## UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION FEDERAL TRANSIT ADMINISTRATION

#### MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MOU) is entered into by the **Metropolitan Washington Council of Governments**, acting as the administrative agent of the National Capital Region Transportation Planning Board, the official Metropolitan Planning Organization for the Washington, DC, metropolitan area, and the United States of America, acting through the United States Department of Transportation, Federal Transit Administration (FTA or Government) based on the selection of **Priority Bus Transit in the National Capital Region** for Federal assistance under the Transportation Investment Generating Economic Recovery (TIGER) Grants program authorized by the American Recovery and Reinvestment Act of 2009, Public Law 111-5, in an amount not to exceed \$ 58,838,000.

WHEREAS, the Project Sponsor, in anticipation of a grant award under the TIGER Grant Program, agrees to administer any such grant to be signed by it and the Government for the Project pursuant to the terms and conditions set forth in the grant agreement and in accordance with the Statement of Work, Project Cost Estimate, Project Schedule, Capital Finance Plan, and Operating Finance Plan set forth herein.

WHEREAS, the Project Sponsor, at its own risk, may incur eligible capital expenses before a grant award is issued for the Project (automatic pre-award authority) only if (1) FTA has approved the document (ROD, FONSI, or CE determination) that completes the environmental review process required by the National Environmental Policy Act (NEPA) and its implementing regulations; (2) the Project is included in the Metropolitan Transportation Improvement Program, Statewide Transportation Improvement Program, and the Long Range Plan, as appropriate; and (3) the Project Sponsor and the Government have executed this MOU. As with all pre-award authority, all Federal requirements must be met prior to incurring costs in order to retain eligibility for Federal grant assistance.

WHEREAS, the Project Sponsor or the Government may seek to amend or modify this MOU prior to grant award by written notice to the other party. The MOU will be amended or modified only on mutual agreement by the Project Sponsor and the Government.

WHEREAS, the Government reserves the right to terminate this MOU if the Project Sponsor does not enter into a grant agreement on or before **March 31, 2011** or the Government determines that termination is in the public interest.

WHERERAS, this MOU will be effective upon the execution of Project Sponsor and the Government.

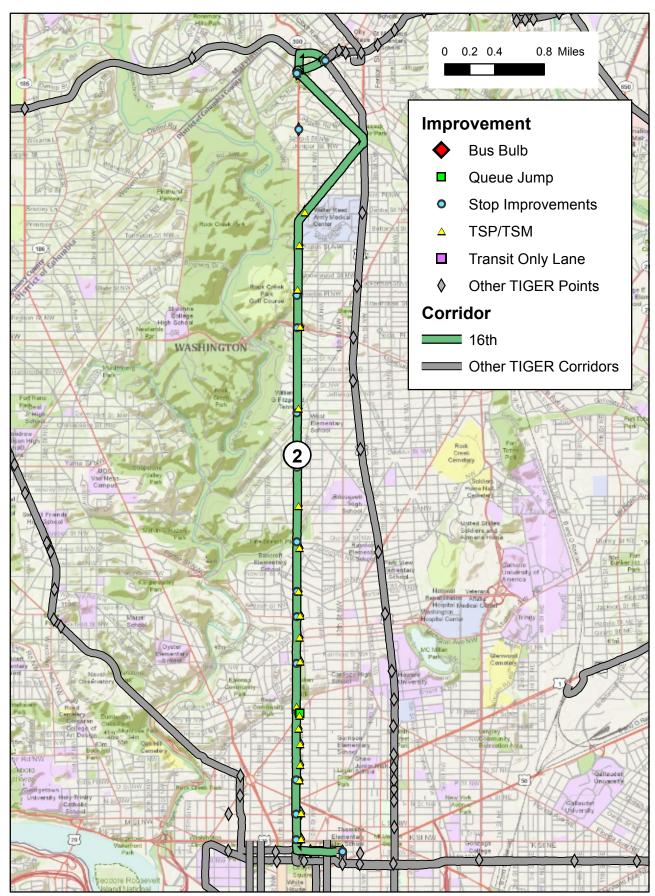
WHEREAS, the Project Sponsor understands and acknowledges that the Government has established a deadline for entering into this MOU of no later than May 19, 2010.

The **Priority Bus Transit in the National Capital Region** program contains sixteen (16) separate projects spread throughout the Washington, DC metropolitan area in the District of Columbia, Virginia and Maryland. Individual Statements of Work, Project Budgets, Project Schedules and Sources of Funding follow.

### Summary of **Priority Bus Transit in the National Capital Region** program

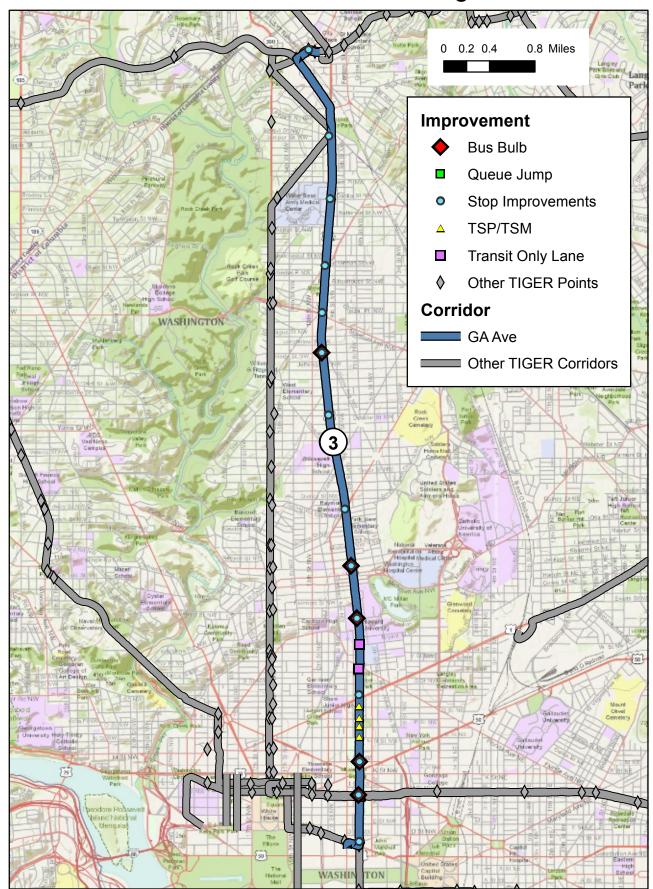
Project Number	Project Name	Location	TIGER Grant Award
2	16th Street Bus Priority Corridor Enhancements	DC	\$1,295,000
3	Georgia Avenue Bus Priority Corridor Enhancements	DC	\$4,111,000
4	H Street/Benning Road Bus Priority Corridor Enhancements	DC	\$415,000
5	Wisconsin Avenue Bus Priority Corridor Enhancements	DC	\$745,000
6	Addison Road Bus Priority Corridor Enhancements	MD	\$200,000
7	University Boulevard Bus Priority Corridor Enhancements	MD	\$1,262,000
8	US 1 (MD) Bus Priority Corridor Enhancements	MD	\$805,000
9	Veirs Mill Road Bus Priority Corridor Enhancements	MD	\$265,000
10	US 1 (VA) Transitway	VA	\$8,500,000
11	VA 7 (Leesburg Pike) Bus Priority Corridor Enhancements	VA	\$1,340,000
12	Van Dorn - Pentagon Bus Priority Corridor Enhancements	VA	\$670,000
13	T. Roosevelt Bridge to K Street Bus Priority Corridor Enhancements	DC	\$1,800,000
14	14th Street Bridge to K Street Bus Priority Corridor Enhancements	DC	\$5,200,000
16a	Pentagon Franconia Springfield Station Improvements	VA	\$9,930,000
16b	PRTC Buses and ITS Technology	VA	\$10,000,000
18	Takoma/Langley Transit Center	MD	\$12,300,000
	TOTAL		\$58,838,000

## Metrobus TIGER Projects Corridor 2: S-Line - 16th Street NW



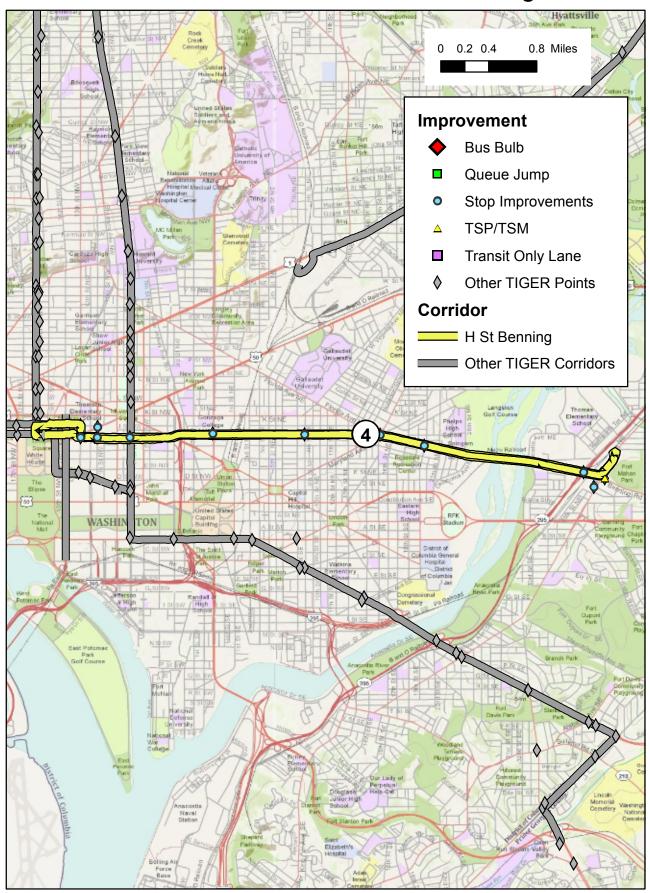
1.0 16th Street Real-time Bus Information  This project will provide real-time transit service information to users at 30 locations along the corridor. Additional information useful to riders includes: service disruptions or delays, public safety announcements, public service announcements, and upcoming service changes. Note: DDOT has an existing contract that provides for the installation of shelters, including an electrical power supply to operate NextBus equipment, as one task order. Location (# of shelters)  1.1 Silver Spring Metro Station (1)	
service disruptions or delays, public safety announcements, public service announcements, and upcoming service changes. Note: DOOT has on existing contract that provides for the installation of shelters, including an electrical power supply to operate NextBus equipment, as one task order. Location (# of shelters)  1.1 Silver Spring Metro Station (1)	
contract that provides for the installation of shelters, including an electrical power supply to operate NextBus equipment, as one task order. Location (# of shelters)  1.1 Silver Spring Metro Station (1)	
shelters) 1.1 Silver Spring Metro Station (1)	
1.1 Silver Spring Metro Station (1)	
Next Bus Information Display (Express bus bay) DDOT \$10,000	
1.2 Eastern Avenue (2)  Next Bus Information Display  DDOT \$20,000	
1.3 Kalmia Road (2)  Next Bus Information Display  DDOT \$20,000	
1.4 Sheridan Street (SB) and Somerset Plance (NB) (2)  Next Bus Information Display DDOT \$20,000	
1.5 Missouri Avenue (2)  Next Bus Information Display (Express bus bay)  DDOT \$20,000	
1.6 Colorado Avenue (2)  Next Bus Information Display  DDOT \$20,000	
L.7 Buchanan Street (2)  Next Bus Information Display  DDOT \$20,000	
.8 Spring Road (NB) (1)  Next Bus Information Display DDOT \$10,000	
.9 Park Road (2)  Next Bus Information Display DDOT \$20,000	
10 Irving Street/Columbia Road (2) Next Bus Information Display DDOT \$20,000	
11 Euclid Street (2) Next Bus Information Display DOOT \$20,000	
2 U Street (2)  Next Bus Information Display DDOT \$20,000	
3 P Street (2) Next Bus Information Display DDOT \$20,000	
M Street (2)  Next Bus Information Display  DDOT \$20,000	
K Street (2)  Next Bus Information Display  DDOT \$20,000	
6 McPherson Square (I Street between 13th and 14th) (2) Next Bus Information Display (Express bus bay) DDOT \$10,000	
7 All stop locations 1.17a New Information cases WMATA \$10,000	
1.176 New Schedules WMATA \$8,000  1.17c New System Maps WMATA \$8,000	
.0. Real Time Bus Information Prototype Development \$414,000	
This project will develop the software and hardware requirements needed for	
DDOT to successfully manage the data feeding the real-time bus information facilities in bus shelters. The project will incorporate bus service data from all	
jurisdictions along the corridor and is necessary in order to provide users with information above and beyond WMATA service including service provided by	
DC Circulator, Maryland Transit Administration commuter buses, and other jurisdictional transit services that cross into the District. NextBus service alone	
will provide the bare minimum of usefulness to users, but this project element will fully enhance the user experience and is adaptable to thrute growth and	
technology.  1 Define technology and technical requirements DDOT \$50,000	
Procure software and hardware, begin testing DDOT \$182,000 Complete testing and implement service DDOT \$182,000	
16th Street Transit Signal Priority \$400,000	
This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems	
upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 6 intersections and WMATA will be able to install TSP equipment on up to 14	
buses.	
RFP Development and Consultant Selection DD0T/WMATA \$5,000  3.1a Acceptance Testing and Approvals Consultant \$1,000	
3.1b         Design Specifications         Consultant         \$1,000           3.1c         Performance Specifications         Consultant         \$2,000	
2 Agency Coordination 3.2a Agency Coordination Consultant \$4,000	
3.2b Stakeholder Workshop 3.2c Intergovernmental Agreements/Memorandums of Understanding Signal System Design	
Signal System Design 3.3a Prelininary Scoping of Intersections DDOT \$1,500	
3.3b Field Review for System Requirements DDOT \$5,000 3.3c Scope Refinement Consultant \$1,500	
3.3d Existing Signal Timing Review Consultant \$2,500 3.3e TSP Timing Development Consultant \$7,500	
3.3f TSP Detection Setting Development Consultant \$5,000 3.3g Intersection Device Design Drawings Consultant \$12,000	
3.3f TSP Detection Setting Development Consultant S,5,000 Intersection Device Design Drawings Consultant S12,000 Procurement from Vendor(s) 3.4a Construction Details Consultant S,9,000	
3.3f TSP Detection Setting Development	
3.3f TSP Detection Setting Device Design Drawings 3.3g Intersection Device Design Drawings Consultant S5,000 Procurement from Vendor(s) 3.4a Construction Details 3.4b Design Specifications 3.4c Equipment Delivery Consultant S3,500 Consultant S1,500 S1,50	
3.3f     TSP Detection Setting Development     Consultant     \$5,000       3.3g     Intersection Device Design Drawings     Consultant     \$12,000       Procurement from Vendor(s)     S1,000       3.4a     Construction Details     Consultant     \$3,500       3.4c     Equipment Delivery     Consultant     \$1,500       Installation     Installation     Consultant     \$6,000       3.5a     Construction Management     Consultant     \$1,500       3.5b     Vendor System Designent Upgrades     Vendor     \$134,000	
3.3f         TSP Detection Setting Development         Consultant         55,000           3.3g         Intersection Device Design Drawings         Consultant         512,000           Procurement from Vendor(s)         Consultant         59,000           3.4a         Construction Details         Consultant         53,500           3.4b         Design Specifications         Consultant         53,500           1.stallation         Construction Management         56,000           3.5a         Vendor System Design         Consultant         56,000           3.5c         Signal System Equipment Upgrades         Vendor         513,000           3.5d         Transit Vehicle Equipment Upgrades         Vendor         5130,000           3.5e         Timings Deployment         DDOT         55,000	
3.3f         TSP Detection Setting Device Design Drawings         Consultant         \$5,000           3.3g         Intersection Device Design Drawings         Consultant         \$12,000           9.00         S.4a         Construction Details         Consultant         \$3,500           3.4b         Design Specifications         Consultant         \$3,500           3.4c         Equipment Delivery         Consultant         \$1,500           Installation         S.5         Consultant         \$1,500           3.5a         Construction Management         Consultant         \$1,500           3.5b         Vendor System Design         Consultant         \$1,500           3.5c         Signal System Equipment Upgrades         Vendor         \$134,000           3.5d         Transit Vehicle Equipment Upgrades         Vendor         \$5,000           3.5e         Timings Deployment         DDT         \$5,000           3.5f         System Integration Testing         Consultant         \$10,000           3.5g         System Acceptance Testing         Consultant         \$10,000	
3.3f TSP Detection Setting Development Consultant Sp.000 S12,000 S12,0	
3.3f         TSP Detection Setting Development         55,000           3.2g         Intersection Device Design Drawings         Consultant         512,000           Procurement from Vendor(s)         Consultant         59,000           3.4a         Construction Details         Consultant         33,500           3.4c         Equipment Delivery         Consultant         51,500           4. Installation         Consultant         51,500           3.5a         Construction Management         Consultant         51,500           3.5c         Signal System Equipment Upgrades         Consultant         51,500           3.5c         Signal System Equipment Upgrades         Vendor         \$100,000           3.5e         Transit Vehicle Equipment Upgrades         Vendor         \$100,000           3.5e         Timings Deployment         DDOT         \$5,000           3.5f         System Integration Testing         Consultant         \$10,000           3.5g         System Acceptance Testing         Consultant         \$10,000           3.5h         Complete System Installation         Vendor         \$6,000           About the Complete System Installation         Vendor         \$6,000           Complete System Installation         Vendor	
3.3f TSP Detection Setting Development Consultant S5,000   S12,000   Procurement from Vendor(s)   Procurement from Vendor(s)   S12,000	
3.3f   TSP Detection Setting Device Design Drawings   Consultant   S5,000	
3.3f   TSP Detection Setting Development   Consultant   S5,000	
3.3f   TSP Detection Setting Development   Consultant   S5,000	
3.3f   TSP Detection Setting Development   Consultant   S12,000	
3.3f TSP Detection Setting Development (Consultant S5,000 Procurement from Vendor(s)  Procurement from Vendor(s)  3.4a Construction Details Consultant S3,500 Consultant S1,500 Installation Installatio	
3.3f TSP Detection Setting Development   S5,000   S12,000   Procurement from Vendor(s)   S12,000   A3.4a	
3.3f   TSP Detection Setting Development   S5,000   S12,000   S1	

## Metrobus TIGER Projects Corridor 3: 70s Line - Georgia Ave



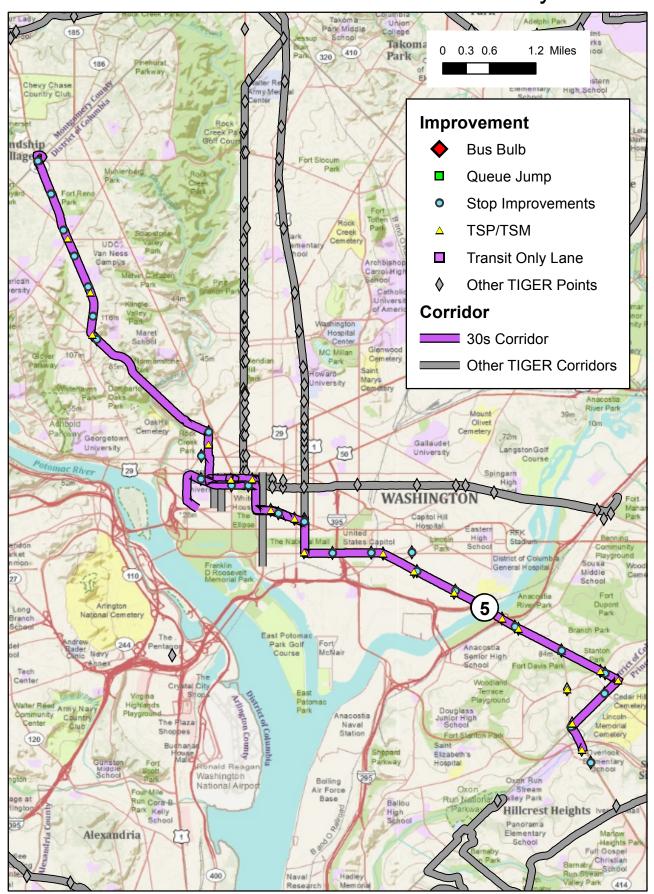
Projects funded through Transportation Investments Generating Economic Recovery (TIGER) federal grant program.

# Metrobus TIGER Projects Corridor 4: Xs Line - H Street / Benning Road



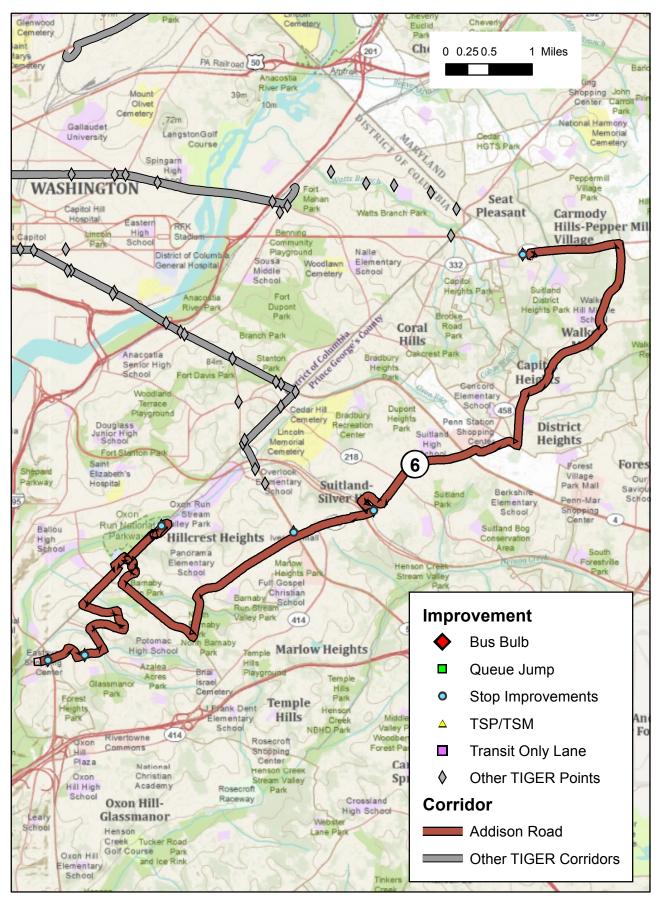
			Budget	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	1
1.0 H Stre	et/Benning Road Real-time Bus Information		\$280,000												,			<u> </u>	•	
	This project will provide real-time transit service information to users at 28																			
	locations along the corridor. Additional information useful to riders includes:																			
	service disruptions or delays, public safety announcements, public service																			
	announcements, and upcoming service changes. Note: DDOT has an existing																			
	contract that provides for the installation of shelters, including an electrical power																			
	supply to operate NextBus equipment, as one task order. Location (# of shelters)																			
1.1	13th Street NW/H Street NW (2)																			
	Next Bus Information Display	DDOT	\$20,000																	
1.2	11th Street NW/H Street NW (westbound service only) (1)																			
	Next Bus Information Display	DDOT	\$10,000																	
1.3	11th Street NW/New York Avenue NW (eastbound service only) (1)																			
	Next Bus Information Display	DDOT	\$10,000																	
1.4	7th Street NW/H Street NW (2)																			
	Next Bus Information Display	DDOT	\$20,000																	
1.5	H Street/North Capitol Street (2)																			
	Next Bus Information Display	DDOT	\$20,000																	
1.6	8th Street NE/H Street NE (2)																			
	Next Bus Information Display	DDOT	\$20,000																	
1.7	15th Street NE/Benning Road NE (2)																			
	Next Bus Information Display	DDOT	\$20,000																	
1.8	19th Street NE/Benning Road NE (2)																			
	Next Bus Information Display	DDOT	\$20,000																	
1.9	Benning Road NE/Minnesota Ave NE (2)																			
	Next Bus Information Display	DDOT	\$20,000																	
1.10	Minnesota Ave Metrorail Station (1)		440.000																	
	Next Bus Information Display (Express bus bay)	DDOT	\$10,000																	
1.11	44th Street NE/Nannie Helen Burroughs Ave NE (2)		<b>420.000</b>																	
1.12	Next Bus Information Display	DDOT	\$20,000																	
1.12	49th Street NE/Nannie Helen Burroughs Ave NE (2)	DDOT	¢20.000													l				
1 12	Next Bus Information Display	DDOT	\$20,000																	
1.13	Division NE/Nannie Helen Burroughs Ave NE (2)	DDOT	¢20.000																	
1 1 4	Next Bus Information Display	DDOT	\$20,000																	
1.14	58th Street NE/Foote Street NE (2)	DDOT	\$20,000																	
1 15	Next Bus Information Display	DDOT	\$20,000																	
1.15	62nd Street/Dix Street NE (2)  Next Bus Information Display	DDOT	\$20,000																	
1 16	· ·	וטטטו	<b>320,000</b>																	
1.16	Capitol Heights Metrorail Station (1)  Next Bus Information Display (Express bus bay)	DDOT	\$10,000																	
2.0 Emerg	gency Call Boxes at Shelters along H St / Benning Ave	2201	\$135,000																	
	This project will provide riders with emergency call boxes at shelters along the																			
	corridor. This will improve public safety and provide additional sense of security for																			
	new and existing riders in up to 12 locations to be determined in the concept of																			
	operations stage and based on input from respective police agencies.																			
	DDOT/Metropolitan Police Department and WMATA will determine the best																			
	agency to respond to calls during the concept of operations stage since there is																			
	overlap in jurisdiction. This will include a MOU between the parties involved to																			
	ensure public safety is maintained and enhanced.																			
2.1		DDOT/\4/8.4.5.4	¢10.000				l													
2.1	Establish concept of operations	DDOT/WMATA														ı				
2.2	Procure and Install boxes	DDOT/WMATA DDOT/WMATA		ľ																
2.3	Test and activate boxes																			

## Metrobus TIGER Projects Corridor 5: 30s Line - Wisconsin Ave / Pennsylvania Ave



	Avenue Real-time Bus Information	\$400,000	Budget \$400,000	
	This project will provide real-time transit service information to users at 40 locations			
	along the corridor. Additional information useful to riders includes: service disruptions			
	or delays, public safety announcements, public service announcements, and upcoming service changes. Note: DDOT has an existing contract that provides for the			
	installation of shelters, including an electrical power supply to operate NextBus			
1.1	equipment, as one task order. Location (# of shelters)			
1.1	Friendship Heights Metro Station (1)  Next Bus Information Display (Express bus bay)	DDOT	\$10,000	
1.2	Wisconsin Avenue/Fessenden St NW (2)			
1.3	Next Bus Information Display Wisconsin Ave/Albemarle St. NW (Tenleytown-AU Station) (1)	DDOT	\$20,000	
4	Next Bus Information Display (Express bus bay) Wisconsin Ave./Van Ness St NW (2)	DDOT	\$10,000	
1.4	Wisconsin Ave., van Ness St NW (2)  Next Bus Information Display	DDOT	\$20,000	
1.5	Wisconsin Ave./Porter St. NW (1)			
1.6	Next Bus Information Display Wisconsin Ave./Woodley Rd. NW (2)	DDOT	\$10,000	
	Next Bus Information Display Massachusetts Ave./Garfield St. NW (2)	DDOT	\$20,000	
1.7	Next Bus Information Display	DDOT	\$20,000	
1.8	Massachusetts Ave./20th St. NW (Dupont Circle Station) (1)	DDOT	\$10,000	
1.9	Next Bus Information Display (Express bus bay) 21st St/M St NW (2)	DDOI	\$10,000	
1.10	Next Bus Information Display south-Pennsylvania Ave./21st NW ; north-I/19th St NW (2)	DDOT	\$20,000	
	Next Bus Information Display	DDOT	\$20,000	
11	south-H St/17th St. NW; north-I/17th St NW (2)	DDOT	\$20,000	
12	Next Bus Information Display south-H St/Madison Pl. NW ; north-I/15th St. NW (2)			
	Next Bus Information Display	DDOT	\$20,000	
.13	Pennsylvania Ave./12th St NW (Federal Triangle Station) (1) Next Bus Information Display (Express bus bay)	DDOT	\$10,000	
.14	Pennsylvania Ave./7th St. NW (Archives-Navy Mem'l Penn Station) (1)			
.15	Next Bus Information Display (Express bus bay) 7th St/Independence Ave SW (2)	DDOT	\$10,000	
	Next Bus Information Display	DDOT	\$20,000	
.16	Indepdence Ave/3rd St SW (2)  Next Bus Information Display	DDOT	\$20,000	
.17	Independence Ave/1st ST SE (2)			
.18	Next Bus Information Display Pennsylvania Ave/8th St SE (Eastern Market station) (1)	DDOT	\$20,000	
	Next Bus Information Display (Express bus bay)	DDOT	\$10,000	
19	Pennsylvania Ave/Potomac Ave SE (Potomac Ave station) (1)  Next Bus Information Display (Express bus bay)	DDOT	\$10,000	
.20	Pennsylvania Ave/Minnesota Ave SE (L'Enfant Square station) (1)	DDOT		
21	Next Bus Information Display (Express bus bay) Pennslvania Ave/Branch Ave SE (2)		\$10,000	
	Next Bus Information Display	DDOT	\$20,000	
22	Pennsylvania Ave/Fort Davis St/Alabama Ave SE (2)  Next Bus Information Display	DDOT	\$20,000	
.23	Southern Ave/Suitland Rd SE (2)			
	Next Bus Information Display	DDOT	\$20,000	
1.24	Branch Ave/Southern Ave (2)			
	Next Bus Information Display	DDOT	\$20,000	
1.24	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay)	DDOT	\$10,000	
1.25	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay) Ave Transit Signal Priority	DDOT		
1.25	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay)  Ave Transit Signal Priority This project is a partnership between DDOT and WMATA designed to enhance bus	DDOT	\$10,000	
25	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay) Ave Transit Signal Priority  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal	DDOT	\$10,000	
.25	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay)  Ave Transit Signal Priority  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 5 intersections and WMATA	DDOT	\$10,000	
.25 2.0 Wisconsi	Next Bus Information Display  Naylor Road Metro Station (1)  Next Bus Information Display (Express bus bay)  Ave Transit Signal Priority  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 5 intersections and WMATA will be able to install TSP equipment on up to 12 buses.	DDOT	\$10,000 \$345,000	
.25 2.0 Wisconsi	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay)  Ave Transit Signal Priority  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 5 intersections and WMATA	DDOT	\$10,000	
2.1 2.1a 2.1b	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay)  1 Ave Transit Signal Priority  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 5 intersections and WMATA will be able to install TSP equipment on up to 12 buses.  RFP Development and Consultant Selection Acceptance Testing and Approvals Design Specifications	DDOT/WMATA Consultant/DDOT Consultant/DDOT	\$10,000 \$345,000 \$7,000 \$8,500 \$4,500	
.25 Wisconsi 2.1 2.1a 2.1b 2.1c	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay) Next Bus Information Display (Express bus bay) Next Bus Information Display (Express bus bay) Next Transit Signal Priority  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 5 intersections and WMATA will be able to install TSP equipment on up to 12 buses.  RFP Development and Consultant Selection Acceptance Testing and Approvals Design Specifications Performance Specifications Agency Coordination	DDOT/WMATA Consultant/DDOT	\$10,000 \$345,000 \$7,000 \$8,500	
2.1a 2.1a 2.1b 2.1c 2.2	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay) Next Bus Information Display (Express bus bay)  Ave Transit Signal Priority  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 5 intersections and WMATA will be able to install TSP equipment on up to 12 buses.  RFP Development and Consultant Selection Acceptance Testing and Approvals Design Specifications Performance Specifications Agency Coordination Agency Coordination	DDOT/WMATA Consultant/DDOT Consultant/DDOT Consultant/DDOT	\$10,000 \$345,000 \$7,000 \$8,500 \$4,500 \$1,500 \$3,500	
2.1 2.1a 2.1b 2.1c 2.2a 2.2b 2.2c 2.2c	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay) Next Bus Information Display (Express bus bay) Next Bus Information Display (Express bus bay) Next Transit Signal Priority  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 5 intersections and WMATA will be able to install TSP equipment on up to 12 buses.  RFP Development and Consultant Selection Acceptance Testing and Approvals Design Specifications Performance Specifications Agency Coordination	DDOT/WMATA Consultant/DDOT Consultant/DDOT Consultant/DDOT	\$10,000 \$345,000 \$7,000 \$8,500 \$4,500 \$1,500	
2.1 2.1a 2.1b 2.1c 2.2c 2.2a 2.2b 2.2c 2.3	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay) Next Bus Information Display (Express bus bay)  Ave Transit Signal Priority  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 5 intersections and WMATA will be able to install TSP equipment on up to 12 buses.  RFP Development and Consultant Selection Acceptance Testing and Approvals Design Specifications Performance Specifications Agency Coordination Stakeholder Workshop Intergovernmental Agreements/Memorandums of Understanding Signal System Design	DDOT/WMATA Consultant/DDOT Consultant/DDOT Consultant WMATA/Consultant WMATA/DDOT	\$7,000 \$345,000 \$7,000 \$8,500 \$4,500 \$1,500 \$3,500 \$3,500 \$3,500	
2.1 2.1a 2.1b 2.1c 2.2c 2.2b 2.2c 2.3 2.3a 2.2b	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay) Next Bus Information Display (Express bus bay)  Ave Transit Signal Priority  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 5 intersections and WMATA will be able to install TSP equipment on up to 12 buses.  RFP Development and Consultant Selection Acceptance Testing and Approvals Design Specifications Performance Specifications Agency Coordination Agency Coordination Stakeholder Workshop Intergovernmental Agreements/Memorandums of Understanding Signal System Design Prelininary Scoping of Intersections Field Review for System Requirements	DDOT/WMATA Consultant/DDOT Consultant/DDOT Consultant/DDOT Consultant WMATA/Consultant WMATA/DDOT DDOT DDOT	\$10,000 \$345,000 \$7,000 \$8,500 \$4,500 \$1,500 \$3,500 \$3,500 \$3,500 \$1,500 \$4,500	
2.1 2.1a 2.1b 2.1c 2.2 2.2a 2.2b 2.2c 2.3 2.3a 2.2b 2.3c 2.2b 2.3c 2.3c 2.3c 2.3c 2.3c 2.3c 2.3c 2.3c	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay) Next Bus Information Display (Express bus bay)  Ave Transit Signal Priority  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 5 intersections and WMATA will be able to install TSP equipment on up to 12 buses.  RFP Development and Consultant Selection Acceptance Testing and Approvals Design Specifications Performance Specifications Performance Specifications Agency Coordination Stakeholder Workshop Intergovernmental Agreements/Memorandums of Understanding Signal System Design Prelininary Scoping of Intersections Field Review for System Requirements Scope Refinement	DDOT/WMATA Consultant/DDOT Consultant/DDOT Consultant/DDOT WMATA/Consultant WMATA/DDOT DDOT Consultant/DDOT Consultant/DDOT	\$10,000 \$345,000 \$7,000 \$8,500 \$4,500 \$1,500 \$3,500 \$3,500 \$3,500 \$4,500 \$4,500 \$4,500 \$4,500 \$4,500 \$4,500	
2.1 2.1a 2.1b 2.1c 2.2c 2.2s 2.2b 2.3c 2.3d 2.3d 2.3d 2.3d 2.3d 2.3d 2.3d 2.3d	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay) Next Bus Information Display (Express bus bay)  Ave Transit Signal Priority  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 5 intersections and WMATA will be able to install TSP equipment on up to 12 buses.  RFP Development and Consultant Selection Acceptance Testing and Approvals Design Specifications Performance Specifications Agency Coordination Stakeholder Workshop Intergovernmental Agreements/Memorandums of Understanding Signal System Design Prelininary Scoping of Intersections Field Review for System Requirements Scope Refinement Existing Signal Timing Review TSP Timing Development	DDOT/WMATA Consultant/DDOT Consultant/DDOT Consultant/DDOT WMATA/Consultant WMATA/DDOT DDOT DDOT Consultant/DDOT	\$7,000 \$8,500 \$8,500 \$1,500 \$3,500 \$3,500 \$3,500 \$1,500 \$4,500 \$1,500 \$2,000 \$6,500	
2.1 2.1a 2.1b 2.1c 2.2c 2.2d 2.2b 2.2c 2.3 2.3d 2.3d 2.3e 2.3f 2.3f 2.3f 2.3f 2.3f 2.3f 2.3f 2.3f	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay) Next Bus Information Display (Express bus bay)  Ave Transit Signal Priority  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 5 intersections and WMATA will be able to install TSP equipment on up to 12 buses.  RFP Development and Consultant Selection Acceptance Testing and Approvals Design Specifications Performance Specifications Performance Specifications Agency Coordination Stakeholder Workshop Intergovernmental Agreements/Memorandums of Understanding Signal System Design Prelininary Scoping of Intersections Field Review for System Requirements Scope Refinement Existing Signal Timing Review TSP Timing Development TSP Detection Setting Development	DDOT/WMATA Consultant/DDOT Consultant/DDOT Consultant/DDOT Consultant WMATA/Consultant WMATA/DDOT DDOT DDOT Consultant/DDOT	\$7,000 \$345,000 \$7,000 \$8,500 \$4,500 \$1,500 \$3,500 \$3,500 \$3,500 \$4,500 \$4,500 \$2,000 \$6,500 \$4,500 \$4,500	
2.10 Wisconsis 2.11 2.12 2.12 2.12 2.22 2.22 2.23 2.33 2.3	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay) Next Bus Information Display (Express bus bay)  Ave Transit Signal Priority  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 5 intersections and WMATA will be able to install TSP equipment on up to 12 buses.  RFP Development and Consultant Selection Acceptance Testing and Approvals Design Specifications Performance Specifications Agency Coordination Stakeholder Workshop Intergovernmental Agreements/Memorandums of Understanding Signal System Design Prelininary Scoping of Intersections Field Review for System Requirements Scope Refinement Existing Signal Timing Review TSP Timing Development	DDOT/WMATA Consultant/DDOT Consultant/DDOT Consultant/DDOT WMATA/Consultant WMATA/DDOT DDOT DDOT Consultant/DDOT	\$7,000 \$345,000 \$8,500 \$4,500 \$1,500 \$3,500 \$3,500 \$3,500 \$1,500 \$4,500 \$1,500 \$4,500 \$4,500 \$4,500 \$4,500 \$4,500 \$4,500	
.1	Next Bus Information Display  Naylor Road Metro Station (1)  Next Bus Information Display (Express bus bay)  1 Ave Transit Signal Priority  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 5 intersections and WMATA will be able to install TSP equipment on up to 12 buses.  RFP Development and Consultant Selection  Acceptance Testing and Approvals  Design Specifications  Performance Specifications  Agency Coordination  Stakeholder Workshop Intergovernmental Agreements/Memorandums of Understanding  Signal System Design  Prelininary Scoping of Intersections  Field Review for System Requirements  Scope Refinement  Existing Signal Timing Review  TSP Timing Development  TSP Detection Setting Development  Intersection Device Design Drawings  Procurement from Vendor(s)  Construction Details	DDOT/WMATA Consultant/DDOT Consultant/DDOT Consultant WMATA/Consultant WMATA/Consultant ODOT DDOT DDOT Consultant/DDOT	\$10,000 \$345,000 \$7,000 \$8,500 \$4,500 \$1,500 \$3,500 \$3,500 \$3,500 \$4,500 \$4,500 \$2,000 \$6,500 \$4,500 \$8,500	
2.1 2.1a 2.1b 2.1c 2.2c 2.2a 2.2b 2.2c 2.3 2.3d 2.3d 2.3d 2.3f 2.3g 2.4	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay)  Ave Transit Signal Priority  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 5 intersections and WMATA will be able to install TSP equipment on up to 12 buses.  RFP Development and Consultant Selection Acceptance Testing and Approvals Design Specifications Performance Specifications Performance Specifications Agency Coordination Stakeholder Workshop Intergovernmental Agreements/Memorandums of Understanding Signal System Design Prelininary Scoping of Intersections Field Review for System Requirements Scope Refinement Existing Signal Timing Review TSP Timing Development TSP Detection Setting Development Intersection Device Design Drawings Procurement from Vendor(s)	DDOT/WMATA Consultant/DDOT Consultant/DDOT Consultant/DDOT DDOT DDOT Consultant/DDOT	\$7,000 \$345,000 \$8,500 \$4,500 \$1,500 \$3,500 \$3,500 \$3,500 \$1,500 \$4,500 \$1,500 \$4,500 \$4,500 \$4,500 \$4,500 \$4,500 \$4,500	
2.1 2.1a 2.1b 2.1c 2.2c 2.2d 2.2b 2.2c 2.3d 2.3e 2.3f 2.3e 2.3f 2.3e 2.4c 2.4c 2.4c 2.4c 2.5	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay) Next Bus Information Display (Express bus bay)  Ave Transit Signal Priority  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will be to DDOT will be able to upgrade up to 5 intersections and WMATA will be able to install TSP equipment on up to 12 buses.  RFP Development and Consultant Selection Acceptance Testing and Approvals Design Specifications Performance Specifications Performance Specifications Agency Coordination Stakeholder Workshop Intergovernmental Agreements/Memorandums of Understanding  Signal System Design Prelininary Scoping of Intersections Field Review for System Requirements Scope Refinement Existing Signal Timing Review TSP Timing Development TSP Detection Setting Development Intersection Device Design Drawings Procurement from Vendor(s) Construction Details Design Specifications Equipment Delivery Installation	DDOT/WMATA Consultant/DDOT Consultant/DDOT Consultant WMATA/Consultant WMATA/Consultant WMATA/DDOT DDOT DDOT Consultant/DDOT Consultant	\$10,000 \$345,000 \$7,000 \$8,500 \$1,500 \$3,500 \$3,500 \$1,500 \$4,500 \$1,500 \$4,500 \$4,500 \$4,500 \$4,500 \$5,500 \$4,500 \$1,500	
2.1 2.1a 2.1b 2.1c 2.2 2.2a 2.2b 2.2c 2.3 2.3d 2.3e 2.3f 2.3g 2.4 2.4a 2.4b 2.4c	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay) Next Bus Information Display (Express bus bay)  Ave Transit Signal Priority  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 5 intersections and WMATA will be able to install TSP equipment on up to 12 buses.  RFP Development and Consultant Selection Acceptance Testing and Approvals Design Specifications Performance Specifications Performance Specifications Agency Coordination Stakeholder Workshop Intergovernmental Agreements/Memorandums of Understanding Signal System Design Prelininary Scoping of Intersections Field Review for System Requirements Scope Refinement Existing Signal Timing Review TSP Timing Development TSP Detection Setting Development Intersection Device Design Drawings Procurement from Vendor(s) Construction Details Design Specifications Equipment Delivery	DDOT/WMATA Consultant/DDOT Consultant/DDOT Consultant/DDOT Consultant WMATA/Consultant WMATA/DDOT DDOT Consultant/DDOT	\$10,000 \$345,000 \$7,000 \$8,500 \$4,500 \$1,500 \$3,500 \$3,500 \$1,500 \$4,500 \$4,500 \$4,500 \$4,500 \$4,500 \$5,500 \$4,500	
2.1 2.1a 2.1b 2.1c 2.2c 2.2a 2.2b 2.3c 2.3d 2.3e 2.3f 2.3e 2.4b 2.4c 2.4c 2.5 2.5a 2.5b 2.5c 2.5b 2.5c	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay) Next Bus Information Display (Express bus bay)  Ave Transit Signal Priority  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 5 intersections and WMATA will be able to install TSP equipment on up to 12 buses.  RFP Development and Consultant Selection Acceptance Testing and Approvals Design Specifications Performance Specifications Agency Coordination Stakeholder Workshop Intergovernmental Agreements/Memorandums of Understanding Signal System Design Prelininary Scoping of Intersections Field Review for System Requirements Scope Refinement Existing Signal Timing Review TSP Timing Development Intersection Device Design Drawings Procurement from Vendor(s) Construction Details Design Specifications Equipment Delivery Installation Construction Management Vendor System Design Signal System Equipment Upgrades	DDOT/WMATA Consultant/DDOT Consultant/DDOT Consultant/DDOT Consultant/DDOT DDOT Consultant/DDOT	\$10,000 \$345,000 \$7,000 \$8,500 \$4,500 \$1,500 \$3,500 \$3,500 \$3,500 \$1,500 \$4,500 \$4,500 \$4,500 \$4,500 \$3,000 \$1,200 \$3,000 \$1,200 \$1,500	
2.1 2.1a 2.1b 2.1c 2.2 2.2b 2.2c 2.3 2.3a 2.3b 2.3c 2.3f 2.3e 2.4 2.4b 2.4c 2.5 2.5a 2.5b	Next Bus Information Display  Naylor Road Metro Station (1)  Next Bus Information Display (Express bus bay)  Ave Transit Signal Priority  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 5 intersections and WMATA will be able to install TSP equipment on up to 12 buses.  RFP Development and Consultant Selection  Acceptance Testing and Approvals  Design Specifications  Performance Specifications  Performance Specifications  Agency Coordination  Stakeholder Workshop Intergovernmental Agreements/Memorandums of Understanding  Signal System Design  Prelininary Scoping of Intersections  Field Review for System Requirements  Scope Refinement  Existing Signal Timing Review  TSP Timing Development  TSP Detection Setting Development  Intersection Device Design Drawings  Procurement from Vendor(s)  Construction Details  Design Specifications  Equipment Delivery  Installation  Construction Management  Vendor System Design	DDOT/WMATA Consultant/DDOT Vendor/DDOT Vendor/WMATA DDOT	\$10,000 \$345,000 \$7,000 \$8,500 \$4,500 \$1,500 \$3,500 \$3,500 \$1,500 \$4,500 \$4,500 \$4,500 \$4,500 \$3,500 \$1,500 \$1,500 \$2,000 \$4,500 \$3,500 \$1,500	
2.1 2.1a 2.1b 2.1c 2.2c 2.2a 2.2b 2.2c 2.3d 2.3d 2.3d 2.3d 2.3d 2.3d 2.3d 2.3e 2.5d 2.5d 2.5d 2.5d 2.5d 2.5d 2.5d 2.5d	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay)  Ave Transit Signal Priority  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will linvest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 5 intersections and WMATA will be able to install TSP equipment on up to 12 buses.  RFP Development and Consultant Selection Acceptance Testing and Approvals Design Specifications Performance Specifications Agency Coordination Agency Coordination Agency Coordination Stakeholder Workshop Intergovernmental Agreements/Memorandums of Understanding Signal System Design Prelininary Scoping of Intersections Field Review for System Requirements Scope Refinement Existing Signal Timing Review TSP Timing Development TSP Detection Setting Development Intersection Device Design Drawings Procurement from Vendor(s) Construction Device Design Drawings Procurement from Vendor(s) Construction Management Vendor System Design Signal System Equipment Upgrades Transit Vehicle Equipment Upgrades Transit Vehicle Equipment Upgrades Timings Deployment System Intergration Testing	DDOT/WMATA Consultant/DDOT Vendor/DDOT Vendor/DDOT Vendor/WMATA DDOT Consultant/DDOT	\$10,000 \$345,000 \$3,500 \$4,500 \$1,500 \$3,500 \$3,500 \$3,500 \$4,500 \$4,500 \$4,500 \$4,500 \$4,500 \$4,500 \$1,500 \$1,500 \$1,200 \$3,000 \$1,500	
2.1 2.1a 2.1b 2.1c 2.2c 2.2d 2.2b 2.2c 2.3d 2.3d 2.3e 2.2b 2.3c 2.3d 2.3e 2.25 2.5c 2.5d 2.5d 2.5c 2.5d 2.5d 2.5d 2.5d 2.5d 2.5d 2.5d 2.5d	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay) Next Bus Information Display (Express bus bay)  Ave Transit Signal Priority  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will be alve to install TSP equipment on up to 12 buses.  RFP Development and Consultant Selection Acceptance Testing and Approvals Design Specifications Performance Specifications Performance Specifications Agency Coordination Stakeholder Workshop Intergovernmental Agreements/Memorandums of Understanding Signal System Design Prelininary Scoping of Intersections Field Review for System Requirements Scope Refinement Existing Signal Timing Review TSP Timing Development TSP Detection Setting Development Intersection Device Design Drawings Procurement from Vendor(s) Construction Details Design Specifications Equipment Delivery Installation Construction Details Design System Design Signal System Design Transit Vehicle Equipment Upgrades Transit Vehicle Equipment Upgrades Timings Deployment	DDOT/WMATA Consultant/DDOT Vendor/DDOT Vendor/WMATA DDOT	\$10,000 \$345,000 \$7,000 \$8,500 \$4,500 \$1,500 \$3,500 \$3,500 \$1,500 \$4,500 \$4,500 \$4,500 \$4,500 \$3,500 \$1,500 \$1,500 \$2,000 \$4,500 \$3,500 \$1,500	
2.1 2.1a 2.1b 2.1c 2.2 2.2a 2.2b 2.3c 2.3d 2.3e 2.3d 2.3e 2.4b 2.4c 2.5 2.5c 2.5d 2.5e 2.5f 2.5f 2.5e 2.5f 2.5f 2.5e 2.5f 2.5e 2.5f 2.5f 2.5e 2.5f 2.5f 2.5f 2.5f 2.5f 2.5f 2.5f 2.5f	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay)  Next Bus Information Display (Express bus bay)  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 5 intersections and WMATA will be able to install TSP equipment on up to 12 buses.  RFP Development and Consultant Selection Acceptance Testing and Approvals Design Specifications Performance Specifications Agency Coordination Stakeholder Workshop Intersections Field Review for System Requirements/Memorandums of Understanding Signal System Design Preliniary Scoping of Intersections Field Review for System Requirements Scope Refinement Existing Signal Timing Review TSP Timing Development TSP Detection Setting Development Intersection Device Design Drawings Procurement from Vendor(s) Construction Details Design Specifications Equipment Delivery Installation Construction Management Vendor System Design Signal System Equipment Upgrades Transit Vehicle Equipment Upgrades Timings Deployment System Integration Testing System Acceptance Testing Complete System Installation	DDOT/WMATA Consultant/DDOT Consultant/DDOT Consultant/DDOT Consultant/DDOT DDOT DDOT DDOT Consultant/DDOT	\$10,000 \$345,000 \$7,000 \$8,500 \$4,500 \$1,500 \$3,500 \$3,500 \$3,500 \$4,500 \$1,500 \$4,500 \$1,500 \$4,500 \$1,500 \$4,500 \$1,500 \$3,500 \$3,500 \$3,500 \$3,500 \$3,500 \$3,500 \$3,500 \$4,500 \$4,500 \$4,500 \$4,500 \$4,500 \$4,500 \$4,500 \$4,500 \$4,500 \$6,500 \$6,500 \$88,000 \$6,50	
2.1 2.1a 2.1b 2.1c 2.2c 2.2a 2.2b 2.2c 2.3d 2.3d 2.3d 2.3d 2.3d 2.3d 2.3d 2.3d	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay) Next Bus Information Display (Express bus bay)  Ave Transit Signal Priority  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 5 intersections and WMATA will be able to install TSP equipment on up to 12 buses.  RFP Development and Consultant Selection Acceptance Testing and Approvals Design Specifications Performance Specifications Agency Coordination Stakeholder Workshop Intergovernmental Agreements/Memorandums of Understanding  Signal System Design Prelininary Scoping of Intersections Field Review for System Requirements Scope Refinement Existing Signal Timing Review TSP Timing Development TSP Detection Setting Development Intersection Device Design Drawings Procurement from Vendor(s) Construction Details Design Specifications Equipment Delivery Installation Construction Management Vendor System Design Signal System Equipment Upgrades Transit Vehicle Equipment Upgrades Transit Vehicle Equipment System Intergration Testing System Acceptance Testing Complete System Installation	DDOT/WMATA Consultant/DDOT Consultant/DDOT Consultant/DDOT Consultant/DDOT DDOT DDOT DDOT Consultant/DDOT	\$10,000 \$345,000 \$3,500 \$4,500 \$1,500 \$3,500 \$3,500 \$3,500 \$4,500	
2.1 2.1a 2.1b 2.1c 2.2 2.2b 2.2c 2.3 2.3a 2.2b 2.3c 2.3d 2.3e 2.3f 2.3e 2.4b 2.4c 2.5 2.5d 2.5c 2.5d 2.5c 2.5d 2.5c 2.5d 2.5e 2.5f 2.5g 2.5h 2.5c 2.5d 2.5e 2.5f 2.5g 2.5h 2.5c 2.5d 2.5e 2.5d 2.5d 2.5e 2.5d 2.5d 2.5e 2.5d 2.5d 2.5d 2.5d 2.5d 2.5d 2.5d 2.5d	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay)  Ave Transit Signal Priority  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 5 intersections and WMATA will be able to install TSP equipment on up to 12 buses.  RFP Development and Consultant Selection Acceptance Testing and Approvals Design Specifications Performance Specifications Performance Specifications Agency Coordination Stakeholder Workshop Intergovernmental Agreements/Memorandums of Understanding Signal System Design Prelininary Scoping of Intersections Field Review for System Requirements Scope Refinement Existing Signal Timing Review TSP Timing Development TSP Detection Setting Development Intersection Device Design Drawings Procurement from Vendor(s) Construction Details Design Specifications Equipment Delivery Installation Construction Management Vendor System Design Signal System Equipment Upgrades Transit Wehicle Equipment Upgrades Timings Deployment System Intergration Testing System Acceptance Testing Complete System Installation Develop Performance Metrics Before Data Collection After Data Collection	DDOT/WMATA Consultant/DDOT Consultant/DDOT Consultant/DDOT Consultant/DDOT DDOT DDOT DDOT Consultant/DDOT Consultant	\$10,000 \$345,000 \$7,000 \$8,500 \$4,500 \$1,500 \$3,500 \$3,500 \$1,500 \$4,500 \$1,500 \$4,500 \$1,500 \$4,500 \$1,500 \$4,500 \$1,500 \$4,500 \$1,500 \$5,000 \$5,000 \$5,000 \$1,200	
2.1 2.1a 2.1b 2.1c 2.2 2.2a 2.2b 2.3c 2.3d 2.3e 2.3d 2.3e 2.3f 2.3e 2.45 2.4c 2.4b 2.4c 2.5 2.5c 2.5d 2.5e 2.5f 2.5e 2.5f 2.5e 2.5f 2.5e 2.5f 2.5e 2.5f 2.5e 2.5d 2.6e 2.6e 2.6d 2.6e 2.6d 2.6e 2.6d 2.6c 2.6d 2.6d 2.6c 2.6d 2.6d 2.6c 2.6d 2.6d 2.6d 2.6d 2.6d 2.6d 2.6d 2.6d	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay)  Ave Transit Signal Priority  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will invest in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 5 intersections and WMATA will be able to install TSP equipment on up to 12 buses.  RFP Development and Consultant Selection Acceptance Testing and Approvals Design Specifications Performance Specifications Performance Specifications Agency Coordination Stakeholder Workshop Intergovernmental Agreements/Memorandums of Understanding Signal System Design Preliniany Scoping of Intersections Field Review for System Requirements Scope Refinement Existing Signal Timing Review TSP Timing Development TSP Detection Setting Development Intersection Device Design Drawings Procurement from Vendor(s) Construction Details Design Specifications Equipment Delivery Installation  Construction Management Vendor System Design Signal System Equipment Upgrades Transit Vehicle Equipment Upgrades Timings Deployment System Intergration Testing System Acceptance Testing Complete System Installation  Performance Evaluation Develop Performance Metrics Before Data Collection After Data Collection Data Analysis and Reporting Documentation	DDOT/WMATA Consultant/DDOT Consultant/DDOT Consultant/DDOT Consultant/DDOT DDOT DDOT DDOT Consultant/DDOT Vendor/DDOT Consultant/DDOT Vendor/DDOT Consultant/DDOT Consultant/DDOT Consultant/DDOT Consultant/DDOT Consultant/DDOT Consultant/DDOT Consultant	\$10,000 \$345,000 \$7,000 \$8,500 \$4,500 \$1,500 \$3,500 \$3,500 \$3,500 \$4,500 \$4,500 \$4,500 \$4,500 \$4,500 \$4,500 \$4,500 \$4,500 \$4,500 \$4,500 \$4,500 \$4,500 \$6,500 \$3,600 \$6,500	
2.1 2.1a 2.1b 2.1c 2.2c 2.2d 2.2b 2.2c 2.3d 2.3d 2.3d 2.3d 2.3d 2.3d 2.3d 2.3d	Next Bus Information Display Naylor Road Metro Station (1) Next Bus Information Display (Express bus bay) Next Bus Information Display (Express bus bay)  Ave Transit Signal Priority  This project is a partnership between DDOT and WMATA designed to enhance bus movement along the corridor. DDOT will invest in signal and signal systems upgrades and WMATA will breat in bus-based equipment designed to interact with DDOT signal system infrastructure. DDOT will be able to upgrade up to 5 intersections and WMATA will be able to install TSP equipment on up to 12 buses.  RFP Development and Consultant Selection Acceptance Testing and Approvals Design Specifications Performance Specifications Performance Specifications Performance Specifications Agency Coordination Stakeholder Workshop Intergovernmental Agreements/Memorandums of Understanding Signal System Design Prelininary Scoping of Intersections Field Review for System Requirements Scope Refinement Existing Signal Timing Review TSP Timing Development TSP Detection Setting Development Intersection Device Design Drawings Procurement from Vendor(s) Construction Details Design Specifications Equipment Delivery Installation Construction Management Vendor System Design Signal System Equipment Upgrades Transit Vehicle Equipment Upgrades Transit Vehicle Equipment Tygrades Timings Deployment System Intergration Testing System Acceptance Testing Complete System Installation Performance Evaluation Develop Performance Metrics Before Data Collection Data Analysis and Reporting Documentation Signal System Design Tech memo	DDOT  DDOT/WMATA Consultant/DDOT Consultant	\$10,000 \$345,000 \$7,000 \$8,500 \$4,500 \$1,500 \$3,500 \$3,500 \$1,500 \$4,500 \$4,500 \$4,500 \$3,000 \$1,200 \$3,000 \$1,200 \$3,000 \$1,500 \$3,000 \$1,500 \$3,000 \$1,500 \$3,000 \$1,500 \$3,000 \$1,500 \$3,000 \$1,500 \$3,000 \$1,500	
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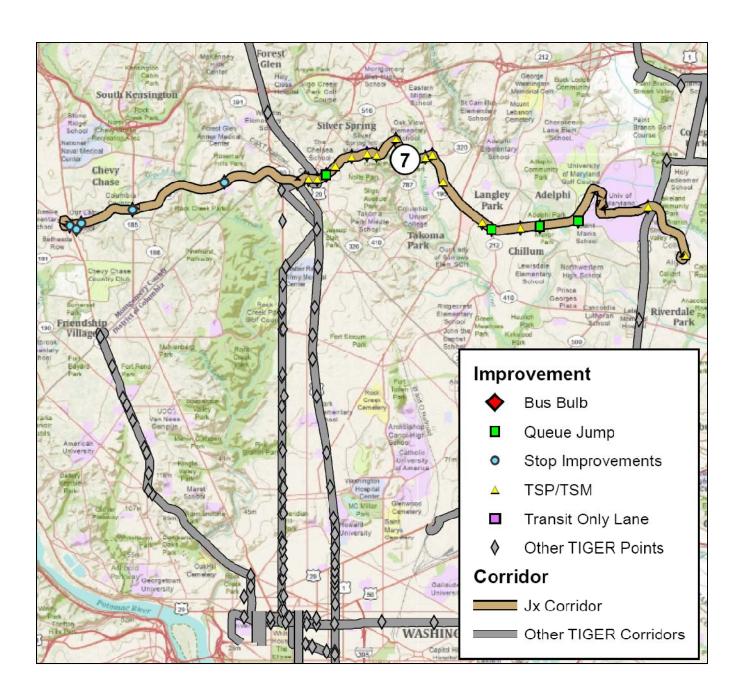
## Metrobus TIGER Projects Corridor 6: P12 Line - Addison Road



### 6 -- Addison Road TIGER Grant Project 5/12/2010

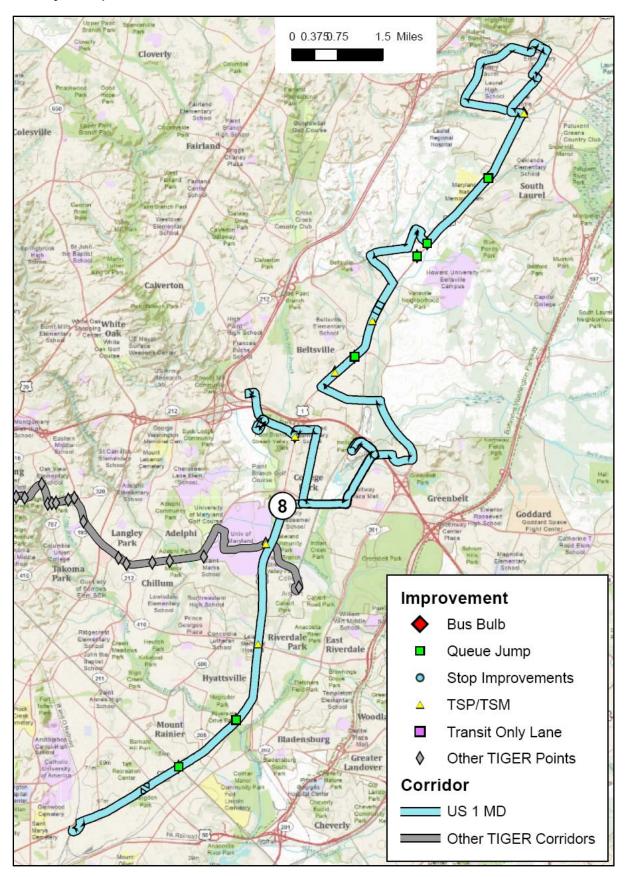
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Subsidies   Subs	9.2 Bus Bay 8 - rehab shetter and replace square hole and metal head 9.3 Bus Bay C - rehab shetter and replace square hole and metal head 9.4 Bus Bay D - rehab shetter and replace square hole and metal head 9.5 Bus Bay E - rehab shetter and replace square hole and metal head 9.6 WMATA \$1,500 9.5 Bus Bay E - rehab shetter and replace square hole and metal head 9.6 WMATA \$1,500 9.5 Bus Bay E - rehab shetter and replace square hole and metal head 9.6 WMATA \$1,500 9.6 Bus Bay A - replace missing shetter pannel and install Nest Bus 9.6 WMATA \$5,500 9.7 Bus Bay B - replace missing shetter pannel and install Nest Bus 9.6 WMATA \$5,500 9.7 Bus Bay I - install Nest Bus 9.8 Bus Bay I - install N	.0 Addison Road Metro Station			\$7,500																4
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Southern Avenue Metro Station	Southern Avenue Metro Station																				
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10.3   Bus Bay C - replace missing shelter pannel and install Next Bus   WMATA   S6,500     10.4   Bus Bay H - install Next Bus   WMATA   S5,000     10.5   Bus Bay L - install Next Bus   WMATA   S6,500     10.6   Bus Bay K - replace missing shelter pannel and install Next Bus   WMATA   S6,500     10.7   Bus Bay L - install Next Bus   WMATA   S6,500     10.8   Bus Bay M - install Next Bus   WMATA   S6,000     10.9   Electrical work for NextBus   WMATA   S8,000     10.10   Pepco Electrical work   Country   S8,000     11.0   Construction Administration (5% of line Item grant)   S20,000     12.0   Engineering/design (10% of line Item grant)   S20,000     13.10   Contingency Costs   S3,500	10.3   Bus Bay C - replace missing shelter pannel and install Next Bus   WMATA   \$5,500     10.4   Bus Bay H - Install Next Bus   WMATA   \$5,000     10.5   Bus Bay J - Install Next Bus   WMATA   \$5,000     10.6   Bus Bay L - install Next Bus   WMATA   \$5,500     10.7   Bus Bay L - Install Next Bus   WMATA   \$5,000     10.8   Bus Bay M - Install Next Bus   WMATA   \$5,000     10.9   Electrical Work for NextBus   WMATA   \$8,000     10.10   Pepco Electrical Work for NextBus   County   \$8,000     11.0   Construction Administration (5% of line item grant)   \$10,000     12.0   Engineering/design (10% of line item grant)   \$20,000     13.0   Contingency Costs   \$3,500																				1
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10.5   Bus Bay J - install Next Bus   WMATA   \$5,000   WMATA   \$5,000	10.5   Bus Bay J - install Next Bus   WMATA   \$5,000     10.6   Bus Bay K - replace missing shelter pannel and install Next Bus   WMATA   \$6,500     10.7   Bus Bay L - install Next Bus   WMATA   \$5,000     10.8   Bus Bay M - install Next Bus   WMATA   \$5,000     10.9   Electrical work for NextBus   WMATA   \$8,000     10.10   Pepco Electrical work   County   \$8,000     11.0   Construction Administration (5% of line item grant)   \$10,000     12.0   Engineering/design (10% of line item grant)   \$20,000     13.0   Contingency Costs   \$3,500	The state of the s																			1
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10.7   Bus Bay L - install Next Bus   WMATA   \$5,000	10.7   Bus Bay L - install Next Bus   WMATA   \$5,000     10.8   Bus Bay M - install Next Bus   WMATA   \$5,000     10.9   Electrical work for NextBus   WMATA   \$8,000     10.10   Pepco Electrical work   County   \$8,000     10.10   Construction Administration (5% of line item grant)   \$10,000     12.0   Engineering/design (10% of line item grant)   \$20,000     13.0   Contingency Costs   \$3,500	•																			
10.8   Bus Bay M - install Next Bus   WMATA   \$5,000	10.8   Bus Bay M - install Next Bus   WMATA   \$5,000																				1
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### **University Boulevard Project Map:**



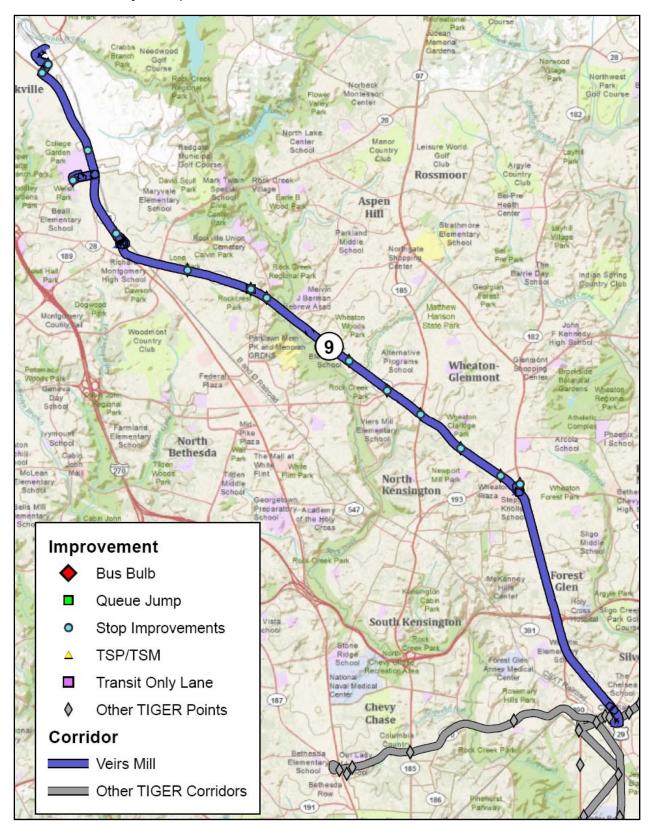
AD TIGER Grant Project											
Overall Tasks Project Management		Agency Lead	WMATA Budget	TIGER Budget \$0	2010 May June July Aug Sep Oct Nov Dec	2011 Jan Feb Mar Apr May June July Aug Sep Oct Nov De	2012 c Jan Feb Mar Apr May June July Aug Sep Oct Nov Dec	2013 Jan Feb Mar Apr May June July Aug Sep Oct Nov De	2014 c Jan Feb Mar Apr May June July Aug Sep Oct Nov Dec	2015 c Jan Feb Mar Apr May June July Aug Sep Oct Nov De	2016 Jan Feb Mar Apr May June July Aug Sep
Reporting To COG (.5%) (SHA) Project Management (WMATA)	blish administrative process	COG		\$0 \$0 \$0							
WMATA Board approval Grant obligated Construction Administration (WMATA)		WMATA FTA		\$0 \$0							
Engineering/design (WMATA) Contingency Costs (WMATA)				\$0 \$0							
University Boulevard- Queue Jumps (4 location (\$245,000); Transit Signal Priority (\$315,000)	ty Rouleyard Queue Jumps			\$1,262,000							
Wayne Avenue/Fenton Street - County Inter Planning Environmental Review	section Queue Jump	WMATA Consultant County	WMATA Cost	\$624,650 \$130,000 \$10,000							
Design County Review		WMATA Consultant County	WMATA Cost	\$20,000							
Project Management Construction (Includes Utility Relocation) University Boulevard/West Park Drive Queue Planning	(On-site construction inspection and management)	County		\$10,000 \$90,000 <b>\$273,400</b>							
Planning Environmental Review Design		WMATA Consultant SHA WMATA Consultant	WMATA Cost WMATA Cost	\$5,000							
SHA Review SHA Project Management	Review of signal plans and geometric improvement plans	SHA		\$50,000							
Construction (Includes Utility Relocation)	(On-site construction inspection and management) Scope- Signal mod. and Geometric Improvements on the E. Leg	SHA SHA		\$10,400 \$208,000							
University Boulevard/Riggs Road Queue Jum Planning Environmental Review		WMATA Consultant SHA	WMATA Cost	\$118,000 \$5,000							
Design SHA Review	Review of signal plans and geometric improvement plans, SHA has surveys	WMATA Consultant SHA	WMATA Cost	\$50,000							
SHA Project Management Construction (Includes Utility Relocation)	(On-site construction inspection and management) Scope: Signal and Geometric Improvements	SHA SHA		\$3,000 \$60,000							
Adelphi Road/Campus Drive Queue Jump Planning Environmental Review		WMATA Consultant SHA	WMATA Cost	\$103,250 \$5,000							
Design SHA Review	Review of signal plans and geometric improvement plans	WMATA Consultant SHA	WMATA Cost	\$30,000							
SHA Project Management  Construction (Includes Utility Relocation)	(On-site construction inspection and management) Scope- Signal Mod. and minor Geometric Improvements on the S. Leg	SHA SHA		\$3,250 \$65,000							<u>                                       </u>
	Soulevard Stop Improvements			\$42,500							
Montgomery Avenue/Waverly Street EB	Retaining Wall Extended Concrete Pad	County County		\$10,000 \$2,000							
Montgomery Avenue/Waverly Street EB  East-West Highway/Connecticut Avenue EB	Install Map in 3 new shelters	WMATA		\$2,500							
	Install Concrete Pad Install Shelter Install map in Shelter	County County WMATA		\$2,000 \$5,000 \$1,000							
East-West Highway/Grubb Road EB	Install Information Case Replace Stop Pole and Head	County County		\$1,000 \$1,000							
East-West Highway/Grubb Road WB	Replace Concrete Pad Replace sidewalk and curb ramps to ADA specs	County County		\$2,000 \$10,000							
	Install Information Case Replace Concrete Shelter Pad and Connection To Hiker Biker rsity Boulevard NextBus	County		\$1,000 \$5,000 <b>\$245,000</b>							
Bethesda Metrorail Station	Next Bus Information Display (Express bus bay) Electrical work for NextBus	WMATA WMATA		\$5,000 \$1,000							
Montgomery Avenue/Waverly Street	Pepco Electrical work	County		\$1,000							
	Next Bus Information Display Electrical work for NextBus Pepco Electrical work	WMATA WMATA County		\$10,000 \$2,000 \$2,000							
East-West Hwy/Connecticut Ave	Next Bus Information Display Electrical work for NextBus	WMATA WMATA		\$10,000 \$2,000							
East-West Hwy/Grubb Road	Pepco Electrical work  Next Bus Information Display	County		\$2,000							
Silver Spring Metro Station	Electrical work for NextBus Pepco Electrical work	WMATA County		\$2,000 \$2,000							
	Next Bus Information Display (Express bus bay) Electrical work for NextBus Pepco Electrical work	WMATA WMATA County		\$5,000 \$1,000 \$1,000							
Wayne Ave/Fenton Street	Next Bus Information Display Electrical work for NextBus	WMATA WMATA		\$10,000 \$2,000							
Wayne Ave/Manchester Road	Pepco Electrical work  Next Bus Information Display	County		\$2,000 \$2,000 \$10.000							
	Next Bus information Display Electrical work for NextBus Pepco Electrical work	WMATA County		\$2,000 \$2,000							
Manchester Rd/Bradford Road	Next Bus Information Display Electrical work for NextBus	WMATA WMATA		\$10,000 \$2,000							
Piney Branch/Arliss	Pepco Electrical work  Next Bus Information Display	County		\$2,000 \$10,000							
University Blvd/Piney Branch	Electrical work for NextBus Pepco Electrical work	WMATA County		\$2,000 \$2,000							
	Next Bus Information Display Electrical work for NextBus Pepco Electrical work	WMATA WMATA County		\$10,000 \$2,000 \$2,000							
University Blvd/Merrimac Dr	Next Bus Information Display Electrical work for NextBus	WMATA WMATA		\$10,000 \$2,000							
University Blvd/Anne St	Pepco Electrical work  Next Bus Information Display	County		\$2,000 \$10,000							
Univerrsity Blvd/New Hampshire Ave	Electrical work for NextBus Pepco Electrical work	WMATA County		\$2,000 \$2,000							
University Bivd/New Hampshire Ave	Next Bus Information Display Electrical work for NextBus	WMATA WMATA		\$10,000 \$2,000							
University Blvd/15th Ave	Pepco Electrical work  Next Bus Information Display	County		\$2,000 \$10,000							
University Blvd/Riggs Rd	Electrical work for NextBus Pepco Electrical work	WMATA County		\$2,000 \$2,000							
L THE MARKET	Next Bus Information Display Electrical work for NextBus Pepco Electrical work	WMATA WMATA County		\$10,000 \$2,000 \$2,000							
Campus Dr/Presidential Lane	Next Bus Information Display Electrical work for NextBus	WMATA WMATA		\$10,000 \$2,000							
Campus Dr/Libirary Lane	Pepco Electrical work  Next Bus Information Display	County		\$2,000							
Campus Dr/Regents Dr	Next Bus Information Display Electrical work for NextBus Pepco Electrical work	WMATA WMATA County		\$10,000 \$2,000 \$2,000							
ampus orynogens tri	Next Bus Information Display Electrical work for NextBus	WMATA WMATA County		\$10,000 \$2,000							
College Park Metro Station	Pepco Electrical work  Next Bus Information Display (Express bus bay)	WMATA		\$2,000 \$5,000							
	Electrical work for NextBus Pepco Electrical work  0 Locations) 315K Coordination with County will be required	WMATA County		\$1,000 \$1,000 <b>\$349,850</b>							
Signal System Design Preliminary Scoping of Ir Field Review for System	tersections Requirements	SHA		\$50,000							
Scope Refinement Existing Signal Timing Re TSP Timing Development	view										
TSP Detection Setting De Intersection Device Desig Timings Deployment	velopment										
Procurement Construction Details Design Specifications		SHA		\$25,000							
Equipment Delivery Installation Construction Manageme	at a	SHA		\$274,850							
Vendor System Design Signal System Equipmen	Upgrades	14.04A=-									
Transit Vehicle Equipmer System acceptance Testi System Intregration Test	ng ing	WMATA									
Complete System Install: Performance Evaluation Develop Performance M	ition	WMATA	WMATA Cost								
Before Data Collection After Data Collection Data Analysis and Repor											
Documentation Signal System Design Tec Pefformance Evaluation	h memo Tech memo	WMATA	WMATA Cost								
System Deployment Tecl Final Report Lessons Learned	nmemo										
otal Line Item Budget  otal Available through TIGER Grant			•	\$1,262,000 \$1,262,000		•	•		•		
Transact through right Grant				yx,202,000							

### **US 1 Project Map:**



Overall Tasks										
		Agency Lead	WMATA Budget	TIGER Budget	2010 May June July Aug Sen, Oct Nov Dec	2011 Ian Feh Mar Anr May June July Aug Sen Oct Nov Dec	2012 Jan Feb Mar Apr May June July Aug Sep Oct Nov Dec	2013	2014	2015
Project Management		Agency Lead	WWATA Budget	\$37,445	Ividy suite stary Aug Sep Oct 1404 Bee	Jan 165 Mai Apr May June July Aug 365 Oct 1404 Bee	Jan Teb Mai Api May June July Aug Sep Oct Nov Bee	Jan 100 Mai Api Maysune Jany Aug 300 Oct Nov Bee	Jan Teb Mai Api MayJane Jany Aug Sep Oct Nov Bee	Jan Teb Mai Api MayJune July Aug Sep C
Reporting To COG (.5%) (SHA)		COG		\$28,855						
Project Management (WMATA)				\$8,590						
	nent/Establish administrative p	WMATA		\$0						
WMATA Board a		WMATA		\$0						
Grant obligated		FTA		\$0						
Construction Administration (WMATA	ra)			\$14,318						
Engineering/design (WMATA)				\$14,318						
Contingency Costs (WMATA)				\$1,579						
US Route 1 (MD) Transit Signal Priorit										
Queue Jumps (6 locations) (\$517,340)				4000 000						
US Route 1 (MD) Transit Signal Pri	riority (7 total) (\$220,000);	SHA		\$220,000 \$10,000						
Vendor approvals	sting and Approvals	эпа		\$10,000						
Design Specifica										
Performance Spi		WMATA	WMATA Cost							
Agency Coordination	pecinicadoris	*********	***************************************							
Signal System Design		SHA		\$40,000						
	oping of Intersections									
	r System Requirements									
Scope Refineme	ent									
Existing Signal Ti										
TSP Timing Deve										
	Setting Development				1					
	evice Design Drawings				ĺ					
Timings Deployn	ment			¢20.000	1					
Procurement Construction Do	etaile	SHA		\$20,000	ĺ					
Construction De					1					
Design Specifica Equipment Deliv					ĺ					
Installation	IVCI Y	SHA		\$150,000	1					
Construction Ma	1anagement	31 IA		\$130,000	ĺ					
	Equipment Upgrades				1					
	Equipment Upgrades	WMATA			ĺ					
System acceptar					ĺ					
System Intregral					ĺ					
Complete Syster	em Installation				ĺ					
Performance Evaluation	1	WMATA Consultant	WMATA Cost		ĺ					
Develop Perform	mance Metrics		•							
Before Data Coll										
After Data Collec					ĺ					
Data Analysis an					ĺ					
Documentation		WMATA Consultant	WMATA Cost							_
	Design Tech memo	1	ı							
	aluation Tech memo									
Final Report	ment Tech memo									
Lessons Learned	d									
US 1 Queue Jumps				\$517,340						
Contee Road				\$181,340						
Planning	1.		WMATA Cost							
	1	WMATA Consultant								
Environmental Review		SHA		\$5,000						
Design	WMATA	SHA WMATA Consultant	WMATA Cost							
Design SHA Review	WMATA Review of signal plans	SHA WMATA Consultant SHA		\$35,000						
Design	WMATA Review of signal plans (On-site construction ins	SHA WMATA Consultant SHA								
Design SHA Review	WMATA Review of signal plans (On-site construction ins	SHA WMATA Consultant SHA		\$35,000						
Design SHA Review SHA Project Management	WMATA Review of signal plans (On-site construction ins	SHA WMATA Consultant SHA SHA		\$35,000 \$6,731						
Design SHA Review SHA Project Management Construction (Includes Utility Relocati	WMATA Review of signal plans (On-site construction ins Scope- Full Signal tion) reconstruct and minor	SHA WMATA Consultant SHA SHA		\$35,000 \$6,731 \$134,609						
Design SHA Review SHA Project Management Construction (Includes Utility Relocati Muirkirk Meadows Road	WMATA Review of signal plans (On-site construction ins Scope- Full Signal tion) reconstruct and minor	SHA WMATA Consultant SHA SHA SHA WMATA Consultant SHA	WMATA Cost	\$35,000 \$6,731 \$134,609		3				
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### Veirs Mill Road Project Map:



### MD TIGER Grant Project

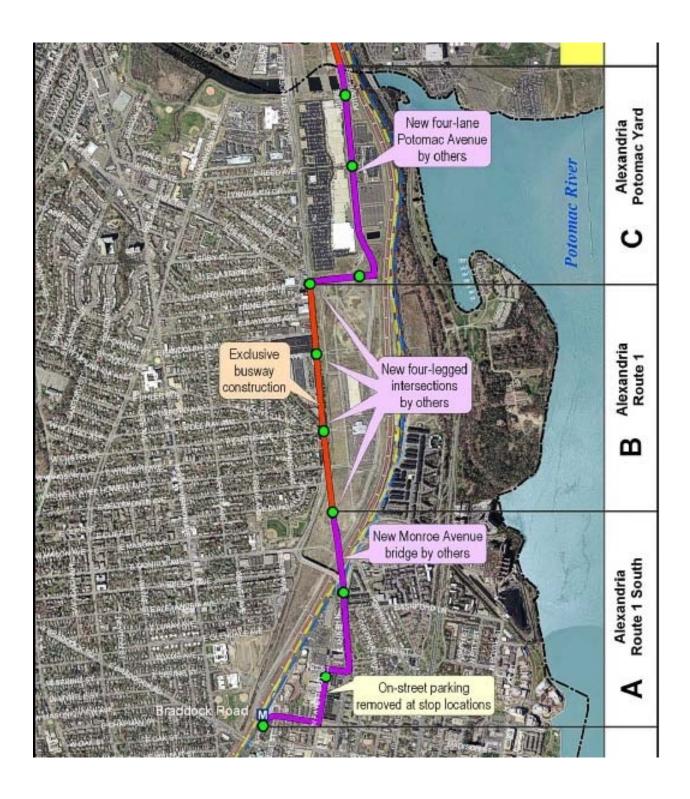
Total Available through TIGER Grant

Overall Tasks	Agency Lead	WMATA Budget	TIGER Budget	2010 May June July Aug Sep Oct Nov Dec	2011 Jan Feb Mar Apr May June July Aug Sep Oct Nov Dec	2012 Jan Feb Mar Apr May June July Aug Sep Oct Nov De	2013 c Jan Feb Mar Apr May June July Aug Sep Oct
Project Management			\$32,515				
Reporting To COG (.5%) (SHA)	COG		\$25,055				
Project Management (WMATA)	COG		\$7,460				
MOU Development/Establish administrative process	WMATA		\$0				
WMATA Board approval	WMATA		\$0				
Grant obligated	FTA		\$0				
	117		ψŪ				
Construction Administration (WMATA)			\$12,432				
Engineering/design (WMATA)			\$12,432				
Contingency Costs (WMATA)			\$1,371				
/eirs Mill Road Queue Jumps (1 location) \$65,000 (revise to \$31K);							
NextBus (\$175,000)			\$206,250				
Atlantic Avenue Queue Jump			\$31,250				
Planning	WMATA Consultant		\$0				
Design	WMATA Consultant		\$0				
SHA Review Review of Traffic Models, Signal Mod. Design	SHA		\$5,000				
SHA Project Managem (On-site construction inspection and management)	SHA		\$1,250				
Construction (Include: Scope - Signal Modification	SHA		\$25,000				<u> </u>
Veirs Mill Road NextBus			\$175,000				
Shade Grove Metrorail Station							
Next Bus Information Display (Express bus bay)	WMATA		\$5,000				
Electrical work for NextBus	WMATA		\$1,000				
Pepco Electrical work	County	1	\$1,000				
rederick Road/Redland Road	•		•				
Next Bus Information Display	WMATA		\$10,000				
Electrical work for NextBus	WMATA		\$2,000				
Pepco Electrical work	County		\$2,000				
Frederick Road/College Parkway	County	1	⊋∠,UUU				
			440.000				
Next Bus Information Display	WMATA		\$10,000				
Electrical work for NextBus	WMATA		\$2,000				
Pepco Electrical work	County		\$2,000				
Montgomery College							
Next Bus Information Display	WMATA		\$10,000				
Electrical work for NextBus	WMATA		\$2,000				
Pepco Electrical work	County		\$2,000				
Rockville Metrorail Station	,		. ,				
Next Bus Information Display (Express bus bay)	WMATA		\$5,000				
Electrical work for NextBus	WMATA		\$1,000				
Pepco Electrical work	County		\$1,000				
/eirs Mill Road/Edmonston Drive							
Next Bus Information Display	WMATA		\$10,000				
Electrical work for NextBus	WMATA		\$2,000				
Pepco Electrical work	County		\$2,000				
/eirs Mill Road/Atlantic Avenue							
Next Bus Information Display	WMATA		\$10,000				
Electrical work for NextBus	WMATA		\$2,000				
Pepco Electrical work	County		\$2,000				
/eirs Mill Road/Twinbrook Parkway	County		\$2,000				
Next Bus Information Display	WMATA		\$10,000				
• •							
Electrical work for NextBus	WMATA		\$2,000				
Pepco Electrical work	County		\$2,000				
/eirs Mill Road/Parkland Drive		1					
Next Bus Information Display	WMATA		\$10,000				
Electrical work for NextBus	WMATA		\$2,000				
Pepco Electrical work	County	1	\$2,000				
/eirs Mill Road/Randolph Road		1					
Next Bus Information Display	WMATA	1	\$10,000				
Electrical work for NextBus	WMATA		\$2,000				
Pepco Electrical work	County		\$2,000				
/eirs Mill Road/Connecticut Avenue	200	1	Ç2,000				
Next Bus Information Display	WMATA		\$10,000				
Electrical work for NextBus	WMATA		\$10,000				
		1					
Pepco Electrical work	County	1	\$2,000				
/eirs Mill Road/Newport Mill road		1					
Next Bus Information Display	WMATA		\$10,000				_
Electrical work for NextBus	WMATA		\$2,000				
Pepco Electrical work	County		\$2,000				
/eirs Mill Road/University Boulevard	•		•				
Next Bus Information Display	WMATA	1	\$10,000				
Electrical work for NextBus	WMATA	1	\$2,000				
Pepco Electrical work	County		\$2,000				
Wheaton Metrorail Station							
Next Bus Information Display (Express bus bay)	WMATA		\$5,000				
Electrical work for NextBus	WMATA		\$1,000				
Pepco Electrical work			\$1,000				

\$265,000

### Project 10 – US 1 (VA) Transitway

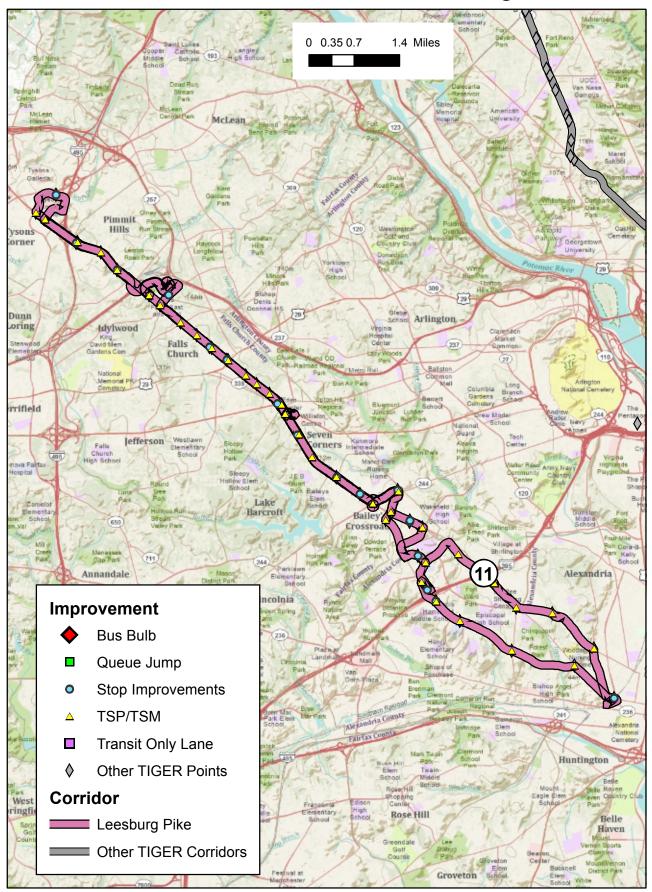
Segment B is the area funded by the TIGER grant



### Alexandria TIGER Grant US-1 Transitway

			I	1	2010				-	2011					2012			1			2013			T		20	014		$\overline{}$
Overall Tasks	Agency Lead	Budget	Grant Source	May June	July Aug Se	ep Oct	Nov Dec Ja	an Feb Mar	Apr May Ju	ne July Aug	Sep Oct N	Nov Dec Ja	n Feb M	ar Apr Ma	av June July	Aug Sep	Oct Nov I	Dec Jan Fe	b Mar	Apr May J	une July	Aug Sep C	ct Nov De	ec Jan Feb	Mar Apr	May June	July Aug	Sep Oct	Nov Dec
US Route 1 Transitway Construction E. Glebe - Monroe Ave	ÿ ,									, ,										i li i									
Environmental Assessment																													
	WMATA Consultant	\$300,000	RSTP																										
City's BID Coordination																													$\Box\Box$
Develop Scope for PE, Design, and Build Bid	City of Alexandria	\$0																											
Issue Bid & Award Decision Via City Procurement & VDOT	City of Alexandria	\$0																											
																										<u> </u>		ШШ'	
Preliminary Engineering	City of Alexandria / Consultant	\$100,000	Section 5309 FTA																							<u> </u>		ШШ'	
City Project Management	City of Alexandria	\$400,000	Section 5309 FTA																							Ш_'	Ш_	Ш_'	
Final Design	Contractor	\$355,520	Section 5309 FTA																							ШЦ'	Ш_'	Ш_'	
Contingency	City of Alexandria	\$344,480	Section 5309 FTA																							ШЦ'	<b>└</b>	<u> </u>	
																										<b>Ш</b> '	<u> </u>	<b>└</b>	
TIGER GRANT PORTION OF PRIECT																										<b>Ш</b> '	<u> </u>	<b>└</b>	
MWCOG Program Administration (5%)	MWCOG	\$425,000	TIGER																							<u> </u>	<u></u>	<b>└</b>	
Consultant Project Management	City of Alexandria / Consultant	\$100,000	TIGER																							<b>↓</b> ↓↓'	<b>└</b>	<b>┴</b>	
Design/Build								$\bot$																		<b>↓</b> ↓↓'	<b>└</b>	<b>┴</b>	
Final Design	Contractor	\$400,000	TIGER					$\bot$																		<b>↓</b> ↓↓'	<b>└</b>	<b>┴</b>	
Site Prep & Mobilization	Contractor	\$503,734	TIGER					$\bot$					$\bot$													<b>↓</b> ↓↓'	<b>└</b>	<b>┴</b>	
Utility Installation & Relocation	Contractor	\$329,958	TIGER																							<b>┴</b>	<b>└</b>	<b>┴</b> ——'	
Storm Sewer Installation	Contractor	\$1,490,708	TIGER																							<b>┴</b>	<b>└</b>	<b>┴</b> ——'	
Curb & Gutter / Concrete / Pavement Installation	Contractor	\$3,483,385	TIGER																							<b>┴</b>	<b>└</b>	<b>┴</b> ——'	
Signals & Lighting	Contractor	\$1,055,835	TIGER																							<b>┴</b>	<b>└</b>	<b>┴</b>	-
Landscaping	Contractor	\$424,527	TIGER					+														_				<del></del> -	<del></del> '	₩	
Contingency	City of Alexandria	\$286,852						+																		<del></del> -	<del></del> '	₩	
Total TIGER		\$8,500,000		1																					<del>                                     </del>	<del></del> '	<del></del> '	<del></del> '	
0 1 10 0	City of Alice and City	£2.672.000	CALLO STATE	+						+		+	+	+										+	+	<del></del> '	<b>├</b>	<b>├</b> —'	
Construct Stations	City of Alexandria	\$2,673,000	CMAQ or FTA Earmarks					+																		<del></del> '	<del></del>	<del></del> '	-
Transitway Operational		\$0								+		-	++	++		+		_							<del>                                     </del>	<del></del> '	<del></del>	<del></del> '	$\overline{}$
		7.7																											
Total Line Item Budget		\$12,673,000																											
Total Assilable through TICED Crant		¢0 F00 000																								_	_	_	
Total Available through TIGER Grant		\$8,500,000																											

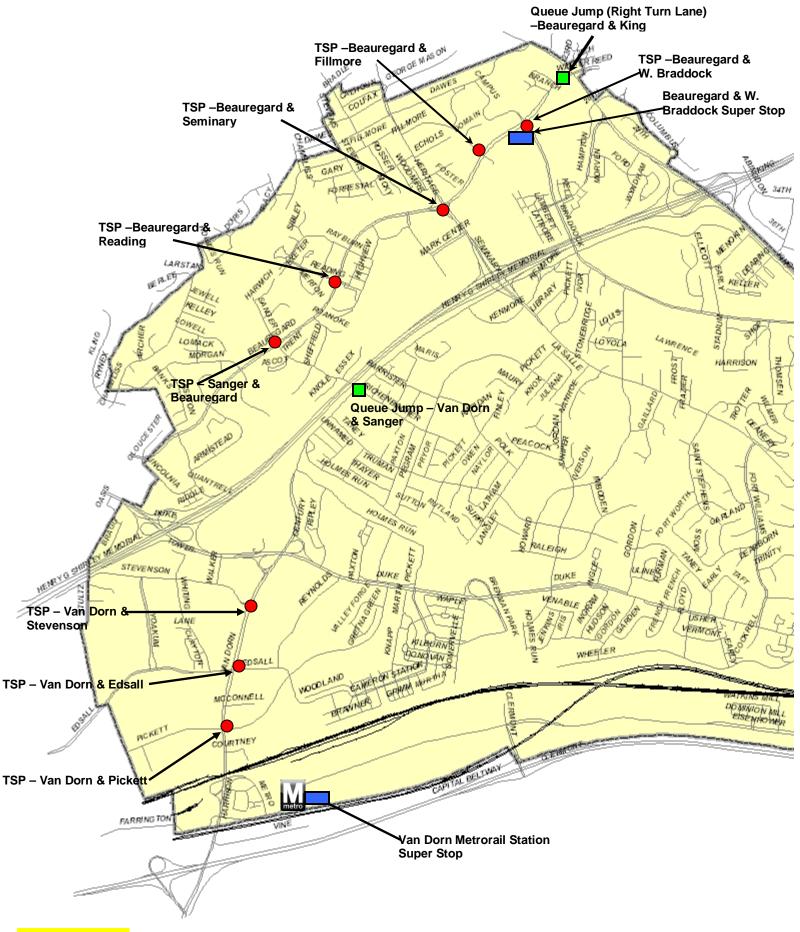
## Metrobus TIGER Projects Corridor 11: 28A/B Line - Leesburg Pike



#### 11 -- Route 7 (VA) TIGER Grant Project

5/12/2010

5/12/2010				June, 2010	July, 2010	August, 2010	September, 2010	October, 2010	November, 2010	December, 2010	January, 2011	February, 2011	March, 2011	April, 2011	May, 2011	June, 2011	July, 2011	August, 2011	September, 2011
	erall Tasks	Agency Lead	Budget	7 14 21 28		2 9 16 23 30			1 8 15 22 29				7 14 21 28		2 9 16 23 30			1 8 15 22 29	5 12 19 26
	Project Management		\$67,000																
1.1	Project Management (5% of line item. To COG)	COG	\$67,000																
1.2 1.3	Progress Reports  MOU Development/Establish administrative process	COG WMATA																	
1.4	WMATA Board approval	WMATA																	
1.5	Grant obligated	FTA																	
2.0	Leesburg Pike NextBus		\$189,000																
2.1	King Street Metro																		
	2.1a Next Bus Information Display (Express bus bay)	WMATA	\$5,000																
	2.1b Electrical work for NextBus	WMATA	\$1,000																
2.2	2.1c Dominion Electrical work Seminary Road/Kenmore Avenue	County	\$1,000																
2.2	2.2a Next Bus Information Display	WMATA	\$10,000																
	2.2b Electrical work for NextBus	WMATA	\$1,000																
	2.2c Dominion Electrical work	County	\$1,000																
2.3	Southern Towers																		
	2.3a Next Bus Information Display 2.3b Electrical work for NextBus	WMATA WMATA	\$10,000 \$1,000																
	2.3c Dominion Electrical work	County	\$1,000																
2.4	Fillmore Avenue/S. Campus Drive	County	ψ1,000																
	2.4a Next Bus Information Display	WMATA	\$10,000																
	2.4b Electrical work for NextBus	WMATA	\$1,000									[							
3.5	2.4c Dominion Electrical work	County	\$1,000	]															
2.5	S. George Mason Drive/Three Skyline Place  2.5a Next Bus Information Display	WMATA	\$10,000	]															
	2.5b Electrical work for NextBus	WMATA	\$10,000	]															
	2.5c Dominion Electrical work	County	\$1,000																
2.6	Leesburg Pike/Jefferson Street																		
	2.6a Next Bus Information Display	WMATA	\$10,000																
	2.6b Electrical work for NextBus 2.6c Dominion Electrical work	WMATA County	\$1,000 \$1,000																
2.7	Columbia Pike/Carlin Springs Road	County	\$1,000																
2.,	2.7a Next Bus Information Display	WMATA	\$10,000																
	2.7b Electrical work for NextBus	WMATA	\$1,000																
	2.7c Dominion Electrical work	County	\$1,000																
2.8	Leesburg Pike/Payne Street		4																
	2.8a Next Bus Information Display 2.8b Electrical work for NextBus	WMATA WMATA	\$10,000 \$1,000																
	2.8c Dominion Electrical work	County	\$1,000																
2.9	Leesburg Pike/Glen Carlyn Road		7-,																
	2.9a Next Bus Information Display	WMATA	\$10,000																
	2.9b Electrical work for NextBus	WMATA	\$1,000																
2.10	2.9c Dominion Electrical work	County	\$1,000																
2.10	Leesburg Pike/Patrick Henry Drive  2.10a Next Bus Information Display	WMATA	\$10,000																
	2.10b Electrical work for NextBus	WMATA	\$1,000																
	2.10c Dominion Electrical work	County	\$1,000																
2.11	Seven Corners Transit Center																		
	2.11a Next Bus Information Display	WMATA	\$5,000																
	2.11b Electrical work for NextBus 2.11c Dominion Electrical work	WMATA County	\$1,000 \$1,000																
2.12	Broad Street/Washington Street	County	ψ1,000																
	2.12a Next Bus Information Display	WMATA	\$10,000	]															
	2.12b Electrical work for NextBus	WMATA	\$1,000																
2.12	2.12c Dominion Electrical work	County	\$1,000	]															
2.13	Broad Street/Virginia Avenue  2.13a Next Bus Information Display	WMATA	\$10,000																
	2.13b Electrical work for NextBus	WMATA	\$1,000	]															
	2.13c Dominion Electrical work	County	\$1,000																
2.14	West Falls Church Metro		4	]															
	2.14a Next Bus Information Display (Express bus bay)	WMATA	\$5,000	]															
	2.14b Electrical work for NextBus 2.14c Dominion Electrical work	WMATA County	\$1,000 \$1,000																
2.15	Leesburg Pike/Pimmit Drive	Country	Ç1,000	]															
	2.15a Next Bus Information Display	WMATA	\$10,000																
	2.15b Electrical work for NextBus	WMATA	\$1,000																
2.45	2.15c Dominion Electrical work	County	\$1,000																
2.16	Leesburg Pike/Ramada Road  2.16a Next Bus Information Display	WMATA	\$10,000	]															
	2.16b Electrical work for NextBus	WMATA	\$1,000																
	2.16c Dominion Electrical work	County	\$1,000	]															
2.17	Tysons Corner Transit Center																		
	2.17a Next Bus Information Display	WMATA	\$10,000	]															
	2.17b Electrical work for NextBus	WMATA	\$1,000																
3.0	2.17c Dominion Electrical work  Leesburg Pike Transit Signal Priority	County	\$1,000 \$883,000																
3.1	Vendor approvals		3003,000																
3.1	3.1a Acceptance Testing and Approvals	Vendor	\$2,500																
	3.1b Design Specifications	Vendor	\$2,500																
-										·	=	-	-	=	-	- '	- '		-



Attachment A
Map of Van Dorn – Beauregard Transit Improvements

**Red** = Transit Signal Priority (TSP)

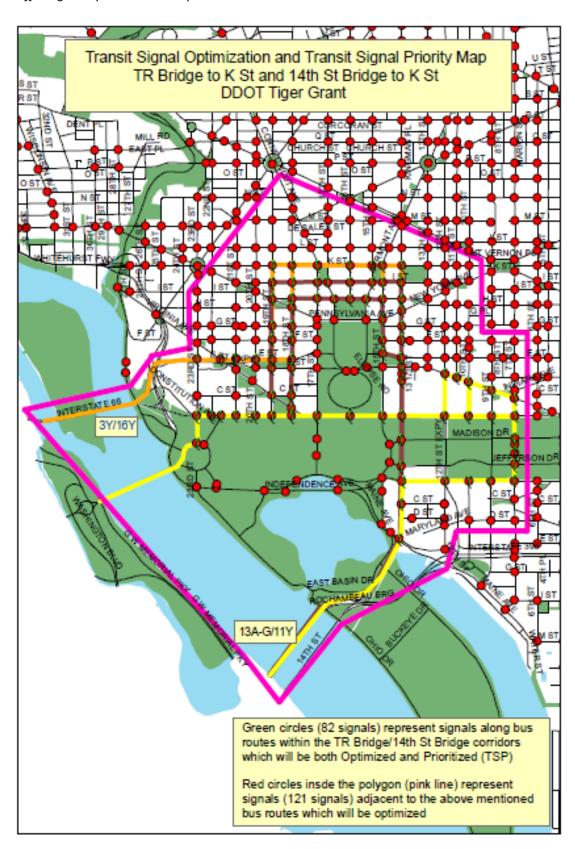
**Blue = Super Stop** 

**Green = Queue Jump Lane** 

### City of Alexandria Van Dorn / Beauregard TIGER Grant Project

				2010	2011	2012	2013
Overall Tasks	Agency Lead	Budget	Grant Source	May June July Aug Sep Oct Nov Dec	Jan Feb Mar Apr May June July Aug Sep Oct Nov Dec	Jan Feb Mar Apr May June July Aug Sep Oct Nov Dec	Jan Feb Mar Apr May June July Aug Sep Oct Nov Dec
Project Management		\$33,500					
City of Alexandria T&ES Staff Project Management - Entire Project	City of Alexandria	(staff time / regular pay)	City of Alexandria				
MWCOG Program Administration (5%)	MWCOG	\$33,500	TIGER				
Van Dorn / Beauregard Transit Signal Priority (8 total)		\$395,350					
Survey and Study of Sites							
Scoping of Intersections	City of Alexandria	\$0					
Develop Design Specifications	City of Alexandria	\$0					
Develop Performance Specifications	City of Alexandria	\$0					
TSP Timing Development	City of Alexandria	\$0					
TSP Detection Setting Development	City of Alexandria	\$0					
Procurement							
TSP Scope Detail	City of Alexandria	\$0					
Selction	City of Alexandria	\$0					
Equipment + Delivery	Vendor	\$164,350	TIGER				
Installation							'
TSP Traffic Signal Installation & Testing	City of Alexandria	\$181,000	TIGER				
Installation of Bus Transmitters	WMATA / City of Alexandria	\$50,000	TIGER				
Complete System Installation	WMATA / City of Alexandria	\$0					
Performance Evaluation							
Develop Performance Metrics	City of Alexandria	\$0					
Before Data Collection	City of Alexandria	\$0					
After Data Collection	City of Alexandria	\$0 \$0					
Data Analysis and Reporting	City of Alexandria	\$0					
Documentation							
Signal System Design Tech memo	City of Alexandria	\$0					
Peformance Evaluation Tech memo	City of Alexandria	\$0					
System Deployment Tech memo	City of Alexandria	\$0					
Final Report	City of Alexandria	\$0					
Lessons Learned	City of Alexandria	\$0 \$0					
		7-					
Super Stops - 2 locations (Van Dorn Metrorail Station & N. Beauregard & W. Braddock Road)		402.000					
Planning, Design, and Preliminary Engineering	WMATA / City of Alexandria	<b>\$92,800</b> \$22,000	TIGER	_			
Environmental Review	City of Alexandria	\$2,000	TIGER				
Develop Scope for Projects	City of Alexandria	\$0					
Develop Procurement Documents	City of Alexandria	\$0					
Procurement of Shelters + Solar Packages + Real Time Bus Information Signs	City of Alexandria	\$54,800	TIGER				
Installation of Shelters and Concrete Pads	Contractor	\$14,000	TIGER				
Queue Jump Lanes - 2 locations (N. Beauregard & King Street + Van Dorn & Sanger Ave) - Right Turn Lanes		\$148,350					
Planning, Design, and Preliminary Engineering	City of Alexandria / Consultant	\$39,650	TIGER				
Environmental Review	City of Alexandria / Consultant	\$3,000	TIGER				
Develop Scope for Projects / Procurement	City of Alexandria	\$3,000	HOLK				
Installation / Restriping / Reconfigure Right Turn Lanes / Modify & Adjust Gutter Pans	City of Alexandria / Contractor	\$100,000	TIGER				
Signal Timing Adjustment	City of Alexandria	\$5,700	TIGER				
Total Line Item Budget		\$670,000					
		\$670,000					
Total Available through TIGER Grant		\$670,000					

Traffic Signal Optimization Map

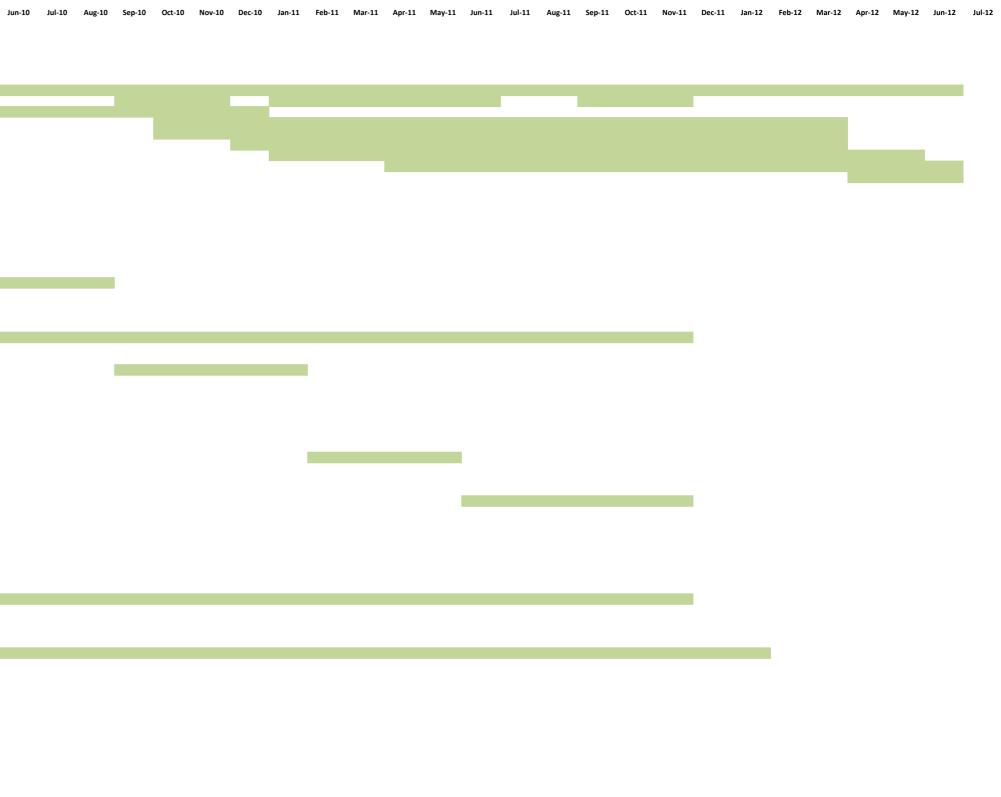


1.0	TD Bridge 4	o K St - Traffic Signal Optimization		\$493,000
1.0	TK Bridge t	ο K St - Traπic Signal Optimization		\$493,000
		This project will allow DDOT to optimize the signal system from the TR Bridge to K St via		
		E St, 18th St, and 19th St. This will improve bus movement along the corridor leading		
		to the downtown core. A map of the intersections is provided in the scope.		
		to the downtown core. A map of the intersections is provided in the scope.		
1.1			DDOT	
	1.1a	Project Management / Coordination		\$30,000
	1.1b	Data Collection		\$247,000
	1.1c	Evaluation of Clearance intervals		\$30,000
	1.1d	Volume Balancing		\$40,000
	1.1e	Network Setup		\$40,000
	1.1f	Timing Plan Development and Optimization		\$40,000
	1.1g	Timing Plan Implementation		\$22,000
	1.1h	Project Evaluation		\$22,000
		•		
	1.1i	Project Documentation		\$22,000
		Note: Will improve approximately 261 intersections.		4
2.0	TR Bridge t	o K St - Transit Signal Priority		\$1,207,000
		This project is a partnership between DDOT and WMATA designed to enhance bus		
		movement along the corridor. DDOT will invest in signal and signal systems upgrades		
		and WMATA will invest in bus-based equipment designed to interact with DDOT signal		
		system infrastructure. DDOT will be able to upgrade up to 24 intersections and WMATA		
		will be able to install TSP equipment on up to 30 buses.		
2.1		RED Davidonment and Consultant Colorian	DDOT/MAATA	\$24,140
2.1	2.1-	RFP Development and Consultant Selection	DDOT/WMATA	. ,
	2.1a	Acceptance Testing and Approvals	Consultant/DDOT	\$30,175
	2.1b	Design Specifications	Consultant/DDOT	\$15,088
	2.1c	Performance Specifications	Consultant/DDOT	\$6,035
2.2		Agency Coordination		
	2.2a	Agency Coordination	Consultant	\$12,070
	2.2b	Stakeholder Workshop	WMATA/Consultant	\$12,070
	2.2c	Intergovernmental Agreements/Memorandums of Understanding	WMATA/DDOT	\$12,070
2.3		Signal System Design		
	2.3a	Prelininary Scoping of Intersections	DDOT	\$4,526
	2.3b	Field Review for System Requirements	DDOT	\$15,088
	2.3c	Scope Refinement	Consultant/DDOT	\$4,526
	2.3d	Existing Signal Timing Review	Consultant/DDOT	\$7,544
	2.3e	TSP Timing Development	Consultant/DDOT	\$22,631
	2.3f	TSP Detection Setting Development	Consultant/DDOT	\$15,088
	2.3g	Intersection Device Design Drawings	Consultant/DDOT	\$30,175
2.4		Procurement from Vendor(s)		
	2.4a	Construction Details	Consultant/DDOT	\$27,158
	2.4b	Design Specifications	Consultant/DDOT	\$10,561
	2.4c	Equipment Delivery	Consultant	\$4,526
2.5		Installation		
	2.5a	Construction Management	Consultant/DDOT	\$18,105
	2.5b	Vendor System Design	Consultant/DDOT	\$4,526
	2.5c	Signal System Equipment Upgrades	Vendor/DDOT	\$401,328
	2.5d	Transit Vehicle Equipment Upgrades	Vendor/WMATA	\$286,663
	2.5e	Timings Deployment	DDOT	\$30,175
	2.5e 2.5f			
		System Intregration Testing	Consultant/DDOT	\$22,631
	2.5g	System Acceptance Testing	Consultant/DDOT	\$22,631
	2.5h	Complete System Installation	Vendor/DDOT	\$18,105
2.6		Performance Evaluation		
	2.6a	Develop Performance Metrics	Consultant	\$12,070
	2.6b	Before Data Collection	Consultant	\$22,631
	2.6c	After Data Collection	Consultant	\$22,631
	2.6d	Data Analysis and Reporting	Consultant	\$24,140
2.7		Documentation		
	2.7a	Signal System Design Tech memo	Consultant	\$15,088
	2.7b	Performance Evaluation Tech memo	Consultant	\$15,088
	2.7c	System Deployment Tech memo	Consultant	\$15,088
	2.7d	Final Report	Consultant	\$15,088
	2.7u 2.7e	·	Consultant	\$15,088
	2.76	Lessons Learned	CONSUITABLE	544,74

Uninterruptible Power Supplies (UPS) function as a separate source to maintain a continuous supply of electricity whenever commercial power is not available and thus prevent traffic signals from going dark or into the flashing mode following power interruptions. Maintaining the signals' red-yellow-green operation reduces the problems with traffic congestion and safety. Interruption of power is a common phenomenon in the District and therefore installation of UPS devices at the critical intersections in select corridors would improve overall bus operations as well.

TOTAL TIGER GRANT AWARD - TR BRIDGE TO K ST BUS PRIORITY IMPROVEMENTS

\$1,800,000



				Budget							
1.0	14th St Brid	dge to K St - Traffic Signal Optimization		\$1,233,000							
		This project will allow DDOT to optimize the signal system from the 14th St Bridge to K St									
		via 14th St. This will improve bus movement along the corridor leading to the									
		downtown core. A map of the intersections is provided in the scope.									
1.1			DDOT								
	1.1a	Project Management / Coordination	5501	\$45,000							
	1.1b	Data Collection		\$563,000							
	1.1c	Evaluation of Clearance intervals		\$115,000							
	1.1d	Volume Balancing		\$115,000							
	1.1e	Network Setup		\$115,000							
	1.1f	Timing Plan Development and Optimization		\$115,000 \$55,000							
	1.1g 1.1h	Timing Plan Implementation									
	1.1h 1.1i	Project Evaluation Project Documentation		\$55,000 \$55,000							
2.0		dge to K St - Transit Signal Priority		\$3,019,000							
2.0	2401 50 5110	age to the Transit Signar Fronty		75,015,000							
		This project is a partnership between DDOT and WMATA designed to enhance bus									
		movement along the corridor. DDOT will invest in signal and signal systems upgrades									
		and WMATA will invest in bus-based equipment designed to interact with DDOT signal									
		system infrastructure. DDOT will be able to upgrade up to 58 intersections and WMATA									
		will be able to install TSP equipment on up to 70 buses.									
2.1		RFP Development and Consultant Selection	DDOT/WMATA	\$60,380							
	2.1a	Acceptance Testing and Approvals	Consultant/DDOT	\$75,475							
	2.1b	Design Specifications	Consultant/DDOT	\$37,738							
	2.1c	Performance Specifications	Consultant/DDOT	\$15,095							
2.2		Agency Coordination									
	2.2a	Agency Coordination	Consultant	\$30,190							
	2.2b	Stakeholder Workshop	WMATA/Consultant	\$30,190							
	2.2c	Intergovernmental Agreements/Memorandums of Understanding	WMATA/DDOT	\$30,190							
2.3	2.3a	Signal System Design	DDOT	\$11.321							
	2.3a 2.3b	Prelininary Scoping of Intersections Field Review for System Requirements	DDOT	\$11,321 \$37,738							
	2.30	Scope Refinement	Consultant/DDOT	\$11.321							
	2.3d	Existing Signal Timing Review	Consultant/DDOT	\$18,869							
	2.3e	TSP Timing Development	Consultant/DDOT	\$56,606							
	2.3f	TSP Detection Setting Development	Consultant/DDOT	\$37,738							
	2.3g	Intersection Device Design Drawings	Consultant/DDOT	\$75,475							
2.4		Procurement from Vendor(s)									
	2.4a	Construction Details	Consultant/DDOT	\$67,928							
	2.4b	Design Specifications	Consultant/DDOT	\$26,416							
	2.4c	Equipment Delivery	Consultant	\$11,321							
2.5	2.52	Installation	Consultant/DDOT	\$45,285							
	2.5a 2.5h	Construction Management Vendor System Design	Consultant/DDOT	\$45,285							
	2.5c	Signal System Equipment Upgrades	Vendor/DDOT	\$1,003,818							
	2.5d	Transit Vehicle Equipment Upgrades	Vendor/WMATA	\$717.013							
	2.5e	Timings Deployment	DDOT	\$75,475							
l	2.5f	System Intregration Testing	Consultant/DDOT	\$56,606							
	2.5g	System Acceptance Testing	Consultant/DDOT	\$56,606							
	2.5h	Complete System Installation	Vendor/DDOT	\$45,285							
2.6		Performance Evaluation									
l	2.6a	Develop Performance Metrics	Consultant	\$30,190							
	2.6b 2.6c	Before Data Collection	Consultant Consultant	\$56,606							
	2.6c 2.6d	After Data Collection	Consultant	\$56,606							
2.7	2.00	Data Analysis and Reporting  Documentation	Consultant	\$60,380							
2.7	2.7a	Signal System Design Tech memo	Consultant	\$37,738							
	2.7b	Performance Evaluation Tech memo	Consultant	\$37,738							
l	2.7c	System Deployment Tech memo	Consultant	\$37,738							
	2.7d	Final Report	Consultant	\$37,738							
	2.7e	Lessons Learned	Consultant	\$18,869							
3.0	14th St Brid	dge to K St - UPS Installation		\$200,000							

Uninterruptible Power Supplies (UPS) function as a separate source to maintain a continuous supply of electricity whenever commercial power is not available and thus prevent traffic signals from going dark or into the flashing mode following power interruptions. Maintaining the signalist "dev-glows green poeration reduces the problems with traffic congestion and safety. Interruption of power is a common phenomenon in the District and therefore installation of UPS device as the critical intersections in select corridors would improve overall bus operations as well.

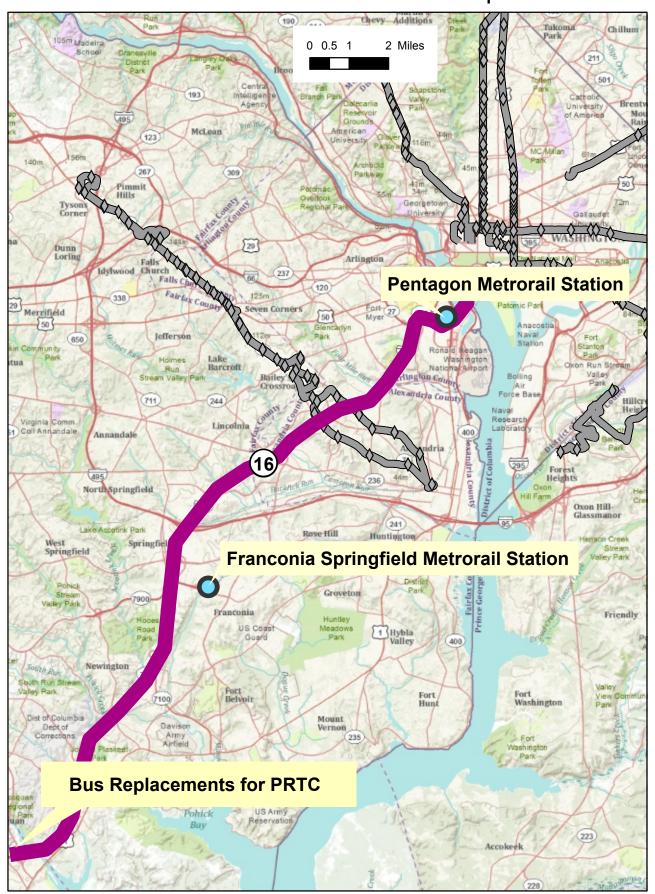
4.0 Administrative Costs

These funds are set aside to help cover the administrative costs of MWCOG and any ARRA related oversight requests.

TOTAL TIGER GRANT AWARD - TR BRIDGE TO K ST BUS PRIORITY IMPROVEMENTS \$5,200,000

et Jun-10 Jul-10 Aug-10 Sep-10 Oct-10 Nov-10 Dec-10 Jan-11 Feb-11 Mar-11 Apr-11 May-11 Jul-11 Aug-11 Sep-11 Oct-11 Nov-11 Dec-11 Jan-12 Feb-12 May-12 Jun-12 Jul-12 Aug-12 Sep-12 Oct-12 Nov-12 Dec-12 Jan-13 Feb-13 Mar-13 Apr-13 May-13 Jun-13 Jul-13 Aug-13 Sep-13 Oct-13 Nov-13 Dec-13 Jan-14 Feb-14 Mar-14 Apr-14 May-14 Jun-14 Jul-14 0000

# Metrobus TIGER Projects Corridor 16: I-95/395 Multimodial Improvements



## I 395 Multi-modal Improvements TIGER Grant Project 5/17/2010

Total Line Item Budget

Total Line Item TIGER Grant

			June, 2010	July, 2010	August, 2010	September, 2010	October, 2010	November, 2010	December, 2010	January, 2011	February, 2011	March, 2011	April, 2011	May, 2011	June, 2011	July, 2011	August, 2011	September, 2011
	Agency Lead	Budget	7 14 21 28	5 12 19 26	2 9 16 23 30	6 13 20 27	4 11 18 25	1 8 15 22 29	6 13 20 27	3 10 17 24 31	7 14 21 28	7 14 21 28	4 11 18 25	2 9 16 23 30	6 13 20 27	4 11 18 25	1 8 15 22 29	5 12 19 26
1.0 Project Management		\$500,000																
1.1 Project Management (5% of line item. To COG)	COG	\$500,000																
1.2 Progress Reports	COG																	
1.3 MOU Development/Establish administrative process	WMATA																	
1.4 WMATA Board approval	WMATA																	
1.5 Grant obligated	FTA																	
2.0 Pentagon Metrorail Station Improvements		\$2,160,000																
2.1 3 Additional Bus Bays	DoD																	
2.1a bus bays		\$650,000																
2.1b bus shelters		\$100,000																
2.2 Real Time Bus Arrival Information	WMATA	4																
2.2a Next Bus Information Display		\$15,000																
2.2b Electrical work for NextBus		\$3,000																
2.2c Dominion Electrical work		\$3,000																4
2.3 Circulation Improvements	DoD	\$16,000																
Additional signage Expansion of bus bays for BRAC shuttles		\$16,000																
2.4 Access Improvements	DoD	\$750,000																
Sidewalk connecting to Metrorail	DOD	\$250,000																
2.5 Safety Improvements	DoD	\$250,000																
Pedestrian Control barriers	DOD	\$5,000																1
Lighting at and around Pentagon Transit Center		\$300,000																
Bomb resistant trash cans		\$68,000																
3.0 Franconia-Springfield Metrorail Station Improvements		\$3,757,000																
3.1 3 Additional Bus Bays	WMATA	1-, - ,																
3.1a bus bays		\$35,000																1
3.1b bus shelters		\$50,000																
3.2 Real Time Bus Arrival Information																		
3.2a Next Bus Information Display	WMATA	\$50,000																
3.2b Electrical work for NextBus	WMATA	\$10,000																
3.2c Dominion Electrical work	County	\$10,000																
3.3 Circulation Improvements																		
3.3a Cell Phone Waiting Lot		\$135,000																
3.3b Pedestrian Walkway		\$650,000		l														4
3.4 Access Improvements				l														1
3.4a Sidewalk improvements		\$450,000																1
3.4b Gateway Treatment		\$490,000		l														4
3.4c Bike Station		\$422,000																
3.4d Bike Lockers 3.4e Covered Bike Racks		\$40,000 \$15,000		l														1
		\$15,000		l														
3.4f Pedestrian Bridge to GSA Site 3.5 Safety Improvements		\$1,200,000		l														
3.5a Improved pedestrian crossings	WMATA	\$200,000		l														1
4.0 Construction Administration (15% of line item grant)	AAIAIMIA	\$1,500,000																
5.0 Site preparation and traffic control (5% of line item grant)		\$1,500,000																
6.0 Engineering/design (10% of line item grant)		\$1,000,000																
7.0 Contingency Costs		\$513.000																
7.0 Contingency Costs		3313,000																ı

\$9,930,000

\$10,000,000

### POTOMAC AND RAPPAHANNOCK TRANSPORTATION COMMISSION (PRTC)

### TIGER GRANT PROJECT INFORMATION

SCOPE, BUDGET & SCHEDULE SUMMARY FOR FTA/TPB (REV. #4)

### Transit Bus Purchases

PRTC will purchase 13 - 40 foot clean-diesel buses to replace vehicles that have met their useful life. PRTC will initiate a purchase either through the uccessful bus manufacturer bidder from Virginia's Department of General Service's competitive procurement effort or directly from a transit bus manufactur using the same terms and conditions of their existing contract with Hampton Roads Transit (HRT). Per FTA regulations, the purchase of buses is an automatic

### Project scope:

PRTC will purchase 13 new 40 foot clean-diesel buses-already outfitted with fareboxes, security cameras and bicycle racks.

Budget:	\$5,895,000
Less admin:	
ARRA Reporting:	\$30,000
TPB Administration:	\$180,000
Net Budget:	\$5,685,000

RFP/IFB out to Bid (1) Contract Award (2) PRTC Conttact Award (3)

Contract Complete

### CAD/AVL Project

For this project, PRTC staff is working with the Virginia Department of Rail and Public Transportation's (DRPT's) on-call consultant to produce a set of technic specifications for the CAD/AVL system including necessary components for the entire fleet of buses (148 including the 13 buses also being purchased with TIGER grant funds), as well as the main system equipment. At this point, the actual procurement could be conducted in one of two ways – either DRPT will launch a competitive procurement in cooperation with the State's Department of General Services in which transit systems could purchase the CAD/AVL system from the successful proposer, or PRTC will use the specification produced in cooperation with DRPT and its consultant to conduct a PRTC-led ependent procurement. Per FTA regulations, the purchase of CAD/AVL equipment is an automatic categorical exclusion activity

### Project Scope:

PRTC will purchase a CAD/AVL system with voice annunciation, automatic passenger counting, and other capabilities for placement on the existing bus fleet and on the 13 buses being purchased with TIGER grant funds (see previous project scope).

Budget:	\$4,000,000
Less admin:	
ARRA Reporting:	\$20,000
TPB Administration:	\$120,000
Net Budget:	\$3,860,000

#### Key Milestones

RFP Issued

Expected Contract Completion

### Security Camera Purchase and Installation

PRTC will also purchase cameras to outfit 15 transit buses to further enhance passenger safety and the protection of PRTC's fleet. A total of 75 cameras will be installed on buses serving "Metro Direct" routes (operating between Prince William County and Metrorail). Per FTA regulations, the purchase of security cameras is an automatic categorical exclusion activity.

### Project Scope:

Project would place five (5) cameras on 15 - 40 foot transit buses.

\$105,000

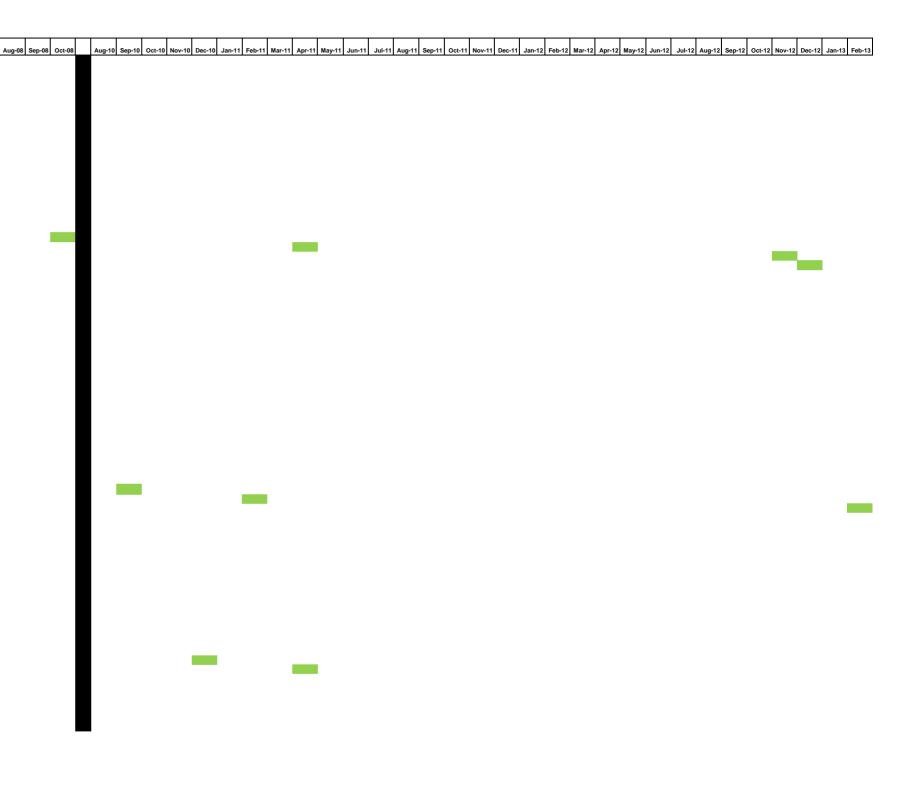
Key Milestones RFP Issued

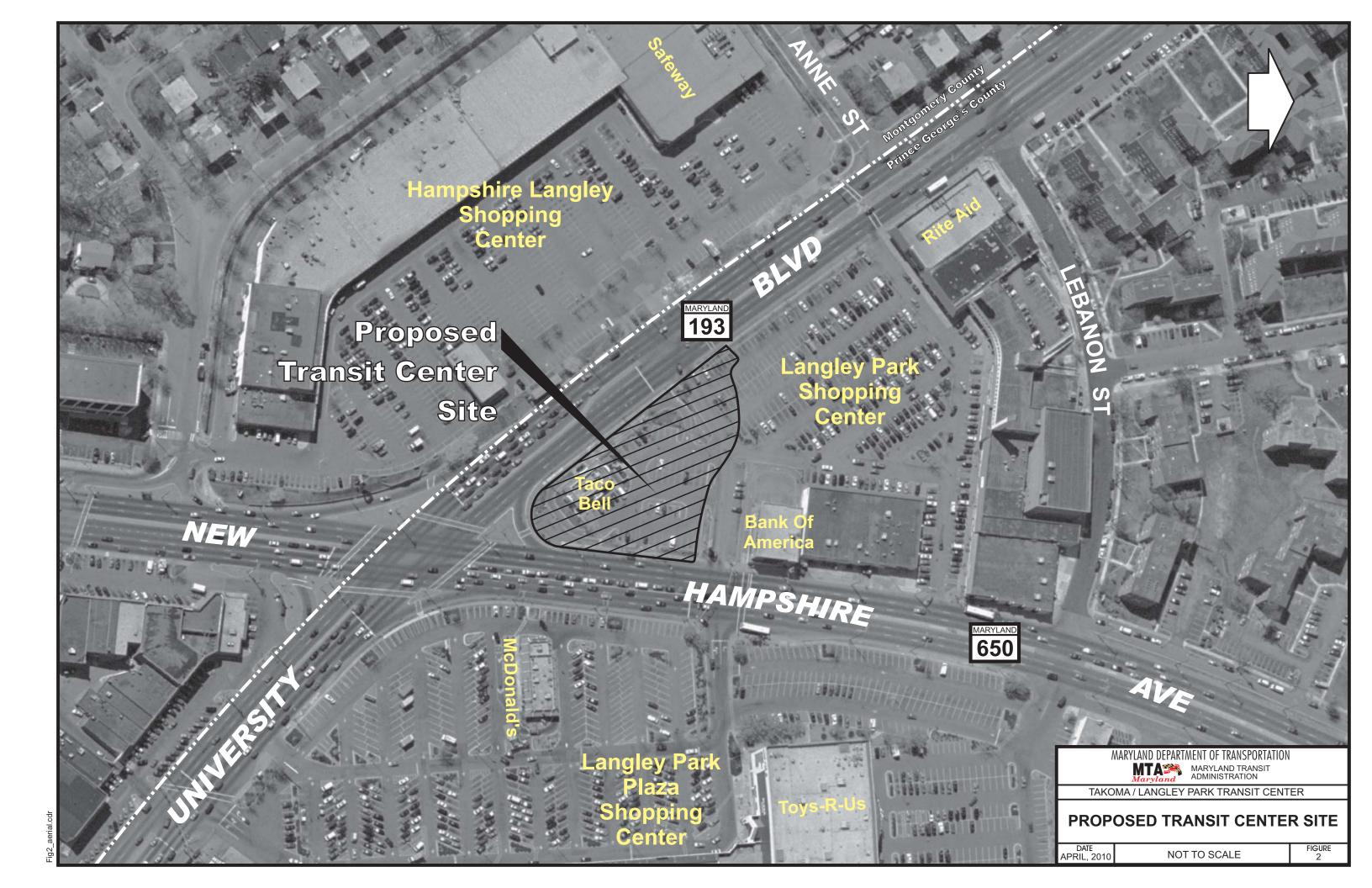
PRTC Contract Award Contract Complete

(1) This is the date that the Hampton Roads Transit (HRT) procurement began. HRT has assented to an assignment of some of its "option" buses to PRTC, and as noted in the project description, the HRT assignment is one of two purchasing approaches that PRTC is entertaining.

(2) This is the date of the HRT contract award

 $^{(3)}$  PRTC's contract award target date is the same no matter which of the two purchasing approaches PRTC adopts.





### 18 - Langley Park Transit Center TIGER Grant Project

	Total	TIGER Gr	ant Funds	2010							201	1			2012							2013					
Overall Tasks	Budget	COG Mgmt.	Construction	May June	July A	Aug Sep	Oct Nov	Dec Ja	an Feb	Mar Apr	May June .	Iuly Aug	Sep Oct Nov	Dec	Jan Feb N	Mar Apr	r May June	July Aug	Sep Oct	Nov Dec	Jan	Feb Mar	Apr May	June July	Aug Sep	Oct Nov Dec	
18 - Langley Transit Center Schedule / Budget Brea	18 - Langley Transit Center Schedule / Budget Breakdown																										
Planning	\$0.7380 M																										
Design and Permitting	\$3.1403 M																										
30% Plans and Estimate																											
60% Plans and Estimate																											
90% Plans and Estimate																											
Right of Way Acquisition	\$9.2500 M																										
Advertise for Bids																											
Award Contract for Construction																											
Construction	\$12.3000 M	5.00%	95.00%														1 1 1										
Entrance Improvements		\$0.0583 M	\$1.1068 M																								
Utilities		\$0.0200 M	\$0.3800 M																								
Preliminary and Grading		\$0.0620 M	\$1.1780 M																								
Site Demolition		\$0.0095 M	\$0.1805 M																								
Site Improvements		\$0.1900 M	\$3.6100 M																								
Service Building		\$0.0137 M \$0.2615 M	\$0.2612 M \$4.9685 M											+													
Canopy		\$0.2012 IVI	34.905 IVI											+													
Sub-Total		\$0.6150 M	\$11.6850 M	1										++													
Total Costs	\$25.4283 M		311.0830 WI											+													
Total Costs	723,4203 IVI	۶۱۷،5	OUU IVI																								

### EXECUTION BY THE AUTHORIZED PROJECT SPONSOR EXECUTIVE

Executed this_	19	day of
	÷	METROPOLITAN WASHINGTON COUNCIL OF GOVERNMENTS
		Project Sponsor
,		DIBLE
		David Robertson
		Executive Director
		EXECUTION BY THE GOVERNMENT
Executed this	Jan	_ day of, 2010.
		Ri A Hu
	for	Letitia A. Thompson
	U	Regional Administrator, TRO-3