ITEM 9 - Action
July 16, 2008

Approval of the 2008 Constrained Long Range Plan (CLRP)

Staff Recommendation: If the Northern Virginia Transportation Authority (NVTA) funding has been identified by July 16 and the air quality conformity determination under agenda item 8 is approved, the Board will be asked to adopt Resolution R2-2009 approving the 2008 CLRP.

Issues: None

Background: On June 18, the Board was briefed on the two versions of the draft 2008 CLRP and FY 2009-2014 TIP (with and without NVTA funded projects), and the related conformity assessments. If the NVTA funding has been identified by July 16, the Board will be asked under agenda items 8, 9 and 10 to approve the air quality conformity determination for the 2008 CLRP and FY 2009-2014 TIP with NVTA funded projects, the 2008 CLRP, and the FY 2009-2014 TIP with NVTA funded projects.

If NVTA funding has not been identified by July 16, the Board will be asked under agenda item 11 to approve the FY 2009-2014 TIP without NVTA funded projects relying upon the air quality conformity determination for the 2007

CLRP as approved by the FHWA and FTA on June 11, 2008.

The CLRP website at www.mwcog.org/clrp. provides information on the proposed significant changes to the CLRP, existing projects in the 2008 CLRP, and the draft FY 2009-2014 TIP with NVTA funded projects.

TPB R2-2008
July 16, 2008

NATIONAL CAPITAL REGION TRANSPORTATION PLANNING BOARD
777 North Capitol Street, N.E.
Washington, D.C. 20002

RESOLUTION APPROVING
THE 2008 CONSTRAINED LONG RANGE
TRANSPORTATION PLAN FOR THE NATIONAL CAPITAL REGION

WHEREAS, the National Capital Region Transportation Planning Board (TPB), which is the metropolitan planning organization (MPO) for the Washington Region, has the responsibility under the provisions of the Safe, Accountable, Flexible, and Efficient Transportation Equity Act - A Legacy for Users (SAFETEA-LU) of 2005 for developing and carrying out a continuing, cooperative and comprehensive transportation planning process for the Metropolitan Area; and

WHEREAS, the Federal Planning Regulations of the Federal Transit Administration (FTA) and the Federal Highway Administration (FHWA) implementing SAFETEA-LU, which became effective July 14, 2007, specify the development and content of the long range transportation plan and require that it be reviewed and updated at least every four years; and

WHEREAS, on January 16, 2008, the TPB approved the 2007 Constrained Long-Range Transportation Plan (CLRP) and FY 2008-2013 TIP which were developed as specified in the Federal Planning Regulations; and

WHEREAS, on October 17, 2007, the TPB issued a solicitation document for projects and strategies to be included in the 2008 CLRP and FY 2009-2014 TIP that will meet federal planning requirements and address the federal planning factors and goals in the TPB Vision; and

WHEREAS, the transportation implementing agencies in the region provided submissions for the 2008 CLRP and inputs to the FY 2009-2014 TIP, and the TPB Technical Committee and the TPB reviewed the submissions at meetings in January, February and June 2008; and

WHEREAS, on February 20, 2008, the TPB approved the major projects submitted for inclusion in the air quality conformity assessment for the 2008 CLRP and FY 2009-2014 TIP, and on February 29, the Virginia Supreme Court declared that the taxing ability of the NVTA was unconstitutional; and

WHEREAS, the Virginia General Assembly acted by July 16 to restore the NVTA funding for the projects in the 2008 CLRP and FY 2009-2014 TIP; and

WHEREAS, the significant changes for the 2008 CLRP with NVTA funded projects are described in the attached memorandum of July 9, 2008 and on the TPB web site, and detailed information on all of the projects in the 2008 CLRP is provided on the TPB web site and in Appendix B of the Air Quality Conformity report as adopted July 16, 2008; and

WHEREAS, the financial plan for the 2006 CLRP which is documented in the September 2006 report: *Analysis of Resources for the 2006 Financially Constrained Long-Range Transportation Plan for the Washington Region* was updated for the 2008 CLRP to show the forecasts of revenues and expenditures in year of expenditure dollars in addition to constant 2006 dollars; and

WHEREAS, the financial plan for the 2008 CLRP demonstrates that the forecast revenues reasonably expected to be available are equal to the estimated costs of expanding and adequately maintaining and operating the highway and transit system in the region through 2030; and

WHEREAS, in each year's update of the CLRP since 2000, the TPB has explicitly accounted for the funding uncertainties affecting the Metrorail system capacity and levels of service beyond 2005 by constraining transit ridership to or through the core area to 2005 levels; and

WHEREAS, as a result of the "Metro Matters" commitments for Metro's near-term funding, the transit ridership constraint to or through the core area was applied in the 2005 CLRP conformity analysis using 2010 ridership levels rather than 2005 levels; and

WHEREAS, while progress was made during 2008 in the legislatures of Maryland, Virginia, and District of Columbia to identify additional revenues for WMATA's future capital needs, this additional revenue was not assumed to be available in the financial plan and the transit ridership constraint to or through the core area was applied in the 2008 CLRP conformity analysis using 2010 ridership levels ; and

WHEREAS, during the development of the 2008 CLRP, the TPB Participation Plan was followed, and numerous opportunities were provided for public comment: (1) At the January 16, 2008 TPB meeting, the project submissions for inclusion in the air quality conformity analysis of the 2008 CLRP and the FY 2009-2014 TIP and the air quality conformity work scope were released, and an opportunity for public comment on these submissions was provided at the beginning of the February 20 TPB meeting; (2) At the February 20 meeting, the TPB approved a set of responses to the public comments on the project submissions for inclusion in the CLRP and TIP documents; (3) On May 15, 2008 in conjunction with the CAC meeting, a public meeting was held on the development of the draft FY 2009-2014 TIP with and without the NVTA funded projects; (4)On June 12, 2008 at the CAC meeting, the draft air quality conformity analysis, the draft 2008 CLRP, the draft FY 2009-2014 TIP with and without NVTA funded projects, and web-based information on the plan were released for a 30-day public comment period which closed on July 12, 2008; (4)An opportunity for public comment on these

documents was provided on the TPB web page and at the beginning of the June 18 and July 16 TPB meetings; and (5) The comments and staff responses to them were reviewed and accepted for inclusion in the CLRP and TIP by the TPB on July 16, 2008; and the final version of the TIP will include summaries of the comments and the responses; and

WHEREAS, on July 16, 2008, the TPB determined that the 2008 CLRP with NVTA funded projects conforms with the requirements of the Clean Air Act Amendments of 1990; and

WHEREAS, the TPB Technical Committee has recommended favorable action on the 2008 CLRP with NVTA funded projects by the Board,

NOW, THEREFORE, BE IT RESOLVED THAT THE NATIONAL CAPITAL REGION TRANSPORTATION PLANNING BOARD approves the 2008 Constrained Long-Range Transportation Plan for the National Capital Region, as described in the attached memorandum, the TPB web site, and Appendix B of the Air Quality Conformity report.

National Capital Region Transportation Planning Board
777 North Capitol Street, N.E., Suite 300, Washington, D.C. 20002-4290 (202) 962-3310 Fax: (202) 962-3202

M E M O R A N D U M

July 9, 2008

TO: Transportation Planning Board

FROM: Ronald F. Kirby
Director of Transportation Planning

SUBJECT: Proposed Significant Changes for the Air Quality Conformity Analysis of the 2008 CLRP and FY 2009-2014 TIP With Northern Virginia Transportation Authority (NVTA) Funded Projects

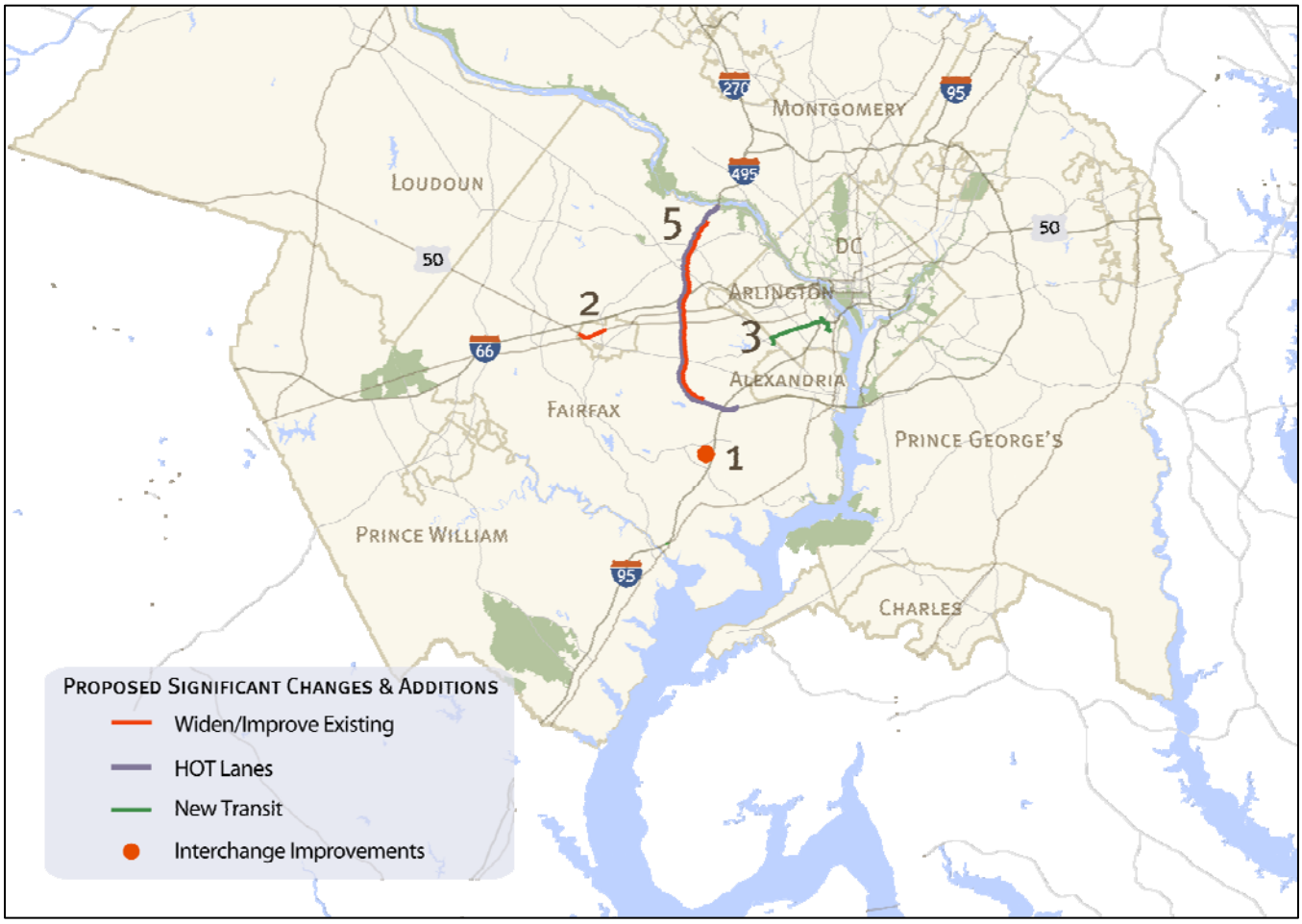
The attachment describes the proposed significant changes with the NVTA funded projects reflected in the air quality conformity inputs for the 2008 CLRP and the FY 2009-2014 TIP. These projects were approved by the TPB for inclusion in the air quality conformity analysis at the February 20, 2008 TPB meeting.

Figure 1 shows the proposed significant additions and changes to the 2008 CLRP on a regional map; descriptions of each project follow. The detailed CLRP description forms for these changes begin on page 7. Please note that significant changes are those relating to relating to interstates, principal arterials, and other limited access parkways and roadways.

Attachment

Significant Additions and Changes to The 2008 Update to the Financially Constrained Long-Range Transportation Plan (CLRP)

Figure 1: Significant Additions and Changes to the 2008 Update to the CLRP



Significant Additions to the CLRP

1. Access to Ft. Belvoir Engineering Proving Grounds (EPG): I-95 and Fairfax County Parkway (BRAC)
2. Widen Segments of US 50 between Eaton Place and Jermantown Road Within the City of Fairfax
3. Columbia Pike Streetcar From Skyline to Pentagon City
4. Fairfax Connector Service Transit Development Plan (Not shown on map)

Significant Changes to the CLRP

5. I-495 Capital Beltway HOV-HOT Lanes
6. I-95/395 HOV-HOT-Bus Lanes Transit Plan Revisions (Not shown on map)

Significant Additions to the CLRP

1. Access to Ft. Belvoir Engineering Proving Grounds (EPG): I-95 and Fairfax County Parkway (BRAC)

Two projects have been proposed to meet expected demand at the Fort Belvoir EPG due to the Base Realignment and Closures (BRAC) act.

A. I-95 Access to Fort Belvoir includes the following improvements:

- Widen the existing ramp from southbound I-95 to the Fairfax County Parkway and EPG southern loop road with an additional barrier-separated lane, providing dedicated access to the EPG for DOD personnel only.
- A new reversible, single-lane approach bridge from the northbound HOV/Bus/HOT lanes to the EPG's southern loop road. This connection will provide access from the northbound I-95 HOV lanes in the morning. In the evening, access will reverse to the northbound I-95 general purpose lanes and the southbound HOV lanes.

Complete: 2011, 2013
Cost: $28.8 million
Source: Federal funding

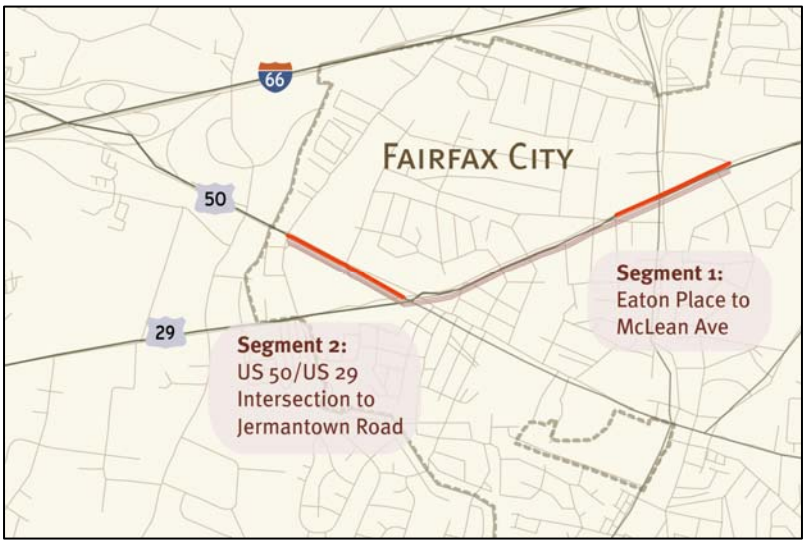
B. Fairfax County Parkway Access to Fort Belvoir

- A one-lane ramp from the EPG Access Road to northbound Fairfax County Parkway and a two-lane ramp from the Access Road to southbound Fairfax County Parkway. The proposed ramps will connect to the proposed interchange at Rolling Road, which is already included in the CLRP.

Complete: 2011
Cost: $6.8 million
Source: Federal funding

2. Widen Segments of US 50 between Eaton Place and Jermantown Road Within the City of Fairfax

Widen two segments of US 50 from Eaton Place to McLean Avenue and from the VA 236/VA 29 to Jermantown Road from four to five lanes. Project will also include pedestrian improvements and support the development of express shuttle service to the Vienna/Fairfax-GMU Metrorail Station and other circulator shuttle services to connect activity centers.



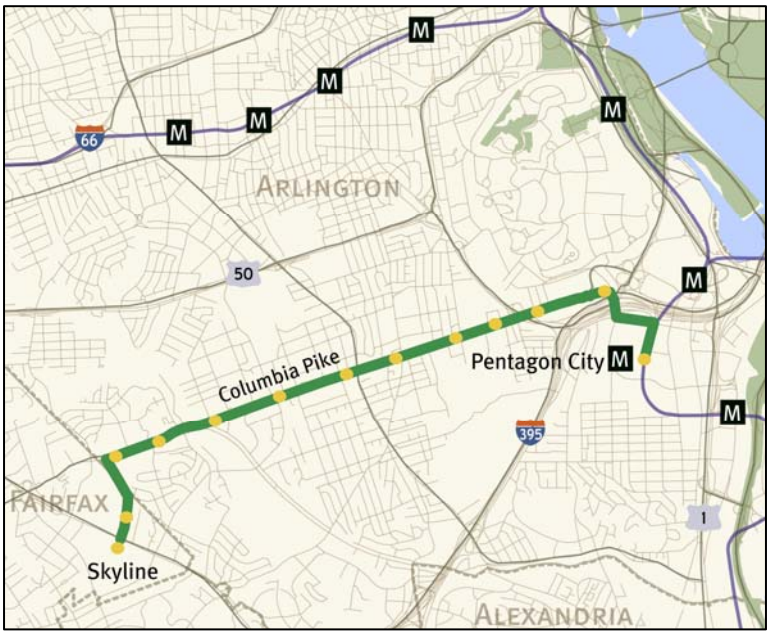
Length: 5 miles
Complete: 2009

Cost: $2 million
Source: Local funding

3. **Columbia Pike Streetcar**
From Skyline to Pentagon City

Design, construct and operate a streetcar system running approximately 4.7 miles between Pentagon City in Arlington County and Skyline in Fairfax County. For most of the route, streetcars will travel in mixed traffic.

Length: 4.7 miles
Complete: 2014
Cost: $138.5 million
Source: State and local funding



4. **Fairfax Connector Service Transit Development Plan**
Not shown on map.

Increase bus service on priority routes and purchase 76 new Fairfax Connector buses. Expand the West Ox Bus Operations Facility to accommodate new buses and increased service. Also includes bus stop access and safety improvements identified as part of the Bus Stop Inventory and Safety Study.

Complete: 2010
Cost: $91.9
Source: Local funding

Significant Changes to the CLRP

The following projects are included in the 2007 CLRP, but significant changes have been proposed for the 2008 CLRP.

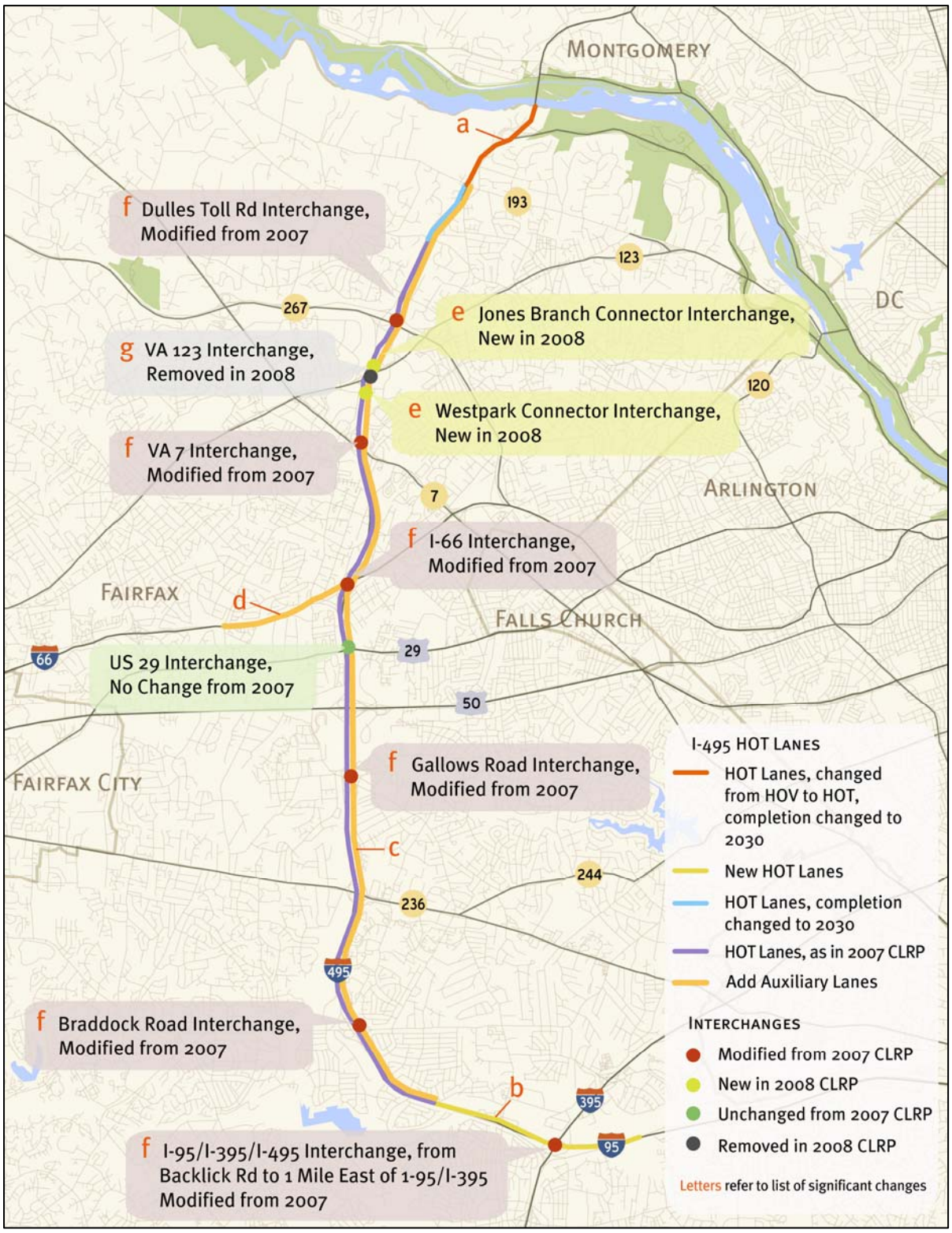
5. I-495 Capital Beltway HOV-HOT Lanes

The 14 mile stretch of HOV-HOT Lanes on the Capital Beltway between Backlick Road and Old Dominion Drive is scheduled to be complete in 2013. The following changes have been proposed for the Capital Beltway HOT-HOV Lanes Project, as shown in the figure on the following page:

a) The northern terminus of the HOT lanes will extend 2 lanes from Georgetown Pike to the American Legion Bridge. These were previously planned as HOV lanes to be complete in 2015 and are now proposed as HOT lanes to be complete in 2030.
   A 4 lane stretch of HOT lanes from Georgetown Pike (193) to Old Dominion Drive will be complete in 2030 instead of 2013.
b) The southern terminus of the HOT lanes has been extended to include 2 HOT lanes from the Hemming Avenue underpass to one mile east of the I-95/395/495 Interchange. This segment is scheduled to be completed by 2013.
c) One additional general purpose auxiliary lane from Georgetown Pike to the Hemming Avenue underpass will be added in each direction to connect the on-ramps and off-ramps between interchanges.
d) Auxiliary lanes will be added on eastbound and westbound I-66 between the I-495 interchange and Cedar Lane (see accompanying CLRP description Form for details).
e) Two new interchanges are planned at the westbound Jones Branch Connector and the westbound WestPark Connector.
f) Planned HOT lane interchanges at the Dulles toll Road, VA 7, I-66, Gallows Road, Braddock Road and I-95/395 will be modified (see accompanying CLRP Description Form for details).
g) A planned HOT lane interchange at VA 123 is being removed from the project scope.

Length: 14 miles
Complete: 2013, 2030
Cost: $1.619 billion
Source: Federal, state, private and bond funding

Proposed Changes to the I-495 Capital Beltway HOV-HOT Lanes Project for the 2008 CLRP



6. I-95/395 HOV-HOT-Bus Lanes Transit Plan Revisions

Not shown on map.

The Transit Plan for the I-95/395 HOT Lanes project has been revised to reflect the results of the Transit/Transportation Demand Management (TDM) Study conducted by the Virginia Department of Rail and Public transportation (DRPT) and the Technical Advisory Committee. The following significant changes have been proposed for the Transit Plan. Full details can be found in Attachment A to the accompanying CLRP Description Form).

- The Transit/TDM plan's cost and revenue estimates have been revised to reflect the revised transit investment strategy for the corridor.
    - Earlier capital investments of $76 million revised to $152 million to reflect increased investment into transit facilities
    - Earlier operating expenses of $314 million revised to $245 million to reflect revised service plan, service duration and fare box recovery

- Greater level of improvement/investment into transit facilities.
    - 3 new transit stations along the corridor
    - Improvements at 4 VRE stations – platform extension and overnight storage
    - 9 new or enhanced TDM initiatives
    - 3,750 park and ride spaces in addition to the 3,000 proposed earlier
    - 3 new/improved transit centers instead of 1 bus maintenance facility
    - 76 new buses and 6 VRE rail cars instead of 184 new buses

FINANCIALLY CONSTRAINED LONG-RANGE TRANSPORTATION PLAN FOR 2030
PROJECT DESCRIPTION FORM

1A. I-95 Access to Fort Belvoir Engineering Proving Grounds (BRAC) – 1 of 2

BASIC PROJECT INFORMATION

1. Submitting Agency: FHWA – Eastern Federal Lands Highway Division
2. Secondary Agency: Virginia Department of Transportation
3. Agency Project ID:
4. Project Type: ✓ Interstate _ Primary _ Secondary _ Urban _ Bridge _ Bike/Ped _ Transit _ CMAQ _ ITS _ Enhancement _ Other ✓ Federal Lands Highways Program _ Human Service Transportation Coordination _ TERMs
5. Category: ✓ System Expansion; _ System Maintenance; _ Operational Program; _ Study; _ Other

6. Project Name: EGP Access to I-95 – reversible ramp from the EPG southern loop road to / from I-95.

	Prefix	Route	Name	Modifier
7. Facility:			I-95 Reversible Ramp	
8. From (_ at):			EPG Southern Loop Road	
9. To:		I-95	NB HOV/BUS/HOT Lanes	

10. Description: The proposed construction would include a reversible single lane approach road and structure over Backlick Road, Southbound I-95 general purpose lanes, and HOV/BUS/HOT lanes; tying into an existing slip ramp from the HOV lanes to northbound general purpose lanes. The project will provide access to the EPG from NB I-95 HOV in the AM and egress from the EPG to NB I-95 NB general purpose lanes and SB HOV lanes in the PM.

    This project is being proposed as part of the nationwide BRAC activities, which calls for provision of 8,500 new Defense Department employmees within the EPG site. The proposed roadway will improve traffic flow along the Fairfax County Parkway and provide for efficient access/egress in and out of the EPG site.

    The project is currently in the Preliminary Engineering phase with construction anticipated to begin in March 2010 and complete by September 2011. Funding for the project is anticipated to be provided by the Department of Defense's Defense Access Roadway Program.

11. Projected Completion Date: September 2011
12. Project Manager: Kurt Dowden
13. Project Manager E-Mail: Kurt.Dowden@fhwa.dot.gov
14. Project Information URL: N/A
15. Total Miles: 0.24 miles
16. Schematic: See attachment (EPG I-95 Reversible Ramp SLR CLRP Form Fig.pdf).
17. Documentation: N/A
18. Bicycle or Pedestrian Accommodations: ✓ Not Included; _ Included; _ Primarily a Bike/Ped Project; _ N/A
19. Jurisdictions:
20. Total cost (in Thousands): $17,750

21. Remaining cost (in Thousands): $17,750

22. Funding Sources: ✓ Federal; _ State; _ Local; _ Private; _ Bonds; _ Other

SAFETEA-LU PLANNING FACTORS

23. Please identify any and all planning factors that are addressed by this project:

✓ Support the **economic vitality** of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency.

✓ Increase the **safety** of the transportation system for all motorized and non-motorized users.

a. Is this project being proposed specifically to address a safety issue? _ Yes; ✓ No

b. If yes, briefly describe (in quantifiable terms, where possible) the nature of the safety problem:

✓Increase the ability of the transportation system to support **homeland security** and to safeguard the personal security of all motorized and non-motorized users.

✓ Increase **accessibility and mobility** of people and freight.

✓ Protect and enhance the **environment**, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns.

✓ Enhance the **integration and connectivity** of the transportation system, across and between modes, for people and freight.

_ Promote efficient system **management and operation**.

✓ Emphasize the **preservation** of the existing transportation system.

ENVIRONMENTAL MITIGATION

24. Have any potential mitigation activities been identified for this project? _ Yes; ✓No

a. If yes, what types of mitigation activities have been identified?

_ Air Quality; _ Floodplains; _ Socioeconomics; _ Geology, Soils and Groundwater; Vibrations;

_ Energy; _ Noise; _ Surface Water; _ Hazardous and Contaminated Materials; _ Wetlands

CONGESTION MANAGEMENT INFORMATION

25. Do traffic congestion conditions necessitate the proposed project? ✓ Yes; _ No

a. If so, is the congestion recurring or non-recurring? ✓ Recurring; _ Non-recurring

b. If the congestion is on another facility, please identify it: Fairfax County Parkway

c. What is the measured or estimated Level of Service on this facility? ___ ; _ Measured; _ Estimated

26. Is this a capacity-increasing project on a limited access highway or other arterial highway of a functional class higher than minor arterial? ✓ Yes; _ No

a. If yes, does this project require a Congestion Management Documentation form under the given criteria (see *Call for Projects* document)? _ Yes; ✓ No

b. If not, please identify the criteria that exempt the project here:

✓ The number of lane-miles added to the highway system by the project totals less than 1 lane-mile

_ The project is an intersection reconstruction or other traffic engineering improvement, including replacement of an at-grade intersection with an interchange

_ The project will not allow motor vehicles, such as a bicycle or pedestrian facility

_ The project consists of preliminary studies or engineering only, and is not funded for construction

_ The project received NEPA approval on or before April 6, 1992

_ The project was already under construction on or before September 30, 1997, or construction funds were already committed in the FY98-03 TIP.

_ The construction costs for the project are less than $5 million.

INTELLIGENT TRANSPORTATION SYSTEMS

27. Is this an Intelligent Transportation Systems (ITS) project as defined in federal law and regulation, and therefore subject to Federal Rule 940 Requirements? _ Yes; ✓ No
28. If yes, what is the status of the systems engineering analysis compliant with Federal Rule 940 for the project? _ Not Started; _ Ongoing, not complete; _ Complete
29. Under which Architecture:
    _ DC, Maryland or Virginia State Architecture
    _ WMATA Architecture
    _ COG/TPB Regional ITS Architecture
    _ Other, please specify:
30. Completed Date:
31. _ Project is being withdrawn from the CLRP.
32. Withdrawn Date:
33. Record Creator:
34: Created On:
35. Last Updated by:
36. Last Updated On:
37. Comments

FINANCIALLY CONSTRAINED LONG-RANGE TRANSPORTATION PLAN FOR 2030
PROJECT DESCRIPTION FORM

1B. I-95 Access to Fort Belvoir Engineering Proving Grounds (BRAC) – 2 of 2

BASIC PROJECT INFORMATION

1. Submitting Agency: FHWA – Eastern Federal Lands Highway Division
2. Secondary Agency: Virginia Department of Transportation
3. Agency Project ID:
4. Project Type: ✓ Interstate _ Primary _ Secondary _ Urban _ Bridge _ Bike/Ped _ Transit _ CMAQ _ ITS _ Enhancement _ Other ✓ Federal Lands Highways Program _ Human Service Transportation Coordination _ TERMs
5. Category: ✓ System Expansion; _ System Maintenance; _ Operational Program; _ Study; _ Other

6. Project Name: SB I-95 Ramp

	Prefix	Route	Name	Modifier
7. Facility:			I-95 Ramp	
8. From (_ at):		I-95	SB I-95	
9. To:		7100	NB Fairfax County Pkwy. / EPG Southern Loop Road	

10. Description: The proposed construction would include adding a lane to the existing ramp from SB I-95 to NB Fairfax County Parkway. This additional lane would be barrier separated and would provide access to the EPG southern loop road.

    The proposed project will add an additional lane to the ramp from SB I-95 to NB Fairfax County Parkway. This additional lane will be barrier separated from the Parkway and will provide a dedicated lane for access to the EPG. This ramp is intended to be used only by Defense Department personnel employed at the EPG site.

    This project is being proposed as part of the nationwide BRAC activities, which calls for provision of 8,500 new Defense Department employees within the EPG site. The proposed roadway will improve traffic flow along the Fairfax County Parkway and provide for efficient access to the EPG site.

    The project is currently in the Preliminary Engineering phase with construction anticipated to begin in 2009 and be completed by December, 2010. Funding for the project is anticipated to be provided by the Department of Defense's Defense Access Roadway Program.

11. Projected Completion Date: December 2010
12. Project Manager: Kurt Dowden
13. Project Manager E-Mail: Kurt.dowden@fhwa.dot.gov
14. Project Information URL: N/A
15. Total Miles: 0.75 miles
16. Schematic: See attachment (EPG SB I-95 to FCP CLRP Form Fig.pdf).
17. Documentation: N/A

18. Bicycle or Pedestrian Accommodations: ✓ Not Included; _ Included; _ Primarily a Bike/Ped Project; _ N/A
19. Jurisdictions:
20. Total cost (in Thousands): $11,088
21. Remaining cost (in Thousands): $11,088
22. Funding Sources: ✓ Federal; _ State; _ Local; _ Private; _ Bonds; _ Other

SAFETEA-LU PLANNING FACTORS

23. Please identify any and all planning factors that are addressed by this project:

✓ Support the **economic vitality** of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency.

✓ Increase the **safety** of the transportation system for all motorized and non-motorized users.

a. Is this project being proposed specifically to address a safety issue? _ Yes; ✓ No

b. If yes, briefly describe (in quantifiable terms, where possible) the nature of the safety problem:

✓Increase the ability of the transportation system to support **homeland security** and to safeguard the personal security of all motorized and non-motorized users.

✓ Increase **accessibility and mobility** of people and freight.

✓ Protect and enhance the **environment**, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns.

_ Enhance the **integration and connectivity** of the transportation system, across and between modes, for people and freight.

_ Promote efficient system **management and operation**.

✓ Emphasize the **preservation** of the existing transportation system.

ENVIRONMENTAL MITIGATION

24. Have any potential mitigation activities been identified for this project? _ Yes; ✓No

a. If yes, what types of mitigation activities have been identified?

_ Air Quality; _ Floodplains; _ Socioeconomics; _ Geology, Soils and Groundwater; Vibrations;
_ Energy; _ Noise; _ Surface Water; _ Hazardous and Contaminated Materials; _ Wetlands

CONGESTION MANAGEMENT INFORMATION

25. Do traffic congestion conditions necessitate the proposed project? ✓ Yes; _ No

a. If so, is the congestion recurring or non-recurring? ✓ Recurring; _ Non-recurring

b. If the congestion is on another facility, please identify it: Fairfax County Parkway

c. What is the measured or estimated Level of Service on this facility? ___ ; _ Measured; _ Estimated

26. Is this a capacity-increasing project on a limited access highway or other arterial highway of a functional class higher than minor arterial? ✓ Yes; _ No

a. If yes, does this project require a Congestion Management Documentation form under the given criteria (see *Call for Projects* document)? _ Yes; ✓ No

b. If not, please identify the criteria that exempt the project here:

✓ The number of lane-miles added to the highway system by the project totals less than 1 lane-mile

_ The project is an intersection reconstruction or other traffic engineering improvement, including replacement of an at-grade intersection with an interchange

_ The project will not allow motor vehicles, such as a bicycle or pedestrian facility

_ The project consists of preliminary studies or engineering only, and is not funded for construction

_ The project received NEPA approval on or before April 6, 1992

_ The project was already under construction on or before September 30, 1997, or construction funds were already committed in the FY98-03 TIP.

_ The construction costs for the project are less than $5 million.

INTELLIGENT TRANSPORTATION SYSTEMS

27. Is this an Intelligent Transportation Systems (ITS) project as defined in federal law and regulation, and therefore subject to Federal Rule 940 Requirements? _ Yes; ✓ No
28. If yes, what is the status of the systems engineering analysis compliant with Federal Rule 940 for the project? _ Not Started; _ Ongoing, not complete; _ Complete
29. Under which Architecture:
    _ DC, Maryland or Virginia State Architecture
    _ WMATA Architecture
    _ COG/TPB Regional ITS Architecture
    _ Other, please specify:
30. Completed Date:
31. _ Project is being withdrawn from the CLRP.
32. Withdrawn Date:
33. Record Creator:
34: Created On:
35. Last Updated by:
36. Last Updated On:
37. Comments

FINANCIALLY CONSTRAINED LONG-RANGE TRANSPORTATION PLAN FOR 2030
PROJECT DESCRIPTION FORM

1B. Fairfax County Parkway Access to Ft. Belvoir EPG (BRAC)

BASIC PROJECT INFORMATION

1. Submitting Agency: FHWA – Eastern Federal Lands Highway Division
2. Secondary Agency: Virginia Department of Transportation
3. Agency Project ID:
4. Project Type: _ Interstate ✓ Primary _ Secondary _ Urban _ Bridge _ Bike/Ped _ Transit _ CMAQ _ ITS _ Enhancement _ Other ✓ Federal Lands Highways Program _ Human Service Transportation Coordination _ TERMs
5. Category: ✓ System Expansion; _ System Maintenance; _ Operational Program; _ Study; _ Other

6. Project Name: Fairfax County Parkway Interchange – from EPG to Fairfax County Parkway

	Prefix	Route	Name	Modifier
7. Facility:		7100	Fairfax County Parkway Ramps	
8. From (_ at):			EPG Access Road	
9. To:		7100	NB and SB Fairfax County Parkway	

10. Description: The proposed construction would provide access to the Fairfax County Parkway from the Fort Belvoir Engineering Proving grounds. The construction would include a one-lane ramp from SB EPG Access Road to NB Fairfax County Parkway and a two-lane ramp from SB EPG Access Road to SB Fairfax County Parkway. The proposed ramps would tie into the proposed Fairfax County Parkway / Rolling Road interchange which is already included in the TPB's CLRP and Conformity. This previously proposed interchange includes access into the EPG from both directions of the Parkway.

    This project is being proposed as part of the nationwide BRAC activities, which calls for provision of 8,500 new Defense Department employment within the EPG site. The proposed roadway will improve traffic flow along the Fairfax County Parkway and provide for efficient access/egress in and out of the EPG site.

    The project is currently in the Preliminary Engineering phase with construction anticipated to begin in October 2009 and be completed by December 2010. Funding for the project is anticipated to be provided by the Department of Defense's Defense Access Roadway Program.

11. Projected Completion Date: December 2010
12. Project Manager: Kurt Dowden
13. Project Manager E-Mail: Kurt.Dowden@fhwa.dot.gov
14. Project Information URL: N/A
15. Total Miles: NB Ramp – 0.40 miles; SB Ramp – 0.60 miles
16. Schematic: See attachment (EPG FCP Ramps at Rolling Rd CLRP Form Fig.pdf)
17. Documentation:
18. Bicycle or Pedestrian Accommodations: ✓ Not Included; _ Included; _ Primarily a Bike/Ped Project; _ N/A
19. Jurisdictions:

1B. FAIRFAX COUNTY PARKWAY ACCESS TO FT. BELVOIR EPG (BRAC)

20. Total cost (in Thousands): $6,775
21. Remaining cost (in Thousands): $6,775
22. Funding Sources: ✓ Federal; _ State; _ Local; _ Private; _ Bonds; _ Other

SAFETEA-LU PLANNING FACTORS

23. Please identify any and all planning factors that are addressed by this project:

✓ Support the **economic vitality** of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency.

✓ Increase the **safety** of the transportation system for all motorized and non-motorized users.

a. Is this project being proposed specifically to address a safety issue? _ Yes; ✓ No

b. If yes, briefly describe (in quantifiable terms, where possible) the nature of the safety problem:

✓ Increase the ability of the transportation system to support **homeland security** and to safeguard the personal security of all motorized and non-motorized users.

✓ Increase **accessibility and mobility** of people and freight.

✓ Protect and enhance the **environment**, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns.

_ Enhance the **integration and connectivity** of the transportation system, across and between modes, for people and freight.

_ Promote efficient system **management and operation**.

✓ Emphasize the **preservation** of the existing transportation system.

ENVIRONMENTAL MITIGATION

24. Have any potential mitigation activities been identified for this project? _ Yes; ✓No

a. If yes, what types of mitigation activities have been identified?

_ Air Quality; _ Floodplains; _ Socioeconomics; _ Geology, Soils and Groundwater; Vibrations;

_ Energy; _ Noise; _ Surface Water; _ Hazardous and Contaminated Materials; _ Wetlands

CONGESTION MANAGEMENT INFORMATION

25. Do traffic congestion conditions necessitate the proposed project? ✓ Yes; _ No

a. If so, is the congestion recurring or non-recurring? ✓ Recurring; _ Non-recurring

b. If the congestion is on another facility, please identify it:

c. What is the measured or estimated Level of Service on this facility? ___ ; _ Measured; _ Estimated

26. Is this a capacity-increasing project on a limited access highway or other arterial highway of a functional class higher than minor arterial? ✓ Yes; _ No

a. If yes, does this project require a Congestion Management Documentation form under the given criteria (see *Call for Projects* document)? _ Yes; ✓ No

b. If not, please identify the criteria that exempt the project here:

✓ The number of lane-miles added to the highway system by the project totals less than 1 lane-mile

_ The project is an intersection reconstruction or other traffic engineering improvement, including replacement of an at-grade intersection with an interchange

_ The project will not allow motor vehicles, such as a bicycle or pedestrian facility

_ The project consists of preliminary studies or engineering only, and is not funded for construction

_ The project received NEPA approval on or before April 6, 1992

1B. FAIRFAX COUNTY PARKWAY ACCESS TO FT. BELVOIR EPG (BRAC)

_ The project was already under construction on or before September 30, 1997, or construction funds were already committed in the FY98-03 TIP.

_ The construction costs for the project are less than $5 million.

INTELLIGENT TRANSPORTATION SYSTEMS

27. Is this an Intelligent Transportation Systems (ITS) project as defined in federal law and regulation, and therefore subject to Federal Rule 940 Requirements? _ Yes; ✓ No
28. If yes, what is the status of the systems engineering analysis compliant with Federal Rule 940 for the project? _ Not Started; _ Ongoing, not complete; _ Complete
29. Under which Architecture:
    _ DC, Maryland or Virginia State Architecture
    _ WMATA Architecture
    _ COG/TPB Regional ITS Architecture
    _ Other, please specify:
30. Completed Date:
31. _ Project is being withdrawn from the CLRP.
32. Withdrawn Date:
33. Record Creator:
34: Created On:
35. Last Updated by:
36. Last Updated On:
37. Comments

FINANCIALLY CONSTRAINED LONG-RANGE TRANSPORTATION PLAN FOR 2030
PROJECT DESCRIPTION FORM

Widen Segments of US 50 between Eaton Place and Jermantown Road

BASIC PROJECT INFORMATION

1. Submitting Agency: DPW, City of Fairfax
2. Secondary Agency: None
3. Agency Project ID:
4. Project Type: _ Interstate √ Primary _ Secondary _ Urban _ Bridge _ Bike/Ped _ Transit _ CMAQ _ ITS _ Enhancement _ Other _ Federal Lands Highways Program _ Human Service Transportation Coordination _ TERMs
5. Category: _ System Expansion; _ System Maintenance; _ Operational Program; _ Study; _ Other

6. Project Name:

	Prefix	Route	Name	Modifier
7. Facility:	Rte.	50	Route 50 Corridor Multi-modal Improvements	
8. From (_ at):			Eaton Place/Route 50/29 Intersection	
9. To:			Jermantown Road/Route 236 Intersection	

10. Description: Multi-modal improvements to support the development of multi-use activity centers. Improvements will include, widening of Route 50 from the intersection of Route 50 and Eaton Place to the intersection of Route 50/236 and Jermantown Road, local roads around and within the activity centers, wider sidewalks around the activity centers, trails connecting to residential communities, express shuttle service connecting the activity centers to the Vienna/Fairfax-GMU Metrorail station, and circulator shuttles connecting the activity centers.

11. Projected Completion Date: 2009
12. Project Manager: Alexis Versoza
13. Project Manager E-Mail: Averzosa@fairfaxva.gov
14. Project Information URL:
15. Total Miles: Five (5)
16. Schematic:
17. Documentation:
18. Bicycle or Pedestrian Accommodations: _ Not Included; √ Included; _ Primarily a Bike/Ped Project; _ N/A
19. Jurisdictions: City of Fairfax, Virginia
20. Total cost (in Thousands): $2,000
21. Remaining cost (in Thousands): Not applicable
22. Funding Sources: _ Federal; _ State; √ Local; _ Private; _ Bonds; _ Other

WIDEN SEGMENTS OF US 50 BETWEEN EATON PLACE AND JERMANTOWN ROAD

SAFETEA-LU PLANNING FACTORS

23. Please identify any and all planning factors that are addressed by this project:

√ Support the **economic vitality** of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency.

√ Increase the **safety** of the transportation system for all motorized and non-motorized users.

a. Is this project being proposed specifically to address a safety issue? _ Yes; _ No

b. If yes, briefly describe (in quantifiable terms, where possible) the nature of the safety problem:

_ Increase the ability of the transportation system to support **homeland security** and to safeguard the personal security of all motorized and non-motorized users.

√ Increase **accessibility and mobility** of people and freight.

√ Protect and enhance the **environment**, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns.

_ Enhance the **integration and connectivity** of the transportation system, across and between modes, for people and freight.

_ Promote efficient system **management and operation**.

_ Emphasize the **preservation** of the existing transportation system.

ENVIRONMENTAL MITIGATION

24. Have any potential mitigation activities been identified for this project? _ Yes; √ No

a. If yes, what types of mitigation activities have been identified?

_ Air Quality; _ Floodplains; _ Socioeconomics; _ Geology, Soils and Groundwater; Vibrations;

_ Energy; _ Noise; _ Surface Water; _ Hazardous and Contaminated Materials; _ Wetlands

CONGESTION MANAGEMENT INFORMATION

25. Do traffic congestion conditions necessitate the proposed project? √ Yes; _ No

a. If so, is the congestion recurring or non-recurring? √ Recurring; _ Non-recurring

b. If the congestion is on another facility, please identify it:

c. What is the measured or estimated Level of Service on this facility? ___ ; _ Measured; _ Estimated

26. Is this a capacity-increasing project on a limited access highway or other arterial highway of a functional class higher than minor arterial? √ Yes; _ No

a. If yes, does this project require a Congestion Management Documentation form under the given criteria (see *Call for Projects* document)? _ Yes; √ No

b. If not, please identify the criteria that exempt the project here:

_ The number of lane-miles added to the highway system by the project totals less than 1 lane-mile

_ The project is an intersection reconstruction or other traffic engineering improvement, including replacement of an at-grade intersection with an interchange

_ The project will not allow motor vehicles, such as a bicycle or pedestrian facility

√ The project consists of preliminary studies or engineering only, and is not funded for construction

_ The project received NEPA approval on or before April 6, 1992

_ The project was already under construction on or before September 30, 1997, or construction funds were already committed in the FY98-03 TIP.

_ The construction costs for the project are less than $5 million.

WIDEN SEGMENTS OF US 50 BETWEEN EATON PLACE AND JERMANTOWN ROAD

INTELLIGENT TRANSPORTATION SYSTEMS

27. Is this an Intelligent Transportation Systems (ITS) project as defined in federal law and regulation, and therefore subject to Federal Rule 940 Requirements? _ Yes; √ No
28. If yes, what is the status of the systems engineering analysis compliant with Federal Rule 940 for the project? _ Not Started; _ Ongoing, not complete; _ Complete
29. Under which Architecture:
    _ DC, Maryland or Virginia State Architecture
    _ WMATA Architecture
    _ COG/TPB Regional ITS Architecture
    _ Other, please specify:
30. Completed Date:
31. _ Project is being withdrawn from the CLRP.
32. Withdrawn Date:
33. Record Creator:
34: Created On:
35. Last Updated by:
36. Last Updated On:
37. Comments

FINANCIALLY CONSTRAINED LONG-RANGE TRANSPORTATION PLAN FOR 2030
PROJECT DESCRIPTION FORM

Columbia Pike Streetcar from Skyline to Pentagon City

BASIC PROJECT INFORMATION

1. Submitting Agency: **VDOT**
2. Secondary Agency: **Arlington County DPW**
3. Agency Project ID: **ARL0016**
4. Project Type: _ Interstate _ Primary _ Secondary _ Urban _ Bridge _ Bike/Ped **X** Transit _ CMAQ _ ITS _ Enhancement _ Other _ Federal Lands Highways Program _ Human Service Transportation Coordination _ TERMs
5. Category: **X** System Expansion; _ System Maintenance; _ Operational Program; _ Study; _ Other

6. Project Name: **Columbia Pike Street Cars**

	Prefix	Route	Name	Modifier
7. Facility:			**Columbia Pike**	
8. From (_ at):			**Skyline (Fairfax County)**	
9. To:			**Pentagon City**	

10. Description: Provides streetcars and stops on Columbia Pike.

This is a joint project between Fairfax and Arlington Counties along Columbia Pike to bring an enhanced form of surface transit to this heavily used transit corridor. The project consists of environmental studies, preliminary engineering, design and construction of a streetcar running approx. 4.7 miles between Pentagon City in Arlington County and Skyline in Fairfax County. The Streetcar was selected by the Board of each county in 2006 as the locally preferred alternative to provide enhanced transit and promote revitalization and redevelopment of this corridor. For most of its length, the streetcar will run in mixed traffic. It will be constructed in coordination with another project to reconstruct Columbia Pike through Arlington County with enhanced streetscape and consistent five lane cross section.

11. Projected Completion Date: **2014**
12. Project Manager:
13. Project Manager E-Mail:
14. Project Information URL:
15. Total Miles: **4.7**
16. Schematic:
17. Documentation:
18. Bicycle or Pedestrian Accommodations: _ Not Included; _ Included; _ Primarily a Bike/Ped Project; _ N/A
19. Jurisdictions: Arlington County
20. Total cost (in Thousands): **$138,500**
21. Remaining cost (in Thousands):
22. Funding Sources: _ Federal; _ State; _ Local; _ Private; _ Bonds; _ Other

SAFETEA-LU PLANNING FACTORS

23. Please identify any and all planning factors that are addressed by this project:
    a. _ Support the **economic vitality** of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency.
    b. **X** Increase the **safety** of the transportation system for all motorized and non-motorized users.
        i. Is this project being proposed specifically to address a safety issue? _ Yes; _ No
        ii. If yes, briefly describe (in quantifiable terms, where possible) the nature of the safety problem:
    c. _ Increase the ability of the transportation system to support **homeland security** and to safeguard the personal security of all motorized and non-motorized users.
    d. **X** Increase **accessibility and mobility** of people and freight.
    e. _ Protect and enhance the **environment**, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns.
    f. _ Enhance the **integration and connectivity** of the transportation system, across and between modes, for people and freight.
    g. _ Promote efficient system **management and operation**.
    h. _ Emphasize the **preservation** of the existing transportation system.

ENVIRONMENTAL MITIGATION

24. Have any potential mitigation activities been identified for this project? _ Yes; **X** No
    a. If yes, what types of mitigation activities have been identified?
    _ Air Quality; _ Floodplains; _ Socioeconomics; _ Geology, Soils and Groundwater; Vibrations;
    _ Energy; _ Noise; _ Surface Water; _ Hazardous and Contaminated Materials; _ Wetlands

CONGESTION MANAGEMENT INFORMATION

25. Do traffic congestion conditions necessitate the proposed project? _ Yes; _ No
    a. If so, is the congestion recurring or non-recurring? _ Recurring; _ Non-recurring
    b. If the congestion is on another facility, please identify it:
    c. What is the measured or estimated Level of Service on this facility? ___ ; _ Measured; _ Estimated
26. Is this a capacity-increasing project on a limited access highway or other principal arterial? _ Yes; _ No
    a. If yes, does this project require a Congestion Management Documentation form under the given criteria (see page 34 of the *Call for Projects* document)? _ Yes; Click here to access a Congestion Management Documentation Form.
    b. If not, please identify the criteria that exempt the project here:
    _ The number of lane-miles added to the highway system by the project totals less than 1 lane-mile
    _ The project is an intersection reconstruction or other traffic engineering improvement, including replacement of an at-grade intersection with an interchange
    _ The project will not allow motor vehicles, such as a bicycle or pedestrian facility
    _ The project consists of preliminary studies or engineering only, and is not funded for construction
    _ The project received NEPA approval on or before April 6, 1992
    _ The project was already under construction on or before September 30, 1997, or construction funds were already committed in the FY98-03 TIP.
    _ The construction costs for the project are less than $5 million.
    _ The project will not use any Federal funds in any phase of development or construction.

INTELLIGENT TRANSPORTATION SYSTEMS

27. Is this an Intelligent Transportation Systems (ITS) project as defined in federal law and regulation, and therefore subject to Federal Rule 940 Requirements? _ Yes; **X** No
    a. If yes, what is the status of the systems engineering analysis compliant with Federal Rule 940 for the project? _ Not Started; _ Ongoing, not complete; _ Complete
    b. Under which Architecture:
        _ DC, Maryland or Virginia State Architecture
        _ WMATA Architecture
        _ COG/TPB Regional ITS Architecture
        _ Other, please specify:

28. Completed Date:
29. _ Project is being withdrawn from the CLRP.
30. Withdrawn Date:
31. Record Creator: John Barr
32: Created On: 11/1/2007
33. Last Updated by: Andrew Austin
34. Last Updated On: 1/11/2008
35. Comments

FINANCIALLY CONSTRAINED LONG-RANGE TRANSPORTATION PLAN FOR 2030
PROJECT DESCRIPTION FORM

Fairfax Connector Service Transit Development Plan

BASIC PROJECT INFORMATION

1. Agency Project ID: Secondary Agency: Fairfax County, VA
2. Project Type: ✓ System Expansion; _ System Maintenance; _ Operational Program; _ Study; _ Other
   (check all that apply) _ Freeway; _ Primary; _ Secondary; _ Urban; _ Bridge; ✓ Bike/Ped; ✓ Transit; _ CMAQ; _ ITS; _ Enhancement; _ Other
3. Project Title:

	Prefix	Route	Name	Modifier
4. Facility:			Fairfax CONNECTOR Service Improvements	
5. From (_ at):			Countywide	
6. To:				

7. Jurisdiction(s): Fairfax County
8. Description: Fairfax Connector Service Improvements including: Bus Stop, Access and Safety Improvements identified as part of the Bus Stop Inventory and Safety Study; Increased bus service on priority routes; the Purchase of 76 new Fairfax Connector buses to implement the increased bus service; and the expansion of the West Ox Bus Operations Facility to accommodate the increased service and new buses.
9. Bicycle or Pedestrian Accommodations: _ Not Included; ✓ Included; _ Primarily a Bike/Ped Project; _ N/A
10. Total Miles: N/A
11. Project Manager: Tom Black 12. E-Mail: Thomas.Black@Fairfaxcounty.gov
13. Project Information URL:
14. Projected Completion Year: 2010
15. Actual Completion Year: _ Project is ongoing. Year refers to implementation.
16. _ This project is being withdrawn from the Plan as of:
17. Total cost (in Thousands): $91,901
18. Remaining cost (in Thousands): $91,901
19. Funding Sources: _ Federal; _ State; ✓ Local; _ Private; _ Bonds; _ Other

CONGESTION MANAGEMENT INFORMATION

20. Do traffic congestion conditions necessitate the proposed project? ✓ Yes; _ No
21. If so, describe those conditions: ✓ Recurring congestion; _ Non-site specific congestion; _ Frequent incident-related, non-recurring congestion; _ Other
22. Is this a capacity-increasing project on a limited access highway or other arterial highway of a functional class higher than minor arterial? ✓ Yes; _ No
23. If yes, does this project require a Congestion Management Documentation form under the given criteria (see *Call for Projects* document)? ✓ Yes; _ No
24. If not, please identify the criteria that exempt the project here:
    _ The number of lane-miles added to the highway system by the project totals less than 1 lane-mile
    _ The project is an intersection reconstruction or other traffic engineering improvement, including replacement of an at-grade intersection with an interchange
    _ The project will not allow motor vehicles, such as a bicycle or pedestrian facility

_ The project consists of preliminary studies or engineering only, and is not funded for construction

_ The project received NEPA approval on or before April 6, 1992

_ The project was already under construction on or before September 30, 1997, or construction funds were already committed in the FY98-03 TIP.

_ The construction costs for the project are less than $5 million.

SAFETEA-LU PLANNING FACTORS

25. Please identify any and all planning factors that are addressed by this project:

✓ Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency.

✓ Increase the safety of the transportation system for all motorized and non-motorized users.

a. Is this project being proposed specifically to address a safety issue? _ Yes; ✓ No

b. Please identify issues: _ High accident location; ✓ Pedestrian safety; ✓ Other
_ Truck or freight safety; _ Engineer-identified problem

c. Briefly describe (in quantifiable terms, where possible) the nature of the safety problem:

This project will improve the safety and access to the transit stops utilized by the bus passengers. Numerous stops do not have sufficient (if any at all) pedestrian facilities adjacent to them; have no waiting area or shelter; and are poorly lit. This project will address many of these safety issues.

_ Increase the ability of the transportation system to support homeland security and to safeguard the personal security of all motorized and non-motorized users.

✓ Increase accessibility and mobility of people and freight.

✓ Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns.

✓ Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight.

✓ Promote efficient system management and operation.

_ Emphasize the preservation of the existing transportation system.

ENVIRONMENTAL MITIGATION

26. Have any potential mitigation activities been identified for this project? _ Yes; ✓ No

27. If yes, what types of mitigation activities have been identified?

_ Air Quality; _ Floodplains; _ Socioeconomics; _ Geology, Soils and Groundwater; Vibrations;
_ Energy; _ Noise; _ Surface Water; _ Hazardous and Contaminated Materials; _ Wetlands

INTELLIGENT TRANSPORTATION SYSTEMS

28. Is this an Intelligent Transportation Systems (ITS) project as defined in federal law and regulation, and therefore subject to Federal Rule 940 Requirements? _ Yes; ✓ No

29. If yes, what is the status of the systems engineering analysis compliant with Federal Rule 940 for the project? _ Not Started; _ Ongoing, not complete; _ Complete

30. Under which Architecture:

_ DC, Maryland or Virginia State Architecture

_ WMATA Architecture

_ COG/TPB Regional ITS Architecture

FINANCIALLY CONSTRAINED LONG-RANGE TRANSPORTATION PLAN FOR 2030
PROJECT DESCRIPTION FORM

5. Capital Beltway (I-495) Improvements and HOV/HOT Lanes Project

BASIC PROJECT INFORMATION (Jan. 2008 Update)

1. Submitting Agency: Virginia Department of Transportation
2. Secondary Agency:
3. Agency Project ID: 87771
4. Project Type: **X** Interstate **X** Primary **X** Secondary **X** Urban **X** Bridge **X** Bike/Ped _ Transit _ CMAQ **X** ITS _ Enhancement _ Other _ Federal Lands Highways Program _ Human Service Transportation Coordination _ TERMs
5. Category: **X** System Expansion; _ System Maintenance; _ Operational Program; _ Study; _ Other
6. Project Name: Capital Beltway (I-495) Improvements and HOV/HOT Lanes Project

	Prefix	Route	Name	Modifier
7. Facility:	I	495	Capital Beltway	
8. From (_ at):			Backlick Road Underpass	
9. To:			South of Old Georgetown Pike (VA 193)	

10. Description:

The project proposes to implement most of the improvements recommended in the federally approved EIS (as amended via the 2007 Re-evaluation) for the approximately 14 mile stretch of the Capital Beltway (I 495) between Backlick Road underpass to the south and Old Georgetown Pike (VA 193) to the north. The improvements are proposed to be implemented via a joint, public-private partnership between the Virginia Department of Transportation and the consortium of two private sector firms, Fluor Virginia, Inc. and Transurban (USA) Development Inc. The EIS-Reevaluation recommended improvements that are proposed to be implemented may be grouped under two categories: those improvements that are part of the HOV/HOT lanes project funded by the private sector and those that are not explicitly part of the HOV/HOT lanes system and funded by VDOT. A brief description of the combined set of improvements follows, with explanations of VDOT funded improvements at the appropriate places in the text.

This project is being implemented concurrently and in coordination with the implementation of two other VDOT funded projects: (1) the Springfield Interchange – Phase 8 project (between Backlick Rd. and 1 mi. east of the I-95/395/495 interchange), which is at the southern end, and the (2) Capital Beltway HOV/HOT lane project at the northern end of this project (between south of Old Georgetown Pike and the American Legion Bridge). Both of these two projects are listed as independent projects in the MPO's CLRP/Conformity documents.

This Beltway Improvements/HOV-HOT lanes project proposes to Widen I-495 (Capital Beltway) by:

1. Adding 4 HOV-HOT lanes, two in each direction, between the Hemming Ave. underpass at the south to South of the Old Dominion Drive overpass in the north – by 2013; at the southern end this segment will tie in with the proposed Springfield Interchange Phase 8 project and provide the I-495 HOV/HOT lanes traffic access to the HOV/BUS/HOT lanes on I-395 and I-95.
2. Adding 4 HOT lanes, two in each direction, between South of Old Dominion Drive and Old Georgetown Pike (VA 193) in the north – by 2030. This segment will match the previously proposed construction of 2 HOT lanes (one in each direction) between Old Georgetown Pike (VA 193) and the America Legion Bridge by 2030 and allow HOV & HOT traffic to continue

past the terminus of the HOT lanes in this project all the way up to the VA border at American Legion Bridge.

3. The following access points are provided with the proposed project 2013.

    a. Braddock Road -
        i. Drivers headed both west and east on Braddock Road will be able to access NB HOT
        ii. Drivers on SB HOT will be able to access Braddock west and east
    b. Gallows Road -
        i. Drivers headed both west and east on Gallows Road will be able to access NB HOT
        ii. Drivers on SB HOT will be able to access Gallows Road west and east
    c. Route 29 -
        i. Drivers headed both west and east on Route 29 will be able to access SB HOT
        ii. Drivers on NB HOT will be able to access Route 29 west and east
    d. I-66 Interchange -
        i. Drivers on EB I-66 will be able to access NB and SB HOT
        ii. Drivers on WB I-66 will be able to access SB HOT
        iii. Drivers on NB HOT will be able to access EB and WB I-66
        iv. Drivers on SB HOT will be able to access WB I-66

    Additional improvements at this interchange (under UPC 56356) will include relocating the existing GP exit ramp from EB I 66 to NB I 495 GP lanes, so as to have the ramp merge with NB I 495 on the right side. Additionally, modification to other GP ramps including roadway, bridge reconstruction, sound walls, pedestrian/bicycle facilities and incidental construction such as lighting, draining, etc, within the interchange may also be included.

    e. Route 7 -
        i. Drivers headed both west and east on Route 7 will be able to access SB HOT
        ii. Drivers on NB HOT will be able to access Route 7 west and east
    f. Westpark Drive Connection -
        i. Drivers on Westpark Drive will be able to access NB and SB HOT
        ii. Drivers on NB and SB HOT will be able to access Westpark Drive
    g. Jones Branch Drive Connection -
        i. Drivers on Jones Branch Drive will be able to access NB and SB HOT
        ii. Drivers on NB and SB HOT will be able to access Jones Branch Drive
    h. Dulles Toll Road (DTR)
        i. Drivers on EB DTR will be able to access SB HOT
        ii. Drivers on NB HOT will be able to access WB DTR and Dulles Airport Access Road (DAAR)
        iii. Drivers on SB HOT will be able to access WB DTR and DAAR
    i. Auxiliary/CD Lanes will also be included between interchanges on I-495.
    j. Other construction 'Other Construction' activities may include UPC 84742): Pavement rehabilitation along I-66 within the limits of the HOT lanes project; reconstruction of existing interchanges (other than any portion of such interchanges that will provide access to the HOT Lanes for toll-paying vehicles); roadway/bridge reconstruction; sound walls; pedestrian / bicycle facilities; and incidental construction such as lighting, drainage etc. at the following locations within the project limits: Wakefield Park Pedestrian Bridge, Little River Turnpike (Route 236), W&OD Pedestrian Bridge, Idylwood Road (Route 695), Oak Street (Route 769), and Lewinsville Road (Route 694). All of this work is anticipated to be complete by 2013.

4. The following improvements are anticipated by 2030.

a. Braddock Road -
   i. Drivers headed both west and east on Braddock Road will be able to access SB HOT
   ii. Drivers on NB HOT will be able to access Braddock west and east
b. Dulles Toll Road (DTR)
   i. Drivers on EB DTR will be able to access NB HOT
   ii. Drivers on SB HOT will be able to access EB DTR and Dulles Airport Access Road
c. Auxiliary/CD Lanes will also be included between interchanges on I-495 and I-66. On I-66 the limits of auxiliary lanes will be as follows: along EB I-66: 2 lane CD Road between South of Gallows Rd. overpass and SB I-495 Off ramp, and 1 auxiliary lane between Cedar Lane overpass and south of Gallows Rd. overpass; along WB I-66: 2 lane CD road between on ramp from SB I-495 and south of Gallows Rd. overpass and 1 auxiliary lane between Cedar Rd. overpass and south of Gallows Rd. overpass.

Tolling Policy

HOT lanes use dynamic pricing to maintain free-flowing conditions for all users, even during rush hour. The toll rates will vary throughout the day with time of day and with day of week corresponding to demand and congestion levels. Toll rates will be at its lowest when the demand and congestion levels are at its lowest. SAFETEA-LU mandates strict performance standards which are intended to ensure free-flowing conditions on the HOT lanes. The proposed HOT lanes project will include performance monitoring as an integral part of the project and ensure that the SAFETEA-LU mandated performance standards are complied with. Toll prices will be adjusted in response to the level of traffic to ensure free flowing operations on the Bus/HOV/HOT lanes. There will be no price caps on the level of tolls.

Dynamic message signs will provide drivers with current toll rates so they can choose whether or not to use the lanes. Toll collection on the HOV/Bus/HOT lanes will be totally electronic. There will be no toll booths. The dynamic message signs will be supplemented by other notification/communications methods to insure all users, including transit operators, have as much advance knowledge of traffic conditions as is possible.

Incident Management

The project designs will focus on the safety aspects of the facility including cross section layout (lane width and shoulders), operations and incident management. The design and operational features of the project will be integrated with and supported by a performance based, computer aided incident management system. The incident management system will provide 24/7 monitoring and surveillance of the facility and have dedicated motorists assistance equipment and personnel. This system will allow for a rapid detection of incidents that occur in the Bus/HOV/HOT lanes.

Financial Plan

Construction cost for the proposed Project is estimated to be $1,619M (in year of expenditure dollars). Funding sources for the Project includes a combination of private equity and third party debt, including private bank loans and/or Private Activity Bonds, with the potential for TIFIA funding as a form of subordinated debt. As the Project progresses, FTU will explore all avenues of funding to ensure the lowest cost of capital for the Project.

FTU will be fully authorized to toll the facility, which will serve to pay debt service, operating costs and return on equity. Toll revenue will be the main source of revenue for the project. The Commonwealth will enter into a Comprehensive Agreement with FTU, which will authorize FTU to raise the necessary funds to construct the Project.

5. CAPITAL BELTWAY (I-495) IMPROVEMENTS AND HOV/HOT LANES PROJECT

11. Projected Completion Date: 2013
12. Project Manager: Theresa DeFore
13. Project Manager E-Mail: Theresa.DeFore@vdot.virginia.gov
14. Project Information URL: www.VirginiaDOT.org/projects/HOT_495.asp
15. Total Miles: 14 miles
16. Schematic: www.virginiadot.org/projects/resources/495access.pdf. and www.virginiadot.org/projects/resources/TysonsEntryExitpoints.pdf.
17. Documentation:
18. Bicycle or Pedestrian Accommodations: _ Not Included; X Included; _ Primarily a Bike/Ped Project; _ N/A
19. Jurisdictions: Fairfax County
20. Total cost (in Thousands):$1,619,000
21. Remaining cost (in Thousands):
22. Funding Sources: X Federal; X State; _ Local; X Private; X Bonds; _ Other

SAFETEA-LU PLANNING FACTORS

23. Please identify any and all planning factors that are addressed by this project:

√_ Support the **economic vitality** of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency.

_ Increase the **safety** of the transportation system for all motorized and non-motorized users.

a. Is this project being proposed specifically to address a safety issue? _ Yes; _ No

b. If yes, briefly describe (in quantifiable terms, where possible) the nature of the safety problem:

_ Increase the ability of the transportation system to support **homeland security** and to safeguard the personal security of all motorized and non-motorized users.

√ Increase **accessibility and mobility** of people and freight.

√ Protect and enhance the **environment**, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns.

√ Enhance the **integration and connectivity** of the transportation system, across and between modes, for people and freight.

√ Promote efficient system **management and operation**.

_ Emphasize the **preservation** of the existing transportation system.

ENVIRONMENTAL MITIGATION

24. Have any potential mitigation activities been identified for this project? √ Yes; _No

a. If yes, what types of mitigation activities have been identified?

_ Air Quality; √ Floodplains; _ Socioeconomics; _ Geology, Soils and Groundwater; Vibrations;
_ Energy; √ Noise; _ Surface Water; _ Hazardous and Contaminated Materials; √ Wetlands

CONGESTION MANAGEMENT INFORMATION

25. Do traffic congestion conditions necessitate the proposed project? √ Yes; _ No

a. If so, is the congestion recurring or non-recurring? √ Recurring; _ Non-recurring

b. If the congestion is on another facility, please identify it:

c. What is the measured or estimated Level of Service on this facility? ___ ; _ Measured; _ Estimated

5. CAPITAL BELTWAY (I-495) IMPROVEMENTS AND HOV/HOT LANES PROJECT

26. Is this a capacity-increasing project on a limited access highway or other arterial highway of a functional class higher than minor arterial? √ Yes; _ No

a. If yes, does this project require a Congestion Management Documentation form under the given criteria (see *Call for Projects* document)? √ Yes; _ No

b. If not, please identify the criteria that exempt the project here:

_ The number of lane-miles added to the highway system by the project totals less than 1 lane-mile

_ The project is an intersection reconstruction or other traffic engineering improvement, including replacement of an at-grade intersection with an interchange

_ The project will not allow motor vehicles, such as a bicycle or pedestrian facility

_ The project consists of preliminary studies or engineering only, and is not funded for construction

_ The project received NEPA approval on or before April 6, 1992

_ The project was already under construction on or before September 30, 1997, or construction funds were already committed in the FY98-03 TIP.

_ The construction costs for the project are less than $5 million.

INTELLIGENT TRANSPORTATION SYSTEMS

27. Is this an Intelligent Transportation Systems (ITS) project as defined in federal law and regulation, and therefore subject to Federal Rule 940 Requirements? _ Yes; √ No

This project will include various ITS elements which will be consistent with the applicable requirements of Federal Rule 940. A Rule 940 Compliance Checklist will be completed and submitted to FHWA Virginia Division (Danny Jenkins) for concurrence. A Concept of Operations has been prepared. A Project Level ITS Architecture, compliant with the VDOT Northern Region ITS Architecture, will be developed.

28. If yes, what is the status of the systems engineering analysis compliant with Federal Rule 940 for the project? _ Not Started; X Ongoing, not complete; _ Complete

29. Under which Architecture:

_ DC, Maryland or Virginia State Architecture

_ WMATA Architecture

_ COG/TPB Regional ITS Architecture

X Other, please specify: VDOT Northern Region ITS Architecture

30. Completed Date:

31. _ Project is being withdrawn from the CLRP.

32. Withdrawn Date:

33. Record Creator:

34: Created On:

35. Last Updated by:

36. Last Updated On:

37. Comments: Updated CLRP form submitted as part of the 2008 CLRP Update on 1/14/08.

FINANCIALLY CONSTRAINED LONG-RANGE TRANSPORTATION PLAN FOR 2030
PROJECT DESCRIPTION FORM

6. I-95 / I-395 HOV / Bus / HOT Lanes Project

BASIC PROJECT INFORMATION **(Feb. 2008 Update)**

1. Agency Project ID: Secondary Agency:
2. Project Type: ✓System Expansion; _ System Maintenance; _ Operational Program; _ Study; _ Other
   (check all that apply) ✓ Freeway; _ Primary; _ Secondary; ✓ Urban; _ Bridge; _ Bike/Ped; _ Transit; _ CMAQ; _ ITS; _ Enhancement; _ Other
3. Project Title: **I-95 / I-395 HOV / Bus / HOT Lanes Project**
4. Facility: I-95 / 395
5. From (_ at): Eads Street, Arlington County
6. To: Route 610 (Garrisonville Road), Stafford County

No.	Route	Connection Location:	Morning connections:	Evening connections:	Type of Modification:
1	I 395	Eads Street	NB HOT Lanes to Eads Street	Eads Street to SB HOT Lanes	Expanded
2	I 395	Between South Hayes Street and Washington Blvd.	SB Express Lanes to SB general purpose lanes	SB Express Lanes to SB general purpose lanes	Deleted (to accommodate No. 1 above) [1]
3	I 395	VA 402 (Shirlington Circle)	NB HOT Lanes to Shirlington Circle	Shirlington Circle to SB HOT Lanes	New
4	I 395	VA 420 (Seminary Road)	NB HOT Lanes to Seminary Road	Seminary Road to SB HOT Lanes	New [1] (Bus only access)
5	I 95	Between VA 236 (Duke Street) and VA 648 (Edsall Road)	NB HOT Lanes to NB general purpose lanes	N/A	New
6	I 95	VA 7100 (Fairfax County Parkway)	N/A	Fairfax County Parkway to SB HOT Lanes	New
7	I 95	Between VA 7100 (Fairfax County Pkwy) and VA 638 (Pohick Road)	N/A	SB HOV Lanes to SB general purpose lanes	Deleted (to accommodate No. 6 above) [1]
8A	I 95	Between VA 7100 (Fairfax County Pkwy) and VA 642 (Lorton Road)	NB HOT Lanes to NB general purpose lanes	N/A	New
8B	I 95	Between VA 7100 (Fairfax County Pkwy) and VA 642 (Lorton Road)	NB HOT Lanes to new bus station, back to NB HOT lanes (Buses only)	SB HOT lanes to new bus station, back to SB HOT lanes (Buses only)	New, reversible bus-only ramp
9	I 95	Between VA 123 (Gordon Road) and VA 3000 (Prince William County Parkway)	NB HOT Lanes to NB general purpose lanes	SB HOT Lanes to SB general purpose lanes	New
10	I 95	Between VA 610 (Cardinal Drive) and US 234 (Dumfries Road)	NB HOT Lanes to NB general purpose lanes	N/A	New
11	I 95	Between US 234 (Dumfries Road) and VA 610 (Garrisonville Road)	N/A	SB HOT Lanes to SB general purpose lanes	Expanded

[1] Integration of this proposed modification in the project design is currently under evaluation.

7. Jurisdiction(s): Arlington County, City of Alexandria, Fairfax County, Prince William County, Town of Dumfries, Stafford County

8. Description:

The region's CLRP and air quality conformity analyses have assumed adding a third HOV lane on I-395 and part of I-95 since 1994. This project was assumed to be accomplished by re-striping the existing pavement with no other modifications to access, egress, without any enhancements to transit services and or any new/improved incident management services. The project was assumed to be complete by 2010.

The HOT Lane project provides a funding mechanism for not just building the third lane, but also a comprehensive upgrade to the access/egress locations, pavement replacement within the existing right of way as needed, significant new transit services on the facility, and a dedicated, performance based, computer aided incident management system.

A private consortium led by Fluor Virginia, Inc. and Transurban (USA) Development Inc. (together "FTU") has been selected to construct this third lane on portions of I-95/395, and operate the entire three lane facility as a system of High Occupancy Vehicle/Bus/High Occupancy Toll Lanes ("HOV/Bus/HOT"). In October 2006, VDOT and FTU signed an Interim Agreement to commence development activities on the Project.

The Project entails expanding the existing reversible High Occupancy Vehicle ("HOV") lanes between Eads Street and south of the Town of Dumfries from two to three lanes, and converting the lanes to include High Occupancy Toll ("HOT"), bus and HOV traffic. New entry/exit points into and out of the HOV/Bus/HOT lanes, as listed in Items 5 and 6 above, will be added along the corridor. The design of the proposed new entry/exit points will continue to be refined through the traffic operational analysis and the environmental review ("NEPA") process.

The Project also proposes to address traffic operational issues noted with the existing HOV system. During peak pm periods, traffic traveling in a southbound ("SB") direction in the current HOV system is often congested at the point where the HOV lanes terminate and merge into the general purpose ("GP") lanes at Dumfries. This Project proposes to relieve the current congestion problem by both expanding the current merge point, and providing for the extension of lanes south of the current merge to Route 610 (Garrisonville Road) in Stafford County. Under the proposed design, vehicles exiting at Route 234 would be merged into the GP lanes north of the exit. The remaining two HOV/Bus/HOT lanes would extend south of Quantico Creek. At a point south of Quantico Creek, one of two lanes would branch off on a new, single-lane fly-over from the SB HOT lanes to the SB GP lanes. This fly-over would service vehicles exiting to Route 619 (Joplin Road) and Russell Road. The fly-over lane would merge into a newly constructed GP auxiliary lane running between the ramp and Route 619. The remaining HOT lane would continue south as a separated lane, merging into the SB GP lanes just north of Route 610 (Garrisonville Road).

The Project also proposes to make improvements at Eads Street, the proposed northern termination point (for tolling purposes) of the HOT lanes. Improvements at Eads Street would affect both am and pm peak traffic, and provide for additional lanes for HOV/Bus/HOT lane traffic exiting at Eads Street, including a ramp dedicated exclusively for use by buses exiting into/out of the Pentagon reservation. The exact configuration of the northern and southern termini will be refined through the traffic operational analysis and the NEPA process. If such refinements affect conformity, the changes would be proposed in future conformity analyses.

Access to the HOT lanes would be available to automobiles, motorcycles, light-trucks, buses and transit vehicles only. Vehicles with three or more occupants would travel on the HOT lanes for free, as per the code of the Commonwealth of Virginia and Federal law. The facility will be operated and HOV occupancy and toll payment enforced in a manner that complies with the statutory requirements of the Commonwealth**.** Buses, transit vehicles,

and emergency response vehicles would also travel on the HOT lanes for free. Other vehicles not meeting the occupancy requirement would pay a toll, using electronic toll collection equipment, at a rate that would vary by time of day, day of week and level of congestion, to insure the level of free-flow conditions as specified by Federal SAFE-TEA-LU regulations at a minimum.

The current two-lane HOV facility along I-395 and I-95 had been planned, for at least the past 14 years, to be expanded to three lanes. This planned expansion to three lanes would have utilized one of the two existing shoulders. Based on preliminary field reviews VDOT believes that a design which provides adequate shoulders on both sides of I-95, south of the Capital Beltway, and an adequate shoulder on one side on I-395 is possible. As preliminary designs are completed, these will be shared with all stake holders, including the CTB, TPB and NVTA. VDOT's design practices emphasize safety and will ensure that any design impacts on operations are adequately mitigated. It must be noted that all designs and design exceptions have to comply with the FHWA requirements and oversight**.**

Transit/TDM Plan

There are numerous transit elements integrated into this Project, including a proposed increase in bus service along the I-95/395 corridor, expansion of HOV capacity from two lanes to three lanes, an increase or expansion of access points between the HOV/Bus/HOT lanes and the general purpose lanes, and other infrastructure additions and improvements along the corridor.

The transit service plan proposed by the Project provides for additional bus services in the I-95/395 corridor in the form of new and expanded bus services. This is a transit plan that has been developed for the conformity analysis, and is based on what is reasonably expected to be funded by this Project. The Virginia Department of Rail and Public Transportation (DRPT), in cooperation with the Transit Advisory Committee ("TAC"), a group established by the VA Secretary of Transportation to facilitate coordination between the transit service providers in the corridor and the Project, has developed a detailed Transit/TDM Plan. The TAC will, working with the City of Alexandria, evaluate the benefits of a bus only ramp from northbound HOV/Bus/HOT lanes to Seminary Road and recommend whether to include such a ramp in the project's final design. The consortium partners will model the scenario of reserving the new lane for buses only and the results of this analysis will be shared with the TAC. The TAC, in coordination with the state, will develop the Transit/TDM Plan (including the proposed bus only ramp at Seminary Road) and park and ride recommendations for the northern segment of the I-95/395 HOV/BUS/HOT lane project. The Commonwealth Transportation Board (CTB), the Northern Virginia Transportation Authority (NVTA) and Fredericksburg Area Metropolitan Planning Organization (FAMPO) will approve any transit/park-and-ride plans for the areas under their purview, and these will be submitted as inputs to the 2008 CLRP/Conformity update.

The proposed new and expanded bus service in the I-95/395 corridor will add about 38,000 hours of bus service in 2010, about 98,000 hours of bus service in 2020 and about 98,000 hours of bus service in 2030. Compared to the bus services assumed for the base year (2006) these additional hours of bus service represents an increase of approximately 11% in 2010, 28% in 2020 and 28% in 2030. These increases in bus operating hours in the corridor will be realized via addition of new routes and reducing headways of services currently assumed in the CLRP in the respective years. Compared to the bus services assumed for future years in the 2006 CLRP, the additional hours of bus service represents an increase of approximately 10% in–2010, 19% in 2020 and 18% in 2030.

The TAC Transit/TDM plan includes a greater level of facility improvements than that assumed in the 2007 CLRP. A new transit center is recommended at Massaponax along

with ~~4~~ **3*** new ~~in-line~~ transit stations **(access/egress provided with reversible bus only ramps into the HOT lanes)** in the corridor in order to provide Bus Rapid Transit Service in the corridor. The **tentative** location plans for these ~~in-line~~ stations ~~are being~~ **were** developed in consultation with the local jurisdictions and the TAC **and include stations at Prince William Parkway, VA Route 610, and Seminary Road. The proposed stations at these locations will be finalized upon a thorough environmental/traffic analysis with the participation of the local jurisdictions.** The TAC Transit/TDM plan also include improvements to the VRE components such as purchasing 6 additional rail cars to increase 3 of the Fredericksburg trains to 8 car trains, extending the platforms at selected stations, and provision of overnight storage space in Fredericksburg by 2015. The new plan also proposes improvements to the WMATA system in the form of additional bus bays, real time transit information, traffic circulation/access/egress, and security improvements at the Pentagon and Franconia-Springfield Transit Centers. The TAC plan also includes the construction of an additional 3,700 park-and-ride spaces in the corridor, beyond the 3,000 already assumed as part of the project. The location plans for these ~~lots~~ ~~are being~~ **park and ride improvements have been** developed in consultation with the local jurisdictions and the TAC **and include new spaces at VRE lots and in Springfield/Lorton, Potomac Mills, Woodbridge, Fredericksburg, and North Stafford areas**.

The Transit/TDM plan includes funds to provide new and increased TDM services in the corridor. Programs to assist vanpools exclusively include capital assistance, vanpool driver incentives, a vanpool insurance program, and supplementing the VanStart/VanSave program in the corridor. Carpool programs which also benefit vanpool users include an enhanced Guaranteed Ride Home program, a carpool incentive program, and additional rideshare program operational support. Additional funds are recommended for increasing TDM marketing as well as providing financial incentives to increase teleworking in the corridor.

The Project provides funding for capital, operating and supporting facilities of the proposed new bus service and for additional capacity for VRE. Attachment A shows the **cost summary for** the TAC proposed ~~bus~~ **transit and TDM** service in the corridor, the proposed fixed facilities, and the proposed TDM elements~~,~~ for 2010, 2020 and 2030. **Attachment B shows the cost summary for the TAC proposed plan for the project in the proposed CLRP update**. **Attachment C shows the service plan details such as the routes and frequency for various future years. All bus service is assumed to run on the HOT/bus/HOV lanes to Route 610 and in the general purpose lanes to the south, until such time as a southern segment of the I-95/I-395 HOV/HOT facility is built.**

The Project team will continue working with the TAC to complete the planning study and maintain coordination between the HOV/Bus/HOT lane Project and local transit agencies and service providers.

In addition to the new bus service, the seamless, free-flowing network of the HOV/Bus/HOT lanes **in the northern section of the corridor**, park and ride lots and access points along the corridor will create the opportunity for current public, private regional/local service providers to expand their existing services, or provide new services to key activity and employment centers in the I-95/395 and I-495 corridors beyond that which is included in this Project.

Beyond the addition of the above high quality bus service and the opportunities afforded to existing transit providers through the addition of new/expanded infrastructure, the Project also proposes to provide a bus-only ramp into and out of the Pentagon at Eads Street (part

*** The overall I-95/I395 Transit Plan still includes funding for 4 new transit stations, however the most southerly station can not currently be an input to the CLRP as the Southern HOV/bus/HOT road facility has not yet been adopted into the TPB and FAMPO CLRPs. Thus the transit plan will be updated to include the Southern station when the Southern project is added to the appropriate CLRP(s).**

of the northern terminus of the HOT lanes), a transit-only access ramp at Seminary Road in the City of Alexandria, and a reversible bus-only ramp from the HOT lanes into and out of a new bus station located adjacent to the Lorton VRE Station. A pedestrian bridge would provide access between the proposed bus station and the VRE station.

The Project also proposes to add six (6) park and ride facilities, an equivalent of 3,000 additional parking spaces, to the network of park & ride lots along the corridor. The Project has proposed one facility be located in Fairfax County, two in Prince William County, two in Stafford County and one in Spotsylvania County. The location plans for these lots are being developed in consultation with the local jurisdictions and the TAC. The Project also proposes to provide enhancements to several existing bus stations/stops along the corridor. The current plans for the park and ride facilities and the bus station enhancements will be assessed further by the TAC**.**

Once the I-95/395 HOV lanes have been converted into HOV/Bus/HOT lanes, traffic operations will be monitored and managed such that they will continue to be classified as "fixed guideway miles" for purposes of the transit funding formulas, in accordance with FTA's final policy statement on when HOT lanes shall be classified as fixed guideway miles, published in the January 11, 2007 Federal Register (Vol. 72, pages 1366-1372) ("FTA Policy"). The current FTA Policy references the performance standards and monitoring methods it will use in determining eligibility of HOT lanes to be classified as fixed guideway miles. The proposed project will implement plans to meet these standards and follow the prescribed methodology so as to preserve the facility's current eligibility in accordance with the current FTA policy. The standards and monitoring requirements will be included in the Comprehensive Agreement. In the event that the implementation of the project fails to comply with the FTA's 2/11/07 Federal Register applicable requirements for considering HOT lanes as fixed guideway and results in loss of associated FTA revenue, the project will reimburse the current designated recipients for this lost revenue.

The project team believes initiating the enhanced transit services at the same time as the work to convert the HOV lanes into HOV/Bus/HOT lanes begins should be considered. This transit enhancement could form part of the Project's Congestion Management Plan (CMP) and would allow direct stakeholder and community outreach to promote transit services.

Tolling Policy

HOT lanes use dynamic pricing to maintain free-flowing conditions for all users, even during rush hour. The toll rates will vary throughout the day with time of day and with day of week corresponding to demand and congestion levels. Toll rates will be at its lowest when the demand and congestion levels are at its lowest. The consortium has set a target speed of above 55 mph inside the Beltway and 65 mph outside the Beltway for traffic operations. These target speeds, determined through the traffic modeling completed to date, correspond to a maximum flow rate of 1,600 vehicles per hour per lane and meet the objective of maximizing travel time savings for all users, including transit. Currently the I-395/95 HOV lanes carry up to 1900 vehicles per lane per hour during some portions of the restricted period**.** Toll prices will be adjusted in response to the level of traffic to ensure free flowing operations on the Bus/HOV/HOT lanes. There will be no price caps on the level of tolls.

SAFETEA-LU mandates strict performance standards which are intended to ensure free-flowing conditions on the HOT lanes. The proposed HOT lanes project will include performance monitoring as an integral part of the project and ensure that the SAFETEA-LU mandated performance standards are complied with as a minimum. These requirements will be included in the Comprehensive Agreement.

Dynamic message signs will provide drivers with current toll rates so they can choose whether or not to use the lanes. Toll collection on the HOV/Bus/HOT lanes will be totally electronic. There will be no toll booths. The dynamic message signs will be supplemented

by other notification/communications methods to insure all users, including transit operators, have as much advance knowledge of traffic conditions as is possible.

Incident Management

The project designs will focus on the safety aspects of the facility including cross section layout (lane width and shoulders), operations and incident management. The design and operational features of the project will be integrated with and supported by a performance based, computer aided incident management system. The incident management system will provide 24/7 monitoring and surveillance of the facility and have dedicated motorists assistance equipment and personnel. This system will allow for a rapid detection of incidents that occur in the Bus/HOV/HOT lanes. As transit is a significant component of the system, specific response procedures plans, including use of use of appropriate equipment will be in place for dealing with transit specific incidents. The Incident Management Plan developed for the project will be shared with the CTB and NVTA for their review.

Schedule

Construction for the Project is projected to begin in early 2008, with an estimated construction completion time of two and a half years. The facility is expected to enter operations in mid to late 2010. The current schedule calls for environmental review in compliance with Federal (NEPA) and state regulations. The FHWA has further conditioned environmental approval to the Project being included in a conforming Transportation Improvement Program ("TIP") and Constrained Long Range Plan ("CLRP") for construction.

Federal Environmental Review ("NEPA") Process

At the end of August 2006, the FHWA signed the NEPA documentation concurrence form for pursuing the environmental review for the Project, with a Categorical Exclusion as the suggested level of NEPA Document. The environmental review is currently being conducted in full accordance and compliance with Federal and state law. The NEPA guidelines require the Project to be part of a conforming CLRP prior to receiving environmental clearance. Subsequent to receiving environmental clearance on an approved scope, the Project team will pursue the final engineering design of the Project.

Congestion Management Plan

As a matter of policy, practice and a reflection the agency's commitment to safety, VDOT adopts congestion management plans for its construction projects. The congestion mitigation plan used for the Springfield Interchange project has been widely acclaimed as successful. VDOT and the consortium will similarly have a robust congestion management plan for the I-95/395 HOV/BUS/HOT lane project. The Congestion Management Plan developed for the project will be shared with the CTB, TPB and NVTA for their review.

Recognizing that the construction of this project could overlap with the construction of other significant projects, such as the Beltway HOT lanes, Dulles Corridor Rail, Widening of I-95 (between Newington and Occoquan), VDOT/VDRPT will coordinate the implementation of all of these congestion management plans under a Regional Transportation Management Plan (TMP). VDOT is in the process of recruiting a full time Regional TMP manager.

Coordination with Other Projects in the Corridor

<u>BRAC Actions</u>

The project team is working with the Army, the Marines, and their respective teams of consultants to coordinate the transportation project needs related to the BRAC action with the HOV/Bus/HOT Lanes Project. The proposed elements for this Project reflect the latest discussions with the Army relative to their planned transportation-related activities at the Engineering Proving Ground in Fairfax County. Close coordination with the BRAC consultants will continue as they further develop their road improvement plans, and reasonable transportation needs related to this Project are not precluded.

14th Street Bridge Corridor Project

The project team will continue to coordinate with Eastern Federal Lands of FHWA ("FHWA-EFL") relative to the northern terminus of the HOV/Bus/HOT Lanes Project. FHWA-EFL is currently working on the Draft Environmental Impact Statement ("EIS") for the 14th Street Bridge Corridor Project, which is scheduled for completion in May 2008. The Steering Committee for the EIS is currently developing alternative improvement scenarios to be evaluated. VDOT, District of Columbia DOT (DDOT) and Arlington County DPW are members of the Steering Committee along with the Department of Defense and National Parks Service. VDOT, DDOT and Arlington County DPW all have voiced their strong support for including extension of the HOV/Bus/HOT lanes across the 14th Street Bridge as one of the alternatives to be studied. FHWA indicates that the Steering Committee will decide the final set of alternatives to be studied. FHWA's schedule anticipates beginning the analyses of the alternatives during the fall of 2007 and completing the analyses by winter of 2008. In the unlikely event that the alternative scenarios tested as part of the EIS do not include extending the HOV/Bus/HOT lanes across the 14th Street Bridge, VDOT will work with DDOT and Arlington County in determining how best such a scenario can be evaluated**.** More information on the 14th Street Bridge Corridor Project may be found at www.14thstreetbridgecorridoreis.com.

Financial Plan

Construction cost for the proposed Project is estimated to be $492M (in year of expenditure dollars, PE-$60M, ROW-$4M and CN-$428M). This estimate includes the cost of constructing the third HOV/Bus/HOT lane, all additional entry/exit connections, the nine mile southbound extension at the southern terminus, proposed park and ride lots, and enhancement to several existing bus stations/stops. Funding sources for the Project includes a combination of private equity and third party debt, including private bank loans and/or Private Activity Bonds, with the potential for TIFIA funding as a form of subordinated debt. As the Project progresses, FTU will explore all avenues of funding to ensure the lowest cost of capital for the Project. The Project will not require Commonwealth or Federal funds for the construction component.

FTU will be fully authorized to toll the facility, which will serve to pay debt service, operating costs and return on equity. Toll revenue will be the main source of revenue. The Commonwealth will enter into a Comprehensive Agreement with FTU, which will authorize FTU to raise the necessary funds to construct the Project.

The Project also estimates to incur additional costs of about $**397M** ~~410M~~ (in year of expenditure funds) to fund the capital, operating and maintenance expenses of the proposed transit service. Attachment B summarizes the bus service plan cost estimate. The capital cost component of this is estimated to be about $**152M** ~~165M~~. Funding is assumed to be derived, from US-DOT transit capital funding program grants (including the Congestion Relief Initiative program and a dedicated transit initiative fund provided by the project sponsor.

The operating and maintenance costs are estimated to be about $245M, including provision of maintenance facilities for the new buses. Funding for the operating and maintenance expense is assumed to be derived from the fare box of the service toll revenues and a dedicated transit initiative fund provided by the project sponsor. The above estimates of the capital and operating costs and the relative distribution of the two within the total cost may change when the TAC proposed Transit/TDM plan is refined as part of implementing the various components of the plan.

Stakeholder Outreach

FTU, in conjunction with VDOT, has and will continue to put a great deal of effort into communicating with local stakeholders. The stakeholder outreach program provides the opportunity for direct engagement with various groups along the corridor, including all the local political leadership, transit service providers, the Transit Advisory Committee, various special interest groups, and business and community leaders. There are also opportunities

for the public to learn more about the Project, as well as provide comments, both through the CLRP process and the NEPA process.

As a prerequisite to submitting the NEPA documentation, FHWA requires the Project to conduct a series of Citizen Information Meetings and a Public Hearing. The Citizen Information Meetings are scheduled to be held in spring 2007. The dates for the meetings will be communicated to stakeholders along the corridor through various channels, including area publications, postings via the website, and direct interface with the leadership within the local jurisdictions. A date for the Public Hearing will be identified as the Project advances through the process

FTU has also conducted a series of meetings with transit stakeholders operating in the corridor. Starting in June 2006, FTU met with these operators to solicit input on how transit services in the corridor might change as a result of the addition of the HOT Lanes system. The recommendations resulting from this outreach are contained in FTU's Transit Opportunity Study, which was provided to the TAC in December. FTU maintains active participation with the TAC.

9. Bicycle or Pedestrian Accommodations: _ Not Included; ✓ Included; _ Primarily a Bike/Ped Project; _ N/A
Design work for the proposed Project, in accordance with VDOT's Policy for Integrating Bicycle and Pedestrian Accommodations, will be initiated with the presumption that the Project shall accommodate the bicycle and pedestrians needs, as appropriate.
10. Total Miles: 36
11. Project Manager: Larry Cloyed - VDOT 12. E-Mail: larry.cloyed@VDOT.Virginia.gov
13. Project Information URL: www.virginiadot.gov
14. Projected Completion Year: 2010
15. Actual Completion Year: N/A ✓ Project is ongoing. Year refers to implementation.
16. N/A_ This project is being withdrawn from the Plan as of:
17. Total cost (in Thousands): $ **889** ~~902~~ million (PE-$60M, ROW-$4M, Construction-$428M, Other-$397M ~~410M~~)
18. Remaining cost (in Thousands): N/A
19. Funding Sources: _ Federal; _ State; _ Local; ✓ Private; ✓ Bonds; ✓ Other

CONGESTION MANAGEMENT INFORMATION

20. Do traffic congestion conditions necessitate the proposed project? ✓ Yes; _ No
21. If so, describe those conditions: ✓ Recurring congestion; _ Non-site specific congestion; _ Frequent incident-related, non-recurring congestion; _ Other
22. Is this a capacity-increasing project on a limited access highway or other arterial highway of a functional class higher than minor arterial? ✓ Yes; __ No
23. If yes, does this project require a Congestion Management Documentation form under the given criteria (see *Call for Projects* document)? ✓ Yes; _ No
24. If not, please identify the criteria that exempt the project here:
    _ The number of lane-miles added to the highway system by the project totals less than 1 lane-mile
    _ The project is an intersection reconstruction or other traffic engineering improvement, including replacement of an at-grade intersection with an interchange
    _ The project will not allow motor vehicles, such as a bicycle or pedestrian facility
    _ The project consists of preliminary studies or engineering only, and is not funded for construction
    _ The project received NEPA approval on or before April 6, 1992
    _ The project was already under construction on or before September 30, 1997, or construction funds were already committed in the FY98-03 TIP.

_ The construction costs for the project are less than $5 million.

SAFETEA-LU PLANNING FACTORS

25. Please identify any and all planning factors that are addressed by this project:

✓ Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency.

✓ Increase the safety of the transportation system for all motorized and non-motorized users.

a. Is this project being proposed specifically to address a safety issue? _ Yes; ✓ No

b. Please identify issues: _ High accident location; _ Pedestrian safety; _ Other
_ Truck or freight safety; _ Engineer-identified problem

c. Briefly describe (in quantifiable terms, where possible) the nature of the safety problem:

✓ Increase the ability of the transportation system to support homeland security and to safeguard the personal security of all motorized and non-motorized users.

✓ Increase accessibility and mobility of people and freight.

✓ Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns.

✓ Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight.

✓ Promote efficient system management and operation.

_ Emphasize the preservation of the existing transportation system.

ENVIRONMENTAL MITIGATION

26. Have any potential mitigation activities been identified for this project? _ Yes; ✓No (Currently being investigated)

27. If yes, what types of mitigation activities have been identified?

_ Air Quality; _ Floodplains; _ Socioeconomics; _ Geology, Soils and Groundwater; Vibrations;

_ Energy; _ Noise; _ Surface Water; _ Hazardous and Contaminated Materials; _ Wetlands

INTELLIGENT TRANSPORTATION SYSTEMS

28. Is this an Intelligent Transportation Systems (ITS) project as defined in federal law and regulation, and therefore subject to Federal Rule 940 Requirements? ✓_ Yes; _ No
Although the I 95/395 HOV/BUS/HOT Lane project itself is not an ITS project, the project will include various ITS elements as part its operations and toll collection. All ITS components of the project will comply with the applicable requirements of rule 940. Should the Commonwealth be nominated as an Urban Partner under the FHWA's Urban Partnership program, ITS components of this project will be part of the Commonwealth's effort under the Urban Partnership program.

29. If yes, what is the status of the systems engineering analysis compliant with Federal Rule 940 for the project? _ Not Started; ✓__ Ongoing, not complete; _ Complete N/A
The operations concept for the HOT lanes (HOT-OC), including the Traffic Management and Tolling systems, have been described in a draft Concept of Operations, along with a System Interface Specification that details interaction between NRO ATMS and HOT-OC. As part of the ongoing project development activities, coordination of the HOT-OC with the VDOT Northern Region Architecture and COB/TPB Regional architecture will be addressed.

30. Under which Architecture: N/A

_ DC, Maryland or Virginia State Architecture

_ WMATA Architecture

✓ COG/TPB Regional ITS Architecture

✓ Other, please specify: VDOT Northern Region Architecture

31. Other Comments

I-95/I-395 Transit/TDM Study
Revised Cost Estimate for Fiscally-Constrained Transit/TDM Scenario

Service Modifications				Service Hours		Operating Costs			Capital Costs				Summary Costs (2010 Dollars)			Summary Costs (Year of Expenditure)		
Originating Area	Operator	Description	Implementation Year	Additional Annual Revenue Hours	Additional Annual Vehicle Hours	2010 Operating Cost/Vehicle Hour	Total Annual Operating Costs	O&M Cost	Vehicle Needs	Potential Vehicle Costs	Vehicle Assumptions	Capital Cost (2010 Dollars)	Total Costs (2010 Dollars)	Projected Farebox Revenue (2010 Dollars)	Net Total Costs (2010 Dollars)	Total Costs	Projected Farebox Revenue	Net Total Costs
Arlington/ Alexandria/DC	ART	**ART 41** -Add 5th bus to ART 41 on weekdays	2010	3,640	4,004	$82.67	$331,011	$6,620,214	1	$325,000	12 yr LF 30'	$650,000	$7,270,214	$1,655,053	$5,615,160	$10,280,595	$2,373,056	$7,907,540
Arlington/ Alexandria/DC	WMATA	**WMATA 7B -** Decrease headway on 7B from 35 minute to 17/18 minute by adding one bus	2010	1,560	1,716	$95.24	$163,432	$3,268,637	1	$500,000	12 yr 40' coaches $500K per	$1,000,000	$4,268,637	$980,591	$3,288,046	$5,899,531	$1,405,995	$4,493,536
Prince William	PRTC	**PW MetroDirect** - Modify Prince William MetroDirect Route to provide limited circulation in the Springfield area after serving the Franconia-Springfield station	2015	1,040	1,144	$86.77	$99,265	$1,488,973	1	$500,000	12 yr 40' coaches $500K per	$1,000,000	$2,488,973	$744,487	$1,744,487	$3,725,618	$1,159,779	$2,565,839
Prince William	PRTC	**Dale City - Navy Yard -** Improvements to existing Dale City-Navy Yard route to serve additional park-and-ride lots along I-95 corridor and increase	2015	1,820	3,640	$86.77	$315,843	$4,737,642	1	$500,000	12 yr 40' coaches $500K per	$1,000,000	$5,737,642	$2,368,821	$3,368,821	$8,786,470	$3,690,205	$5,096,265
Prince William	PRTC	**OmniRide North Route 1 (Dale City/Woodbridge - DC)** - Increase Frequency on OmniRide	2020	3,467	6,933	$86.77	$601,605	$6,016,053	3	$1,500,000	12 yr 40' coaches $500K per	$1,500,000	$7,516,053	$3,008,027	$4,508,027	$12,371,070	$5,177,598	$7,193,472
Prince William	PRTC	**OmniLink Route 1** - Extend OmniLink Route 1 to Ft. Belvoir during peak periods	2020	2,080	2,288	$86.77	$198,530	$1,985,298	1	$325,000	12 yr LF 30'- $325k	$325,000	$2,310,298	$754,413	$1,555,885	$3,853,987	$1,298,542	$2,555,446
Corridor-wide	VRE	**VRE Train Size** - Increase train size so the 3 of the Fredericksburg trains have 8 cars and 4 have six cars	2015			VRE estimated of add'l cost associated with longer trains - 2 add'l 8 car trains @ $300,000/year	$600,000	$9,000,000	6	$12,600,000	$2.1M/car	$12,600,000	$21,600,000	$9,000,000	$12,600,000	$28,627,263	$14,020,410	$14,606,853
		TOTAL		**13,607**	**19,725**		**$2,309,685**	**$33,116,817**	**14**	**$16,250,000**		**$18,075,000**	**$51,191,817**	**$18,511,392**	**$32,680,425**	**$73,544,536**	**$29,125,584**	**$44,418,952**

New Shuttle/Feeder Bus Services				Service Hours		Operating Costs			Capital Costs				Summary Costs (2010 Dollars)			Summary Costs (Year of Expenditure)		
Originating Area	Operator	Description	Implementation Year	Additional Annual Revenue Hours	Additional Annual Vehicle Hours	2010 Operating Cost/Vehicle Hour	Total Annual Operating Costs	O&M Cost	Vehicle Needs	Potential Vehicle Costs	Vehicle Assumptions	Capital Cost (2010 Dollars)	Total Costs (2010 Dollars)	Projected Farebox Revenue (2010 Dollars)	Net Total Costs (2010 Dollars)	Total Costs	Projected Farebox Revenue	Net Total Costs
Fairfax/ Springfield	Fairfax Connector	**Lorton VRE-EPG -Ft. Belvoir Shuttl**e - New "meet the train" shuttle between the Lorton VRE Station - EPG/Ft. Belvoir via Telegraph Rd, Fairfax County	2010	2,600	2,860	$93.82	$268,325	$5,366,504	2	$1,000,000	12 yr 40'- $500K	$2,000,000	$7,366,504	$1,073,301	$6,293,203	$10,120,385	$1,538,925	$8,581,460
		TOTAL		**2,600**	**2,860**		**$268,325**	**$5,366,504**	**2**	**$1,000,000**		**$2,000,000**	**$7,366,504**	**$1,073,301**	**$6,293,203**	**$10,120,385**	**$1,538,925**	**$8,581,460**

New Bus/Rail Services				Service Hours		Operating Costs			Capital Costs				Summary Costs (2010 Dollars)			Summary Costs (Year of Expenditure)		
Originating Area	Operator	Description	Implementation Year	Additional Annual Revenue Hours	Additional Annual Vehicle Hours	2010 Operating Cost/Vehicle Hour	Total Annual Operating Costs	O&M Cost	Vehicle Needs	Potential Vehicle Costs	Vehicle Assumptions	Capital Cost (2010 Dollars)	Total Costs (2010 Dollars)	Projected Farebox Revenue (2010 Dollars)	Net Total Costs (2010 Dollars)	Total Costs	Projected Farebox Revenue	Net Total Costs
Arlington/ Alexandria/DC	ART	**Shirlington - Rossyln** - New express route from Arlington I-395 southern area to northern area (Shirlington to Pentagon-Washington Blvd, Rosslyn area)	2010	3,120	3,432	$82.67	$283,723	$5,674,469	2	$650,000	12 yr 30'- $325K	$1,300,000	$6,974,469	$1,418,617	$5,555,852	$9,712,936	$2,034,048	$7,678,888
Prince William	PRTC	**Central PW - Downtown Alexandria -** New route from Central Prince William County and along I-95 corridor then serving East Eisenhower Valley and Downtown Alexandria west of	2010	3,120	6,240	$86.77	$541,445	$10,828,896	4	$2,000,000	12 yr 40'- $500K	$4,000,000	$14,828,896	$5,414,448	$9,414,448	$20,378,256	$7,763,367	$12,614,889
Fairfax/ Springfield	WMATA	**Kingstowne - Shirlington** - **Pentagon** - New express route serving Kingstown-Van Dorn-Shirlington. Start at Kingstown, stop at Van Dorn Metro, then travel along Van Dorn Avenue, Landmark Mall, Van Dorn Avenue, Sanger, Beauregard Street, Walter Reed Drive, and Arlington Mill Road, Shirlington, and then the HOT lanes to Pentagon. This service would be a limited stop service, possibly using some	2010	18,200	20,020	$95.24	$1,906,705	$38,134,096	5	$2,500,000	12 yr 40'- $500K	$5,000,000	$43,134,096	$11,440,229	$31,693,867	$60,741,995	$16,403,278	$44,338,717
Prince William/Fairfax	PRTC	**Woodbridge-Lorton-Tyson's** - **Merrifield -** New peak period OmniRide express route from East PW to the new Lorton VRE easy on/off to Tyson's and Merrifield.	2015	3,120	6,240	$86.77	$541,445	$8,121,672	4	$2,000,000	12 yr 40'- $500K	$4,000,000	$12,121,672	$4,060,836	$8,060,836	$18,276,374	$6,326,065	$11,950,308
Prince William	PRTC	**New OmniRide Express Route from Lake Ridge to Seminary Road Area -** Skyline, Bailey's Crossroads and Mark Center via	2020	2,080	4,160	$86.77	$360,963	$3,609,632	3	$1,500,000	12 yr 40' coaches $500K per	$1,500,000	$5,109,632	$1,804,816	$3,304,816	$8,228,992	$3,106,559	$5,122,433
Stafford/ Fredericksburg	FAMPO	**Fredericksburg - Pentagon/Crystal City** - New Express/BRT route from	2020	5,200	10,400	$86.77	$902,408	$9,024,080	6	$3,000,000	12 yr 40'- $500K	$3,000,000	$12,024,080	$5,414,448	$6,609,632	$19,564,543	$7,766,397	$11,798,146
Stafford/ Fredericksburg	FAMPO	**Fredericksburg - DC** - New Express/BRT route from Fredericksburg to DC core (when combined with Massaponax in 2020, services would operate	2015	6,240	12,480	$86.77	$1,082,890	$16,243,344	6	$3,000,000	12 yr 40'- $500K	$6,000,000	$22,243,344	$8,121,672	$14,121,672	$33,740,625	$12,652,130	$21,088,495
Stafford/ Fredericksburg	FAMPO	**Massaponax to DC** - New Express/BRT route from Massaponax to DC core (when combined with Fredericksburg, services would operate alternating	2020	6,240	12,480	$86.77	$1,082,890	$10,828,896	6	$3,000,000	12 yr 40'- $500K	$3,000,000	$13,828,896	$5,414,448	$8,414,448	$22,671,102	$9,319,676	$13,351,425
		TOTAL		**47,320**	**75,452**		**$6,702,468**	**$102,465,085**	**36**	**$17,650,000**		**$27,800,000**	**$130,265,085**	**$43,089,514**	**$87,175,571**	**$193,314,822**	**$65,371,520**	**$127,943,302**

Fixed Facilities					Capital Costs			Summary Costs (2010 Dollars)			Summary Costs (Year of Expenditure)		
Originating Area	Operator	Description	Implementation Year		Capital Needs	Potential Capital Costs	Capital Assumptions	Total Costs (2010 Dollars)	Projected Farebox Revenue (2010 Dollars)	Net Total Costs (2010 Dollars)	Total Costs	Projected Farebox Revenue	Net Total Costs
Arlington/ Alexandria/DC	WMATA	Improvements at **Pentagon Metrorail Transit Center** (additional bus bays, real time information, traffic circulation/access/egress, security	2010		Three (3) additional bus bays (including canopy), real time information, traffic circulation/access/security improvements	$2,500,000	$2.5M per station	$2,500,000	NA	$2,500,000	$2,500,000	NA	$2,500,000
Fairfax/ Springfield	Fairfax Connector	Improvements at **Franconia-Springfield Metrorail Transit Center** (additional bus bays and bus canopies, real time information, traffic	2010		Three (3) additional bus bays (including canopy), real time information, traffic circulation/access/security improvements	$2,500,000	$2.5M per station	$2,500,000	NA	$2,500,000	$2,500,000	NA	$2,500,000
Corridor-wide		**Additional park-and-ride lot capacity** at various locations (new and/or existing lots); 450 spaces for the Springfield/Lorton subarea. 175 spaces towards the needs for the Fredericksburg subarea. 2,125 spaces towards the needs for the North Stafford subarea. 250 spaces for the Potomac Mills subarea near the PRTC transit center and 1,500 spaces needed to meet parking at the VRE	2010		3,750 additional spaces beyond 3,000 currently proposed by Fluor/Transurban		$10,000 per space	$37,500,000	NA	$37,500,000	$37,500,000	NA	$37,500,000
Corridor-wide	VRE	**Platform Extensions** at selected stations	2015		4 stations on Fredericksburg Line would need platform extensions for "low" or "medium" alternatives	$4,000,000	$1M to extend 300' including canopy	$4,000,000	NA	$4,000,000	$4,637,096	NA	$4,637,096
Fredericksburg	FAMPO	**Transit Center** at Massaponax	2020			$1,500,000		$1,500,000	NA	$1,500,000	$2,015,875	NA	$2,015,875
Corridor-wide		**BRT transit stations** along the corridor - 5 stations but 3 in-line stations included in the CLRP cost. Lorton is being paid for by Fluor/TransUrban as part of the HOT Lanes project and the US 17 and I-95 station will not be includeded in the CLRP until the HOV/HOT facility is extended to	2020			$30,000,000	$10M per station (not including parking)	$30,000,000	NA	$30,000,000	$40,317,491	NA	$40,317,491
Corridor-wide	VRE	**Overnight Storage in**	2015			$1,350,000		$1,350,000	NA	$1,350,000	$1,565,020	NA	$1,565,020
							TOTAL	**$79,350,000**	**NA**	**$79,350,000**	**$91,035,482**	NA	**$91,035,482**

TDM Program Elements			Summary Costs (2010 Dollars)			Summary Costs (Year of Expenditure)		
Originating Area	Description		Total Costs (2010 Dollars)	Projected Farebox Revenue (2010 Dollars)	Net Total Costs (2010 Dollars)	Total Costs	Projected Farebox Revenue	Net Total Costs
Corridor-wide	**Capital Assistance For Vanpools -** Provide financial assistance for the purchase or lease of vans for vanpools. Incentives, IT monitoring and reporting of vanpool mileage, and promotion of Capital cost of Contracting for vanpools. Provide free electronic toll transponders to		$5,000,000	NA	$5,000,000	$7,169,121	NA	$7,169,121
Corridor-wide	**Enhanced Guaranteed Ride Home -** Enhanced promotion and operation of Guaranteed Ride Home (GRH) services in the extended corridor. Offers free taxi or rental car transportation to registered commuters who use alternative modes and have a personal emergency		$200,000	NA	$200,000	$286,765	NA	$286,765
Corridor-wide	**Carpool Incentives -** Rewards and incentives for carpoolers.		$3,000,000	NA	$3,000,000	$4,301,473	NA	$4,301,473
Corridor-wide	**Rideshare Program Operational Support -** Additional staff for commuter assistance programs in the corridor and feeder markets to promote TDM programs and transit.		$600,000	NA	$600,000	$860,295	NA	$860,295
Corridor-wide	**TDM Programs Marketing -** Expand marketing efforts touting TDM programs and non-SOV commute modes in the corridor and feeder markets.		$5,000,000	NA	$5,000,000	$7,169,121	NA	$7,169,121
Corridor-wide	**Telework Program Assistance -** Financial incentives and assistance to increase the number of workers teleworking.		$4,000,000	NA	$4,000,000	$5,735,297	NA	$5,735,297
Corridor-wide	**Vanpool Driver Incentives -** Provide incentives to get new drivers and retain existing drivers for vanpools.		$700,000	NA	$700,000	$1,003,677	NA	$1,003,677
Corridor-wide	**Vanpool Insurance -** Increase vanpool insurance premium pool buy-down for vanpools.		$500,000	NA	$500,000	$716,912	NA	$716,912
Corridor-wide	**VanStart/VanSave -** Additional financial support to cover the cost of vacant seats for new vanpools during start-up operations, and established vanpools that have temporary vacancies. Support is short-term, one to six months, until regular riders are found to fill vacant seats.		$1,000,000	NA	$1,000,000	$1,433,824	NA	$1,433,824
		TOTAL	**$20,000,000**	**NA**	**$20,000,000**	**$ 28,676,486**	**NA**	**$28,676,486**

	Operating	Capital	Total	Farebox	NET COST	Total	Farebox	NET COST
Total	**$160,948,405** (includes TDM)	**$127,225,000**	**$288,173,405**	**$62,674,207**	**$225,499,199**	**$396,691,710**	**$96,036,028**	**$300,655,682**

CLRP DESCRIPTION FORM

I 95/395 HOV/BUS/HOT LANE PROJECT: PROPOSED CORRIDOR TRANSIT/TDM PLAN FINANCIAL PLAN FOR CLRP

Funding Summary (in year of expenditure dollars):

- Total Transit/TDM Plan Cost: **~~$410M~~ $397M***
  - Capital Costs: **~~$165M~~ $152M**
  - Operating Costs: $245M

  Capital costs includes vehicles (buses and train cars) and fixed facilities (transit centers, park-and-ride lots, rail platforms, etc.) as detailed in Appendix A. Unit cost assumptions for capital expenditures vary and are listed in Appendix A.

  Operating costs varies depending on the type of service and the agency. Unit cost assumptions are listed in Appendix A.

- Funding Source: **~~$410~~ $397M**
  - US DOT Congestion Relief Initiative: $40M
  - Farebox recovery from proposed new transit service: $95M
  - One time contribution from the project's private sector partners, dedicated for transit/TDM program: $195M
  - Earnings on dedicated funds from private sector: **~~$80~~ 67M**
    (Earnings correspond to an average annual rate of return of 4% up to 20 years)

Proposed Bus Service Addition Metrics

Year	Increase in Annual Vehicle Hours	% Increase Over Existing Service*	% Increase Over CLRP Service Assumptions**
2010	38,000	11 %	10 %
2020	98,000	28%	19%
2030	98,000	28%	18%

* 2006 Service Assumption: 356,000 Annual Vehicle Hours

** 2006 CLRP's 2010 Service Assumption: 395,000 Annual Vehicle Hours
2006 CLRP's 2020 Service Assumption: 505,000 Annual Vehicle Hours
2006 CLRP's 2030 Service Assumption: 538,000 Annual Vehicle Hours

*** The change in the cost figure for the submittal is due to the removal of one of the BRT stations from CRLP submittal. The US 17 and I-95 station remains part of the transit plan, however, the station can not be included into the CLRP until the southern extension if the HOT/HOV lane is submitted into the CLRP.**

Attachment C

I 95/395 HOV/BUS/HOT LANE PROJECT: PROPOSED CORRIDOR BUS SERVICE PLAN DETAILS FOR CLRP & CONFORMITY

Proposed HOT Lanes Frequency Improvements to Existing Routes			2006 Base Hdwy in Min.	2010 HOT Hdwy in Min.	2015 HOT Hdwy in Min.	2020 HOT Hdwy in Min.	2030 HOT Hdwy in Min.
	Origin	**Destination**					
WMATA 7B	Southern Towers	Pentagon	35	17	17	17	17
ART 41	Columbia Pike-Ballston	Courthouse Metro Station	20	15	15	15	15
PRTC OmniiRide	Dale City	Navy Yard	40	40	30	30	30
PRTC OmniiRide	Dale City/Woodbridge	Downtown DC	60	60	60	30	30

Proposed HOT Lanes Service Improvements and New Routes			2006 Base Hdwy in Min.	2010 HOT Hdwy in Min.	2015 HOT Hdwy in Min.	2020 HOT Hdwy in Min.	2030 HOT Hdwy in Min.
	Origin	**Destination**					
Route Extension/Increases in VRE Train Size							
PRTC MetroDirect	PRTC Transit Center [1]	Franconia-Springfield Metro Station area	35	35	35	35	35
PRTC OmniLink	Quantico/Woodbridge [2]	Ft. Belvoir (was to Woodbridge VRE)	50	50	50	50	50
VRE	Fredericksburg [3]	Union Station	25	25	25	25	25
New Routes							
Fairfax Connector	Lorton VRE	EPG/Ft. Belvoir	NA	15	15	15	15
ART	Shirlington	Rosslyn	NA	20	20	20	20
PRTC	Central Prince William County	Downtown Alexandria	NA	30	30	30	30
WMATA	Kingstowne-Shirlington	Pentagon	NA	30	30	30	30
PRTC	Woodbridge	Tysons - Merrifield	NA	NA	30	30	30
PRTC OmniRide	Lake Ridge	Seminary Road area	NA	NA	NA	45	45
FAMPO	Fredericksburg	Pentagon/Crystal City	NA	NA	NA	30	30
FAMPO	Fredericksburg	Downtown Washington	NA	NA	30	30	30
FAMPO	Massaponax	Downtown Washington	NA	NA	NA	30	30

Proposed HOT Lanes Fixed Facility Improvements

		Implementation Year				
	Fixed Facility Improvement	**2006**	**2010**	**2015**	**2020**	**2030**
WMATA	Improvements to Pentagon Metrorail Transit Center	NA	X			
WMATA	Improvements to Franconia-Springfield Metrorail Transit Center	NA	X			
	Additional Park-and-Ride lot capacity at various locations	NA	X			
VRE	Platform extension at selected stations	NA		X		
FAMPO	Transit Center at Massaponax	NA			X	
	BRT stations - 4 stations but only 3 paid for by the project (Fluor/TransUrban is building Lorton) [4]	NA			X	
VRE	Overnight Storage in Fredericksburg	NA		X		

Proposed TDM Improvements

		Implementation Year				
	TDM Initiative	**2006**	**2010**	**2015**	**2020**	**2030**
	Capital Assistance for Vanpools	NA	X			
	Enhanced Guaranteed Ride Home	NA	X			
	Carpool Incentives	NA	X			
	Rideshare Program Operational Support	NA	X			
	TDM Programs Marketing	NA	X			
	Telework Program Assistance	NA	X			
	Vanpool Driver Incentives	NA	X			
	Vanpool Insurance	NA	X			
	VanStart/Vansave	NA	X			

Additional vehicle hours over the 20 year period (over 2006 baseline - in thousands) = 1,480

1. Same frequency as in base year - route extension to circulate after stopping at Metro
2. Same frequency as in base year - route extension to Ft. Belvoir
3. Same frequency as in base year - increase size of trains

4. The I-95/I395 Corridor Transit Plan includes funding for 4 new BRT transit stations. Three of these stations are within the limits of the project included in the TPB's CLRP. The fourth station is in the southern segment of the HOT lanes project which is in the Fredericksburg area MPO (FAMPO). This fourth BRT station will be included in TPB's CLRP conformity analyses when the southern segment of the HOT lanes project is included in FAMPO's CLRP.