

# National Capital Region Transportation Planning Board

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## MEMORANDUM

TO: TPB Scenario Study Task Force

FROM: Monica Bansal  
Department of Transportation Planning

SUBJECT: TIP and CLRP Projects that intersect possible regional BRT routes

DATE: March 18, 2009

The following projects are a subset of all highway projects listed in the current FY09-14 TIP and 2008 CLRP that are along WMATA's Priority Corridor Network (PCN) and important potential links in a regional bus rapid transit (BRT) network, such as the K Street Transitway. Projects are grouped according to the WMATA Priority Corridor, where the corresponding corridor number(s) are given and can be linked to the descriptions attached at the end of this memo.

### *Why look at these projects?*

Most of these projects do not contain transit benefits explicitly, but the intent is that these projects can be expanded to enable a high quality rapid transit system. Projects with explicit transit consideration already, such as transit signal priority or transit lanes, are highlighted.

The linking of some of these projects to the BRT network is relevant because it allows the project's improvements (if expanded to include necessary running-way improvements) to efficiently serve multimodal interests, which is a stated priority of the competitive grant program. These projects can also be used to leverage this federal stimulus funding, since, although the grant program does not require a local or state match, it is intended to "give priority to projects that require a contribution of federal funds in order to complete an overall financing package."

These projects can therefore serve as a foundation for an expanded rapid transit system and a starting point for making connections between road projects and transit needs. This is particularly useful for corridors where a specific infrastructure constraint is identified, such as the need for queue jump lanes.

### *Completion dates*

Another primary priority is for projects to be completed by 2012. Therefore, projects have been ordered by their projected completion dates. Projects with longer horizons have been included to address the possibility that these projects could be advanced with additional funding made available through this grant program.

### Corridor 17: Little River Turnpike

	Agency	Project	Facility	Completion Date	Description	Cost
1	VDOT	VA 236 - Install Second LTL & Modify Signal	VA 236	12/30/2009	Construct second left-turn lane from VA 236 westbound to Braddock Road southbound and VA 236 eastbound to Braddock Rd. northbound and modify signal.	1872
2	VDOT	Major Bridge Rehabilitation	VA 236	6/30/2011	Major Bridge Rehabilitation - Deck replacement; superstructure & substructure on Duke Street.	9118
3	VDOT	VA 236	VA 236	6/30/2020	Widen from 4 lanes to 6 lanes, from Pickett Rd to I-395. Implement safety and operational improvements, as necessary. Reconstruct/replace bridges, as necessary.	

### Corridors 2, 3, 18, 20: Route 1

	Agency	Project	Facility	Completion Date	Description	Cost
4	VDOT	US 1 South Glebe Road Intersection Improvements	US 1	6/30/2009	VA 120 (South Glebe Road) to 23rd Street South - Signalization and intersection improvements at the US 1 / 33rd Street South intersection and at other intersections on US 1 within the cited limits,	300
5	MDOT	Baltimore Avenue from Cherry Hill Road to I-95/I-495	US 1	1/1/2010	Widen US 1, from Cherry Hill Road to I-95/I-495, to a six-lane divided roadway with sidewalks. Funding included with College Avenue to Cherry Hill Road segment.	
6	VDOT	US 1	US 1	6/30/2010	Improvements to Route 1 to improve the safety and operation of intersections and/or roadway segments. By 2010, widen to 6 lanes throughout Prince William County northward into Fairfax County to connect to the existing 6 lane roadway at Route 235 North.	
7	VDOT	US 1 - Bridge Replacement & Approaches - 6 Lanes	US 1	9/12/2010	Replace the existing bridge over Neabsco Creek with a six lane divided facility that includes pedestrian and bicycle facilities. From Cardinal Dr. to Blackburn Rd.	37397
8	VDOT	Richmond Highway Pedestrian Improvements & Landscaping	US 1	10/23/2010	To include increased bus stops and pedestrian amenities, park and ride lots, sidewalks and crosswalks in Fairfax County	
9	VDOT	US Route 1 Construct 6 Lane Divided Roadway	US 1	12/30/2014	US Route 1 Construct 6 Lane Divided Roadway from Joplin Road to Featherstone	82771

10	VDOT	US 1	US 1	6/30/2015	Improvements to Route 1 to improve the safety and operation of intersections and/or roadway segments. By 2015, widen to 6 lanes throughout Prince William County northward into Fairfax County to connect to the existing 6 lane roadway at Route 235 North.	
11	VDOT	US 1	US 1	6/30/2015	PE only. The Location Study will follow-up on the US Route 1 Corridor Study and will result in Location Approval for the highway improvements recommended by the US Route 1 Corridor Study from the Stafford County Line to VA 235.	
12	VDOT	US 1/Rte 123 - Construct Interchange	US 1	6/30/2017	Construct interchange at intersection of US 1 and VA 123 including: constructing bridge over CSX railroad to provide new access point to Belmont Bay, widening US 1 to 6 lanes from Occoquan Road to Occoquan River, and widening VA 123 to 6 lanes from Horner Road. Limits from Annapolis Way to Devil's Reach Rd.	110222
13	MDOT	Baltimore Avenue from College Avenue to Sunnyside Avenue	US 1	1/1/2020	Reconstruct US 1 from College Avenue to Sunnyside Avenue. Sidewalks and wide curb lanes will be included where appropriate. Engineering to begin for the segment from MD 193 to College Avenue.	122340
14	VDOT	US 1	US 1	6/30/2025	PE only. The Location Study will follow-up on the US Route 1 Corridor Study and will result in Location Approval for the highway improvements recommended by the US Route 1 Corridor Study, from VA 235 to I-495.	
15	VDOT	Route 1 Improvements	US 1		Improvements to Route 1 to improve the safety and operation of intersections and/or roadway segments. By 2015, widen to 6 lanes throughout Prince William County northward into Fairfax County to connect to the existing 6 lane roadway at Route 235 North. By 2025, widen an additional lane in each direction from VA 235 north to the Capital Beltway. During the peak period, in the peak direction, these additional lanes will be reserved for use by buses and right-turning vehicles. Reconstruct/replace bridges, as necessitated by maintenance demands or other causes, to the 6-lane width. PE for Location Study. The Location Study will follow-up on the US Route 1 Corridor Study and will result in Location Approval for the highway improvements recommended by the Corridor Study.	

**Corridors 4, 13: Georgia Ave**

	<b>Agency</b>	<b>Project</b>	<b>Facility</b>	<b>Completion Date</b>	<b>Description</b>	<b>Cost</b>
16	MDOT	Georgia Avenue	MD 97	1/1/2015	Construct interchange improvements at MD 97 and Randolph Road. Includes sidewalks where appropriate and wide curb lanes will accommodate bicycles. Alternative C - Randolph Road under MD 97	72900
17	MDOT	MD 97, Georgia Avenue	MD 97	1/1/2020	Construct interchange improvements along MD 97 at MD 28. Alt 7 VE Modified (selected alternate) Relocated MD 28 under MD 97.	94600
18	DDOT	Great Streets - Georgia Ave	Georgia Ave		Conduct traffic assessments and provide public review and comment of proposed streetscape design elements. Conduct environmental assessments. Prepare concept designs; design plans and specifications; construct improvements to sidewalks, curbs, gutters, streets, and tree boxes; replace street trees; and install other streetscape elements. Construct facilities to improve reliability and safety of transit services, including transit lanes; provide bicycle lanes; and improve pedestrian circulation.	

**Corridor 8: 16<sup>th</sup> St**

	<b>Agency</b>	<b>Project</b>	<b>Facility</b>	<b>Completion Date</b>	<b>Description</b>	<b>Cost</b>
19	DDOT	16th St. NW Bridge over Military Road (incl. roadways)	16 <sup>th</sup> St NW	3/1/2010	Overlap bridge deck and approach slab, remove efflorescence and seal cracks in superstructure, replace bridge joints, repair substructure, repair/replace sidewalks, and reconstruct approach roadways.	

**Corridor 12: H St/Benning Rd**

	<b>Agency</b>	<b>Project</b>	<b>Facility</b>	<b>Completion Date</b>	<b>Description</b>	<b>Cost</b>
20	DDOT	H Street NW Bridge Over Air Rights Tunnel-Center Leg Bridges	H Street, NW	12/31/2011	Overlay bridge deck, replace approach slabs, replace deck joints, repair/seal longitudinal joints in median, repaint structural steel and bearings, repair /replace backwalls and bearing pads, repair substructure and maintain traffic	

21	DDOT	Great Streets - H St. NE	H Street, NE	12/26/2014	Conduct traffic assessments and provide public review and comment of proposed streetscape design elements. Conduct environmental assessments. Prepare concept designs, design plans and specifications; construct improvements to sidewalks, curbs, gutters, streets and tree boxes; replace street trees; and install other streetscape elements. Construct facilities to improve reliability and safety of transit services, including transit lanes; provide bicycle lanes; and improve pedestrian circulation.	
22	DDOT	Safety Improvements of Benning Road Bridges over Kenilworth Ave	Benning Rd.	6/30/2015	Structural design of three bridge alternatives. Project scope includes infrastructure improvements within vicinity of the bridges, including construction of handicap ramps according to ADA guidelines.	
23	DDOT	Great Streets - Benning Road, NE	Benning Road, NE		Conduct traffic assessments and provide public review and comment of proposed streetscape design elements. Conduct environmental assessments. Prepare concept designs, design plans and specifications; construct improvements to sidewalks, curbs, gutters, streets, and tree boxes; replace street trees; and install other streetscape elements. Construct facilities to improve reliability and safety of transit services, including transit lanes; provide bicycle lanes; and improve pedestrian circulation.	

**K St**

	<b>Agency</b>	<b>Project</b>	<b>Facility</b>	<b>Completion Date</b>	<b>Description</b>	<b>Cost</b>
24	DDOT	K Street Transitway Implementation	K St.	6/26/2011	This project will redesign and reconstruct a major east/west arterial roadway serving the downtown area. The new roadway will provide improved transit and vehicular mobility, reduce congestion and air pollution, and improve transportation safety. The reconstruction of K Street will strengthen the economic vitality of the city's downtown core.	

**Corridors 1 and 22: Columbia Pike (VA and MD)**

	<b>Agency</b>	<b>Project</b>	<b>Facility</b>	<b>Completion Date</b>	<b>Description</b>	<b>Cost</b>
25	VDOT	Columbia Pike Bus Information Technology Deployment	VA 244	6/30/2009	Utilize technology to provide real time passenger information on Columbia Pike. A bus information technology deployment program to disseminate information gathered from the Columbia Pike signal priority program to the general public.	
26	VDOT	Rte 244 Transit - Signal Prioritization	VA 244	Ongoing, no completion date	Acquire hardware and software to give signal prioritization to buses on Columbia Pike and in Rosslyn and the US 29 (Lee Highway) Corridor.	1631
27	VDOT	Columbia Pike/John Marr Drive Streetscaping	VA 244	6/30/2010	Improvements to include sidewalks, ADA, crosswalks, signals and bus shelters in Fairfax County	
28	VDOT	Columbia Pike	VA 244	6/30/2010	Redesign and rebuild all street infrastructure to make them compatible with redevelopment plans for the corridor, from Oakland St to Washington Blvd.	
29	VDOT	Columbia Pike	VA 244	6/30/2010	Redesign and rebuild the eastern end of Columbia Pike to upgrade the roadway and to make it consistent with changes occurring at Arlington Cemetery and the Navy Annex, from S. Oakland to S. Garfield.	
30	VDOT	Columbia Pike Streetscape Improvements	VA 244	12/31/2010	Design and construct streetscape improvements. To include pedestrian facilities, bus stop shelters, street lighting, traffic signals, and undergrounding of utilities along Route 244 from South Wakefield Street to Four Mile Run.	6158000
31	VDOT	Rte 244 Columbia Pike Multi Modal Corridor Improvements	VA 244	4/29/2011	Update design concepts for streetscape cross sections, improve pedestrian facilities, install left turn lanes/median, bike lanes, on street parking, etc., from Joyce St to Jefferson St.	2000
32	MDOT	US 29 Columbia Pike, Musgrove/Fairland Road Interchange	US 29	1/1/2020	Construct an interchange at Musgrove/Fairland Road.	78800
33	MDOT	US 29 Columbia Pike, Interchanges	US 29	1/1/2020	Construct interchanges along US 29 at Stewart Lane, Tech Road, Greencastle Road, and Blackburn Road.	266000

**Corridor 9: Route 7, Leesburg Pike**

	<b>Agency</b>	<b>Project</b>	<b>Facility</b>	<b>Completion Date</b>	<b>Description</b>	<b>Cost</b>
34	VDOT	King Street Spot Improvements	VA 7	6/30/2010	Spot improvements, from Quaker Lane to Dearing St.	

35	VDOT	Rte 7 - King Street - 6 Lanes Winterchange @Beauregard	VA 7	6/30/2011	Reconstruct King Street's intersection with Beauregard Street to provide additional turning lanes and improved pedestrian and bicycle flows through the intersection, from Chesterfield Rd to North Hampton.	10560
36	VDOT	VA 7	VA 7	6/30/2020	Widen the existing 4-lane roadway to 6 lanes, from Seven Corners to Bailey's Crossroads.	
37	VDOT	RTE 7 - Spot Improvements - Approach to Beltway	VA 7		Construct additional right turn lane along Rte. 7 leading to I-495, from Aline Ave to Old Gallows Rd.	

**Corridor 5: Southern Ave. Metro-National Harbor (Indian Head Highway and Southern Ave)**

	Agency	Project	Facility	Completion Date	Description	Cost
38	MDOT	MD 210 at Kerby Hill Road/Livingston Road	MD 210	1/1/2020	Reconstruct the existing MD 210 intersection at Kerby Hill Road/Livingston Road to a grade separated interchange. Bicycles and pedestrians will be accommodated where appropriate.	
39	MDOT	MD 210 from MD 228 to I-95/I-495	MD 210	1/1/2030	This project includes the following improvements along MD 210, from MD 228 to I-95/I-495: Intersection Improvements, Provide right-in and right-out at Wilson Bridge Drive, Provide interchanges at Livingston Road/Kerby Hill Road, Livingston Road/Palmer Road, Old Fort Road North, Fort Washington Road, Livingston Road/Swan Creek Road intersections	
40	DDOT	Southern Avenue Boundary Streets	Southern Ave.	5/31/2012	An analysis will be conducted to determine streetscape needs including pedestrian safety and traffic calming, designated tree box locations, trees, improved lighting, sidewalk and curb and gutter and infrastructure improvements.	

**Corridor 16: Anacostia-Congress Heights (MLK Ave)**

	Agency	Project	Facility	Completion Date	Description	Cost
41	DDOT	Great Streets - Martin Luther King, Jr. Avenue, SE	MLK Ave, SE	12/26/2011	The Great Streets program will provide a combination of local public funds and federal aid to be invested in streetscape improvements on selected commercial corridors as a means of stimulating private investment and improvement in retail opportunities in local residential neighborhoods. The program will also improve transportation infrastructure and increase mobility choices, including improved transit services, bicycle facilities and pedestrian facilities, as well as promote transportation safety.	

### Corridor 19: 11<sup>th</sup> St SE Bridge

	Agency	Project	Facility	Completion Date	Description	Cost
42	DDOT	11th St Bridge S.E. over the Southeast Freeway (Br	11 St SE	12/31/2011	This project will rehabilitate the bridge that carries 11th Street, S.E. over the Southeast Freeway near the Navy Yard. The work includes replacement of the concrete deck; structural steel repair; replacement of expansion joints; painting of structural steel; removal of concrete bearing pedestals and modification of the bearing seat; substructure concrete repair; and upgrading of lighting, drainage and safety appurtenances.	
43	DDOT	11th Street Bridges SE, Replace and Reconfigure	11 St SE	8/30/2014	Replacement and reconfiguration of the existing deteriorating bridges and ramps at the Anacostia River crossing near 11th Street SE, connecting the Anacostia Freeway and the Southeast Freeway. New freeway ramps east of the river will connect both directions of the Anacostia Freeway with eight freeway lanes across to the Southeast Freeway. Additionally, two lanes of local roadway in each direction will connect surface streets east and west of the river. All improvements are consistent with the goals of the Anacostia Waterfront Initiative.	

### Corridor 16: South Capitol St

	Agency	Project	Facility	Completion Date	Description	Cost
44	DDOT	Roadway Intersection of South Capitol Street/Southern Avenue Traffic Safety Improvement (ADA Standard Requirement) and at South Capitol Street Bridge Over Oxon Run River down Stream River Bed Improvement S.E.	South Capitol Street Bridge	12/31/2011	Perform design and prepare plans, special provisions, cost estimates and bid documents for reconstruction/upgrading and resurfacing in the design of roadways and streets, including construction of wheelchair ramps, upgrading streetlights, repair and/or replacement of sidewalks, drainage improvements, tree trimming, and planting and/or replacement of trees. Resurfacing of the existing streets will also include repair and/or replacement of existing pavement, repair and/or replacement of sidewalks, and repair and/or replacement of curbs and gutters. The final design will include joint layout and grid elevations for finished concrete pavement construction, including complete joint layout and grid elevations for intersections; and meeting ADA standards. The final design will also include curb profiles and top of curb elevations between intersecting streets and constructed based on construction documents.	



45	DDOT	Anacostia Freeway (I-295)		12/31/2014	Perform rehabilitation of bridge decks and related structures, approach street/roadway work, sidewalks and wheelchair/bike ramps meeting the Americans with Disabilities Act Accessibility Guidelines	
46	DDOT	South Capitol Street Corridor			Improvements based on recommendations from the South Capitol Street Gateway and Anacostia Access studies, including replacement of the Frederick Douglass Memorial Bridge on a new southern alignment; reconfiguration of the intersection of South Capitol Street, Potomac Avenue, Q Street, and approach ramp to the new Frederick Douglass Memorial Bridge; reconfiguration of the intersection of South Capitol St, Suitland Pkwy, and the new Frederick Douglass Memorial Bridge approach; reconfiguration of the Suitland Pkwy and I-295 interchange; improvements to the intersection of Suitland Pkwy and Firth Sterling Avenue; improvements to the mainline of South Capitol St from Suitland Pkwy to Firth Sterling Ave; widening of the mainline of Suitland Pkwy from South Firth Sterling Ave to the new Frederick Douglass Memorial Bridge Approach; creation of a center ramp; signalized interchange between Suitland Pkwy and Martin Luther King, Jr. Ave; widening Martin Luther King, Jr. Ave over Suitland Pkwy to accommodate improvements and a 12' multi-use path; boulevard streetscape treatments along South Capitol St between the SE/SW Freeway and N St; creation of an at-grade intersection and replacement of the existing ramp from nb South Capitol St to SB I-295; reconfiguration of several intersections including South Capitol St, "Eye" St, K St, and L ST	

**Corridor 24: 14<sup>th</sup> St and Corridor 1: 14<sup>th</sup> St Bridge**

	Agency	Project	Facility	Completion Date	Description	Cost
47	DDOT	14th Street NW Streetscape Improvements	14 <sup>th</sup> St	3/31/2012	Enhance vehicle and pedestrian access in the redevelopment of 14th Street NW from Florida Avenue to Thomas Circle. Includes repair or replacement of sidewalks, curbs, gutters, trees and tree boxes, streetlights, traffic signals and select intersection improvements to enhance pedestrian safety.	

48	DDOT	14th St. Bridge Northbound Replacement of Bascule Span	14th Street Bridge		This project provides rehabilitation of the northbound 14th Street Bridge (I-395) over the Potomac River, a major river crossing that carries 100,000 vehicles per day between the District of Columbia and Virginia. The project consists of replacing the deteriorated bascule span over the Potomac River channel with new girders. Also included is preservation of the tender's house that housed the control room for operation of the moveable span. An art project sponsored by the D.C. Commission on the Arts and Humanities has been installed in the facility.	
49	DDOT	14th St. SW Bridge over Outlet Channel (Br. # 171-2)	14th Street Bridge		Rehabilitation of Bridge # 171-2, 14th St. SW over the Outlet Channel	
50	DDOT	14th St. SW Bridge over Maine Ave. (Br. # 171-1)	14th Street Bridge		Rehabilitation of Bridge # 171-1, 14th St. SW over Maine Ave.	
51	DDOT	14th St. SW Bridge over Haines Point Park (Br. #171-3)	14th Street Bridge		Rehabilitation of Bridge # 171-3, 14th St. SW over Haines Point Park	

### Corridor 7: Pennsylvania Ave. SE

	Agency	Project	Facility	Completion Date	Description	Cost
52	DDOT	Great Streets - Pennsylvania Ave, SE	Penn Ave., SE		Conduct traffic assessments and provide public review and comment of proposed streetscape design elements. Conduct environmental assessments. Prepare concept designs, design plans and specifications; construct improvements to sidewalks, curbs, gutters, streets, and tree boxes; replace street trees; and install other streetscape elements. Construct facilities to improve reliability and safety of transit services, including transit lanes; provide bicycle lanes; and improve pedestrian circulation.	

# WMATA PCN Corridors

Corridor Description	Line/Route Description	Status	Juris.	Study Year (FY)	Impl. Year (FY)	Average Weekday Ridership	Annual Platform Hours
1 Columbia Pike (Pike Ride)	16ABDEFJ 16GHKW 16L 16Y	I	VA	2002	2003	13,300	99,500
2 Richmond Highway Express (REX)	REX	I	VA	2003	2004	3,700	33,800
3 Crystal City-Potomac Yard	9A 9E 9S	I	VA	2005	2006	3,200	33,400
4 Georgia Ave./7th St. (DC)	70 71 79	I	DC	2006	2007	18,400	99,500
5 Southern Ave. Metro-National Harbor	NH-1	I	MD	2007	2008	900	New
6 University Blvd./East-West Highway	J1 J2 J3 J4	P	MD	2007	2009	7,800	68,000
7 Wisconsin Ave./Pennsylvania Ave.	30 32 34 35 36	I	DC	2008	2009	20,700	162,000
8 Sixteenth St.	S1 S2 S4	P/I	DC	2008	2009	15,000	111,900
9 Leesburg Pike	28AB 28FG 28T	P/I	VA	2009	2009	7,400	52,500
10 Veirs Mill Rd.	Q2	P	MD	2009	2010	10,500	75,400
11 New Hampshire Ave.	K6	P	MD	2010	2011	6,300	40,500
12 H St./Benning Rd.	X2	P	DC	2010	2011	13,700	65,300
13 Georgia Ave. (MD)	Y5 Y7 Y8 Y9	P	MD	2010	2011	7,600	57,600
14 Greenbelt-Twinbrook	C2 C4	P	MD	2011	2012	14,200	99,700
15 East-West Highway (Prince George's)	F4 F6	P	MD	2011	2012	8,300	52,000
16 Anacostia-Congress Heights	A2 6 7 8 42 46 48	P	DC	2011	2012	11,900	77,500
17 Little River Tpke./Duke St.	29KN 29CEGHX	P	VA	2011	2012	3,200	40,800
18 Rhode Island Ave. Metro to Laurel	81 82 83 86 87 88 89 89M	P	MD	2012	2013	6,900	57,500
19 Mass Ave./ U St./ Florida Ave./ 8th St./ MLK Ave.	90 92 93	P	DC	2012	2013	14,700	106,400
20 Rhode Island Ave.	G8	P	DC	2012	2013	3,800	34,200
21 Eastover-Addison Rd. Metro	P12	P	MD	2013	2014	5,600	44,600
22 Colesville Rd./Columbia Pike - MD US 29	Z2 Z6 Z8 Z9,29 Z11,13	P	MD	2013	2014	10,100	97,100
23 North Capitol St.	80	P	DC	2013	2014	8,600	60,800
24 Fourteenth St.	52 53 54	P	DC	2014	2015	15,000	98,200
Total Priority Corridor Network						230,800	1,668,200