

OLD COLONY METROPOLITAN PLANNING ORGANIZATION

FFY 2010 UNIFIED PLANNING WORK PROGRAM

**Endorsed on August 19, 2009 by the Old Colony MPO
*October 1, 2009 through September 30, 2010***



**Prepared By:
OLD COLONY PLANNING COUNCIL
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Brockton, Massachusetts
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OLD COLONY METROPOLITAN PLANNING ORGANIZATION
FFY 2010
UNIFIED PLANNING
WORK PROGRAM

For:
Transportation and Transportation Related
Planning Activities

During:
October 1, 2009 through September 30, 2010

Prepared By:
OLD COLONY PLANNING COUNCIL
70 School Street
Brockton, MA

Unified Planning Work Program (UPWP)
UPWP Task 1200



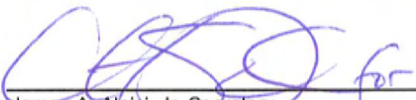
Old Colony Metropolitan Planning Organization

This document was prepared in cooperation with the Massachusetts Highway Department (#0052455), the Executive Office of Transportation and Public Works, the Federal Highway Administration, and the Federal Transit Administration.

FFY 2010 Unified Planning Work Program

Endorsement of FFY 2010 Unified Planning Work Program

This is to certify that the Signatories of the Old Colony Metropolitan Planning Organization, at their Old Colony MPO meeting on August 19, 2009, hereby approved and endorsed the FFY 2010 Unified Planning Work Program (UPWP) in its entirety for the Old Colony Region, in accordance with the certified 3C Transportation Planning Process.


James A. Aloisi, Jr., Secretary
Executive Office of Transportation and Public Works

19 Aug 09
Date

James E. Harrington, Mayor
City of Brockton

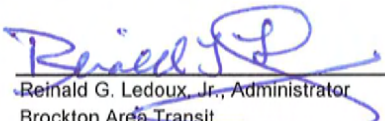
Date


Luisa M. Paiewonsky, Commissioner
Massachusetts Highway Department

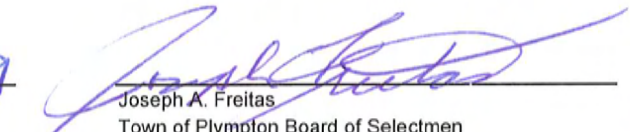
8/19/09
Date


Richard J. Quintal, Chairman
Town of Plymouth Board of Selectmen

8/19/09
Date


Reinald G. Ledoux, Jr., Administrator
Brockton Area Transit

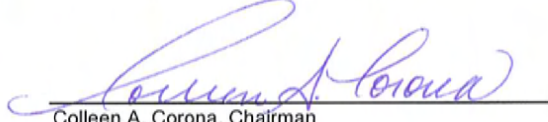
8.19.09
Date


Joseph A. Freitas
Town of Plympton Board of Selectmen

8/19/09
Date


Jeanmarie Kent Joyce, President
Old Colony Planning Council

8/19/09
Date


Colleen A. Corona, Chairman
Town of Easton Board of Selectmen

8/19/09
Date

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OLD COLONY METROPOLITAN PLANNING ORGANIZATION FFY 2010 UNIFIED PLANNING WORK PROGRAM

INTRODUCTION

The Old Colony Metropolitan Planning Organization (MPO) is responsible for conducting a continuing, cooperative, and comprehensive transportation planning process that results in plans and programs that consider all transportation modes and that support the metropolitan and communities' goals. The Old Colony MPO must plan for the movement of both people and goods within the Region by all modes of travel, including highways, rail, public transportation, bicycles, and foot. It also plans for the connections linking these modes.

The FFY 2010 Unified Planning Work Program (UPWP) for the Old Colony MPO describes and provides budgetary information for the transportation planning tasks and activities, which are to be conducted in the region during the coming year. The Unified Planning Work Program is a federally required certification document, which must be prepared and endorsed annually by the Old Colony Metropolitan Planning Organization, prior to the start of the planning program. The Old Colony Planning Council has the responsibility of preparing the Unified Planning Work Program. The planning activities are organized first by work element in a format that will allow efficient administration, management, and reporting.

The FFY 2010 UPWP describes the work to be accomplished by the Old Colony Metropolitan Planning Organization. Each transportation planning activity is described as a procedure under specific work tasks. For each procedure, the anticipated accomplishment or product and the estimated work force resources needed are also given. For each work task the total staffing requirements, task budget, and sources of funding are given. For convenience in management, similar work tasks are grouped into broad areas or elements as follows:

- 1000 Management and Support of the Planning Process and Certification Activities
- 2000 Data Collection and Analysis Activities
- 3000 Short Range and Long Range Transportation Planning Activities
- 4000 Other Transportation Technical Activities

The UPWP is a budgeting tool that is used by Old Colony Planning Council, MassHighway, Federal Highway Administration, Federal Transit Administration, Brockton Area Transit and Executive Office of Transportation and Public Works as the Scope of Service for the contract for planning services and can be amended during the program year with approval of the Old Colony Metropolitan Planning Organization.

Population growth and the associated travel demand continue to place pressure on the transportation system in the Old Colony Region. The Regional Transportation Plan (RTP) represents the MPO's effort to create a document and a process that will meet the challenges of preserving and expanding a truly intermodal transportation system. Following the directives of the law, it includes goals and policies, analyses and recommendations necessary to build and maintain an efficient, effective, and affordable regional transportation system. It is the intention of the Old Colony MPO to build on the current system, working to make it comprehensive and fully integrated. The goal is a balanced range of well-connected transportation options that will use the best of each travel mode: automobile, transit, rail, bicycle, pedestrian, boat, air, and truck. The RTP identifies the region's transportation project needs for the next twenty years. The principal way in which Regional Transportation Plan recommendations will be translated into action is through the Transportation Improvement Program (TIP). The TIP is a multimodal list of projects for which federal surface transportation funds will be used. The TIP covers a four-year period and is updated every year. It must be based on a reasonable estimate of funds that will be made available to the region.

This year's UPWP continues to expand on several major tasks that are specifically targeted to implement provisions of several pieces of federal legislations, such as the Safe, Accountable, Flexible, and Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU)), the Clean Air Act Amendments of 1990, and the Americans with Disabilities Act. The federal transportation act, the SAFETEA-LU identifies eight (8) planning factors that Metropolitan Planning Organizations, such as the Old Colony MPO, must consider in their Unified Planning Work Programs. These general planning factors are:

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1. **Economic Vitality** – Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity and efficiency;
2. **Safety** – Increase the safety of the transportation system for motorized and nonmotorized users;
3. **Security** – Increase the security of the transportation system for motorized and nonmotorized users;
4. **Mobility** – Increase the accessibility and mobility of people and freight;
5. **Environment** – 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;
6. **System Integration** – Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight;
7. **System Management** – Promote efficient system management and operation, and;
8. **System Preservation** – Emphasize preservation of the existing transportation system.

This year's UPWP efforts focus on the development and completion of the Route 58 Corridor Study, the Route 139 Corridor Study, the Major Bottleneck Identification and Action Plan, the 2011 Regional Transportation Plan Phase 1, the Climate Change Transportation Impact Study, the Regional Priority Development Areas and Regional Priority Preservation Area Planning, continued development of the Regional Transportation Network Model (TransCAD), operation of the Congestion Management Process, operation of the Safety Management System, operation of the Pavement Management System, and the development of the Transportation Improvement Program. Attention is also focused on the regional traffic-counting program, maintaining a regional database program, adjusting and amending certification documents. Old Colony Planning Council shall continue to integrate the Geographic Information Systems and Pictometry into various tasks and plans undertaken. As indicated in the title of the new Federal transportation act, the safety of our transportation network has become an increasing concern, and a key consideration in the selection and prioritization of future projects. Tasks within the Unified Planning Work Program are consistent with the goals of the Regional Transportation Plan. As an example, the Plan supports efforts to reduce congestion, improve safety, and develop capital projects that represent an efficient expenditure of public dollars. Such efforts are addressed in this Unified Planning Work Program under multiple tasks such as the Management Systems of Congestion, Pavement, and Safety Tasks along with the Transportation Improvement Program Task.

Public participation continues to be a vital element of the transportation planning process. Community representatives of the Old Colony Metropolitan Planning Organization Joint Transportation Committee meet monthly on the second Thursday to discuss transportation projects and issues of regional importance. The involvement of private sector participation is accomplished through this committee. The Old Colony Metropolitan Planning Organization meets multiple times per year to discuss transportation planning issues, review and endorse certification documents. A Public Participation Program was developed to solicit input to the various tasks and programs undertaken. This process will continually be reviewed and refined as necessary. The period covered by each contract described in this document by funding source is as follows:

The preparation of the FFY 2010 UPWP has been financed in part through grants from the Federal Highway Administration and Federal Transit Administration, U.S. Department of Transportation, under Metropolitan Planning Program, Section 104(f) of Title 23, U.S. Code, under Contract 0052455. The views and opinions of the Old Colony Planning Council expressed herein do not necessarily state or reflect those of the U. S. Department of Transportation.

Funding Sources

FHWA PL/ EOT	October 2009 through September 2010
FTA/EOT	October 2009 through December 2010
BAT	July 2009 through June 2010

OLD COLONY METROPOLITAN PLANNING ORGANIZATION FFY 2010 UNIFIED PLANNING WORK PROGRAM

List of Acronyms

3C:	Comprehensive, Cooperative, and Continuing Planning Process
ADA:	Americans with Disabilities Act
BAT:	Brockton Area Transit Authority
CAAA:	Clean Air Act Amendments of 1990
CMP:	Congestion Management Process
CTPP:	Census Transportation Planning Package
DEP:	Department of Environmental Protection
EIR:	Environmental Impact Report
EOTPW:	Executive Office of Transportation & Public Works
ENF:	Environmental Notification Form
EPA:	Environmental Protection Agency
FHWA:	Federal Highway Administration
FTA:	Federal Transit Administration
GIS:	Geographic Information System
GATRA:	Greater Attleboro-Taunton Regional Transit Authority
JTC:	Joint Transportation Committee
MBTA:	Massachusetts Bay Transportation Authority
MEPA:	Massachusetts Environmental Protection Agency
MOU:	Memorandum of Understanding
MPO:	Metropolitan Planning Organization
NHS:	National Highway System
OCPC:	Old Colony Planning Council
SIP:	State Implementation Plan
SPR:	State Planning and Research Program
STP:	Surface Transportation Program
TCM:	Transportation Control Measure
TIP:	Transportation Improvement Program
RTP:	Regional Transportation Plan
UPWP:	Unified Planning Work Program

**OLD COLONY METROPOLITAN PLANNING ORGANIZATION
FFY 2010 UNIFIED PLANNING WORK PROGRAM**

**1000 - MANAGEMENT AND SUPPORT OF THE PLANNING PROCESS AND
CERTIFICATION ACTIVITIES**

In order to properly support and effectively control the transportation planning activities of the Old Colony Metropolitan Planning Organization, a number of program support activities must be undertaken. As a whole, these tasks allow the functioning and the continued certification of the Old Colony Metropolitan Planning Organization in accordance with the Commonwealth of Massachusetts and U.S. DOT requirements.

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ELEMENT 1000 - MANAGEMENT AND SUPPORT OF THE PLANNING PROCESS AND CERTIFICATION ACTIVITIES

TASK 1100 - 3C PROGRAM SUPPORT

OBJECTIVE:

To manage, support, and provide the necessary capability to maintain an open, comprehensive, cooperative and continuing (3C) transportation planning and programming process at all levels of government in conformance with applicable Federal and State requirements and guidelines. Tasks include presentation of regional transportation plans and programs (i.e. Regional Transportation Plan (RTP), Unified Planning Work Program (UPWP), Transportation Improvement Program (TIP), and other transportation studies); MEPA reviews: coordination of transportation planning activities with other local and state agencies, and other Metropolitan Planning Organizations; provide technical assistance and information related to transportation planning to the public, local, state and federal agencies; provide timely response to relevant planning studies by local, state, and federal agencies; and administer contracts.

PREVIOUS WORK:

- Maintenance and operation of the Old Colony Planning Council Metropolitan Planning Organization (MPO).
- Maintenance and certification of a viable and ongoing 3C Transportation Planning Process.
- Distribution of information on federal and state rule and regulation.
- Reviews on Environmental Notification Forms and Environmental Impact Reports/Environmental Impact Statements.
- Administration of Executive Office of Transportation and Public Works, MassHighway, Federal Transit Administration, Brockton Area Transit, Greater Attleboro-Taunton Transit Authority, and Executive Office of Energy and Environmental Affairs contract needs.
- Assistance with statewide transportation planning programs.
- Preparation of Old Colony Title VI Report.
- Coordination with environmental planning.
- Solicitation and analysis of Transportation Demand Management & Congestion Mitigation and Air Quality Projects.
- Solicitation and analysis of Enhancement Projects.
- Input and support for economic and community development programs.
- Endorsement of regional certification documents.
- Support for public participation and private enterprise involvement in the 3C process, Federal Highway Administration, Federal Transit Administration and air-quality programs
- Provision of ongoing technical assistance to various agencies and local communities.

PROCEDURES:

1. Provide administrative and technical support to the 3C regional planning process such as: Provide community liaison activities and short term planning assistance to all Old Colony Planning Council communities on transportation planning matters; Review Federal and State transportation programs, guidelines, circulars and manuals, plans and regulations as may be required or necessary; Provide for and support public and private enterprise involvement in the 3C Planning Process; Participate in informational programs on transportation, air quality, hazardous waste, energy conservation, accessibility and other planning.
2. Provide and maintain coordination for Old Colony Metropolitan Planning Organization activities including the presentation of transportation plans and programs (e.g. Unified Planning Work Program, Regional Transportation Plan, Transportation Improvement Program, Amendments, etc.), developed through the public participation process. Distribute documents/amendments to the Old Colony Metropolitan Planning Organization for appropriate action and/or endorsement as needed. Develop documents necessary for the certification reviews and the self- certification process. Maintain all Old Colony Metropolitan Planning Organization documentation records and files.

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ELEMENT 1000 - MANAGEMENT AND SUPPORT OF THE PLANNING PROCESS AND CERTIFICATION ACTIVITIES

TASK 1100 - 3C PROGRAM SUPPORT (CONTINUED)

3. To ensure that there is equity in the distribution of transportation resources and that persons/groups classified as minority and/or low income have adequate accessibility to employment, education, medical care and other important services, Old Colony Planning Council will continually refine the Environmental Justice Plan for the Old Colony Region. The working plan includes the following:
 - Regional maps using the 2000 Census illustrating where high concentrations of minority and low-income persons are located.
 - Regional maps using the 2000 Census identifying where highway Transportation Improvement Projects are located in relation to minority population and low-income areas.
 - Regional maps using the 2000 Census illustrating the existing transit routes, fatal crash locations, pavement conditions, safe routes to schools buffers, and future capital transit projects.
 - Examination of mobility issues using the 2000 Census, access to jobs and services, and levels of service for both transit services and automobiles.
 - Analysis and documentation using the 2000 Census of project benefits and impacts.
 - Efforts to address those that are limited English proficient.
4. Review and comment on traffic studies submitted to member municipalities by developers under the Massachusetts Environmental Protection Agency process or as needed/requested for local permits. Review projects for consistency with the regional transportation goals and objectives, program consistency, etc.
5. Provide for participation of staff in educational development programs and conferences with coordination of MassHighway, Executive Office of Transportation and Public Works, Federal Highway Administration, Federal Transit Administration, Brockton Area Transit, Greater Attleboro-Taunton Transit Authority and other agencies as needed.
6. Provide inter-agency coordination with other transportation agencies, including MassHighway, Federal Highway Administration, Executive Office of Transportation and Public Works, Federal Transit Administration, RPAs and RTAs on an ongoing, regular basis. Coordinate highway-planning activities with local officials and MassHighway District 5. Provide certification documents in accordance with coordination MOU.
7. Promote bikeways and pedestrian initiatives in the region. Coordinate activities within the state's bikeway and pedestrian planning efforts.
8. Develop and maintain staff awareness of Intelligent Transportation System Technology, and promote Intelligent Transportation System solutions in the region and participate in the implementation of Intelligent Transportation System Architectures.
9. Participate in the South Coast Rail - Commuter Rail Task Force for the New Bedford/Fall River Commuter Rail Restoration Project as required under the Executive Office of Energy and Environmental Affairs Massachusetts Environmental Protection Agency certificate.
10. Provide financial management of the transportation planning contracts with MassHighway/Federal Highway Administration, Executive Office of Transportation, and Public Works/Federal Transit Administration, Executive Office of Energy and Environmental Affairs and Brockton Area Transit staff supervision and work assignment. Prepare applications, contracts, time sheets, progress report, and billings and perform other contract administration activities necessary to the conduct of the 3C Transportation Planning Process.

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ELEMENT 1000 - MANAGEMENT AND SUPPORT OF THE PLANNING PROCESS AND CERTIFICATION ACTIVITIES

TASK 1100 - 3C PROGRAM SUPPORT (CONTINUED)

11. Follow up on recommendations of previous transportation planning studies by attending and participating in public meetings or making presentation of study results.
12. Review and circulate Executive Office of Transportation and Public Works and MassHighway guidelines governing project solicitation, evaluation, selection, and ranking under the Transportation Enhancement Program. Old Colony Planning Council transportation staff will work with member communities in preparing their Transportation Enhancement Program applications. A subcommittee could be appointed by the Joint Transportation Committee Chairman to review and evaluate projects as needed.

PRODUCT:

Maintenance and certification of a viable 3C Transportation Planning Process and Old Colony Metropolitan Planning Organization operation (ongoing); Input and Support Community Development and Environmental Planning (ongoing); 2010 Old Colony Title VI Report; Provide information on SAFETEA-LU and the Clean Air Act (CAA) as needed; Implementation of Certification Review Recommendations; Inter-agency meetings, memorandum and correspondence on various aspects of the transportation planning program (ongoing); Congestion Mitigation and Air Quality project solicitation and selection; Transportation Enhancement Workshop and project solicitation, selection and ranking; and administration of contract needs.

SCHEDULE:

Management and support activities to be carried on a continuing basis throughout the program year.

FUNDING:

FHWA	EOT	FTA 5303	OCPC	BAT	OTHER	TOTAL
\$42,400	\$10,600	\$5,400	\$1,350			\$59,750

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ELEMENT 1000 - MANAGEMENT AND SUPPORT OF THE PLANNING PROCESS AND CERTIFICATION ACTIVITIES

TASK 1200 - UNIFIED PLANNING WORK PROGRAM (UPWP)

OBJECTIVE:

To develop, endorse and maintain an annual Unified Planning Work Program that provides a description of the overall transportation related planning activities, ongoing and anticipated in the region, during the forthcoming year and including funding sources and agency responsibility. Endorsement of this document shall be consistent with the Public Participation Plan.

PREVIOUS WORK:

Previous Unified Planning Work Programs (1974-2009) have been prepared and endorsed annually by the Old Colony Metropolitan Planning Organization.

PROCEDURES:

1. Maintain the existing Unified Planning Work Program. Review and update the Unified Planning Work Program when necessary and circulate revisions to the Old Colony Metropolitan Planning Organization members, Joint Transportation Committee, Old Colony Planning Council, and other appropriate agencies for review, adjustments, and/or endorsement.
2. Follow the formal Old Colony Metropolitan Planning Organization endorsement process for major amendments. Other revisions to the Unified Planning Work Program, such as changes in the existing level of effort or funding of a specific task or the addition/deletion of a task and procedures within the current contract/grant programs, etc., will be made as required throughout the program year upon mutual agreement of the agencies involved. Such revisions/adjustment will be conducted by the Old Colony Planning Council staff and distributed to the appropriate agencies. These revisions/adjustments will not require formal Old Colony Metropolitan Planning Organization endorsement.
3. Develop a new Unified Planning Work Program for the Old Colony region covering the next program year. The Unified Planning Work Program will be developed in conformance with the latest federal and state regulations and guidelines. The Unified Planning Work Program describes all transportation, air quality and transportation related planning activities anticipated within the region during the next year regardless of funding source. The staff will prepare the Unified Planning Work Program in coordination with the Joint Transportation Committee and submit it in draft version to Old Colony Planning Council, MassHighway, Federal Highway Administration, Federal Transit Administration, Executive Office of Transportation and Public Works and Brockton Area Transit for review and comments. The final document will be endorsed by the Old Colony Metropolitan Planning Organization.

PRODUCT:

Maintain the existing Unified Planning Work Program; Prepare and submit Adjustments and Revisions, as needed; Invoices; Amendments to the FFY 2010 Unified Planning Work Program, as necessary; Prepare the FFY 2011 Unified Planning Work Program.

SCHEDULE:

FFY 2009 UPWP to be developed and endorsed by September 2008.

FUNDING:

FHWA	EOT	FTA 5303	OCPC	BAT	OTHER	TOTAL
\$8,000	\$2,000	\$1,000	\$250			\$11,250

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ELEMENT 1000 - MANAGEMENT AND SUPPORT OF THE PLANNING PROCESS AND CERTIFICATION ACTIVITIES

TASK 1300 - PUBLIC PARTICIPATION PROGRAM

OBJECTIVE:

To continue to support and implement the Old Colony Metropolitan Planning Organization's Public Participation Plan that was developed and adopted in 1994, and updated and endorsed in 2007, as required by the federal planning regulations. This process is designed to ensure that key public agencies at all levels of government, private and nonprofit organizations and interested citizens will be kept apprised of transportation planning milestones in the region. The encouragement of meaningful participation of local citizens in metropolitan transportation planning is one of the most important goals of the "3C" (continuing, cooperative, and comprehensive) process. The Public Participation Plan is reviewed and updated as deemed appropriate.

Provide staff support and actively encourage public and private participation in the 3C planning process through the Joint Transportation Committee, Old Colony Planning Council, and Old Colony Metropolitan Planning Organization.

Prepare, publish, and distribute a series of newsletters. Prepare articles and documentation related to transportation planning including articles for the Old Colony Planning Council Annual Report. These newsletters and articles will be in the form of public relations reports which will highlight transportation issues and report on the activities of Old Colony Planning Council, Joint Transportation Committee, Brockton Area Transit, MassHighway, Executive Office of Transportation and Public Works, Greater Attleboro-Taunton Transit Authority, Executive Office of Energy and Environmental Affairs, Old Colony Metropolitan Planning Organization, Federal Highway Administration and Federal Transit Administration.

Under this task, the Old Colony Metropolitan Planning Organization will continue monitoring the effectiveness of its public participation program. The process outlines the public outreach procedures that will be followed by the Old Colony Metropolitan Planning Organization in developing and amending the Region's Transportation Plan, and Transportation Improvement Program.

PREVIOUS WORK:

Community Handbook, Team 2000 Workshop, Easton/Raynham Commuter Rail Study, South Weymouth Naval Air Station Task Force, Transportation Funding Guide, Joint Transportation Committee Participation Improvement Program, Joint Transportation Committee Handbook, Joint Transportation Committee Newsletters, Old Colony Planning Council Newsletters, Route 3 South Task Force; News Releases and Articles for the Media, Old Colony Planning Council Annual Reports, Monthly Joint Transportation Committee meetings, Old Colony Public Participation Plans, Public Participation Program (1992-1997), Public Participation process, 1993, 1994, 1997, 2000, 2003, and 2007 Old Colony Regional Transportation Plan), Transportation Improvement Program, Transportation Improvement Program Implementation Process and Old Colony Public Participation Plan Update, 2004-2008 Title VI Report, and 2007 Public Participation Plan.

PROCEDURES:

1. Provide a proactive public involvement process that provides complete information, timely public notice, full public access to key decisions, and supports early and continuing involvement of the public in the developing Plans and Transportation Improvement Programs and other documents.
2. Provide staff support and actively encourage public and private participation in the 3C planning process through the Old Colony Joint Transportation Committee including:
 - Host meetings of the Joint Transportation Committee.
 - Continue working with the Joint Transportation Committee. Continue to work towards expanding and educating the membership. Involve members as developing projects require and allow. Modify and expand the Transportation Advisory Network (TAN) as appropriate.

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ELEMENT 1000 - MANAGEMENT AND SUPPORT OF THE PLANNING PROCESS AND CERTIFICATION ACTIVITIES

TASK 1300 - PUBLIC PARTICIPATION PROGRAM (CONTINUED)

- Continue to maintain and update Old Colony Planning Council's comprehensive mailing lists of interest groups, local, state, and federal agencies, Joint Transportation Committee, minority and low-income groups, and individuals who should be informed of Regional Plans, Programs and accomplishments in the area of comprehensive transportation and environmental planning and development.
 - Make provision to ensure early and continuing involvement of the public in the development of plans and other documents. Old Colony Planning Council shall utilize visualization techniques and will publish or announce the availability of plans and/or document for review and comments.
 - Continue to review and evaluate the effectiveness of the public involvement process; identify innovative public involvement techniques and/or programs that will enhance public participation.
 - Continue to implement the public involvement process in all aspects of Old Colony Metropolitan Planning Organization planning with particular emphasis on the Regional Transportation Plan and the Transportation Improvement Program. During the year, Old Colony Planning Council will continue to prepare mailings, newspaper announcements, public notices, and public service announcements, as outlined in Old Colony Metropolitan Planning Organization's Public Involvement Process.
 - Continue to identify under-served and under-represented groups in the Old Colony Planning Council region, continue to make efforts to reach out, attempt to get them interested, and involved in the transportation planning process. Old Colony Planning Council will continue efforts to broaden public participation especially reaching out to the limited English proficient, minority, and low-income population groups.
 - Provide staff support and actively encourage both public and private minority groups/agencies participation in the 3C planning process through the Old Colony Joint Transportation Committee.
3. Prepare articles and documentation related to transportation planning including: Articles for the Old Colony Planning Council Annual Report, and newsletters.
 4. Prepare and update documents for the use of the Joint Transportation Committee membership and community officials such as the Community Handbook; Easton/Raynham Commuter Rail Feasibility Study, Old Colony Planning Council Transportation Funding Guide and Old Colony Planning Council Public Participation Plan as necessary.
 5. Prepare news release and articles for the media for important activities that require immediate publicity.
 6. Prepare, publish, and distribute a series of newsletters. These newsletters will be in the form of public relations reports, which will highlight transportation issues and report on the activities of Old Colony Planning Council, Joint Transportation Committee, Brockton Area Transit, MassHighway, Executive Office of Transportation and Public Works, Executive Office of Energy and Environmental Affairs, Old Colony Metropolitan Planning Organization, Greater Attleboro-Taunton Transit Authority, Federal Highway Administration and Federal Transit Administration.
 7. Continue to address the Environment Justice Issue as part of the public participation process and ensure that there is equity in the distribution of transportation resources in the Old Colony region. This process is designed to ensure that key public and private minority agencies, organizations and interested citizens will be kept apprised of transportation planning milestones in the region. The encouragement of meaningful participation of local minority groups, organizations, and citizens in metropolitan transportation planning is one of the most important goals of the "3C" process (comprehensive, cooperative, and continuing).
 8. Present transportation plans and programs (e.g. Regional Transportation Plan, Transportation Improvement Program, Public Participation Plan, and Unified Planning Work Program) developed through the public and

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ELEMENT 1000 - MANAGEMENT AND SUPPORT OF THE PLANNING PROCESS AND CERTIFICATION ACTIVITIES

TASK 1300 - PUBLIC PARTICIPATION PROGRAM (CONTINUED)

private participation process to the Old Colony Metropolitan Planning Organization for appropriate action (endorsement as needed).

9. Distribute the following documents Transportation Improvement Program, Unified Planning Work Program, Public Participation Plan, and Regional Transportation Plan as well as any amendments to these documents to all state and federal agencies.

10. Maintain, update, and endorse the Old Colony Metropolitan Planning Organization Public Participation Plan as necessary. Old Colony Planning Council will make sure that the interested parties and the public are involved in developing new outreach procedures and will have many opportunities to voice their opinions on these changes once proposed. Endorsement procedures will be conducted in a manner acceptable to the Federal Highway Administration and Federal Transit Administration.

PRODUCT:

Metropolitan Planning Organization meetings, Joint Transportation Committee meetings, Metropolitan Planning Organization mailings, Joint Transportation Committee documents, Website Notices, Articles in Old Colony Planning Council Annual Report and News Release, Participation in public meetings, newsletters, maintenance of a viable Public Participation Process, 2010 Old Colony Title VI Report, 2010 Public Participation Plan amendments, and refinements for a web page on the Internet.

SCHEDULE:

To be carried out throughout the program year. Publication of newsletters may be quarterly. Annual review of PPP to be completed by September 2010.

FUNDING:

FHWA	EOT	FTA 5303	OCPC	BAT	OTHER	TOTAL
\$36,000	\$9,000	\$4,600	\$1,150			\$50,750

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ELEMENT 1000 - MANAGEMENT AND SUPPORT OF THE PLANNING PROCESS AND CERTIFICATION ACTIVITIES

TASK 1400 - TRANSPORTATION IMPROVEMENT PROGRAM (TIP)

OBJECTIVE:

To develop and maintain a financially constrained staged multi-year program of transportation/air quality improvement projects that is consistent with the Old Colony Metropolitan Planning Organization Regional Transportation Plan, the State Implementation Plan, the Environmental Protection Agency's Air Quality Conformity Regulations, and Federal Highway Administration/Federal Transit Administration's Planning Regulations. The Transportation Improvement Program will include a program of highway and transit projects for FFY 2011-2014. Any project, which is to be implemented, using federal funding, must appear in this document and any project, which is to be implemented in the current fiscal year, must appear in the annual element.

The Old Colony Metropolitan Planning Organization's FFY 2010-2013 Transportation Improvement Program will be maintained and any future amendments to the Transportation Improvement Program will be conducted in accordance with the Public Participation Plan. The FFY 2011-2014 Transportation Improvement Program will be developed and endorsed.

PREVIOUS WORK:

Prior Transportation Improvement Programs have been developed and endorsed annually (1976-2009), most recently, the Transportation Improvement Program for Old Colony Planning Council region, October 1, 2009 - September 30, 2012. Public Participation Process, Transportation Improvement Program Amendments & Adjustments 2005, Amendments 2006, Amendments 2007, Amendments and Adjustments 2008, Amendments and Adjustments 2009.

PROCEDURES:

1. Develop a program of projects: In developing the FFY 2011 - 2014 Transportation Improvement Program, staff will update the list of all transit, highway, or air quality projects that are expected to require federal and state transportation funds for planning and engineering, construction or purchase during FFY 2011 - 2014. This work will include:
 - All transportation projects or programs that require Federal Highway Administration or Federal Transit Administration approval that are not using Federal transportation funds.
 - For informational purposes, all projects to be funded with Federal funds other than from Federal Highway Administration or Federal Transit Administration.
 - For informational purposes, all projects to be funded with Non-Federal Funds.
2. Include the following information in this multi-year list of projects: The MassHighway/Executive Office of Transportation and Public Works identification title; Project description; Regional priority; Estimated total cost; Amount of federal funds proposed to be obligated during each program year; Proposed source of Federal and Non-Federal funds; Identification of the recipient/sub recipient and state and local agencies responsible for carrying out the project; Identification of those projects which are identified as Transportation Control Measures in the State Implementation Plan; and Identification of those projects which will implement the Americans with Disabilities Act Complementary Paratransit Plan. Project descriptions shall be of sufficient detail to permit air quality analysis in accordance with Environmental Protection Agency conformity requirements. In addition, the total costs of projects seeking Federal funds in each program year shall be in line with anticipated Federal funds.
3. Prepare Draft FFY 2011 - 2014 Transportation Improvement Program for the Old Colony Region: The following tasks and procedures will be performed by the Old Colony Planning Council transportation planning staff in developing the Draft FFY 2011 - 2014 Transportation Improvement Program:

**OLD COLONY METROPOLITAN PLANNING ORGANIZATION
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ELEMENT 1000 - MANAGEMENT AND SUPPORT OF THE PLANNING PROCESS AND CERTIFICATION ACTIVITIES

TASK 1400 - TRANSPORTATION IMPROVEMENT PROGRAM (CONTINUED)

- Insure early involvement of local legislators, chief local elected officials, and citizens through the public participation process.
 - Provide technical assistance to municipalities and private interests in developing projects and priorities.
 - Meet with District 5 Projects Engineers, Executive Office of Transportation and Public Works, and consultants in developing project information, and utilizing transportation evaluation criteria regularly.
4. The draft Transportation Improvement Program will also include sections relative to:
- The relationship of the Transportation Improvement Program to the Regional Transportation Plan.
 - Funding categories and amounts of federal funding proposed to be obligated during each program year.
 - Previously funded projects, programs, and an explanation of any significant delays in the planned implementation of major projects.
 - A description of the transportation evaluation criteria and process for prioritizing projects.
 - Air quality significance and relationship of the Transportation Improvement Program to the State Implementation Plan.
 - A description of the progress in implementing required Transportation Control Measures, including reasons for any significant delays in the planned implementation and strategies for ensuring their advancement.
 - A list of all projects found to conform in a previous Transportation Improvement Program now part of the base case for the purposes of air quality conformity analyses.
 - A financial plan that compares revenue needs to revenue sources for highway and transit programs.
 - Identification of projects needed to implement the regional Americans with Disabilities Act Complementary Para-transit Plan.
 - Identification of projects for enhancement funding within both Federal Highway Administration and Federal Transit Administration programs.
5. Air Quality Conformity Determination: Staff will prepare all documentation, as appropriate, and necessary for an air quality conformity determination required by Environmental Protection Agency's recent regulations of "Criteria and Procedures for Determining Conformity to State and Federal Implementation Plans of Transportation Plans Programs, Projects Funded or Approved under Title 23 U.S.C. or the Federal Transit Act." This will include the following:
- Review of the past year's accomplishments with the Transportation Element of the State Implementation Plan.
 - A quantitative analysis of all major Transportation Improvement Program construction projects. Major air quality projects are defined as those that change vehicular speed or affect travel delay, as promulgated by the Transportation Task Force of the State Implementation Plan Steering Committee. This analysis will include projects that require an Environmental Impact Statement, Environmental Impact Report, or Finding of No Significant Impact, and will utilize a methodology endorsed by the Transportation Task Force of the State Implementation Plan Steering Committee. The analysis will be based on a network based transportation demand model, which will be used to compare the build alternatives to the no-build alternatives relative to air quality impacts, and to do the required emission budget test.
6. Public Participation: There will be a reasonable opportunity for public comment on the Draft FFY 2011 - 2014 Transportation Improvement Program in accordance with the Old Colony Public Participation Plan. Old Colony Planning Council will hold at least one public meeting during the Transportation Improvement Program development process and both the proposed and approved Transportation Improvement Program will be published or otherwise made readily available for informational purposes via various media outlets.

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ELEMENT 1000 - MANAGEMENT AND SUPPORT OF THE PLANNING PROCESS AND CERTIFICATION ACTIVITIES

TASK 1400 - TRANSPORTATION IMPROVEMENT PROGRAM (CONTINUED)

7. Transportation Improvement Program Approval: The completed document will be reviewed and endorsed by the Old Colony Metropolitan Planning Organization, and once endorsed, will serve as the required air quality conformity documentation necessary for DOT and Environmental Protection Agency conformity determinations.
8. Transportation Improvement Program Adjustments/Amendments: Amendments to the Transportation Improvement Program will require Old Colony Metropolitan Planning Organization endorsement. Adjustments to the Transportation Improvement Program typically require approval of the Joint Transportation Committee and notification of the Old Colony Metropolitan Planning Organization.

PRODUCT:

FFY 2011-2014 Transportation Improvement Program. Maintenance of the FFY 2010-2013 Transportation Improvement Program, conduct adjustments/amendments to the FFY 2010-2013 Transportation Improvement Program as needed.

SCHEDULE:

The FFY-2011-2014 Transportation Improvement Program will be developed and endorsed by September 2010.

FUNDING:

FHWA	EOT	FTA 5303	OCPC	BAT	OTHER	TOTAL
\$28,800	\$7,200	\$3,700	\$925			\$40,625

OLD COLONY METROPOLITAN PLANNING ORGANIZATION FFY 2010 UNIFIED PLANNING WORK PROGRAM

ELEMENT 1000 - MANAGEMENT AND SUPPORT OF THE PLANNING PROCESS AND CERTIFICATION ACTIVITIES

TASK 1500 - ENVIRONMENTAL JUSTICE

OBJECTIVE:

To ensure that there is equity in the distribution of transportation resources in the Old Colony region. This process is designed to ensure that key public and private minority agencies, organizations and interested citizens will be kept apprised of transportation planning milestones in the region. The encouragement of meaningful participation of local minority groups, organizations, and citizens in metropolitan transportation planning is one of the most important goals of the "3C" process (comprehensive, cooperative, and continuing).

PREVIOUS WORK:

Community Handbook, Team 2000 Workshop, Easton/Raynham Commuter Rail Study, Route 3 Task Force, South Weymouth Naval Air Station Task Force, Transportation Funding Guide, Transportation Resource Guide, Joint Transportation Committee Participation Improvement Program, Joint Transportation Committee Handbook, Joint Transportation Committee Quarterly Newsletters, Old Colony Planning Council Newsletters, News Releases and Articles for the Media, Old Colony Planning Council Annual Report, Website, Monthly Joint Transportation Committee meetings, Old Colony Public Participation Plan, Public Participation Program (1992-1997), Public Participation process (Old Colony 1993, 1994, 1997, 2000, 2003, and 2007 Regional Transportation Plan), Transportation Improvement Program, Transportation Improvement Program Implementation Process and Old Colony Public Participation Plan Update, and Environmental Justice Plan for the 2003 Regional Transportation Plan, Annual Old Colony Title VI Reports.

PROCEDURES:

1. To ensure that there is equity in the distribution of transportation resources and that persons/groups classified as minority and/or low income have adequate accessibility to employment, education, medical care and other important services, Old Colony Planning Council will continually refine the Environmental Justice Plan for the Old Colony Region. The working plan includes the following:
 - Regional maps using the 2000 Census illustrating where high concentrations of minority and low-income persons are located.
 - Regional maps using the 2000 Census identifying where highway Transportation Improvement Projects are located in relation to minority population and low-income areas.
 - Regional maps using the 2000 Census illustrating the existing transit routes, fatal crash locations, pavement conditions, safe routes to schools buffers, and future capital transit projects.
 - Examination of mobility issues using the 2000 Census, access to jobs and services, and levels of service for both transit services and automobiles.
 - Analysis and documentation using the 2000 Census of project benefits and impacts.
 - Efforts to address those that are limited English proficient.
2. Provide staff support and actively encourage both public and private minority groups/agencies participation in the 3C planning process through the Old Colony Joint Transportation Committee.

Product: Preparation of the Title VI / Environmental Justice Plan for the Old Colony Region, and refined 2007 Regional Transportation Plan. Maintain a mailing list of minority groups/organizations, develop maps identifying minority and low-income populations, develop transit route maps, and develop maps showing existing and future location of Transportation Improvement Program and Transportation Plan projects.

Schedule: To be carried out throughout the year and concurrent with TIP development cycle.

**OLD COLONY METROPOLITAN PLANNING ORGANIZATION
FFY 2010 UNIFIED PLANNING WORK PROGRAM**

ELEMENT 1000 - OTHER TRANSPORTATION TECHNICAL ACTIVITIES

TASK 1500 - ENVIRONMENTAL JUSTICE (CONTINUED)

FUNDING:

FHWA	EOT	FTA 5303	OCPC	BAT	Other	Total
\$12,000	\$3,000	\$1,500	\$375			\$16,875

**OLD COLONY METROPOLITAN PLANNING ORGANIZATION
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2000 - DATA COLLECTION AND ANALYSIS ACTIVITIES

A major requirement of planning is to know what is actually happening in the real world. Surveillance activities are designed to do just that by gathering data on transportation resources, their use, and demand for their use. This information is used to locate and define problems for further study and analysis, define requirements for plans and designs, develop programming priorities and evaluate the success of projects after implementation.

OLD COLONY METROPOLITAN PLANNING ORGANIZATION FFY 2010 UNIFIED PLANNING WORK PROGRAM

ELEMENT 2000 - DATA COLLECTION AND ANALYSIS ACTIVITIES

TASK 2100 - DEMOGRAPHIC SURVEILLANCE AND ROAD INVENTORY UPDATE

OBJECTIVE:

To continue to develop, update, and maintain current demographic information and data to ensure that transportation planning, programming analyses, and forecasting methods are based on the most current information. This includes analyzing social, economic, and land use data, including historic, current, and forecast information, and the development, update and revision of socioeconomic forecasts, and the update the road inventory for use in refinement of the regional transportation model and the Regional Transportation Plan.

PREVIOUS WORK:

Census Data Update Report. Collection and analysis of data previously performed for other Transportation Plan and Studies. Development of the workplace file as part of the Census Bureau/Metropolitan Planning Organization Cooperative Assistance Program. Previously collected population, employment, and land use, building permit, Journey to Work data, MISER, CTPP and Population/employment/household projection to year 2030. Annually update the Demographic Data book. Continue to maintain socioeconomic data for the Old Colony Planning Council Geographic Information System and Modeling efforts.

Yearly Road Inventory Updates; Functional Re-Classification, 1992; Annual Demographic Data Book; 2005 Journey to Work Report; US. Census Participant Statistical Areas Program (PSAP), Pavement and Congestion Management Systems and Processes.

PROCEDURES:

1. Review and continue to maintain, update, and develop where appropriate existing demographic files based on the 2000 U.S. Census information, as it becomes available.
 - Review, maintain and periodically update physical data and prepare data maps, including land use, zoning, and etc.
 - Develop, update, and revise socioeconomic forecasts for use in refinement of the regional model, the Geographic Information System, and the Regional Transportation Plan.
 - Develop traffic analysis zones for the Transportation Model with the most recent 2000 census data, as it becomes available.
 - Review, develop, and analyze the 2000 U.S. Census Data.
 - Prepare for 2010 U.S. Census.
 - Provide and respond to citizen requests for U.S. Census Data information.
 - Prepare and update the regional demographic data book, while incorporating the 2000 U.S. Census Data information.
 - Attend and participate in workshops and courses (US Census, CTPP, etc.) sponsored by Federal Highway Administration, Federal Transit Administration, MassHighway, Executive Office of Transportation and Public Works, Baystate Roads, and other agencies or groups.
2. Socio-Economic forecasting
 - Develop, update, and revise socioeconomic forecasts for use in refinement of the regional travel demand model.
 - Obtain the necessary information to revise the population and employment projections based on the 2000 U.S. Census.
 - Develop Build Out Analysis as an update to the 1999 EOEEA Build Out Analysis Project.
 - Prepare Priority Development Areas and Priority Preservation Areas.

**OLD COLONY METROPOLITAN PLANNING ORGANIZATION
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ELEMENT 2000 - DATA COLLECTION AND ANALYSIS ACTIVITIES

TASK 2100 - DEMOGRAPHIC SURVEILLANCE AND ROAD INVENTORY UPDATE (CONTINUED)

3. Continue to collect and update the Executive Office of Transportation and Public Work's Road Inventory File that has not been updated:
 - Assist Old Colony Planning Council's communities with the documentation needed in order to add newly constructed accepted streets or to change an existing street from unaccepted to an accepted roadway.
 - Meet with local officials to discuss the Road Inventory Data Files and the changes identified during the Pavement Management survey process.
 - Continue to maintain the Road Inventory on the Geographic Information System System.
 - Investigate the feasibility of using a Global Positioning System to plot and update the Road inventory files with new roads created from new subdivision development. Additionally, Old Colony Planning Council will also use the Global Positioning System to plot both existing pedestrian and bicycling trails within the region.

PRODUCT:

Updated Socio-Economic Data Files; Updated Physical Data Files; Semi-Annual Demographic Data Book; 1990-2000 Journey-to-Work data tables; Journey-to-Work Reports; assist with the 2000 U.S. Census; Build Out Analysis; Priority Development Areas and Priority Preservation Areas Product; and, provide technical assistance and maintain and update Road Inventory Files.

SCHEDULE:

To be carried out throughout the year. Build out analysis to be completed by October 2008.

FUNDING:

FHWA	EOT	FTA 5303	OCPC	BAT	OTHER	TOTAL
\$28,000	\$7,000	\$3,500	\$875			\$39,375

OLD COLONY METROPOLITAN PLANNING ORGANIZATION

FFY 2010 UNIFIED PLANNING WORK PROGRAM

ELEMENT 2000 - DATA COLLECTION AND ANALYSIS ACTIVITIES

TASK 2200 - HIGHWAY DATA SURVEILLANCE

OBJECTIVE:

To develop and maintain a region-wide traffic-counting program (includes OCPC Program and MassHighway Program). Respond to requests for traffic counts from state, city, and town officials within the region. Preserve up-to-date files of traffic-specific data characteristics of the highway system, its demand, and its use.

PREVIOUS WORK:

Annual Old Colony Planning Council Traffic Volume Report 1965-2008, and 2002-2003 Speed and Classification Reports. Maintain a comprehensive computer file inventory of local, state and other traffic counts. Auto Occupancy and Classification Reports. Turning movement counts. Travel Time Studies and Isochronal Mapping. Collection and analysis of data previously performed for other Transportation Plans and Studies. Numerous speed and vehicle classification studies requested by member communities. Review of studies and reports prepared by agencies and consultants. Conducted numerous truck studies for member communities. Routine MassHighway/ Regional Planning Agency Traffic Count Program. In addition, a three-year count program of important road/locations within the region has been developed to provide information for the regional growth factors, model inputs, etc.

PROCEDURES:

1. Undertake a traffic counting program in coordination with municipal and MassHighway officials including:
 - Conduct special 48-hour traffic counts using mechanical recorders and conduct manual turning movement counts at the request of the municipalities within the region, and/or as needed for planning purposes.
 - Conduct 48-hour directional traffic counts at approximately 25 locations within the Old Colony Planning Council region as part of MassHighway's Statewide Traffic Coverage Counts.
 - Conduct bicycle and pedestrian counts, as appropriate.
 - Verify and calibrate traffic counters according to MassHighway Procedures.
 - Prepare and report primary data collected to host municipalities and MassHighway.
 - Maintain and continue to expand on an ongoing region wide traffic count database for use in monitoring regional VMT growth rate.
 - Provide general maintenance, payments, and replacements of all traffic counters, vehicles, insurances, and traffic counting related equipment, as needed.
 - Purchase replacement equipment and supplies as needed to continue the count program.
 - Maintain a database library of traffic counts (over 5,000) to be made available to the public.
 - Maintain database link of regional counts to Geographic Information System.
 - Prepare and distribute reports summarizing the traffic counting activities for each community in the region (includes distribution to MassHighway).
2. Conduct additional counts throughout the region as needed in order to refine and update the traffic database for the Regional Transportation Model.
3. Undertake travel time and vehicle occupancy study in the Old Colony Planning Council region as needed for the Regional Transportation Model, the Regional Transportation Plan and/or other planning activities.
4. Review, monitor and update the following highway systems data as needed including:
 - Average Daily Traffic growth trends and seasonal adjustments.
 - Commuter Rail and park and ride facilities (inventory) and utilization study.
 - Traffic crash and crash rate documentation.
 - Traffic control devices.
 - 2000 U.S. Census Place of Work and Residence Data.

**OLD COLONY METROPOLITAN PLANNING ORGANIZATION
FFY 2010 UNIFIED PLANNING WORK PROGRAM**

ELEMENT 2000 - DATA COLLECTION AND ANALYSIS ACTIVITIES

TASK 2200 - HIGHWAY DATA SURVEILLANCE (CONTINUED)

PRODUCT:

Traffic Counting Program, Highway Data Displays, speed and classification reports, Turning movement count database, Vehicle Occupancy and Travel Time Reports as needed and updated computer files of traffic counts on a town/roadway basis and a data layer of regional counts with Geographic Information System and Commuter Rail and MassHighway Park and Ride Utilization Report, and, the Replacement, Maintenance, Purchase of traffic counters, vehicles, insurances policies. Other products include Annual Traffic Volumes Report, traffic count GIS point Layer, turning movement count point layer, and traffic volume growth/ decline rates.

SCHEDULE:

To be carried out typically from January to December (weather permitting). Year End Traffic Volume Report to be completed during spring 2010.

FUNDING:

FHWA	EOT	FTA 5303	OCPC	BAT	OTHER	TOTAL
\$39,200	\$9,800					\$49,000

**OLD COLONY METROPOLITAN PLANNING ORGANIZATION
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ELEMENT 2000 - DATA COLLECTION AND ANALYSIS ACTIVITIES

TASK 2300 - SYSTEM PLANNING AND RESOURCE ACTIVITIES

OBJECTIVE:

To continually improve the region's capability for estimating and evaluating impacts of existing and proposed regional transportation facilities and to provide support for the day to day operation of the OCPC Transportation Department's computer system and to expand the utility of the computers to other areas of transportation planning. Additionally, to provide for staff development and training and their related participation in educational development programs, seminars, conferences and courses.

PREVIOUS WORK:

Intersection Level-of-Service Analysis program; Brockton Area Transit Ridership Reporting programs; Brockton Area Transit Ridership Survey processing programs; and, Crash Reporting System. Staff participation in courses, seminars, and workshops (on-going project). Use of QRSII, TRIPS, TransCAD, Geographic Information System, HCS, CINCH, Pavement Management, McTrans Highway Capacity Software, SYNCHRO, Pictometry, and other transportation analysis software package. Purchase, installation, and upgrade of computer systems as needed.

PROCEDURES:

1. Attendance and participation in transportation courses, seminars and workshops sponsored by MassHighway, Executive Office of Transportation and Public Works, Federal Highway Administration, Federal Transit Administration, Brockton Area Transit, Executive Office of Energy and Environmental Affairs, Greater Attleboro-Taunton Transit Authority, DEP, Environmental Protection Agency, and others. This will assist staff in development, maintenance, and application, sketch planning, quick response and other forecasting methods. This will also encompass all activities that are directed to the production of new computer procedures that support Old Colony Planning Council analytical, administrative and documentation tasks.

2. Computer hardware and software acquisition, maintenance and updates.
 - Purchase, update/upgrade, and maintain of all hardware equipment/supplies and software applications that is needed for the Transportation Section's computer facilities.
 - Integrate computer capabilities into all practical aspects of the transportation planning process. This effort entails the acquisition, testing, and refinement of additional hardware and transportation related software from US DOT supported research and other public agencies as well as private companies.
 - Provide necessary support for the effective operation of the Old Colony Planning Council Transportation staff's computer facilities.
 - Monitor technological development in the field of computer hardware and software for potential use in planning activities. Continue ongoing planning, evaluation, and implementation of computer software and hardware.
 - Familiarize the Transportation Staff with the computer facilities and applications through informal and formal training sessions.
 - Continue to maintain and update the library of programs and data files.

PRODUCT:

Staff development of enhanced technical capabilities. Attend courses/workshops etc., maintain, and update computer hardware and software, and knowledge bases, as needed. Application of new forecasting techniques and transportation analysis techniques.

SCHEDULE:

To be carried out throughout the year.

FUNDING:

FHWA	EOT	FTA 5303	OCPC	BAT	OTHER	TOTAL
\$23,200	\$5,800	\$2,900	\$725			\$32,625

OLD COLONY METROPOLITAN PLANNING ORGANIZATION

FFY 2010 UNIFIED PLANNING WORK PROGRAM

ELEMENT 2000 - DATA COLLECTION AND ANALYSIS ACTIVITIES

TASK 2400 - GEOGRAPHIC INFORMATION SYSTEM

OBJECTIVE:

To continue to improve, develop, and utilize the computerized Geographic Information System, Global Positioning Software, and Pictometry for various tasks within the Unified Planning Work Program. The Geographic Information System allows Old Colony Planning Council to store, display, manage, and analyze data for different work tasks. This includes land uses projection for the Regional Transportation Plan; road inventory files; travel demand modeling; traffic volume; high crash location; roadway functional classification; transit route analysis; and pavement management analysis. This task will also provide general Geographic Information System and Pictometry assistance on studies conducted as part of this Unified Planning Work Program.

PREVIOUS WORK:

Land Use (MassGIS), Roadway Classification, Traffic Counting Program; Pavement and Congestion Management Program, Travel Demand Model for Old Colony Planning Council region; purchase of Geographic Information System; Road Inventory update; technical assistance program for member communities; regional crash database; regional land use map; regional growth map; build-out analysis; Geographic Information System Need Assessment Workshop; ESRI Trimble Project; Parcel Maps; Pictometry Installation and Technical Assistance; Priority Development Areas and Priority Preservations Areas; Executive Office of Energy and Environmental Affairs build-outs; and, Executive Office of Energy and Environmental Affairs 418s.

PROCEDURES:

1. Train and enhance staff and system abilities and develop database.
2. Continue linkage of databases, i.e. Road Inventory File, etc., with existing and new data-layers.
3. Integration of existing databases such as crash, roads inventory, and travel demands into Geographic Information System as appropriate.
4. Develop and maintain region wide Geographic Information System databases.
5. Utilize Geographic Information System and Global Positioning System capabilities in maintaining traffic data, mapping pavement condition information, mapping existing and projected land use data for use in various transportation projects such as the revisions to the long range plan and special studies, road inventory; roadway functional classification; crash location analysis; travel demand model; and transit routes; etc.
6. Enter relevant demographic, economic, environmental, stormwater, drainage, and traffic data into the Old Colony Planning Council's Geographic Information System as needed to provide increased abilities for organization, analysis and retrieval. Establish new database and map overlays on a continual basis as projects develop.
7. Continue the expansion of Geographic Information System and Global Positioning System from a mapping tool to an analytical tool through various project needs.
8. Develop and/or adapt, as appropriate, computer programs for various transportation-planning applications relevant to the needs of Old Colony Planning Council region.
9. Collect, maintain, and analyze data on an ongoing and continuing basis.
10. Generate information to be used as input to numerous studies and tasks including management systems, Regional Transportation Plan, Travel Demand Model, and/or any other major transportation studies. This information will be provided to MassHighway and member communities as needed.
11. Develop Build Out Analysis as an update to the 1999 EOEEA Build Out Analysis Project.
12. Prepare Priority Development Areas and Priority Preservation Areas.
13. Support Unified Planning Work Program tasks and special reports where appropriate and necessary.
14. Review, select, and purchase additional software and hardware as needed.
15. Provide Geographic Information System, Global Positioning System, and Pictometry technical assistance to regional communities.

**OLD COLONY METROPOLITAN PLANNING ORGANIZATION
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ELEMENT 2000 - DATA COLLECTION AND ANALYSIS ACTIVITIES

TASK 2400 - GEOGRAPHIC INFORMATION SYSTEM (CONTINUED)

PRODUCT:

Base maps, Build Out Analysis, overlay files, and photography that can be utilized for numerous tasks including travel demand modeling, traffic counting program, management systems, roadway functional classification, road inventory, Priority Development Areas and Priority Preservation Areas, crash data processing and locating, transit routing, plan updates, and environmentally sensitive areas, etc.

SCHEDULE:

To be carried out throughout the year.

FUNDING:

FHWA	EOT	FTA 5303	OCPC	BAT	OTHER	TOTAL
\$40,000	\$10,000	\$5,000	\$1,250			\$56,250

OLD COLONY METROPOLITAN PLANNING ORGANIZATION

FFY 2010 UNIFIED PLANNING WORK PROGRAM

ELEMENT 2000 - DATA COLLECTION AND ANALYSIS ACTIVITIES

TASK 2500 - MODELING AND FORECASTING

OBJECTIVES:

To continue to develop staff capabilities in using the TransCAD Modeling System and provide assistance in the development of the Statewide Model. To continue refinement, calibration, development, maintenance and application of the Old Colony Planning Council Regional Travel Demand Model used in the development of the Regional Transportation Plan. To continue refining and calibrating the transportation demand model to meet the forecasting requirements of federal transportation and air quality laws and regulations.

The regional transportation model is an effective and comprehensive way to forecast transportation needs for the next 20 years in the Old Colony Planning Council region. The transportation model enables Old Colony Planning Council to forecast traffic impacts caused by population and economic growth, identify congestion growth areas on highways, impacts on travel patterns and estimate Vehicle Miles Traveled. The model is a valuable transportation tool in analyzing the transportation network and evaluating alternative solution to transportation problems.

Old Colony Planning Council will utilize the model in testing of the transportation alternatives as part of the refinement of the Regional Transportation Plan and traffic studies as appropriate. The model will also be used to assist in identifying future problem areas and in the development of strategies for the ongoing Congestion Management Process. Old Colony Planning Council will utilize the model in testing of the transit alternatives as part of the refinement of the Regional Transportation Plan and transit studies as appropriate.

Old Colony Planning Council will continue to work with MassHighway and the Executive Office of Transportation and Public Works in developing the statewide travel demand model as needed.

PREVIOUS WORK:

The Regional Transportation Model was used as an analytical tool in the development of the 1993, 1994, 1997, 2000, 2003, and 2007 Regional Transportation Plans. Old Colony Planning Council completed a regional traffic simulation model that encompasses every community in the region. During the past year staff has worked on refining the model to address specific deficiency detailed in the Plan. The following are some of the past refinements completed on the model.

- Reduced the size of the centroids from town/census tract down to block group size.
- Expanded the number of traffic zones, in the region, from 167 to 346.
- Updated the model to include all the functional classified roads (except local roads).
- Updated the socio-economic data for the traffic analysis zones in the base year network model.
- Developed, updated, and refined the housing and employment projections for the planning horizon years of 1997, 1999, 2003, 2007, 2010, 2020, and 2025.
- Updated and refined external trip tables.
- Calibrated the regional model.
- Converted TRIPS Network to TransCAD.
- Developed a network model for the Downtown Brockton Circulation Study.
- Developed a network model for the Kingston, Plymouth, and Plympton Study.

The model was used to identify and verify congested corridors/areas in the region for the Congestion Management System. Additionally, the 1990, 1996, 1997, 1999, 2003, 2010, 2020, and 2025 Transportation Improvement Program Analysis was conducted for air quality emission analysis. Staff completed the Air Quality Technical Addendum for the 1997, 1998, 1999, and 2000 Regional Transportation Plan.

**OLD COLONY METROPOLITAN PLANNING ORGANIZATION
FFY 2010 UNIFIED PLANNING WORK PROGRAM**

ELEMENT 2000 - DATA COLLECTION AND ANALYSIS ACTIVITIES

TASK 2500 - MODELING AND FORECASTING (CONTINUED)

PROCEDURES:

1. During the program year, the products developed from the model, i.e. the existing and future year scenarios used for network analysis of air quality and travel demand will be reviewed, evaluated, and utilized as part of any changes/updates to the 2011 Regional Transportation Plan and the Transportation Improvement Program.
2. Continue to refine and update the Old Colony Planning Council model to include the block group demographic data from US Census 2000; contract with consultant as needed; this information will be used to calibrate the model (this may include utilizing consultants under contract).
3. Continue to collect/compile and update traffic count data and adjust as necessary to refine the accuracy of the model.
4. Develop external zones from external stations on the fringe areas of the region to improve the calibration of the existing conditions.
5. Utilize the refined and calibrated model for analyzing alternatives in the development and refinement of the Regional Transportation Plan and other transportation or corridor studies (this may include utilizing consultants under contract).
6. Analyze forecast information to identify deficiencies as required for the Regional Transportation Plan and Air Quality Conformity. Evaluate improvement strategies. Incorporate findings in the Regional Transportation Plan as appropriate.
7. Assist Executive Office of Transportation and Public Works in the preparation of statewide modeling efforts as needed. Integrate the 2000 Census block group data and Executive Office of Transportation and Public Works Road Inventories Files into TransCAD model for use with the statewide travel demand model.
8. Maintain and update (as needed) the network model developed for the Downtown Brockton area to evaluate the one-way system.
9. Continue work on developing the transit network model.
10. Generate various outputs based upon the needs of Old Colony Planning Council, local officials and MassHighway.
11. Survey of Existing Services: Collect data on existing services provided by the MBTA, Brockton Area Transit, and Greater Attleboro-Taunton Transit Authority. This data collection will include route and service information provided by the respective transit providers.
12. Survey of Existing Needs: Collect data on need for transit services across region. Data will be collected using a variety of techniques such as ridership surveys origin/destination, license plate surveys, and mode split analysis.

PRODUCT:

A completed refined/recalibrated transportation model for the Old Colony region that can be expanded upon as needed, utilized for travel demand estimation, and forecasting. Updated network models for the Old Colony region, participation in MetroFuture Task Force, Refinement to Traffic Analysis Zones for 2007, 2010, 2020, and 2030, and 2023.

SCHEDULE:

To be carried out throughout the program year.

FUNDING:

FHWA	EOT	FTA 5303	OCPC	BAT	OTHER	TOTAL
\$28,000	\$7,000	\$4,200	\$1,050			\$40,250

**OLD COLONY METROPOLITAN PLANNING ORGANIZATION
FFY 2010 UNIFIED PLANNING WORK PROGRAM**

ELEMENT 2000 - SHORT AND LONG RANGE TRANSPORTATION PLANNING ACTIVITIES

TASK 2600 - MANAGEMENT SYSTEMS (CONGESTION, LAND USE, PAVEMENT, AND SAFETY)

OBJECTIVE:

Congestion Management Process

To continue to implement a Congestion Management Process. Considered an ongoing effort, Old Colony Planning Council will continue to be responsible for providing the modeling and field survey staff, collecting and maintaining all data needed in the estimation of refined performance measures and identifying both existing and future needs of the region's transportation system. Subsequently, ranked regional listing of congested highways, transit and park and ride facilities that have been established will continue to be refined. As part of this System, regional congestion will be addressed at locations identified in the 2011 Regional Transportation Plan.

Pavement Management System

During the past several years, the Old Colony Planning Council has been working to update Pavement Management System. Old Colony Planning Council will continue to collect and analyze road surface data on all Surface Transportation Program roadways. Old Colony Planning Council will also continue to assist and provide technical assistance to local communities interested in developing a local Pavement Management Program. Under the FFY 2010 Unified Planning Work Program, Old Colony Planning Council will continue to maintain the Old Colony Planning Council Pavement Management Program and provide technical assistance to local communities interested in developing a local Pavement Management Program.

Land Use Management System

To monitor the changes in local government land use plans and regulations, land use patterns, development projects, on and off site mitigation, and the various associated characteristics of the regions in order to update the land use and zonal forecasts, and use as inputs into the congestion management process and mitigation activities.

Safety Management System

To continue to develop and implement a safety management system. This consists of a systematic process that has the goal of reducing the number of and severity of traffic crashes on the public roads. Recommended actions include providing information for selecting and implementing effective safety strategies and projects. All opportunities to improve roadway safety are identified, considered, and implemented in all phases of highway planning, design, construction, maintenance, and operation. The safety management system incorporates roadway, human, and vehicle safety elements. Considered an ongoing effort, Old Colony Planning Council will be responsible for providing the field survey staff to collect and maintain all data needed in the estimation of refined performance measures. Staff will identify both existing and future needs of the region's transportation system with regard to safety. Subsequently, this includes development of annual regional listings of high hazard intersections and corridors, and participation in the Highway Safety Improvement Program.

PREVIOUS WORK:

Congestion Management Process

Preparation of the Year End 2008 Congestion Management Process Annual Report. Monitoring and analysis of the parking, transit and roadway facilities. Link V/C Ratios as part of the regional traffic-counting program. Participation on the Congestion Management Technical Team, development of strategies, and corridor studies. During previous years, the staff defined a focused roadway network for the region. Data collection, consisting of numerous travel time runs was completed on roads identified as having existing congestion. In addition, ridership data were analyzed on Brockton Area Transit's routes. Staff also identified and analyzed all the formal park and ride lots and commuter rail lots in the region. Staff developed the 1997 Congestion Management Report, and identified three areas of regional congestion in the 2007 Regional Transportation Plan. Staff implemented the Congestion Management Process, and completed an Old Colony Commuter Rail Boarding and Alighting Study.

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ELEMENT 2000 - SHORT AND LONG RANGE TRANSPORTATION PLANNING ACTIVITIES

**TASK 2600 - MANAGEMENT SYSTEMS ((CONGESTION, LAND USE, PAVEMENT, AND SAFETY)
CONTINUED)**

Pavement Management System

Pavement Management System (from 1990s to 2009) on both the National Highway System roadways miles and the Surface Transportation Program roadways miles in the region (approximately 533 miles); Preparation of the Year End 2008 Pavement Management System Annual Report; Old Colony Planning Council Report On Roadway Condition; Statewide Pavement Management Report; Kingston Pavement Management Program; Road Inventory Update; Technical assistance to local communities interested in Pavement Management Program; and Pavement Management User Group participation, PCI development for incorporation in transportation evaluation criteria.

Land Use Management System

Preparation of GIS mapping of top employers, residential densities, employment densities; zonal forecasts for regional transportation plans; journey to work-studies; Preparation of the Year End 2008 Land Use Management Systems Annual Report; MEPA Analyses, and, origin-destination surveys.

Safety Management System

Participation in MassHighway's Lead State Initiative to reduce run-off-road crashes; Participation in development of Highway Safety Improvement Program; Safety analyses as part of Transportation Evaluation Criteria application; Crash Rate processing; Crash data processing for the towns of Avon and Whitman; Old Colony Planning Council Top 100 High Hazard Intersections; 2001 Regional Intersection Safety Study; Plymouth Gunners Road Exchange Study; Plymouth Samoset, Oak and Allerton Study; Plympton West Street Study; Cedarville Traffic Study; Algonquin Terrace Intersection Study in Plymouth; Regional Crashes Summary 1994-2007; Preparation of the Year End 2008 Safety Management Systems Annual Report, and Communities Warranting Specific Attention to Highway Safety, Brockton Main Street Road Safety Audit, Easton Route 138 at Elm Street RSA, Easton Route 138 at Union Street RSA, Easton Route 106 at Prospect Street RSA.

PROCEDURES:

Congestion Management Process

1. Continue to work with the Congestion Management Process to identify and coordinate various work tasks and to ensure consistency with requirements of Transportation Management Areas. Staff will continue to attend meetings and training as appropriate since they serve as a forum for the dissemination of data produced by the system and allow personnel from other RPAs to meet and share information on data collection, data sources, etc.
2. Continue to refine the region's established Congestion Management Process network by utilizing the region-wide traffic simulation model to identify any additional facilities on which congestion exists or is predicted.
3. Continue to measure identified congestion on Congestion Management Process corridors/roadways through a data collection effort, which includes, but is not limited to the following:
 - Conduct travel time, delay runs in each identified corridor, and collect traffic counts and turning movement count data where necessary.
 - Monitor, survey, and analyze usage at commuter parking lots throughout the region. Develop and monitor mobility and accessibility enhancement measures for the commuter parking lots within the region.
 - Extend and recalibrate the regional model for peak periods and travel time delay. Incorporate turning movement counts and phase specific signal timing information into the model.
 - Continue ongoing collection and analysis of fixed-route transit data. Also included in this process will be to conduct origin/ destination surveys of current transit ridership and the development and utilization of condition measures and load factors.
 - Continue to identify, evaluate, and select strategies that address congestion, and provide administrative and technical support during the implementation of congestion management strategies.

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**TASK 2600 - MANAGEMENT SYSTEMS ((CONGESTION, LAND USE, PAVEMENT, AND SAFETY)
CONTINUED)**

- Provide inputs to statewide and regional plans and transportation evaluation criteria for Transportation Improvement Programs.
- 4. Continue to develop and refine congestion control strategies. Develop both general and corridor specific recommendations for relieving congestion on selected corridors.
- 5. Continue to evaluate performance measures that provide relevant and up-to-date information on the congestion status of transportation facilities.
- 6. Continue ongoing assessment of the effectiveness of implemented strategies on alleviating congestion.
- 7. Continue ongoing monitoring and analyses that identify the underlying causes of congestion.
- 8. Provide analyses that consider non-traditional congestion management strategies (Transportation Demand Management, growth management, congestion pricing, traffic operational improvements, public transportation, and Intelligent Transportation System) to reduce transportation system congestion.
- 9. Provide in depth study of regional congestion at priority locations.

Land Use Management System

1. Continue an extensive land use review and future land use updated. This will include a review with each jurisdiction regarding their existing and future land use projects. Work shall include developing an accurate depiction of existing land use and provide the capability for tracking land use changes.
2. Continue to review and comment on proposed and ongoing development projects, that includes, but is not limited to those undergoing the MEPA process.
3. Continue to develop and refine land use database and GIS mapping. Provide reports to committees such as the Joint Transportation Committee and Metropolitan Planning Organization.
4. Continue to develop and concepts for concurrency management programs and development/ infrastructure management tools.
5. Investigate the representation of land use in a simulation models such as UrbanSim.

Pavement Management System

1. Continue to use the Road Manager software, and/or other software to maintain and update the Old Colony Planning Council Pavement Management Program as needed.
2. Develop factors based on the deterioration curve to adjust the Pavement Condition Index for roads that were not surveyed or improved in the last several years.
3. Provide technical assistance to member communities interested in the Pavement Management Program.
 - Initiate, coordinate, and develop pavement management programs for local communities.
 - The communities would be responsible for all data collection.
 - Local officials must commit to participate in the program on an on-going basis.
4. Meet with MassHighway, RPAs, and PMUG to coordinate regional and statewide efforts and to compare programs and strategies for improvement of data collection, analysis, and assistance to local communities.
5. Pavement Management Procedures:
 - Train and monitor town highway personnel in conducting the survey.
 - In-put data into pavement management program used by Old Colony Planning Council (Road Manager).
 - Use Old Colony Planning Council's computer capabilities to provide analysis and reports to municipalities participating in the program.
 - Provide follow-up technical assistance, as needed.
 - Train municipal staff in use of pavement management software so that data base and management program may be maintained and continued following completion of Old Colony Planning Council work efforts

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**TASK 2600 - MANAGEMENT SYSTEMS ((CONGESTION, LAND USE, PAVEMENT, AND SAFETY)
CONTINUED)**

Safety Management System

1. Develop and work with the Safety Management System to identify and coordinate various work tasks, and prepare and participate in Road Safety Audits. Staff will continue to attend meetings (such as SHSP and TRCC, etc.), and training as appropriate since they serve as a forum for the dissemination of data produced by the system and allow personnel from other RPAs to meet and share information on data collection, data sources, etc.
2. Review local and state crash data for intersections and corridors. In addition, Old Colony Planning Council will provide crash data processing, upon request, to assist local police departments in the identification of high locations. Calculation of crash rate (crashes per million entering vehicles and crashes per hundred million miles) and comparison to both State and District Averages will be conducted. For corridors, the crashes per lane mile and fatality per lane mile will be used.
3. Develop both site specific and generalized recommendations in order to address safety deficiencies. This will include recommendations regarding geometric, speed reductions, traffic calming techniques, vegetation clearing, signage consolidation, pavement markings, pedestrian ramps and crossings, roundabouts and signalizations, as appropriate. To supplement the recommendations development, staff will utilize the Manual on Uniform Traffic Control Devices, the MassHighway Highway Design Manual, and the Governor's Highway Safety Bureau.
4. Incorporate safety criteria in the transportation evaluation process used in the development of the Transportation Improvement Program. Project specific recommendations will be discussed with local, regional and state officials as appropriate, in order to address safety issues and concerns.
 - Provide administrative and technical support during the implementation of safety management strategies.
 - Continue ongoing Public Participation Program.
 - Provide safety inputs to statewide and regional plans and Transportation Improvement Programs.
5. Continue to develop and refine safety strategies. Develop both general and corridor specific recommendations for addressing safety on selected corridors.
6. Develop a system of performance measures document results of implemented safety measures. Such measures may include percent reduction in crash rate, percent reduction in the number of injury crashes, and percent reduction in crashes involving fatalities. Improve methods for compiling and retrieving crash data through utilization of Geographic Information System and through the improvement of information sharing with local, state, and federal partners.
7. Staff will continue to measure identified safety at high hazard locations through a data collection effort, which includes, but is not limited to the following:
 - Conducting turning movement counts, vehicle volume studies, vehicle speed studies, vehicle classification studies and pedestrian studies.
 - Continue to identify, evaluate, and select strategies that address safety.
 - Update status of performance measures at locations where safety improvement have been implemented.

PRODUCT:

Congestion Management Process

Annual CMP Report will be prepared. Data collection, intersection data survey, roadway refinement, proposal strategies, progress report preparation, and congestion management team support. In-depth study of regional congestion at priority locations.

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Consistency with CMP requirement of Transportation Management Areas. Transportation Evaluation Criteria inputs.

Land Use Management System

Annual LUMS Report will be prepared. Updated Land use database and related mapping, and zoning and land use recommendations. Ongoing review and comment on proposed and ongoing development projects, that include, but are not limited to those undergoing the MEPA process. Development of concepts for concurrency management programs and development/ infrastructure management tools.

Pavement Management System

Annual PMS Report will be prepared. Continue data collection and data analysis for Surface Transportation Program and National Highway System roadways in the region and use of said data in evaluation of projects to be programmed in the Transportation Improvement Program; Database refinement and information for incorporation into the Old Colony Planning Council's Geographic Information System; and technical assistance to local communities interested in developing a Local Pavement Management Program. Transportation Evaluation Criteria inputs.

Safety Management System

Annual SMS Report will be prepared. Road Safety Audits. Top 100 High Hazard Intersections in Old Colony Region. Identification of data collection, intersection data survey, roadway refinement, proposal strategies, and progress report preparation. Development of specific-safety recommendations for intersections, corridors, and pedestrian crossings. Inclusion of safety analyses as a component of the Transportation Evaluation Criteria in the development of the Transportation Improvement Program. Identification of safety specific projects for the Old Colony Region.

SCHEDULE:

Management systems and processes to be carried out throughout the year. Annual Reports, Road Safety Audits, and analyses to be completed by October 2010.

FUNDING:

FHWA	EOT	FTA 5303	OCPC	BAT	OTHER	TOTAL
\$39,200	\$9,800					\$49,000

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This work element sets the direction for major transportation development activities in the region. As such it is concerned with continuously updating projects dealing with the demand for transportation; development of a transportation plan which encompasses a Long Range Element and a Short-Range Element, both incorporating the concept of Transportation Systems Management; a further detailing of the broad findings and recommendations of the Plan in plan refinement; and special purpose plans addressing such items as air quality, energy and the elderly and handicapped.

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ELEMENT 3000 - SHORT AND LONG RANGE TRANSPORTATION PLANNING ACTIVITIES

TASK 3100 - REGIONAL TRAFFIC STUDIES, ITS, AND, INTERMODAL PLANNING

OBJECTIVE:

To provide planning services for highway and transit projects in the region designed to address immediate traffic and safety problems. The Regional Transportation Plan identifies deficiencies in the region's transportation network. The deficiencies are shown in the plan including deficient bridges, dangerous intersections, congested highway corridors, and overcrowded transit facilities. Where specific projects have not been developed to correct these deficiencies, studies will have to be undertaken to evaluate each problem in detail and to recommend the appropriate solution.

Under this task, Old Colony Planning Council will conduct traffic studies to assist member communities in developing the appropriate solutions for any identified local transportation deficiencies. Old Colony Planning Council also anticipates undertaking traffic studies at selected intersections and along selected roadways corridors identified in the Old Colony Regional Transportation Plan or as part of the Congestion Management System, as warranting further study. Continually, Old Colony Planning Council receives several requests from communities to conduct traffic studies. For example, in the past, the town of Whitman requested that Old Colony Planning Council conduct a traffic study on Route 18 and the Whitman Town Center; Abington requested a circulation study in the center; and the town of Stoughton requested a circulation study in Stoughton center.

PREVIOUS WORK:

Route 27 Traffic Study; Sub-area Traffic Study; Route 138 Traffic Study; Stoughton Square By-Pass Study; Bridgewater Center Circulation Study; Route 106 Traffic Study; Route 28 Corridor Study; East Bridgewater Square Circulation Study; Route 3A Corridor Study; Intermodal Connector Analyses; Route 123 Traffic Study; Whitman Circulation Study; Lead State Initiative; and MassHighway Park-and-Ride and MBTA Commuter Rail Study; Easton State Numbered Route Study; Bourne Road Corridor Study; and High Hazard Intersection Study; Intelligent Transportation System Plan Preliminary work for preparation of Project proposal - 1996; Intelligent Transportation System Request for Proposals - 1997; Intelligent Transportation System Consultant Selection Committee - 1997; 2002-2005 participation in development Regional Intelligent Transportation System Architecture for the Metro Boston Area and Southeastern Massachusetts Area; 2007 Old Colony Intelligent Transportation System Plan.

PROCEDURES:

1. The following is a list of potential projects, among others, that could be undertaken as part of this task but not limited to:
 - Route 14 Corridor Study
 - Route 123 Corridor Study
 - Regional Intersection Study
 - Stoughton Square Circulation Study
 - Sub-area Traffic Study
 - Various corridor-wide traffic studies
 - City/town center circulation studies
 - Follow-up studies to the Congestion, Pavement, and Safety Management Systems
 - Crash and Safety Studies
 - Intersection Sub-area Studies
 - Intermodal Connector Analysis (Intermodal interfaces examined for identification of necessary improvements)
 - Regional ITS Architecture Plan
 - Regional Casino Impact Study
 - Before and After Route 44 Study
2. Work under this task will include undertaking transportation studies at locations and developing specific reports as products for intermodal connectors as requested by local communities, FHWA, and/or MassHighway. Old Colony Planning Council will work with community

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TASK 3100 - REGIONAL TRAFFIC STUDIES, ITS, AND, INTERMODAL PLANNING (CONTINUED)

officials, Executive Office of Transportation and Public Works and MassHighway District 5, and stakeholders to develop a scope of service for the proposed study. FHWA is interested in the examination of intermodal connectors and the identification of necessary improvements.

3. For each project, staff will prepare a draft report, which outlines the Study's findings and recommendations. This report will be circulated to local officials as well as Executive Office of Transportation and Public Works and MassHighway District 5 for review and comment. These comments will be incorporated into a final report. The findings and recommendations contained in the final report will serve as the basis for including projects in the region's Transportation Improvement Program and Transportation Plan.

4. For ITS, activities to include: Promote the implementation of Intelligent Transportation System solution to regional transportation problems; Work with MassHighway, Southeastern Massachusetts Planning & Economic Development District, Brockton Area Transit, MBTA, and Cape Cod on implementing and refining Intelligent Transportation System Architectures for Southeastern Massachusetts and the Metro Boston Area; Complete Old Colony Intelligent Transportation System Plan; Compile available information, studies, and reports on Intelligent Transportation System strategies for the Old Colony Planning Council Region.

PRODUCT:

Intermodal Connector Analyses and Recommendations Report; Studies to identify solutions to traffic congestion and safety deficiencies on roadways within the region; Regional ITS Architecture Plan; Participation in refinements to Regional Intelligent Transportation System Architecture for the Metro Boston Area and development of Southeastern Massachusetts Area Regional Intelligent Transportation System Architecture.

SCHEDULE:

To be carried out throughout the year.

FUNDING:

FHWA	EOT	FTA 5303	OCPC	BAT	OTHER	TOTAL
\$37,600	\$9,400	\$5,100	\$1,275			\$53,375

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TASK 3200 - LOCAL HIGHWAY TRANSPORTATION PLANNING TECHNICAL ASSISTANCE

OBJECTIVE:

To provide a quick and effective response mechanism to handle special, short-term transportation issues and/or projects as they arise. This will include the development, upon the written request from chief elected official of a local community or from state and federal agencies, of detail technical data and reports that will assist local communities, Executive Office of Transportation, and Public Works/ MassHighway in improving the region's transportation infrastructure.

PREVIOUS WORK:

Stoughton Route 27 Sub-area Concept Plan, Stoughton School and Pearl Street Intersection Study, Easton Purchase, Washington and Turnpike Street Sub-area Study, Avon East Main and East Spring Street Intersection Study, Numerous Vehicle and Speed Classification Studies requested by Old Colony Planning Council communities, Avon Truck Exclusion Study, and Technical Assistance on Trip Generation Estimates for new developments. Abington, Route 123 at Washington Street Intersection Study and East Bridgewater Union at North Central Street Intersection Study. Crash data maintenance program for participating member communities, Manley/Route 106 intersection study in West Bridgewater, Pembroke and Grove Street Study and Smiths Lane Traffic Study in Kingston, Route 106/Route 104 intersection study in East Bridgewater, West Side Study, and West Elm/West Street Intersection Study in Brockton, Battle/Oak Street Intersection Study, Pearl Street Speed Study in Brockton, Route 123/Linwood Street Intersection analysis in Brockton, Long Pond Road/ Halfway Pond Road Study, Gunners Exchange Road Study, Samoset, Oak and Allerton Study, and Beaver Dam Road Study in Plymouth, Warrant analysis at West Elm/west street, West Chestnut /Manley and West Chestnut/Pearl Street in Brockton, Standish Avenue and Samoset Street Speed Study, Cherry Street and Walnut Street Intersection Study, Washington Street and Elm Street Intersection Study, Cedarville Intersection Study, Foundry Street (Route 106) and Prospect Street Intersection Traffic Study in Easton; Hanson MBTA Commuter Rail Station Traffic Circulation Study; Plymouth Industrial Park Speed Study; Algonquin Heights Pedestrian Safety at Samoset Street Study in Plymouth; East Center Street (Route 106) and East Street Traffic Study in West Bridgewater; Pleasant Street Heavy Vehicle Traffic Exclusion Study in Plymouth; Oak Street and Margarie Street and Oak Street and Davis Street Intersection Traffic Study in Plymouth; Canton Street (Route 27) and School Street Traffic Study in Stoughton; Brockton West Side Neighborhood Traffic Study; Traffic Study of Retail Development Impacts on Routes 106 and 58 in Halifax; Summer Street and Belmont Street Intersection Traffic Study in East Bridgewater; Summer Street and Belmont Street in East Bridgewater; East Street Traffic Study in East Bridgewater; Manomet Point Road Speed Study in Plymouth; Elm Street and Taylor Avenue Heavy Vehicle Exclusion Study in Pembroke; Elm Street and Furnace Street in Halifax; Long Pond Road Speed Study in Plymouth; Black Cat Road Speed Study in Plymouth; Sandwich Road Speed Study in Plymouth; Samoset and Algonquin Terrace Pedestrian Study in Plymouth; Rocky Hill Road in Plymouth; Kingston Pembroke Street School Zone Analyses; Summer and Oak Study in Plymouth; Brockton West Side Study; and Halifax Downtown Sub Area Study; Clintonville Traffic Calming Study; Route 106 at Howard Street Traffic Study; Brockton Main Street RSA; Carver Road at Plympton Road Traffic Study; Cranberry Road Traffic Study; Smith's Lane Traffic Study; Oak Street at Elm Street Traffic Study; Mattakeesett Traffic Study; Numerous other intersections warrant analysis, sight distance and crash analysis, traffic impact studies of land use, speed and vehicle classification studies.

PROCEDURES:

1. Provide technical planning assistance to member communities on highway, pedestrian, and bicycle transportation planning related matters in the form of meetings, data and reports to local communities, Executive Office of Transportation and Public Works, MassHighway and other local, state and federal agencies as the need arises. The Council staff shall perform work on specific short-range highway planning tasks including but not limited to: Intersection and capacity analysis; Road Safety Audits; SYNCHRO analysis; crash analysis; air quality analysis, both commuter and municipal parking analysis; carpool/vanpool analysis; trip generation estimation analysis, sight distance analysis, traffic impact analysis of proposed developments, traffic analysis studies, Geographic Information System, Global Positioning System, and Pictometry applications; and other

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**TASK 3200 - LOCAL HIGHWAY TRANSPORTATION PLANNING TECHNICAL ASSISTANCE
(CONTINUED)**

short-range studies to determine the need for traffic signals, traffic signs, traffic markings and the use of one-way streets.

2. Maintain an up-to-date file of the Crash Information Data for the Old Colony Planning Council communities. Continue the collecting and reporting of crash statistics for the participating communities.

PRODUCT:

Local Technical Assistance Reports/ documents will be prepared. Appropriate, technical assistance to member communities and crash reporting for participating communities will be provided.

SCHEDULE:

To be carried out throughout the program year.

FUNDING:

FHWA	EOT	FTA 5303	OCPC	BAT	OTHER	TOTAL
\$40,000	\$10,000					\$50,000

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ELEMENT 3000 - SHORT AND LONG RANGE TRANSPORTATION PLANNING ACTIVITIES

TASK 3300 - REGIONAL PRIORITY DEVELOPMENT AREAS AND REGIONAL PRIORITY PRESERVATION AREAS

OBJECTIVE:

To identify Priority Development Areas (PDAs) and Priority Protection Areas (PPAs) for eight communities. The process includes utilizing geographic information systems and working with municipal officials and citizens to locate and designate these areas. PDAs are areas within a community that are capable of handling more development due to several factors, including good access, available infrastructure (primarily water and sewer), an absence of environmental constraints, and local support. PDAs can range in size from a single lot to many acres. Included in these designations will be the local recommendations for how these sites should be developed. PPAs are areas within a community that deserve special protection due to the presence of significant environmental factors, historic, and natural features, such as endangered species habitats, areas critical to water supply, scenic vistas, or areas of historic significance. The identification of these areas will help prepare both preservation and growth strategies tailored to the needs of local communities.

PREVIOUS WORK:

Regional Policy Plan, Regional Transportation Plan, South Coast Rail PPA and PDA

PROCEDURES:

1. Prepare existing conditions and baseline.
 - Prepare community base maps.
 - Identify existing priority development/protection area recommendations and draw upon Local Master Plans and Local Open Space Plans

2. REVIEW AND REFINEMENT OF PPA/PDA DESIGNATIONS
 - Prepare PPA/PDA maps by city/ town
 - Facilitate local and regional workshops to discuss, identify and prioritize PPA and PDA areas
 - Develop listing of resources and funding programs for identified PPA and PDA areas.
 - Prepare technical memorandum and maps of identified PPA and PDA areas.

PRODUCTS:

Priority Development Areas (PDAs) and Priority Protection Areas (PPAs) for eight communities. Products to include preparation of report to document the development process of the PDAs, PPA, along with recommendations and conclusions.

SCHEDULE:

To be carried out throughout the year.

FUNDING:

FHWA	EOT	FTA 5303	OCPC	BAT	OTHER	TOTAL
\$32,800	\$8,200	\$4,356	\$1,089			\$46,445

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ELEMENT 3000 - SHORT AND LONG RANGE TRANSPORTATION PLANNING ACTIVITIES

TASK 3400 - ROUTE 139 CORRIDOR STUDY PHASE 2

OBJECTIVE:

To identify specific and general problems and derive feasible actions to be undertaken that will enhance the circulation and traffic flow efficiency for Route 139 in the communities of Stoughton, Abington, and Pembroke. Under this task, Old Colony Planning Council will conduct a corridor study to assist Stoughton, Abington, and Pembroke in developing the appropriate strategies for enhancing the circulation patterns and its interaction with surrounding communities. Staff will prepare a report, which outlines the study's findings and recommendations. The study will contain the information for the MassHighway Project Information Form (PNF). The findings and recommendations contained in the final report will serve as the basis for including projects in the region's Transportation Improvement Program and Transportation Plan. Work under this task includes:

- Documenting Existing Conditions and Problem Identification.
- Forecasting Conditions and Problems for the study area.
- Developing Traffic Flow and Circulation Alternatives and Analysis.

PREVIOUS WORK:

Congestion Management Process; Pavement Management System; Safety Management System; Regional Intersection Safety Study; Congestion Management Process; Regional Traffic Studies; Local Technical Assistance Studies; Regional Transportation Plan; Route 27 Corridor Study; Route 18 Corridor Study; Abington Master Plan; EOE Executive Order 418s.

PROCEDURES:

1. Existing Conditions and Problem Identification

All relevant and attainable data will be collected and reported during this phase of the project. Relevant data to the project will include any data that has an impact on current traffic conditions along the roadway. Data collection techniques to be utilized during this phase will include but are not limited to automated traffic counts, turning movement counts, windshield surveys, survey of land use maps, review, and analysis of crash data, and travel time studies. The data compiled for the existing conditions will be tested to document the deficiencies along the highways, transit links, pedestrian and bicycle facilities, and to identify their causes and their impact on traffic flow, safety, and accessibility. This section will validate or disprove current perceived problems within the study area.

2. Forecast Conditions and Future Problems

Traffic volumes, population, area employment, turning movements, and other factors affecting traffic will be forecasted to determine the future conditions and performance of the system if no action is taken. Reviewing past trends and comparing them to the current conditions will complete forecasts. Problems that have already been identified will be examined to determine the effects forecasted traffic conditions will have on them. Areas that are not currently identified as traffic problem areas, but considered borderline, will be examined in order to determine if future operations will be below acceptable levels.

3. Alternatives Development

Various alternatives for mitigation will be developed specific to problems identified in the study. These alternatives will include recommendations that are cost effective as well as recommendations that will produce the closest to Ideal conditions. The majority of the work completed under this task is the development of various plans to alleviate the traffic congestion along the state numbered routes.

4. Prepare Conclusions and Recommendations

The product of this Task is study that provides a framework for the alleviation traffic congestion and improvement safety on the local and numbered routes, and to provide the necessary information for the stakeholders to move projects forward in the initiation phases. Old Colony Planning Council will prepare a final report that will include an implementation program that will outline how and when recommendations of the plan will be implemented and identify potential funding sources. A short-range plan will be recommended for immediate implementation, and a

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TASK 3400 - ROUTE 139 CORRIDOR STUDY PHASE 2 (CONTINUED)

long-range plan will serve as the basis for including projects in the region's Transportation Improvement Program and Regional Transportation Plan.

PRODUCT:

Preparation of the Route 139 Corridor Study, which will include conclusions and recommendations.

SCHEDULE:

To be carried out throughout the year and completed by October 2009.

FUNDING:

FHWA	EOT	FTA 5303	OCPC	BAT	OTHER	TOTAL
\$24,000	\$6,000					\$30,000

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ELEMENT 3000 - SHORT AND LONG RANGE TRANSPORTATION PLANNING ACTIVITIES

TASK 3500 - ROUTE 58 CORRIDOR STUDY PHASE 2

OBJECTIVE:

To identify specific and general problems and derive feasible actions to be undertaken that will enhance the circulation and traffic flow efficiency for Route 58 in the communities of Abington, Whitman, Hanson, Halifax, Plympton. Under this task, Old Colony Planning Council will conduct a corridor study to assist Abington, Whitman, Hanson, Halifax, and Plympton in developing the appropriate strategies for enhancing the circulation patterns and its interaction with surrounding communities. The study will contain the information for the MassHighway Project Information Form (PNF). Staff will prepare a report, which outlines the study's findings and recommendations. The findings and recommendations contained in the final report will serve as the basis for including projects in the region's Transportation Improvement Program and Transportation Plan. Work under this task includes:

- Documenting Existing Conditions and Problem Identification.
- Forecasting Conditions and Problems for the study area.
- Developing Traffic Flow and Circulation Alternatives and Analysis.

PREVIOUS WORK:

Congestion Management Process; Pavement Management System; Safety Management System; Regional Intersection Safety Study; Congestion Management Process; Regional Traffic Studies; Local Technical Assistance Studies; Regional Transportation Plan; Hanson Master Plan Transportation Component; Route 25 and RT 58 Intersection Study.

PROCEDURES:

1. Existing Conditions and Problem Identification

All relevant and attainable data will be collected and reported during this phase of the project. Relevant data to the project will include any data that has an impact on current traffic conditions along the roadway. Data collection techniques to be utilized during this phase will include but are not limited to automated traffic counts, turning movement counts, windshield surveys, survey of land use maps, review, and analysis of crash data, and travel time studies. The data compiled for the existing conditions will be tested to document the deficiencies along the highways, transit links, pedestrian and bicycle facilities, and to identify their causes and their impact on traffic flow, safety, and accessibility. This section will validate or disprove current perceived problems within the study area.

2. Forecast Conditions and Future Problems

Traffic volumes, population, area employment, turning movements, and other factors affecting traffic will be forecasted to determine the future conditions and performance of the system if no action is taken. Reviewing past trends and comparing them to the current conditions will complete forecasts. Problems that have already been identified will be examined to determine the effects forecasted traffic conditions will have on them. Areas that are not currently identified as traffic problem areas, but considered borderline, will be examined in order to determine if future operations will be below acceptable levels.

3. Alternatives Development

Various alternatives for mitigation will be developed specific to problems identified in the study. These alternatives will include recommendations that are cost effective as well as recommendations that will produce the closest to

Ideal conditions. The majority of the work completed under this task is the development of various plans to alleviate the traffic congestion along the state numbered routes.

4. Prepare Conclusions and Recommendations

The product of this Task is study that provides a framework for the alleviation traffic congestion and improvement safety on the local and numbered routes, and to provide the necessary information for the stakeholders to move projects forward in the initiation phases. Old Colony Planning Council will prepare a final report that will include an implementation program that will outline how and when recommendations of the plan will be implemented and identify potential funding sources. A short-range plan will be recommended for immediate implementation, and a

**OLD COLONY METROPOLITAN PLANNING ORGANIZATION
FFY 2010 UNIFIED PLANNING WORK PROGRAM**

ELEMENT 3000 - SHORT AND LONG RANGE TRANSPORTATION PLANNING ACTIVITIES

TASK 3500 - ROUTE 58 CORRIDOR STUDY PHASE 2 (CONTINUED)

long-range plan will serve as the basis for including projects in the region's Transportation Improvement Program and Regional Transportation Plan.

PRODUCT:

Preparation of the Route 58 Corridor Study, which will include conclusions and recommendations.

SCHEDULE:

To be carried out throughout the year and completed by October 2009.

FUNDING:

FHWA	EOT	FTA 5303	OCPC	BAT	OTHER	TOTAL
\$24,000	\$6,000					\$30,000

**OLD COLONY METROPOLITAN PLANNING ORGANIZATION
FFY 2010 UNIFIED PLANNING WORK PROGRAM**

ELEMENT 3000 - SHORT AND LONG RANGE TRANSPORTATION PLANNING ACTIVITIES

TASK 3600 - MAJOR BOTTLENECK IDENTIFICATION AND ACTION PLAN

OBJECTIVE:

To identify and quantify three major bottlenecks among each of the following: limited access highways; arterials; and town centers, and develop short term and long term action to be undertaken that will enhance the circulation and traffic flow efficiency. For the purpose of this study, a bottleneck is a condition that restricts the free movement of traffic, thus creating a point of congestion during specific periods. Addressing and alleviating this congestion in the highway system would enhance the movement of people and goods. Staff will review volume to capacity ratios, level of services and public input as part of the identification process. In addition, staff will utilize the Congestion Management Process to assist the identification and the development of the short and long-term recommendations.

PREVIOUS WORK:

Congestion Management Process; Regional Traffic Count Program; Level of Service Analyses; Regional Corridor Studies; Access Management Plan; Regional Transportation Plans.

PROCEDURES:

1. Existing Conditions and Problem Identification

Develop a screening processing and identify and quantify major bottlenecks among limited access highways, arterials, and town centers. The screening process shall utilize the Congestion Management Process, the 2007 Regional Transportation Plan, Regional Travel Demand Models, Travel Time Studies, Corridor Studies. All relevant and attainable data will be collected and reported during this phase of the project. Data on locations will be catalogues, summarized and ranked. The data compiled for the existing conditions will be tested to document the deficiencies along the facilities, and to identify their causes and their impact on traffic flow, and accessibility. This section will validate or disprove current perceived problems within the study area.

2. Short Term and Long Term Improvements Development

Various alternatives for mitigation or alleviation will be developed specific to problems identified in the identified bottleneck areas. These alternatives will include recommendations that are cost effective as well as recommendations that will produce the closest to ideal conditions. Consideration will be given to operations and maintenance techniques, the incidental and routine causes of congestion, and access management. The promotion of efficient system management and operations is one of the SAFETA-LU planning factors seeking to integrate this concept in the existing planning process.

3. Prepare Conclusions and Recommendations

The product of this Task is a Plan that provides a framework for the alleviation traffic congestion on the locations identified, and to provide the necessary information for the stakeholders to move projects forward in the initiation phases. Old Colony Planning Council will prepare a final plan, which will include an implementation program that will outline how and when recommendations of the plan will be implemented and identify potential funding sources. A short-range plan will be recommended for immediate implementation, and a long-range plan will serve as the basis for including projects in the region's Transportation Improvement Program and 2011 Regional Transportation Plan.

PRODUCT:

Preparation of the Major Bottleneck Identification and Action Plan, which will include conclusions and recommendations.

SCHEDULE:

To be carried out throughout the year and Phase 1 completed by October 2009.

FUNDING:

FHWA	EOT	FTA 5303	OCPC	BAT	OTHER	TOTAL
\$27,200	\$6,800					\$34,000

**OLD COLONY METROPOLITAN PLANNING ORGANIZATION
FFY 2010 UNIFIED PLANNING WORK PROGRAM**

ELEMENT 3000 - SHORT AND LONG RANGE TRANSPORTATION PLANNING ACTIVITIES

TASK 3700 – CLIMATE CHANGE TRANSPORTATION IMPACT STUDY

OBJECTIVE:

To examine and identify to impacts of climate change on the transportation system. Modes of transportation in the U.S. will be affected as the climate warms, but potentially the greatest impact will be flooding of roads, railways, transit systems, and airport runways in coastal areas because of rising sea levels and surges brought on by storms. Coastal highways are already exposed to periodic storm flooding, and erosion and loss of wetlands have removed crucial buffer zones that once protected many roads. Warming temperatures trigger new weather and climate extremes. Infrastructure pushed beyond the range for which it was designed can become stressed and fail. As such, this study will provide an analysis of the impact of climate change on the transportation and formulate recommendations for planning, design, construction, evacuation, operation, and maintenance of transportation systems.

PREVIOUS WORK:

Regional Transportation Plans; Pre-Disaster Mitigation Plans

PROCEDURES:

1. Existing Conditions and Future Problem Identification

Examine and identify the root causes of the climate change, and estimate its impact on the transportation system.

Tasks to include:

- Providing an overview of climate change and its likely impact on southeastern Massachusetts
- Identifying and mapping existing modes of transportation
- Identifying and mapping coastal areas susceptible to flooding, surge, and, erosion
- Analyzing impact on operations and maintenance
- Developing both short and long term infrastructure needs
- Preparing a recommendations as to evacuation plan

2. Strategy and Policy Development

Develop strategies and policies to reduce and manage climate change. Task to include:

- Preparing strategies to reduce growth in VMT by expanding transit service, identifying alternatives to single occupant auto travel, and changes in land use patterns.
- Developing operation strategies to provide for congestion relief and driver behavior.
- Preparing a Policy Toolbox that incorporates research and development, vehicle emission standards, road pricing, VMT tax, consumer incentives and education campaigns.

3. Prepare Conclusions and Recommendations

Prepare study that includes an overview of root causes of climate change and provides an analysis of its potential impacts on the transportation system. The study shall include an analysis of the impact of climate change on the transportation and formulate recommendations for planning, design, construction, evacuation, operation, and maintenance of transportation systems.

PRODUCT:

The product will be a report entitled, Climate Change Transportation Impact Study that will include both conclusions and recommendations.

SCHEDULE:

To be carried out throughout the year and Phase 1 completed by October 2009.

FUNDING:

FHWA	EOT	FTA 5303	OCPC	BAT	OTHER	TOTAL
\$21,600	\$5,400	\$2,700	\$675			\$30,375

**OLD COLONY METROPOLITAN PLANNING ORGANIZATION
FFY 2010 UNIFIED PLANNING WORK PROGRAM**

ELEMENT 3000 - SHORT AND LONG RANGE TRANSPORTATION PLANNING ACTIVITIES

TASK 3800 – 2011 REGIONAL TRANSPORTATION PLAN (RTP) PHASE 1

OBJECTIVE:

To refine the 2007 Regional Transportation Plan for the Old Colony Planning Council region as needed and develop the 2011 Regional Transportation Plan. The Regional Transportation Plan will be submitted to the Joint Transportation Committee, local officials, Executive Office of Transportation, MassHighway, Federal Highway Administration, Federal Transit Administration, and the public for review and comments, and the Old Colony Metropolitan Planning Organization for endorsement. The RTP will be consistent with regional growth policies, public investment decisions, the amended Clean Air Act (CAA), Americans with Disabilities Act and state air quality regulations. As requested by the U.S. DOT, the plan will include emphasis on the areas of safety and traffic congestion management. The RTP identifies transportation issues/concerns and problems that will require improvements now or are expected to need additional attention in the future, and outline possible courses of action designed to facilitate these improvements.

PREVIOUS WORK:

Regional Transportation Plan, Phase I, Summary Report and Recommendations, July 1979; Regional Transportation Plan, Phase II, Summary Report and Recommendations, August 1980; Old Colony Comprehensive Regional Transportation Plan, 1981; Old Colony Comprehensive Regional Transportation Plan Update, 1983, 1985, 1986. Various traffic studies from Massachusetts Environmental Protection Agency review process. Review of State Transportation Plan. The 1993, 1994 and 1997, 2000, 2003, and 2007 Regional Transportation Plans, and the Regional Land Use and Transportation Policy Plan. 2005 Journey-to-work report.

PROCEDURES:

1. Develop the 2011 Regional Transportation Plan that will be consistent with the State Transportation Plan.
 - Develop Public Participation and Transportation Planning Process.
 - Incorporate the process described in 23CFR450.322 (g) into the public participation process.
 - Review and Refine Regional Goals, Policies and Objectives.
 - Review and update Regional Profile and Socio-Economic Data.
 - Review and refine the 10-20 year population and employment forecasts.
 - Develop land use component of the plan and include recommendations.
 - Refine plan based on improved modeling efforts and Journey-to-Work data and other new data inputs.
 - Develop regional highway and regional transit sections. This shall include identify existing and future needs. Evaluate current and future demand, identify deficiencies, and evaluate alternative improvement strategies and recommendations for all facilities.
 - Assess regional congestion and identify priority locations for in-depth study in the FFY 2011 Unified Planning Work Program.
 - Develop bicycle and pedestrian section.
 - Develop freight and goods mobility section.
 - Develop short and long-range transportation improvement and incorporate transportation evaluation criteria.
 - Review State Transportation Plan and include goals, policies, and procedures as appropriate.
 - Develop recommendations of the plan in relation to the recommended strategies in the State Implementation Plan and State Transportation Plan.
 - Develop financial section and provide cost estimates for short and long-range recommendations.
2. Include recommendations from other transportation studies conducted during the previous three years; including but not limited to: Old Colony Planning Council's Regional Transportation and Land Use Policy Plan; Kingston, Plymouth and Plympton Transportation Induced Growth Impact Study; and Brockton Central Area Traffic Study.

**OLD COLONY METROPOLITAN PLANNING ORGANIZATION
FFY 2010 UNIFIED PLANNING WORK PROGRAM**

ELEMENT 3000 - SHORT AND LONG RANGE TRANSPORTATION PLANNING ACTIVITIES

TASK 3800 – 2011 REGIONAL TRANSPORTATION PLAN (RTP) PHASE 1 (CONTINUED)

3. Develop and refine the financial section of the plan. Each project and/or program appearing in the transportation plan will have an identified source of funding that can reasonably be assumed to be available for implementation. Staff will develop cost estimates for projects appearing in the long-range element of the plan. Additionally, the staff will make the financial section more clearly define projects that are design to preserve the existing transportation infrastructure. Staff will also examine in greater detail the following basic activities required to produce a Regional Transportation Plan:
 - Assessment of current financial condition.
 - Projections of future financial requirements for operation and maintenance.
 - Assessment of ability to meet future financial requirements, based on analysis of existing revenue sources.
 - Identification of potential revenue sources to meet possible future shortfalls, including innovative financing methodologies.
 - Analyses of existing and future revenue sources, to include long-term availability and sensitivity to external factors.
 - Forecasts of baseline transportation system costs for use in making service and investment decisions.

4. Combine revised working papers into a comprehensive Regional Transportation Plan; conduct public outreach and meetings in accordance to the Public Participation Plan; Distribute plan to federal and state agencies for review and comment.

5. Public Participation: conduct public meetings through the Old Colony Joint Transportation Committee and Old Colony Planning Council, which will be the basis for gaining input from citizens, business community, special interest groups and local officials on the transportation issues facing the region. Public outreach will be in accordance with Old Colony’s Public Participation Plan.

PRODUCT:

2011 Regional Transportation Plan Phase 1

SCHEDULE:

To be carried out throughout the year and Phase 1 completed by October 2009.

FUNDING:

FHWA	EOT	FTA 5303	OCPC	BAT	OTHER	TOTAL
\$25,333	\$6,333	\$3,200	\$800			\$35,666

**OLD COLONY METROPOLITAN PLANNING ORGANIZATION
FFY 2010 UNIFIED PLANNING WORK PROGRAM**

4000 - OTHER TRANSPORTATION TECHNICAL ACTIVITIES

In the course of conducting transportation and transportation related planning activities, it is often the case that certain activities are called for which do not fit into the existing work program elements. When this is the case, those activities are programmed under the element heading of Other Transportation Technical Activities.

OLD COLONY METROPOLITAN PLANNING ORGANIZATION

FFY 2010 UNIFIED PLANNING WORK PROGRAM

ELEMENT 4000 - OTHER TRANSPORTATION TECHNICAL ACTIVITIES

TASK 4100 - TRANSIT TECHNICAL ASSISTANCE

OBJECTIVE:

To respond to short-range transit planning needs upon request from Old Colony Planning Council member communities and/or the Brockton Area Transit Authority), Greater Attleboro-Taunton Transit Authority (GATRA), and MBTA. To maintain a current data base for the region's transit system in order to provide an accurate basis for future forecasting, planning and program analysis, and project evaluation.

PREVIOUS WORK:

BAT - Fare increase analysis, service cut analysis, Section 504 Plan, Title VI Minority Information Update, Update Fare Structure Study, Brockton Area Transit Transfer Study, Ashmont Express-way Service Evaluation Study, 1985, 1990 Transit Recommendation Study, Brockton Area Transit Financial Assessment Study, air quality analysis for new buses, Brockton Area Transit Ashmont On Board Study, 1992 Americans with Disabilities Act Implementation Plan, Americans with Disabilities Act Plan Update (1993-2004), Brockton Area Transit Route Ridership Analysis (1993-2009) and Brockton Area Transit Title VI Study Update (1994-2007); 2003 Brockton Area Transit Title VI Supplemental Report; Brockton Area Transit fare increase analysis, air quality analysis for Congestion Mitigation and Air Quality and Transportation Demand Management proposals; Downtown Intermodal study; Ashmont on-board surveys; West Bridgewater Industrial Park on-board survey; and Avon Industrial Park on board survey; Diesel retrofit analyses; Continuity of Operations Plan; IKEA/ Merchants Park Route Feasibility Study; System Time Study; Fare Comparison Study; Stoughton Fixed Route Analysis; System Time Study; Route 2A Analysis; Paratransit Expansion; and Human Services Coordination Plan.

GATRA - Ridership analysis; Congestion Mitigation and Air Quality and Transportation Demand Management proposal; Air quality analysis; Business surveys; fixed route development; scheduling; Route travel time study; welfare-to-work route analysis; Human Services Coordination Plan.

Other - Plymouth Transit Feasibility Study; Plymouth Transit Survey; Ridership Estimates for Plymouth, Bridgewater, West Bridgewater, East Bridgewater, and Easton; Plymouth Transit Study Update. Assisted Communities, COAs and other public and private agencies with the section 5310 and Mobility Assistance Program; assisted Plymouth with air quality analysis for the proposed Transportation Demand Management project (fixed-route in the downtown area); Assisted the Towns of Kingston, Pembroke, Halifax, Plympton in the development of a transit program. Prepared 2009 Transit Directory, RTA Fare Comparison, Queset Commons Transit Study, Rockland Transit Study.

PROCEDURES:

1. Provide technical planning assistance to the Brockton Area Transit Authority and member communities on transit matters. This assistance can take the form of assistance in meeting federal reporting requirements; in assessing and evaluating routes; Title VI update; schedule and fare changes; assessing manpower and equipment needs; access-to-jobs; 2000 and 2010 census update; needs assessment study; provide and improve Brockton Area Transit's analytical and forecasting capabilities; assist Brockton Area Transit with the Americans with Disabilities Act Plan update, Title VI Trend Analysis, Service Area Demographic Trend Profile, etc.
2. Provide technical planning assistance to area communities outside the transit authority district, on transit matters. This assistance can take the form of helping the towns in assessing potential membership in a transit authority; assisting the towns in providing for private carrier service; identifying and assessing park-and-ride lots; assessing commuter rail lots; encouraging private enterprise participation; encouraging minority business participation; 2000 census and journey-to-work update, etc.
3. Prepare information as needed for Federal Transit Administration reports, State Implementation Plan submissions, Executive Office of Transportation and Public Works reports, and other routine reporting.

**OLD COLONY METROPOLITAN PLANNING ORGANIZATION
FFY 2010 UNIFIED PLANNING WORK PROGRAM**

ELEMENT 4000 - OTHER TRANSPORTATION TECHNICAL ACTIVITIES

TASK 4100 - TRANSIT TECHNICAL ASSISTANCE (CONTINUED)

4. Provide transit input into regional transit and transportation modeling efforts.
5. Conduct air-quality analysis as needed for transit projects.
6. Review, update, and expand transit section of the regional transportation plan as needed.

PRODUCT:

Provide technical assistance to Brockton Area Transit, Greater Attleboro-Taunton Transit Authority, MBTA, and to area communities as needed, and information for compliance with federal and state requirements for the Transportation Improvement Program, Human Service Coordination Plan, JARC Program Solicitation, Regional Model, and Regional Transportation Plan updates.

SCHEDULE:

To be carried out throughout the year.

FUNDING:

FHWA	EOT	FTA 5303	OCPC	BAT	OTHER	TOTAL
		\$26,000	\$6,500			\$32,500

**OLD COLONY METROPOLITAN PLANNING ORGANIZATION
FFY 2010 UNIFIED PLANNING WORK PROGRAM**

ELEMENT 4000 - OTHER TRANSPORTATION TECHNICAL ACTIVITIES

TASK 4200 - ELDERLY AND DISABLED SUPPORT

OBJECTIVE:

To ensure the accessibility to public transit services for the elderly and disabled. To attend meetings of the elderly and disabled committees. To provide technical assistance to Brockton Area Transit, region's municipalities, human service agencies, Councils on Aging, private non-profit agencies, and other parties involved in meeting special transportation needs.

PREVIOUS WORK:

Elderly and disabled Neighborhood Sourcebook; Technical assistance to public and private non-profit organizations in preparing Federal Transit Administration applications for section 5310 and Mobility Assistance; Section 504 Plan; developed a regional map of the Old Colony Planning Council area showing the locations with high density of elderly population (60+). Compilation of 1990 and 2000 US Census data of elderly population, 1992 Americans with Disabilities Act Implementation Plan; 1993-2000 Americans with Disabilities Act Plan Update; Brockton Area Transit Route Ridership Analysis (1993-2009) and Brockton Area Transit Title VI Study Update (1994-2007); Brockton Area Transit fare increase analysis; air quality analysis for Transportation Demand Management proposals; Downtown Intermodal study; Ashmont on-board surveys; Human Services Coordination Plan; West Bridgewater Industrial Park on-board survey; and Avon Industrial Park on board survey.

PROCEDURES:

1. Continue to provide assistance and guidance to applicants for section 5310 and Mobility Assistance Program in preparing applications and coordinating service.
2. Provide technical assistance to public and private non-profit agencies in the development, maintenance, and expansion of the elderly and/or disabled services in the region.
3. Continue to provide support for the replacement of Section 5310 and Mobility Assistance Program vehicles, which have outlived their usual life.
4. Continue efforts to coordinate existing transportation services for the elderly and disabled, as provided by numerous public and private non- profit agencies in Old Colony Planning Council Region.

PRODUCT:

Human Service Coordination Plan, List of eligible section 5310 and Mobility Assistance applicants, support of program applications (on going), New Freedom Solicitation.

SCHEDULE:

To be carried out throughout the year.

FUNDING:

FHWA	EOT	FTA 5303	OCPC	BAT	OTHER	TOTAL
		\$24,000	\$6,000			\$30,000

**OLD COLONY METROPOLITAN PLANNING ORGANIZATION
FFY 2010 UNIFIED PLANNING WORK PROGRAM**

ELEMENT 4000 - OTHER TRANSPORTATION TECHNICAL ACTIVITIES

TASK 4300 - BAT PLANNING AND TECHNICAL STUDIES

OBJECTIVE:

To provide transit-planning services, prepare technical studies and provide assistance in other planning related activities that are called for during the year which presently are not specifically identified in work program.

PREVIOUS WORK:

Section 504 Plan, Brockton Area Transit Transfer Study, Brockton Area Transit Financial Assessment Study, Brockton Area Transit Ashmont On-Board Study, Brockton Area Transit Americans with Disabilities Act Implementation Plan, Brockton Area Transit 1992 - 2000 Americans with Disabilities Act Plan Updates, Brockton Area Transit fixed-route ridership analyses (1993-2009), Brockton Area Transit Farebox Analyses, 1994, 1997, 2000, 2003, and 2006 Title VI report update, Ashmont route survey, etc., 2003 Brockton Area Transit Title VI Study Supplemental Report, Brockton Area Transit fare increase analyses, air quality analysis for Congestion Mitigation and Air Quality and Transportation Demand Management proposals; Downtown Intermodal Centre study; Ashmont on board surveys; Continuity of Operations Plan; West Bridgewater Industrial Park on-board survey; and Avon Industrial Park on-board survey; Route 2A Study; System Time Study; Human Services Coordination Plan; Bridgewater State College Transit Study, Avon/Stoughton Route extension planning.

PROCEDURES:

1. Develop a detail study(s) design/estimated work time effort and cost for planning tasks requested by Brockton Area Transit and agreed to by Old Colony Planning Council. The following is a list of planning/projects that could be undertaken as part of this task: Americans with Disabilities Act Plan Update; Route Evaluation Study/Survey; Fare Increase Analysis; Title VI Report Update; Title VI Trend Analysis; Transfer Study; Financial Plan Update; Demographic/Urban Area Analysis; Manley Street Industrial Park Route Analyses; Technical assistance to Brockton Area Transit, as needed, on the Intermodal Facility; Brockton Area Transit/Greater Attleboro-Taunton Transit Authority (Brockton/Taunton) Intercity Feasibility Study; Avon/Stoughton Route extension planning; Fare Modeling Study; Massasoit Study; and, Stoughton Fixed Route Study.
2. Undertake planning and related study(s) in accordance with study design.
3. Prepare reports, maps, charts, etc. covering the work effort.

PRODUCT:

Planning services; Paratransit plan in conformity with Americans with Disabilities Act requirements; Route evaluation study; Fixed Route Ridership Report; Avon/ Stoughton Route extension planning; Bridgewater State College Transit Route Expansion Study; Massasoit Reverse Commute Study.

SCHEDULE:

To be carried out throughout the year. Schedules are contract dependent.

FUNDING:

FHWA	EOT	FTA 5303	OCPC	BAT	OTHER	TOTAL
				\$30,000		\$30,000

**OLD COLONY METROPOLITAN PLANNING ORGANIZATION
FFY 2010 UNIFIED PLANNING WORK PROGRAM**

OTHER OLD COLONY PLANNING COUNCIL PLANNING STUDIES AND FUNDING SOURCES

The Old Colony Planning Council is a comprehensive planning agency serving 15 communities located in Southeastern Massachusetts. In addition to the range of transportation planning studies and activities described in this report, Old Colony Planning Council performs land use, economic development, environmental and comprehensive Planning.

Summary of Other Old Colony Planning Council Fund Resources

1.	Economic Development Administration	\$	52,000
2.	Executive Of Elder Affairs		
	Administration	\$	162,143
	Ombudsman Program	\$	150,000
3.	DLTA	\$	125,000
4.	Pre-Disaster Mitigation	\$	50,000

OTHER ONGOING TRANSPORTATION PLANNING STUDIES

1. Downtown Brockton 2-Way Traffic Implementation
2. Downtown Plymouth Parking Management Plan
3. South Weymouth Naval Air Station Reuse - The Village Center Plan
4. Plympton Industrial Park Development Plan
5. South Coast Rail Commuter Rail Extension to Fall River and New Bedford
6. Statewide Rail and Freight Plan

**OLD COLONY METROPOLITAN PLANNING ORGANIZATION
FFY 2010 UNIFIED PLANNING WORK PROGRAM**

TRANSPORTATION PLANNING STAFF

The following Old Colony Planning Council staff member will be working on the FFY 2010 Unified Work Program and the percent efforts represents the approximate time devoted to the 3C Transportation Planning Tasks.

<u>Names</u>	<u>Title</u>	<u>% Efforts</u>
Pat Ciaramella	Executive Director	10%
Charles Kilmer	Transportation Program Manager	100%
Jed Cornock	Transportation Planner	100%
Raymond Guarino	Transportation Planner	100%
William McNulty	Transportation Planner	100%
Karen Winger	Transportation Planner	100%
Susan McGrath	GIS Coordinator	65%
<i>Vacant</i>	<i>Transportation Planner</i>	<i>100%</i>
Caleb Cornock	Transportation Intern	100%
<i>Vacant</i>	<i>Transportation Intern</i>	<i>100%</i>
Eric Arbeene	Planner	75%
Bruce Hughes	Economic Development/ Community Planner	25%
James Watson	Comprehensive Planning Supervisor	25%

**OLD COLONY METROPOLITAN PLANNING ORGANIZATION
STATUS OF PL EXPENDITURES**

OCPC - ALLOCATIONS (PL\$)				OCPC - EXPENDITURE - (PL\$)			
Fiscal Year	Yearly	Cumulative	Contract Number	Amount	Spent	Cumulative Spent	
1974	\$49,362	\$49,362	17715	\$49,000	\$49,000	\$49,000	
1975	\$51,152	\$100,515					
1976	\$51,431	\$151,946	18331	\$110,000	\$115,799	\$164,799	
1977	\$77,573	\$229,520					
1978	\$78,473	\$307,992	19371	\$164,000	\$164,000	\$328,799	
1979	\$81,393	\$389,385					
1980	\$84,255	\$473,640	20693	\$165,000	\$156,510	\$485,309	
1981	\$85,845	\$559,486					
Supplemental 74-81	\$66,581	\$626,067	22118	\$81,750	\$74,565	\$559,874	
1982	\$87,167	\$713,234					
1983	\$102,653	\$815,887	22703	\$357,600	\$354,971	\$914,845	
1984	\$108,221	\$924,107					
1985	\$112,431	\$1,036,538	84876	\$381,000	\$276,561	\$1,191,406	
1986	\$112,541	\$1,149,079					
1987	\$104,488	\$1,253,568	89200	\$680,000	\$436,692	\$1,628,098	
1988	\$105,390	\$1,358,958					
1989	\$105,390	\$1,464,348	93200	\$888,082	\$553,579	\$2,181,678	
1990	\$102,238	\$1,566,586					
ISTEA 1991	\$105,157	\$1,671,743	96269	\$1,310,648	\$1,067,850	\$3,249,528	
1992	\$261,552	\$1,933,295					
1993	\$313,073	\$2,246,368	30050	\$1,816,297	\$1,327,216	\$4,576,744	
1994	\$311,482	\$2,557,850					
1995	\$310,675	\$2,868,525	4034021	\$2,020,836	\$1,814,941	\$6,391,685	
1996	\$307,410	\$3,175,935					
1997	\$352,074	\$3,528,009	0052455	\$2,813,921	\$2,724,176	\$9,115,861	
ISTEA 12-Mar-1998	\$175,971	\$3,703,980					
TEA21 12-Sep-1998	\$369,013	\$4,072,993					
5-Mar-1999	\$425,167	\$4,498,160					
15-Jul-2000	\$436,000	\$4,934,160					
6-Jun-2001	\$444,000	\$5,378,160					
6-Feb-2002	\$444,446	\$5,822,606					
30-Sep-2003	\$460,000	\$6,282,606					
30-Sep-2004	\$504,250	\$6,786,856					
SAFETEA-LU 30-Sep-2005	\$505,200	\$7,292,056					
30-Sep-2006	\$633,879	\$7,925,935					
30-Sep-2007	\$636,800	\$8,562,735					
30-Sep-2008	\$652,800	\$9,215,535					
30-Sep-2009	\$677,900	\$9,893,435					

*Estimate to 9/30/2009

Total to date PL\$ Allocation (Cumulative Estimate)	\$9,893,435
Total to date Spent (Cumulative Estimate)	\$9,115,861
OCPC "PL" Balance as of 09/30/2009	\$777,574
FFY 2010 UPWP (PL\$) Estimate of Expenditures	\$696,666
Estimated "PL" Balance as of 09/30/2010**	\$80,908

** Assumes spending of \$696,666 under FFY 2010 UPWP, and any deobligations and rescissions amounts

**OLD COLONY METROPOLITAN PLANNING ORGANIZATION
FFY 2010 UPWP BUDGET ESTIMATES**

ELEMENT TASK DESCRIPTION	FHWA PL	EOT NFA	FTA 5303	OCPC	BAT		TOTAL
1000 -Manage and Support of the Planning and Certification Activities							
1100 3C Program Support	\$42,400	\$10,600	\$5,400	\$1,350			\$59,750
1200 Unified Planning Work Program (UPWP)	\$8,000	\$2,000	\$1,000	\$250			\$11,250
1300 Public Participation Program (PPP)	\$36,000	\$9,000	\$4,600	\$1,150			\$50,750
1400 Transportation Improvement Program (TIP)	\$28,800	\$7,200	\$3,700	\$925			\$40,625
1500 Environmental Justice (EJ)	\$12,000	\$3,000	\$1,500	\$375			\$16,875
Subtotals	\$127,200	\$31,800	\$16,200	\$4,050	\$0	\$0	\$179,250
2000 -Data Collection and Analysis Activities							
2100 Demographic Surveillance & Road Inventory Update	\$28,000	\$7,000	\$3,500	\$875			\$39,375
2200 Highway Data Surveillance	\$39,200	\$9,800					\$49,000
2300 System Planning and Resource Activities	\$23,200	\$5,800	\$2,900	\$725			\$32,625
2400 Geographic Information System (GIS)	\$40,000	\$10,000	\$5,000	\$1,250			\$56,250
2500 Modeling and Forecasting	\$28,000	\$7,000	\$4,200	\$1,050			\$40,250
2600 Management Systems	\$39,200	\$9,800					\$49,000
Subtotals	\$197,600	\$49,400	\$15,600	\$3,900	\$0	\$0	\$266,500
3000 -Short and Long Range Transportation Planning Activities							
3100 Regional Traffic Studies, ITS, and, Intermodal Planning	\$37,600	\$9,400	\$5,100	\$1,275			\$53,375
3200 Local Highway Transportation Technical Assistance (LTA)	\$40,000	\$10,000					\$50,000
3300 Priority Development Areas and Priority Preservation Areas	\$32,800	\$8,200	\$4,356	\$1,089			\$46,445
3400 Route 139 Corridor Study Phase 2	\$24,000	\$6,000					\$30,000
3500 Route 58 Corridor Study Phase 2	\$24,000	\$6,000					\$30,000
3600 Major Bottleneck Identification Study and Action Plan	\$27,200	\$6,800					\$34,000
3700 Climate Change Transportation Impact Study	\$21,600	\$5,400	\$2,700	\$675			\$30,375
3800 2011 Regional Transportation Plan (RTP) Phase 1	\$25,333	\$6,333	\$3,200	\$800			\$35,666
Subtotals	\$232,533	\$58,133	\$15,356	\$3,839	\$0	\$0	\$309,861
4000 -Other Transportation Technical Activities							
4100 Local Transit Technical Assistance			\$26,000	\$6,500			\$32,500
4200 Elderly and Disabled Support			\$24,000	\$6,000			\$30,000
4300 BAT Technical Studies					\$30,000		\$30,000
Subtotals	\$0	\$0	\$50,000	\$12,500	\$30,000	\$0	\$92,500
TOTAL	\$557,333	\$139,333	\$97,156	\$24,289	\$30,000	\$0	\$848,111
Subtotals	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL ALL ELEMENTS	\$557,333	\$139,333	\$97,156	\$24,289	\$30,000	\$0	\$848,111