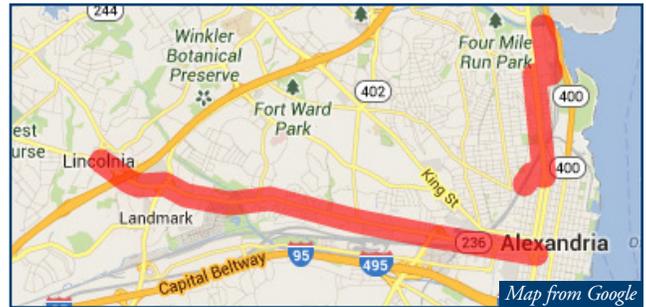




# Project Description Form — 8K

## Basic Project Information

- 1. **Submitting Agency:**  
City of Alexandria
- 2. **Project Title:** Traffic Signal Upgrades/  
Transit Signal Priority
- 3. **Project Type:**  
 Roadway    Multimodal    Transit
- 4. **Project Description/Scope:** The first phase of this project will leverage existing infrastructure and improve system efficiencies by funding transportation technologies such as traffic signal upgrades, Transit Signal Priority (TSP), and queue jumps. These technologies will help maximize efficiency of the transportation system without large investment in new infrastructure. The systems will be implemented on the Duke Street corridor from the western City limit to Route 1 and on the Route 1 Transitway corridor from the Braddock Road Metrorail station to Potomac Yard. Some of the funds may also be used to upgrade traffic signals on Route 1, south of Braddock Road Metro without providing TSP. The TSP work will improve transit service and systems operations in the Duke Street and Route 1 corridors which provide direct connections to Fairfax and Arlington Counties.
- 5. **Route (if applicable)/Corridor:**  
Corridor 8



- 6. **Total Project Cost:** \$1,200,000
- 7. **Total Funds Required:** \$660,000
- 8. **Phase/s of Project Covered by Funding:** Design (Duke) \$60,000, Construction (Rt. 1) \$600,000
- 9. **Project Milestones (by phase, include all phases):**
  - Duke Street: Design FY 2014
  - Route 1: Construction Start FY 2014
- 10. **In TransAction 2040 plan?**  
 Yes    No
- 11. **In CLRP, TIP or Air Quality Neutral?**  
Yes. CLRP, ID# 2090
- 12. **Leverages Sources:**  
 Local    State    Federal  
 Other (please explain)

PROJECT ANALYSIS			
<b>Tier I</b> <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<b>Tier III Congestion Reduction Relative to Cost:</b>		
<b>Tier II</b> 7 out of 8 points	<b>Plan</b> <input checked="" type="checkbox"/> CLRP <input type="checkbox"/> TA2040 only	<b>Rating</b> <input checked="" type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low	

# Stated Benefits

- 1. What regional benefit/s does this project offer?** These corridors will support mobility, as well as improved travel times for SOVs and transit users along both corridors. The project will improve the efficiency of existing and planned transit service within the City of Alexandria, Fairfax County, and Arlington County.
- 2. How does the project reduce congestion?** FHWA has estimated that poor traffic signal timing accounts for 5-10% of all traffic delay. Upgrading signal equipment is one of the most cost effective and basic strategies to mitigate congestion.
- 3. How does the project increase capacity?** (*Mass transit projects only*) The project will improve the efficiency of existing and planned transit service within the City of Alexandria, Fairfax County, and Arlington County. TSP has the potential to cut transit travel times for riders, making transit a more attractive option for both commute and non-commute trips. In addition, TSP increases both efficiency and capacity by reducing vehicle running times. This creates an opportunity to reduce the number of vehicles on a route and add that capacity elsewhere in the transit system.
- 4. How does the project improve auto and pedestrian safety?** The project improves safety by allowing dedicated turning phases, reducing potential auto and pedestrian conflicts.
- 5. List internet address/link to any additional information or documentation in support of project benefits.** (*Optional*) N/A

## 6. Project Picture/Illustratives

