

# Tanya King, P.E.      Senior Transportation Engineer

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## **AFFILIATION:**

DANIEL CONSULTANTS, INC.

## **PROJECT ASSIGNMENT: LEAD PROJECT ENGINEER**

### **EDUCATION:**

B.S./Civil Engineering (1997)

### **REGISTRATION:**

Registered Professional Engineer

### **EXPERIENCE:**

Ms. King has 10 years experience in all facets of traffic engineering that include traffic safety and operations, planning and ITS. She has extensive experience working with state and local transportation agencies on a wide variety of safety, operations, and design projects:

- **15<sup>th</sup> Street N.W. Traffic Calming Study (DDOT)**– Project Engineer for the task. Created a report that detailed existing traffic and road conditions. Identified problems and recommended solutions to the problem
- **Brentwood Road Transportation Study (DDOT)**- Project Engineer for the task. Created a report that detailed existing traffic and road conditions in the area, identified problems, and recommended solutions to the problems (e.g., roundabout at an intersection that did not meet federal signal warrants, but had a low LOS).
- **District of Columbia Citywide Street Light Geographic Information System (GIS) (DDOT)**- Lead the data collection process for gathering the streetlight locations and characteristics. Designed the streetlight database.
- **District of Columbia Alley Light Conversion Task (DDOT)** – Designed and implemented the Quality Control Procedures for the task. The task consisted of inventorying alleys and creating work orders and contract documents.
- **District of Columbia Local Street and Alley light Upgrade Task (DDOT)** – Designed alley lighting upgrades in several squares. The designs included removal of existing lights and installation of new standard lighting poles and fixtures and new conduit systems.
- **Dulles Corridor Rapid Transit Study (WMATA)**– Analyzed the existing and future Level of Services (LOS) and delay for intersections surrounding proposed public transportation facilities for Baseline, Bus Rapid Transit (BRT), BRT / Metrorail, and Metrorail alternatives. Performed traffic-engineering studies of signalized intersection controls. Prepared timing studies and optimized several signalized intersections using CORSIM and TEAPAC models.
- **Maryland Eastern Shore Hurricane Evacuation Traffic Management Plan (SHA)**– Coordinated with all the jurisdictions on the Eastern Shore to develop an evacuation traffic management plan for the Eastern Shore. The plan includes detailed information on traffic control points needed to manage traffic during an evacuation.

- **Maryland Regional Operation Coordination (ROC) (SHA)** – Served as a key staff member to coordinate the ROC Committee’s tasks and technical initiatives. Assisted in the research for the “MOVE IT” initiative that provides procedures for people involved in minor traffic accidents to remove their vehicles from the roadways. Wrote a “Multi-Agency Incident Response Coordination Guide” for Montgomery and Prince George’s Counties to help an incident responder to effectively obtain assistance that is outside his / her area of expertise to minimize the clearance time. Wrote “Review of Existing Safety Patrol Operations in Other States” that reviews the operations, costs, and customer feedback of existing traffic safety patrol programs run by other States’ agencies.
- **MD Route 100 Study (SHA)**– Analyzed the before and after volume along the road to determine the Level of Services (LOS) for the freeway sections and intersections.
- **NSA/Fort Meade Traffic Emergency Management Plan (SHA)** – Developed plans to divert traffic from the NSA/Fort Meade area.
- **On-site support for Maryland State Highway Administration Travel Forecasting Section (SHA)** – Reviewed Traffic Impact Studies, forecasted data based on existing data, calculated Loss of Public Benefit, and reviewed traffic count data.
- **Signal Design in Maryland and Virginia**– Designed over 20 signals for Maryland State Highway Administration (SHA), Virginia Department of Transportation (VDOT) and Metropolitan Washington Airports Authority (MWAA). The signal plans included design of the hardware, timing, and layout.
- **South Bethesda Parking Study (Montgomery Co)** – Conducted detailed parking inventories of the CBD. Prepared parking characteristics studies of public and private lots, garages, and prepared report demand studies.