including the Program Management Plan, Systems Engineering Management Plan, Concept of Operations, and System Requirements documents. The Program is intended to define how Transit Signal Priority (TSP) can be implemented in a regionally interoperable manner by different transit agencies across multiple jurisdictions that operate multiple types of traffic signal controllers. Mr. Nelson will also be involved with Implementation Oversight and Program Validation activities through 2017.



Vanessa M. Fritsch, PE, PTOE

Senior Traffic Engineer

Education

BS/2003/Civil Engineering/ University of Kentucky

Registration/Certification

Professional Engineer, Kentucky – 26090

Professional Traffic Operations Engineer (PTOE)

Areas of Expertise

Traffic Operations & Analysis
Traffic Signal Design & Timing
Signal Timing Implementation
Congestion Management
Simulation Modeling
Traffic Impact Analysis

Years of Experience

With URS: 6.5 Years

With Other Firms: 2.5 Years

Ms. Fritsch is a Senior Traffic Engineer with expertise in the fields of Signal Design, Signal System Timing, Traffic Control and Intersection Design. She has over 10 years of experience with consulting firms. Ms. Fritsch has experience in signal design, system timing, traffic studies, lighting, traffic control, signing, plan preparation, maintenance of traffic plans, quantity calculations, and construction cost estimates.

Ms. Fritsch has extensive experience in signal design and signal system timing. The majority of Ms. Fritsch's work has involved serving as an extension of local public agencies, such as the Kentucky Transportation Cabinet and the City of Cincinnati to assist in Traffic Engineering. She is a registered PE in both Kentucky and Ohio and a PTOE. **She is a resident of Northern Kentucky and a proud alumni of the University of Kentucky.**

Experience Relevant to this project:

Lexington Signal Retiming Project, Lexington Fayette County Urban Government: Lead Traffic Engineer (for this traffic operations project involving 35 intersections on four of Lexington's major arterial routes. A minimum of 12 unique coordinated timing plans were developed for weekdays and weekends. The timing plans were based on over 800 hours of traffic data collected for the project. URS was responsible for working in the Lexington Traffic Management Center to program and download signal timing to local controllers and well as provide field support to adjust the timing. Final project results indicated a benefit/cost ratio on each route ranging from 35:1 to 69:1 when considering fuel and delay (time) savings for motorists.

Specialty ITS Services, Kentucky Transportation Cabinet District 5: Ms. Fritsch has been involved in the signal construction plans for the specialty systems designed for District 5 including the Over height warning system at the University of Louisville, Eastern Parkway improvements project and the 1-265 train crossing warning system. She has completed the training courses required and holds the prequalification for highway lighting with KYTC.

District 7 Traffic Engineering Services, Kentucky Transportation Cabinet (2007-present): Project Engineer providing staff augmentation to the KYTC District 7 Office Staff. Contractual duties include performing signal warrant studies, speed studies, performing signal installation inspections, managing 15 closed loop signal systems. In the first year of the contract, URS evaluated over 100 intersections. After renewal in 2009, the contract included traffic signal warrant studies, left turn evaluations, and a sign inventory that includes 65 miles of roadway. In 2011, the contract was renewed again. The services include and access management study on US 27 in Nicholasville, signal system retiming in Georgetown near the Toyota plant and continued intersection evaluations for left turn phases and signal warrants, and the US 27 Access Management study..

Statewide Traffic Engineering Services, Kentucky Transportation Cabinet (2007-present): Project Engineer providing a broad range of traffic engineering services under this statewide contract. Services include annual review and management of assigned coordinated traffic signal systems, collecting travel time data, speed studies, performing capacity analysis and developing traffic simulation models. From 2007-2010, URS has worked on five signal systems: KY 52/89 in Irvine (3 intersections), US 31W in Radcliffe (3 intersections), US 431 in Owensboro (19 intersections), US 460 in West Liberty (3 intersections) and US 62X in Maysville (4 intersections). URS continued this work with a renew contract from 2010-13, and have received 3 new letter agreements including: 3 signal systems in Paducah totaling 28 intersections evaluated, the downtown Covington area was evaluated and retimed totalling 55 signals, and the downtown Grayson system with 6 signals on two routes.

ARRA Traffic Signal Retiming, Louisville Metro Government (2010-2012): The study area includes Dixie Highway (US 31W), Bardstown Road (US 31E) and Fern Valley Road (KY 1737) totaling 67 intersections. Routes vary from 35,000 to 55,000 vehicles per day. This project involved an extensive data collection effort, development of new signal timing, signal programming using TransPHAT and Centrax, and field implementation. URS utilized a Bluetooth base data collection system to analyze the before and post implementation travel times in each corridor.



Daniel E. Shamo, PE

Senior ITS Engineer, Technical Review

Education

BS/1971/Civil Engineering/Purdue University

Registration/Certification

1975/ Professional Engineer/ Indiana/No. 600161165

Areas of Expertise

Transportation Engineering and Project Management

Years of Experience

With URS: 14 Years
With Other Firms: 29 Years

Mr. Shamo has an extensive background in transportation engineering and project management. His areas of expertise include Intelligent Transportation Systems (ITS) and Traffic Operations. His experience includes establishing the current Intelligent Transportation System (ITS) initiatives for the Indiana Department of Transportation.

Experience Relevant to this project:

Columbus, IN ITS Architecture: Dan led the project which created the ITS Architecture for the Columbus Indiana area (Bartholomew County). This work provided a basis for the ITS planning initiatives in this forward looking MPO.

ConOps Development Lead, I-94 ITS Program for the Michigan DOT: To support the systems engineering effort for Southwest Michigan, Dan led the development of a Concept of Operations for the stakeholders who manage or respond to incidents on I-94 in Michigan. This work entailed an extensive outreach program to identify the ITS needs of the stakeholders in their current and planned roles. Over a series of gatherings, consensus was reached on how these agencies could collaborate as they developed their ITS operational strategies. This ConOps was maintained in compliance with the Michigan ITS Architecture.

Illinois Statewide Architecture: Dan helped create the Statewide ITS Architecture for the State of Illinois. This work involved a substantial amount of consensus building and outreach to a wide variety of stakeholders.



Amanda J. Beiting, EIT

Graduate Traffic Engineer

Education

BS/2013/Civil Engineering/ University of Cincinnati

AAS/2009/Civil Engineering Technology—Surveying/
Cincinnati State Technical and Community College

Areas of Expertise

Data Collection
CADD Design

Years of Experience

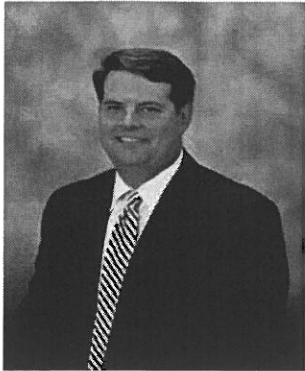
With URS: 5.5 Years

Ms. Beiting is a senior in the Civil Engineering Program at the University of Cincinnati. Previously, she completed an Associates degree program in Civil Engineering Technology – Surveying at Cincinnati State Technical and Community College. She has worked with URS in the Traffic Department for over five years. She’s involved in both office and field work.

Experience Relevant to this project:

Lexington Signal Retiming Project, Lexington Fayette County Urban Government: Graduate Engineer for this traffic operations project involving 35 intersections on four of Lexington’s major arterial routes. A minimum of 12 unique coordinated timing plans were developed for weekdays and weekends. The timing plans were based on over 800 hours of traffic data collected for the project. URS was responsible for working in the Lexington Traffic Management Center to program and download signal timing to local controllers and well as provide field support to adjust the timing. Final project results indicated a benefit/cost ratio on each route ranging from 35:1 to 69:1 when considering fuel and delay (time) savings for motorists.

District 7 Traffic Engineering Services, Kentucky Transportation Cabinet (2007-present): Co-op providing staff augmentation to the KYTC District 7 Office (Lexington Area). Contractual duties include performing signal warrant studies, speed studies, performing signal installation inspections, managing 15 closed loop signal systems. In the first year of the contract URS has studied over 100 intersections.



Eddie Mesta, PE

EDUCATION

- University of Kentucky, B.S. Civil Engineering (1995)

EXPERIENCE – 18 YEARS

PROFESSIONAL REGISTRATIONS

- PE – KY 22048
- PE – IN 10200289
- PE – TN 00107842

SPECIALIZED TRAINING

- KYTC Traffic Impact Study Training
- PSMJ Project Managers Bootcamp
- Kentuckians for Better Transportation (KBT) Conference 2014
- KYTC Basic Traffic Engineering Design Course
- KYTC Partnering Conference
- LPA Project Guide Training
- KSPE Annual Conference 2014
- Design Streets for Pedestrian and Bicycle Training
- Detention Ponds and Urban Hydrology Training
- SED-CAD4 Training

Eddie Mesta will be providing assistance with the public involvement component of this project. As Vice President of Integrated Engineering he has gained a significant amount of utility coordination and community involvement experience over the last 15 years in working with public infrastructure projects.

RELATED EXPERIENCE

Tates Creek Road Sidewalk Project (LFUCG), Lexington, KY – Project Manager for the site/civil engineering, surveying and streetscape layout for the design of over 16,000 linear feet sidewalks for both sides of Tates Creek Road from inside of Alumni Drive outbound to the Lansdowne Shoppes area. The design followed state and federal Local Public Agency (LPA) guidelines. Significant coordination was made with utility companies for the numerous relocations that were needed to retrofit the sidewalk into the existing infrastructure. Another key component of the project was overseeing the public involvement initiative which included meetings with key stakeholders, individual property owner meetings, and one overall public meeting. Coordination with LEXTRAN was also a key planning component in determining the optimal bus shelter locations.

New Circle Road N.E. Scoping Study, Lexington, KY - Served as Project Engineer in the scoping study for the 6 mile signalized portion of the New Circle Road N.E. corridor for the Kentucky Transportation Cabinet. Experience included helping facilitate numerous focus group and public meetings throughout the duration of the project. The results of the study produced various design alternatives with preliminary construction cost estimates. The Lexington Area MPO also participated in this study. Involvement also included participating in presentations to the Lexington–Fayette Urban County Council.

Lexington-Fayette Urban County Government (LFUCG) Capacity Assurance Program (CAP), Lexington, KY - Assisted LFUCG on its Capacity Assurance Task Force to determine how future sanitary sewer credits and tap on procedures will be administered for conformance with the Consent Decree. Responsibilities include providing due diligence and assistance in facilitating bi-weekly task force meetings, which consists of LFUCG Council Members and local stakeholders.

Lexington-Fayette Urban County Government (LFUCG) Redistricting Committee, Lexington, KY – Volunteered as one of twelve district representatives for LFUCG’s Redistricting Committee. Responsibilities included attending bi-weekly meetings throughout the four month process to redistrict the twelve (12) council districts in accordance with the rules and provisions established in with LFUCG and KRS ordinances. 2010 census data and future planning and growth projections were the primary sources of data for the determination of the council districts that were established for the next 10 years.

**DIRECTOR, DIVISION OF CENTRAL PURCHASING
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT
200 EAST MAIN STREET
LEXINGTON, KENTUCKY 40507**

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL
EMPLOYMENT OPPORTUNITIES AND DBE CONTRACT PARTICIPATION**

Notice of requirement for Affirmative Action to ensure Equal Employment Opportunities and Disadvantaged Business Enterprises (DBE) Contract participation. Disadvantaged Business Enterprises (DBE) consists of Minority-Owned Business Enterprises (MBE) and Woman-Owned Business Enterprises (WBE).

The Lexington-Fayette Urban County Government has set a goal that not less than ten percent (10%) of the total value of this Contract be subcontracted to Disadvantaged Business Enterprises, which is made up of MBEs and WBEs. The goal for the utilization of Disadvantaged Business Enterprises as subcontractors is a recommended goal. Contractor(s) who fail to meet such goal will be expected to provide written explanations to the Director of the Division of Purchasing of efforts they have made to accomplish the recommended goal, and the extent to which they are successful in accomplishing the recommended goal will be a consideration in the procurement process. Depending on the funding source, other DBE goals may apply.

For assistance in locating Disadvantaged Business Enterprises Subcontractors contact:

Marilyn Clark, Division of Central Purchasing
Lexington-Fayette Urban County Government
200 East Main Street, 3rd Floor, Room 338
Lexington, Kentucky 40507
mclark@lexingtonky.gov

Firm Submitting Proposal: URS Corporation

Complete Address: 525 Vine Street, Suite 1800, Cincinnati, OH 45202
Street City Zip

Contact Name: Paul A. Slone, PE, PTOE Title: Transportation Department Manager

Telephone Number: 513.651.3440 Fax Number: 1.877.660.7727

Email address: Paul.slone@urs.com