

## ITEM 4

### MEMORANDUM

December 28, 2004

**TO:** Technical Committee

**FROM:** Gerald Miller  
Chief, Program Coordination  
Department of Transportation Planning

**SUBJECT:** Preliminary Budget and Outline for FY 2006 Unified Planning Work Program (UPWP)

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A preliminary FY 2006 budget for the UPWP together with an outline of the proposed work activities for FY 2006 are attached. The preliminary budget for the FY 2006 UPWP basic work program is \$7,561,000. This is a \$98,500 ( or 1.3 percent) increase from the current FY 2005 budget level.

The budget estimate for the FY 2006 UPWP basic work program is based upon preliminary information. It assumes no change in new FTA Section 5303 and new FHWA PL funding from all of the DOTs.

In addition, the budget estimate assumes that \$528,300 of unobligated funds from FY 2004 will be available. (This is \$98,500 more than the unspent funds from FY 2003.) The estimated funding by DOT is shown on the next page.

<b>ESTIMATED PRELIMINARY FUNDING FOR FY 2006 UPWP</b>				
	<b>FTA</b>	<b>FHWA</b>	<b>New FY2006</b>	<b>Current FY2005</b>
<b>DDOT</b>				
New 2006	\$393,700 (0%) <sup>a</sup>	\$1,217,600 (0%) <sup>a</sup>	\$1,611,300	\$1,611,300
Unob.2004	37,000	118,400	155,400	88,700
			1,766,700	\$1,700,000
<b>MDOT</b>				
New 2006	695,700 (0%) <sup>a</sup>	2,353,400 (0%) <sup>a</sup>	3,049,100	3,049,100
Unob.2004	56,800	161,300	218,100	179,600
			3,267,200	3,228,700
<b>VDOT</b>				
New 2006	596,100 (0%) <sup>a</sup>	1,776,200 (0%) <sup>a</sup>	2,372,300	2,372,300
Unob.2004	48,700	106,100	154,800	161,500
			2,527,100	2,533,800
TOTAL New 2006	1,685,500	5,347,200	\$7,032,700	\$7,032,700
TOTAL Unob.	142,600	385,700	\$,528,300	\$429,800
<b>FY 2006 Grand Total</b>			<b>\$7,561,000</b>	<b>\$7,462,500</b>

<sup>a</sup>Percent change from new FY 2005 funding

**Technical Assistance Totals:**

- 1) For DC, MD, VA: 13.5% of total new allocation (\$217,500 + \$411,600 + \$320,200 = \$949,300)
- 2) For WMATA: 8% of total new FTA funding = \$134,800 (\$1,685,500 FY06)
- 3) Total Technical Assistance is \$1,084,100 just over 15 percent of total new funding of \$7,032,700.

DRAFT 12.27.2004  
**TPB FY 2006 WORK PROGRAM FUNDING CHANGES FROM FY 2005**

Work Activity	FY 2006	FY 2005	FY06-FY05	% Change
<b>I. PLANS, PROGRAMS AND COORDINATION</b>				
A. Unified Planning Work Program (UPWP)	68,000	67,100	900	1
B. Transp Improvement Program (TIP)	145,800	143,800	2,000	1
C. Constrained Long-Range Plan	389,900	384,500	5,400	1
D. Management, Operations/Emergency Prepar	348,900	344,000	4,900	1
E. Financial Plan	52,300	51,600	700	1
F. Private Enterprise Participation	17,600	17,400	200	1
G. Bicycle and Pedestrian Program	62,000	61,200	800	1
H. Access to Jobs Planning	51,000	50,300	700	1
I. Public Participation	171,300	169,100	2,200	1
J. Annual Report	77,000	76,000	1,000	1
K. DTP Management	434,500	426,300	8,200	2
Subtotal	1,818,300	1,791,300	27,000	2
<b>II. FORECASTING APPLICATIONS</b>				
A. Air Quality Conformity	361,100	296,500	64,600	22
B. Mobile Emissions Analysis	402,200	394,300	7,900	2
C. Regional Studies	610,500	598,700	11,800	2
D. Coord Coop Forecasting & Transp Planning	355,400	166,300	189,100	114
Subtotal	1,729,200	1,455,800	273,400	19
<b>III. DEVELOPMENT OF NETWORKS/MODELS</b>				
A. Network Development	627,500	619,000	8,500	1
B. GIS Technical Support	444,400	438,700	5,700	1
C. Models Development	649,000	636,700	12,300	2
D. Software Support	122,200	100,600	21,600	21
Subtotal	1,843,100	1,795,000	48,100	3
<b>IV. TRAVEL MONITORING</b>				
A. Cordon Counts	367,500	362,300	5,200	1
B. Congestion Monitoring and Analysis	401,100	351,000	50,100	14
C. Travel Surveys and Analysis				
Household Travel Survey	50,700	175,100	-124,400	-71
Census Journey to Work Analysis		244,600	-244,600	-100
Regional Travel Trends Report	144,400	142,500	1,900	1
D. Regional Trans Data Clearinghouse	122,500	60,700	61,800	102
Subtotal	1,086,200	1,336,200	-250,000	-19
Core Program Total (I to IV)	6,476,800	6,378,300	98,500	1.5
<b>V. TECHNICAL ASSISTANCE</b>				
A. District of Columbia	217,500	217,500	0	0
B. Maryland	411,600	411,600	0	0
C. Virginia	320,300	320,300	0	0
D. WMATA	134,800	134,800	0	0
Subtotal	1,084,200	1,084,200	0	0
Total, Basic Program	7,561,000	7,462,500	98,500	1.3

**PROPOSED WORK ACTIVITIES FOR FY 2006**  
(July 1, 2005 to June 30, 2006)

**I. PLANS, PROGRAMS AND COORDINATION**

A. UNIFIED PLANNING WORK PROGRAM (\$68,000)

- UPWP will describe work elements and integration of program activities and responsibilities for all aspects of the work program.
- UPWP will discuss planning priorities and describe the transportation planning and related air quality planning activities over next 1-2 years.

**Oversight:** Technical Committee

**Products:** UPWP for FY 2007, amendments to FY 2006 UPWP, monthly progress reports and state invoice information, federal grant materials

**Schedule:** Draft: January 2006 Final: March 2006

B. TRANSPORTATION IMPROVEMENT PROGRAM (TIP) (\$145,800)

- FY 2006-2011 TIP and 2005 CLRP are scheduled to be adopted in September 2005, and the FY 2007-2012 TIP and 2006 CLRP will be prepared and reviewed between January and June 2006.
- Annual certification of compliance with regulations on providing transit services to persons with disabilities will be prepared.
- The TIP project data and tables will be accessible to the public through the Internet.
- The geographic information system-linked database TIP and CLRP project data and air quality conformity information will be improved to facilitate updating and reporting.
- An annual listing of projects for which federal funds have been obligated in the preceding year will be published.

**Oversight:** Technical Committee

**Products:** Draft FY 2007-2012 TIP, amendments to FY 2006-2011 TIP

**Schedule:** Draft for Public Comment: June 2006

### C. CONSTRAINED LONG-RANGE TRANSPORTATION PLAN (CLRP) (\$389,900)

- FY 2006-2011 TIP and 2005 CLRP are scheduled to be adopted in September 2005, and the FY 2007-2012 TIP 2006 and CLRP will be prepared and reviewed between January and June 2006.
- Document 2005 CLRP and prepare draft 2006 CLRP amendments, including:
  - How the plan addresses the goals, objectives and strategies in the TPB Vision
  - Relationship between the transportation strategies and improvements and the development framework shown in the regional activity centers map
  - An assessment of any disproportionately high and adverse effects on low-income and/or minority populations
- Compile project descriptions, cost and Congestion Management System (CMS) information/updates from member agencies
- Improve public access to the CLRP, with informative maps and graphics, via the Internet and other means.
- Continue improvements to the geographic information system-linked CLRP project database.

**Oversight:** Technical Committee

**Products:** 2005 CLRP documentation and draft 2006 CLRP; improved web site versions

**Schedule:** June 2005

### D. TRANSPORTATION OPERATIONS COORDINATION AND EMERGENCY PREPAREDNESS PLANNING (\$348,900)

Under this work task, TPB will provide opportunities for coordination and collaborative enhancement of transportation technology and operations in the region, advised by its Management, Operations, and Intelligent Transportation Systems (MOITS) Policy and Technical Task Forces. Major topics to be addressed include the following:

- *Regional Transportation Operations Coordination Planning:* Support efforts to facilitate strengthening of regional coordination and communications among transportation agencies for collaboration on everyday transportation conditions,

major regional transportation incidents, and preparedness for regional emergencies, including technical, procedural, and organizational aspects.

- *ITS Architecture:* Maintain the regional ITS architecture in accordance with federal law and regulations; help provide coordination of the use of the regional ITS architecture as guidance to regional MOITS project implementation.
- *Traffic Signals:* Assist member agencies in the exchange and coordination of interjurisdictional traffic signal operations information and activities.
- *Traveler Information:* Coordinate enhancement of the collection, processing, and delivery of real-time roadway and transit condition information, including potential regional “511” telephone information systems.
- *Safety:* Examine safety issues in relationship to MOITS.
- *Performance Measure Development:* Continue development and refinement of performance measures, costs, benefits, and evaluation information for a MOITS orientation for regional transportation planning.
- *Member Agency Activities:* Work as needed with the MOITS activities of the state and D.C. departments of transportation, the Washington Metropolitan Area Transit Authority, and other member agencies.
- *National issues:* Monitor national emerging MOITS activities for potential application in the region.

<b>Oversight:</b>	TPB MOITS Policy and Technical Task Forces
<b>Products:</b>	Agendas, minutes, summaries, outreach materials as needed; white paper(s) on technical issues as needed; revised regional ITS architecture; review and advice to MOITS planning activities around the region
<b>Schedule:</b>	Monthly

#### E. FINANCIAL PLAN (\$52,300)

- Prepare financial plan for 2006 amendments of the CLRP .

- Prepare financial plan for the FY 2007-2012 TIP.

**Oversight:** Technical Committee

**Products:** Financial plan for 2006 CLRP amendments and FY 2007-2012 TIP

**Schedule:** June 2006

F. PRIVATE ENTERPRISE PARTICIPATION (\$17,600)

- The Private Providers Task Force will be supported, and private provider involvement will be documented in the TIP.

**Oversight:** Transportation Planning Board

**Products:** Documentation on Private Provider Involvement

**Schedule:** Annual Public Transit Forum: May 2006  
Draft in TIP for Public Comment: June 2006

G. BICYCLE AND PEDESTRIAN PROGRAM (\$62,000)

- Prepare suggested bicycle and pedestrian project recommendations for the FY 2007-2012 TIP.
- Coordinate the annual regional pedestrian and bicycle safety education campaign called "Street Smart."
- Provide the public with information on the status of bicycle and pedestrian facilities planning and construction in the Washington region.
- Web version of the regional bicycle and pedestrian plan
- Host a regional bicycle planning and design workshop.
- Monitor implementation of bicycle and pedestrian components of the green space and circulation system projects developed under the Transportation and Community and Systems Preservation (TCSP) Pilot Program grant.
- Monitor and advise on the implementation of the bicycle parking TERM M-70a and the employer outreach bicycle TERM 70b.
- Provide staff support to the Bicycle and Pedestrian Subcommittee

**Oversight:** Regional Bicycle Technical Subcommittee

**Products:** Suggested bicycle/pedestrian facilities for FY2007-2012 TIP, regional bicycle and pedestrian plan on web, and regional workshop

**Schedule:** Recommended TIP submissions December 2005

#### H. ACCESS TO JOBS PLANNING (\$51,000)

- COG Department of Human Services, Planning and Public Safety (HSPPS) staff will provide technical support for coordination of non-emergency transportation services and job access planning, including advising on WMATA's operation of Job Access transportation services.
- Coordinate with the TPB Access For All Advisory Committee to involve leaders of low- income, minority and disabled community groups in the coordination and planning of workforce development and job access activities.
- Update the job access transportation plan.

**Oversight:** Technical Committee

**Products:** An updated regional public transit-human services job access transportation plan

**Schedule:** June 2006

#### I. PUBLIC PARTICIPATION (\$171,300)

- The TPB public involvement process as amended in October 1999 will be supported, including staff support for the TPB Citizens Advisory Committee (CAC).
- Produce and distribute monthly edition of *TPB News*
- Support the TPB Access For All Advisory (AFA) Committee that was established to involve leaders of low- income, minority and disabled community groups
- Prepare AFA Committee report identifying priority projects, programs, services and issues that are important to community groups, including better transit information for limited English speaking populations, improved transit services for people with disabilities, pedestrian and bike access and safety, and potential impacts of transit-oriented development and gentrification.

- Public outreach activities in support of 2006 CLRP amendments and new TIP.

**Oversight:** Transportation Planning Board

**Products:** A proactive public involvement process, *TPB News*; AFA Committee Report

**Schedule:** Ongoing with forums and meetings linked to preparation of TIP and CLRP amendments

J. ANNUAL REPORT (\$77,000)

- This issue will describe the main activities completed in 2005 and the 2005 CLRP.

**Oversight:** Transportation Planning Board

**Product:** *Region* magazine

**Schedule:** June 2006

K. DTP MANAGEMENT (\$434,500)

- This activity includes all department-wide management activities not attributable to specific project tasks in the work program.

**Oversight:** Transportation Planning Board

**Products:** Materials for the meetings of the TPB, the Steering Committee, the Technical Committee, and the State Technical Working Group; responses to information requests from elected officials, federal agencies and media; and participation in external meetings related to TPB work program

**Schedule:** Ongoing throughout the year

## II. FORECASTING APPLICATIONS

A. AIR QUALITY CONFORMITY (\$361,100)

- Complete conformity analysis of 2005 CLRP amendments and FY 2006-2011 TIP, using latest travel demand and emissions models, to address 8-hour ozone requirements.

- Analyze 2005 CLRP and FY2006-11 TIP with respect to PM2.5 conformity. (Such a conformity assessment will be required within this time frame, however, final regulations to shape the assessment have not yet been promulgated.)
- Execute public and interagency consultation procedures including interaction with MWAQC and air quality agencies.
- Prepare and execute a work program for analysis of the 2006 amendments of the CLRP and the FY2007-2012 TIP.
- Coordinate emissions reduction analyses associated with new, as well as previously implemented, transportation emissions reduction measures (TERMs) and CMAQ-funded projects; work with programming agencies to develop and finalize additional TERMS, if needed.
- Perform incidental (non-systems level) air quality reviews, as required throughout the year.
- Provide funding to COG's Department of Environmental Programs (DEP) to support review and comment on conformity analysis.

**Oversight:** Technical Committee and Travel Management Subcommittee, in consultation with MWAQC committees

**Products:** Final reports on 2005 CLRP amendments and FY 2006-2011 TIP Air Quality Conformity assessment to meet the 8 hour ozone and PM2.5 standards

**Schedule:** September 2005 - conformity report on 8-hour assessment  
December 2005 - report on PM2.5 assessment

## B. MOBILE EMISSIONS ANALYSIS (\$402,200)

- Develop travel demand estimates for forecast years and controlled / uncontrolled scenarios required for 8-hour ozone SIP planning years.
- Prepare mobile source emissions inventories for the above conditions for use in analysis of attainment of the 8- hour ozone standards.
- Analyze new transportation emissions reduction measures, as well as examine

previous proposals, and evaluate their effectiveness and cost-effectiveness in reducing emissions

- Participate in state and MWAQC technical and policy discussions, public forums and hearings.
- For the above work elements, in conjunction with DTP staff and in consultation with the TPB, provide funding to COG's Department of Environmental Programs for the following activities: (1) provision of data, progress reports and written reports in response to TPB requests relating to air quality work activities; (2) provision of timely updates to the TPB and its committees on the status of emissions and emissions reduction research / implementation strategies associated with all emissions source categories; and (3) provision of assistance and review to TPB in development of emissions factors required for mobile source emissions inventories associated with air quality conformity and SIP planning.
- Using July 2005 vehicle registration data, develop refined VMT data by vehicle weight class for the Washington region.
- Provide support to Commuter Connections staff in developing implementation plans for adopted, as well as future, TERMS adopted by the TPB.
- Address VMT tracking requirements as per Clean Air Act requirements.

**Oversight:** Technical Committee and Travel Management Subcommittee, in consultation with MWAQC committees

**Products:** Report on TERM evaluation; mobile source emissions inventories to address 8 hour ozone standard; comparison of estimated and observed VMT results.

**Schedule:** June 2006

### C. REGIONAL STUDIES (\$610,500)

#### Regional Mobility and Accessibility Study

- Under the direction of the TPB, and with technical insight and guidance from a Joint Technical Working Group composed of members from the TPB Technical Committee, the Planning Directors' Technical Advisory Committee and the MWAQC Technical Advisory Committee, analyze alternative transportation and land use

scenarios specified for the Regional Mobility and Accessibility Study.

- Complete the modeling of travel demand and air quality impacts for specified alternative transportation and land use scenarios using the Version 2.1 travel demand forecasting model and the Mobile 6 air quality model.
- Based on the prior evaluation of the alternative transportation and land use scenarios, refine and model “composite scenarios” for further analysis and evaluation.
- Apply approved measures of effectiveness to evaluate the travel demand, land use, environmental and other impacts of the “composite” alternative transportation and land use scenarios.
- Prepare a draft final report on the “composite scenarios” and coordinate the review of this draft report by all citizens advisory, technical, and policy committees participating in this study.
- Present draft final report and all comments received to the TPB.

**Oversight:** Technical Committee, Joint Technical Working Group

**Product:** Regional Mobility and Accessibility Study Report

**Schedule:** June 2006

#### D. COORDINATION OF COOPERATIVE FORECASTING AND TRANSPORTATION PLANNING PROCESSES (\$355,400)

- Update and maintain Cooperative Forecasting land activity databases that are used as input into TPB travel demand-forecasting model. Update the Round 7 population, household, and employment forecasts for both COG member and non-member jurisdictions in the expanded cordon area and preparation of Cooperative Forecasting land activity data files for the 2191 Transportation Analysis Zone (TAZ) system.
- Work with the Cooperative Forecasting Subcommittee and the region’s Planning Directors to assess the effects of significant transportation system changes on the Cooperative Forecasting land activity forecasts. Document key land use and transportation assumptions used in making updates to the Cooperative Forecasting land activity forecasts
- Respond to public comments on Round 7 forecasts and the Cooperative Forecasting process.

- Work with the Cooperative Forecasting Subcommittee, the region's Planning Directors, and members of the TPB Technical Committee to define additional smaller area land activity Transportation Analysis Zones (TAZs) for Regional Activity Centers and Clusters. Also, subdivide very large TAZs in outer suburban jurisdictions into smaller TAZs as appropriate.
- Review data and assumptions on the projected growth of future "in-commuting" at external station TAZs. Coordinate this review with Baltimore Metropolitan Council (BMC), Fredericksburg Area Metropolitan Planning Organization (FAMPO) and state DOT staff.

**Oversight:** Technical Committee

**Products:** Update and maintenance of Cooperative Forecasting land activity data files, documentation of key Cooperative Forecasting land-use and transportation assumptions. Development of New TAZ area system and review of "In-commuting" assumptions at external TAZ stations

**Schedule:** June 2006

### III. DEVELOPMENT OF NETWORKS AND MODELS

#### A. NETWORK DEVELOPMENT (\$627,500)

- FY 2006 efforts will focus on the development of TP+ highway and transit networks in Version 2.1 model format on the expanded cordon using information gathered electronically and/or in paper format. This process will make use of available information in COG's GIS and the Data Clearinghouse to facilitate development of networks supporting 1) air quality conformity analysis and 2) scenario testing as part of TPB regional studies.
- Activities in FY2006 will begin with the compilation of the latest available transit route and schedule information (from the above sources) in the peak and off-peak formats required for the travel demand models. All traffic count data will be converted to AWDT format for use in highway networks required for these models. A set of TP+ networks for highway and transit will be coded from this information depicting current year conditions.
- Using these networks as a starting point, a series of FY2007-2012 TIP and Plan Conformity networks will be developed for the following analysis years: 2010, 2020, and 2030 and other years as specified in upcoming federal guidance. Tasks involved are as follows:
  - receive and organize project inputs to the FY2007-2012 TIP and amended CLRP;
  - code, edit, and finalize networks for highway, HOV, and transit;
  - develop transit fare matrices consistent with these networks.
  - Provide documentation and training in the development of these highway and transit networks.

**Oversight:** Travel Forecasting Subcommittee

**Products:** Series of updated transportation networks by mode, including technical training and documentation

**Schedule:** June 2006

(NOTE: This information has not been reviewed with the Travel Forecasting Subcommittee, which next meets on January 21, 2005.)

## B. GIS TECHNICAL SUPPORT (\$444,400)

- Provide data and technical support to staff using the COG/TPB GIS for development and distribution of data and information developed by the TPB planning activities, including Regional Studies, the CLRP, the TIP, Congestion Monitoring and Analysis, Cooperative Forecasting, Regional Transportation Data Clearinghouse, Network and Models Development, and Bicycle Planning.
- Enhance the methodology for "seamless" editing of regional highway and transit networks. Provide ongoing maintenance of existing GIS network editing tools and develop new tools for the editing of highway, transit and HOV networks.
- Train staff on use of GIS databases for transportation planning.
- Support on-line and other access to COG/TPB GIS metadata, databases, and applications via COG's website.
- Continue to coordinate the development of GIS with state DOTs, WMATA, and the local governments through quarterly meetings of COG's GIS Committee and other activities.
- Add additional transportation and land use databases to the COG/TPB GIS.
- Maintain and install COG/TPB's GIS-related hardware and software.

**Oversight:** Technical Committee

**Products:** Updated GIS software, databases, User documentation, Training materials, and Report on FY2005 GIS activities

**Schedule:** June 2006

## C. MODELS DEVELOPMENT (\$649,000)

- Having begun the development of both the commercial vehicle model and a nested logit mode choice model, the FY2006 effort will focus on the following:
  - Completing the commercial vehicle model;
  - Completing the nested logit mode choice model;
  - Continuing testing of the FTA SUMMIT model;
  - Providing continued training in the use of the currently adopted models;
  - Continued participation on a national MPO panel established to recommend practices in travel demand modeling;
  - Continuing development of a more formal airport access demand model, incorporating mode choice; and
  - Continuing exploration of tour-based and/or activity-based models.
- Staff will continue to review best practice in travel demand modeling through participation in the Travel Model Improvement Program (TMIP), TRB, and literature reviews.
- Staff will provide documentation for all products from the models development program.

**Oversight:** Travel Forecasting Subcommittee

**Products:** Recommendation for continued updating of the travel demand modeling process, documentation of all activities

**Schedule:** June 2006

#### D. SOFTWARE SUPPORT (\$122,200)

- Support execution of TP+/Viper software in the running of DTP travel demand forecasting applications.
- Support execution of the Mobile6.2 Mobile Source Emissions Factor Model.
- Provide appropriate training to DTP staff in application of TP+/Viper and Mobile6.2.
- Monitor development and application of travel demand model sets in use in corridor studies.

- C Monitor other travel demand forecasting software package performance and development under the Microsoft Windows system.
- C Monitor the performance of DTP desktop and laptop microcomputer hardware and software and make recommendations to DTP senior staff concerning utilization, acquisitions, and upgrades as appropriate. Coordinate with the COG Information Technology Services (ITS) staff in this task and in the solution of any problems which may arise under the Microsoft Windows operating system.
- C Monitor the development and operation of various systems for the back-up and archiving of microcomputer hard drives and transfer of data. Provide training to DTP staff in the use of those systems adopted for staff use. Continue to support the installation and operation of dual drive CD-R/-RW/DVD+/-RW read/write systems on all DTP microcomputers and provide training where appropriate. Obtain and test other new systems that show significant promise in meeting DTP staff needs.

**Oversight:** Technical Committee.

**Products:** Operational travel demand forecasting process ( TP+/Viper travel demand software) plus operational Mobile6.2 Model.  
File transfer, storage and retrieval processes.  
Operation of CD-R/-RW/DVD+/-RW dual drive read/write systems on DTP microcomputers.  
DTP staff training in TP+/Viper, Mobile6.2 and CD-R/-RW/DVD+/-RW read/write systems.  
Upgraded desktop and laptop microcomputer hardware to support TP+/Viper, Mobile 6.2 and other operations.

**Schedule:** June 2006

## IV. TRAVEL MONITORING

### A. CORDON COUNTS (\$367,500)

In the summer of FY2006, staff will complete data collection for the regional classification counts of commercial vehicles, trucks, and buses. The task includes processing and checking of all data collected in spring and summer of 2005, and the preparation of a technical memorandum documenting the methodology.

In spring of 2006, for the Central Employment Area Cordon Count, staff will collect all traffic data and will coordinate transit data collection among various transit providers in the region. Data collection will take place during the A.M. peak period (5 A.M. to 10 A.M.) inbound and the P.M. peak period (3 P.M. to 8 P.M.) outbound. Data collected will include vehicle volumes by time of day, vehicle classification and auto occupancy, and transit passenger volumes. Data will be edited, checked for reasonableness, and keyed for processing. The end product for this task will be data files ready to process in FY2007.

**Oversight:** Travel Forecasting Subcommittee

**Products:** Classification count file and technical memorandum; Data files from the Central Employment Area Cordon Count

**Schedule:** Classification count file and technical memorandum –September 2005; Cordon Count data files – June 2006

### B. CONGESTION MONITORING AND ANALYSIS (\$401,100)

- Analyze a.m. and p.m. peak period aerial survey data collected in FY2005, and prepare level of service information; compare with historical data and identify trends through time.
- Conduct aerial survey of the region's freeway system during the off-peak and weekend periods, consistent with previous data collection efforts.
- Perform travel time runs on the region's arterial highway system during off-peak and p.m. peak periods, consistent with past years' data collection but with additional routes and moving from a three year to a five year cycle.
- Explore new technologies / data collection methods in congestion monitoring to support efforts to meet congestion management system requirements and to provide additional data for the travel model development program.

**Oversight:** Travel Forecasting Subcommittee

**Products:** Arterial Travel Time Report  
Freeway Level of Service Report  
Data file of off-peak traffic densities ( to be analyzed in FY 2007)

**Schedule:** Freeway and Arterial Reports - December 2005  
Data files of traffic densities - June 2006

### C. TRAVEL SURVEYS AND ANALYSIS

#### 1. Household Travel Survey (\$50,700)

- Provide data, documentation, and technical support to users of 1998-2003 Longitudinal Household Travel Survey data files. Update user documentation as required.
- Continue planning and seek funding for a large sample methodologically enhanced activity-based regional household travel survey.
- *It is currently estimated that between \$1.8 and \$2.0 million in additional funding will be needed for the data collection for the methodologically enhanced regional household travel survey of approximately 10,000 households.*

**Oversight:** Travel Forecasting Subcommittee

**Product:** Plans for a large sample methodologically enhanced activity-based regional household travel survey

**Schedule:** June 2006

#### 2. Regional Travel Trends Report (\$144,400)

- Prepare a policy report summarizing changing travel trends in the metropolitan region using existing sources of data collected in prior years (Regional Transportation Data Clearinghouse, Cordon Counts, Household Travel surveys, Aerial Surveillance data, etc.)

**Oversight:** Technical Committee

**Product:** Policy Report

**Schedule:** June 2006

### D. REGIONAL TRANSPORTATION DATA CLEARINGHOUSE (\$122,500)

- Update Clearinghouse data files with FY04-05 highway and transit network data.
- Update Clearinghouse traffic volume data with AADT volume estimates, hourly directional traffic volume counts and vehicle classification counts received from state DOTs and participating local jurisdiction agencies.
- Update Clearinghouse transit ridership data with data received from WMATA, PRTC, VRE, MTA and local transit agencies including the Ride-On, The Bus, ART, DASH and the Fairfax Connector.
- Add updated Cooperative Forecasting data to the Clearinghouse by TAZ.
- Update Regional Clearinghouse user manuals and documentation.
- Provide maps, hard copy tabular data and technical support to state and local agency staff to assist in a technical review of updated Clearinghouse data.
- Distribute final updated Clearinghouse database and documentation to TPB participating agencies.
- Work with State DOTs and local agency staff to examine the feasibility of developing a continuing sample traffic counting locations and volume estimation methodology for the metropolitan Washington region similar to the procedures used by the State DOTs to produce statewide Highway Performance Monitoring System (HPMS) traffic volume statistics.

**Oversight:** Technical Committee

**Product:** Updated Clearinghouse Database and Documentation

**Schedule:** June 2006

#### **V. TECHNICAL ASSISTANCE (\$1,084,200)**

The funding level allocated to technical assistance is 15 percent of the total new FY 2006 funding in the basic work program. The funding level for each state is 13.5 percent of the total new FTA and FHWA planning funding passed through each state. The funding level for WMATA is 8 percent of the total new FTA funding. The specific activities and levels of effort are developed through consultation between each state and WMATA representatives and DTP staff.