

SOUTH

JERSEY

TRANSPORTATION

PLANNING

ORGANIZATION

UNIFIED

PLANNING

WORK

PROGRAM

FISCAL YEAR 2015

**SOUTH JERSEY**  
**TRANSPORTATION PLANNING**  
**ORGANIZATION**  
**FY 2015**  
**UNIFIED PLANNING WORK PROGRAM**

**Working Draft**  
**November 29, 2013**

**Federal aid agreement PL –**  
**Federal aid agreement STP –**

**Frank Sutton, Chairman**  
**Timothy G. Chelius, P.P., AICP, Executive Director**  
**South Jersey Transportation Planning Organization**  
**782 S. Brewster Road, Unit B-6**  
**Vineland, NJ 08361**  
**Phone: 856-794-1941 Fax: 856-794-2549**  
**Website: [www.sjtpo.org](http://www.sjtpo.org)**

# **SOUTH JERSEY TRANSPORTATION PLANNING ORGANIZATION**

## **POLICY BOARD**

**FRANK SUTTON**

Chairman, SJTPO  
Freeholder  
Atlantic County

**DON GUARDIAN**

Mayor  
City of Atlantic City

**GERALD M. THORNTON**

Freeholder Director  
Cape May County

**LEONARD C. DESIDERIO**

Vice-Chairman, SJTPO  
Mayor  
City of Sea Isle City

**ROBERT SURACE**

Freeholder  
Cumberland County

**RUBEN BERMUDEZ**

Mayor  
City of Vineland

**BENJAMIN H. LAURY, P.E.**

Deputy Freeholder Director  
Salem County

**JEFFREY T. RIDGWAY**

Secretary/Treasurer, SJTPO  
Committeeman  
Township of Pittsgrove

**THOMAS A. WOSPIL, JR**

Executive Director, Capital Programs  
NJ Department of Transportation

**SAMUEL DONELSON**

Deputy Executive Director  
South Jersey Transportation Authority

**LOUIS MILLAN**

Capital Planning  
NJ Transit

*The preparation of this report has been funded in part by the U.S. Department of Transportation, Federal Transit Administration and Federal Highway Administration. This document is disseminated under the sponsorship of the U.S. Department of Transportation in the interest of information exchange. The United States Government assumes no liability for its contents or its use thereof.*

# SOUTH JERSEY TRANSPORTATION PLANNING ORGANIZATION

## FY 2015 UNIFIED PLANNING WORK PROGRAM

### Table of Contents

	<u>Page</u>
<b>OVERVIEW</b>	5
<b>CENTRAL STAFF WORK PROGRAM</b>	
<b>15/110: Regional Transportation Planning</b>	
15/111: Transportation Safety Planning (TSP)	10
15/112: 2040 Regional Transportation Plan Implementation	11
15/113: Regional and Corridor Planning	12
15/114: Current Regional Issues	13
15/115: Geographic Information System	14
15/116: Congestion Management Process	15
15/117: Public Involvement and Title VI	16
<b>15/120: Safety</b>	
15/121: SJTPO Traffic Safety Education Programs	17
15/122: Safety Outreach and Research	18
<b>15/130: Project Development and Programming</b>	
15/131: Transportation Improvement Program	19
15/132: Air Quality Planning	20
15/133: Local Preliminary Engineering and Design Program	21
<b>15/140: Program Administration</b>	
15/141: Administration and Internal Management	22
15/142: Board and Committee Support	23
15/143: Unified Planning Work Program	24
15/144: Subregional and Technical Program Management	25
<b>SOUTH JERSEY TRANSPORTATION AUTHORITY ADMINISTRATION</b>	
15/201: Financial & Administrative Services	26

## Table of Contents (continued)

### Page

#### **SUBREGIONAL TRANSPORTATION PLANNING WORK PROGRAMS**

<b>15/301:</b>	<b>Atlantic County</b>	<b>27</b>
<b>15/302:</b>	<b>Cape May County</b>	<b>28</b>
<b>15/303:</b>	<b>Cumberland County</b>	<b>29</b>
<b>15/304:</b>	<b>Salem County</b>	<b>30</b>

#### **TECHNICAL PROGRAM**

<b>15/401:</b>	<b>Professional and Technical Services</b>	<b>31</b>
<b>15/402:</b>	<b>Regional Coordinated Human Service Transportation Update</b>	<b>31</b>
<b>15/403:</b>	<b>South Jersey Travel Demand Model Recalibration and Improvements</b>	<b>32</b>
<b>15/404:</b>	<b>Sign Management and System Data Collection</b>	<b>33</b>
<b>15/405:</b>	<b>Highway Safety Manual Calibration</b>	<b>34</b>
<b>15/406:</b>	<b>Local Safety Project Development</b>	<b>34</b>

#### **NON-MPO-FUNDED TRANSPORTATION PLANNING ACTIVITIES**

<b>15/501:</b>	<b>New Jersey Department of Transportation</b>	<b>35</b>
<b>15/502:</b>	<b>New Jersey Turnpike Authority</b>	<b>35</b>
<b>15/503:</b>	<b>Delaware River and Bay Authority</b>	<b>35</b>

#### **FINANCIAL INFORMATION**

##### **LIST OF TABLES**

<b>Table 1:</b>	<b>Central Staff Work Program</b>	<b>36</b>
<b>Table 2:</b>	<b>Funding Overview</b>	<b>37</b>
<b>Table 3:</b>	<b>Programmed Resources</b>	<b>38</b>
<b>Table 4:</b>	<b>Funding Source Summary</b>	<b>39</b>
<b>Table 5:</b>	<b>FY 2013-2014 Central Staff Budget</b>	<b>40</b>
<b>Table 6:</b>	<b>FY 2013-2014 Estimated Task Costs</b>	<b>41</b>
<b>Table 7:</b>	<b>Subregional Transportation Work Program Summary</b>	<b>42</b>
<b>Table 8:</b>		

## OVERVIEW

### PURPOSE OF THE UNIFIED PLANNING WORK PROGRAM

The South Jersey Transportation Planning Organization (SJTPO) is the federally recognized Metropolitan Planning Organization (MPO) for the southern New Jersey region, serving Atlantic, Cape May, Cumberland, and Salem Counties. Under federal law, MPO's carry out transportation planning and decision-making for urbanized areas. Formed in mid-1993, SJTPO replaced three small existing MPO's and incorporated areas not previously served.

MPO's are responsible for maintaining a continuing, cooperative, and comprehensive transportation planning process. They provide a forum for cooperative decision-making among responsible state and local officials, public and private transit operators, and the general public. They coordinate the planning activities of participating agencies and adopt long range plans to guide transportation investment decisions. MPO's are also responsible for capital programming through an annually-updated multi-year Transportation Improvement Program, which contains all federal and state funding for surface transportation projects and programs.

Other key activities include promoting transportation improvements needed in the region and project development. In addition, MPO's ensure the region's compliance with federal regulations affecting transportation decisions, such as the Clean Air Act Amendments of 1990. In meeting federal requirements, MPO's maintain the eligibility of their member agencies and transit operators for federal transportation funds for planning, capital improvements, and operations.

Each year, MPO's prepare a Unified Planning Work Program (UPWP), in cooperation with member agencies, to describe all metropolitan transportation and transportation-related air quality planning activities anticipated within the area during the year. The UPWP includes the work of member agencies and consultants, as well as the work done directly by the MPO's Central Staff. As of the date of this document, SJTPO Central Staff is projected to consist of the following individuals and responsibilities:

Timothy G. Chelius, P.P., AICP, Executive Director: Overall SJTPO operations

Tina Arcaro, Traffic Safety Specialist (PT/Temporary): DDACTS Implementation, Share the Keys, community traffic safety

Monica LoGuidice, Manager of Administration: Office and contract management

Nancy Hammer, Support Specialist: Budgeting, TIP data base management, TAC support

Jennifer Marandino, P.E., Team Leader, Safety & Capital Programming: safety engineering and planning, capital programming, project development

Alan Huff, Senior Transportation Planner: DDACTS, GIS, website, safety planning

John Petersack, Capital Program Specialist (PT): TIP/STIP

David Heller, P.P., AICP, Team Leader, Regional & Systems Planning: Travel demand modeling, regional planning, air quality analysis, technical assistance

William Schiavi, CPA, AICP, Manager of Regional Planning: Asset management systems

Andrew Tracy, Transportation Planner: Modeling, data analysis, CMAQ Program

Michael Reeves, P.P., AICP, Special Projects Coordinator (PT): Subregional Transportation Work Program, greenhouse gas inventory

VACANT, Transportation Planner: Geographic Information Systems, systems planning,

Teresa Thomas, SJTSA Program Manager: Traffic safety education, Title VI

Wayne Shelton, Traffic Safety Specialist (PT): Community traffic safety

Robert Clarke, Community Safety Specialist, (PT): Community traffic safety

## **THE TRANSPORTATION PLANNING ENVIRONMENT**

The federal Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) established a new agenda for maintaining and investing in the nation's transportation infrastructure. Under this landmark legislation, MPO's were entrusted with an expanded role in transportation planning and capital programming. They became partners with state government in making decisions about how transportation tax dollars are spent, thus bringing decisions closer to those served. The Transportation Equity Act for the 21st Century (TEA-21), enacted in 1998, basically reaffirmed and retained the structure of the planning process under ISTEA., as did the passage of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) in 2005.

The formation of the SJTPO provided a stronger regional approach to solving transportation problems and bought new opportunities to southern New Jersey. Also, SJTPO is a Transportation Management Area, since it serves an urbanized population exceeding 200,000. This designation boosts the resources that can be pooled to address regional problems and qualifies SJTPO for specific shares of federal transportation funds.

MAP-21, the Moving Ahead for Progress in the 21<sup>st</sup> century Act (P.L. 112-141), was signed into law by President Obama on July 6, 2012. Funding surface transportation programs at over \$105 billion for fiscal years FY 2013 and 2014, MAP-21 is the first long-term highway authorization enacted since 2005.

MAP-21 is a milestone for the U.S. economy and the nation's surface transportation programs. By transforming the policy and programmatic framework for investments to guide the system's growth and development, MAP-21 creates a streamlined and performance-based surface transportation program and builds on many of the highway, transit, bike, and pedestrian programs and policies established by ISTEA.

MAP-21 requires that SJTPO's plans and programs consider eight high-priority issues. The activities and products of this UPWP address all eight areas, which are:

- Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency;
- Increase the safety of the transportation system for motorized and non-motorized users;
- Increase the security of the transportation system for motorized and non-motorized users;
- Increase the accessibility and mobility of people and for freight;
- Protect and enhance the environment, promote energy conservation, and improve quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns
- Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight;
- Promote efficient system management and operation; and
- Emphasize the preservation of the existing transportation system

This Unified Planning Work Program sets forth the steps SJTPO will take during the coming fiscal year to improve transportation in the region and to meet the challenges of MAP-21.

## **SJTPO STRUCTURE**

The governing body of the SJTPO is the Policy Board. It consists of eleven voting members -- one elected official from each county government, one municipal elected official from each county (specifically including the Mayors of Atlantic City and Vineland), and one representative each from the New Jersey Department of Transportation, New Jersey Transit, and the South Jersey Transportation Authority.

A fourteen member Technical Advisory Committee provides input to the Policy Board. It consists of staff of each Policy Board member, as well as representatives of the New Jersey Turnpike Authority and the Delaware River and Bay Authority, along with the chairperson of the Citizens Advisory Committee. A wide variety of other agencies are also invited to participate in the Technical Advisory Committee.

A Citizens Advisory Committee represents a broad cross-section of civic and business groups, environmental interests, and private provider and user groups. Other interested individuals and associations also participate and are added to the mailing list upon request. The CAC was established as part of SJTPO's initial structure in recognition of the importance of public involvement to the organization.

## **REGIONWIDE FY 2015 PLANNING PRIORITIES**

Integrating safety considerations into regional planning and capital programming will continue to be a top priority in FY 2015. SJTPO will continue to employ the Highway Safety Manual and Rutgers CAIT's Plan4Safety tool to advance safety projects and programs in a variety of ways, including: continuing regional traffic safety education, significant coordination with DVRPC in traffic safety programs, technical studies, and the allocation of significant staff resources to safety programs and analysis.

A major FY 2015 initiative, supported by an agreement with the NJ Division of Highway Traffic Safety, will be implementation of the Data Driven Approaches to Crime and Traffic Safety Program (DDACTS) for select law enforcement agencies in the SJTPO and DVRPC regions. DDACTS is a model that integrates location-based crime and traffic data to determine the most effective methods for deploying law enforcement and other traffic safety resources. Using GIS to identify "hot-spots" – areas of high incidence of crimes and crashes – DDACTS uses targeted strategies that fight crime and reduce crashes and traffic violations. Implementation will be carried out with data analysis and reporting by Safety Planning staff and law enforcement liaison by a Traffic Safety Specialist.

SJTPO will continue its Asset Data Collection program, which will serve as the basis for infrastructure performance measures so that our system preservation planning and programming will flow from a region – wide data – driven, performance - based protocol.

Also, SJTPO will support livable community efforts in our region through our involvement and assistance in the Safe Routes to School Program and Transportation Enhancements Program.

Other core responsibilities of MPO's under federal law and SJTPO practice continue to be prominent work program activities. These include updating the Transportation Improvement Program, conducting required air quality analysis, managing SJTPO's Local Lead, Local Safety, and CMAQ Programs, and supporting federal research and outreach programs.



## **UPWP SUMMARY AND INDIVIDUAL AGENCY PRIORITIES**

Below is a summary of the major responsibilities and priorities of the agencies that are being funded through this UPWP. The full work programs follow in the body of this document.

**Central Staff Work Program (\$1,505,149)** - In addition to the regionwide priorities discussed above, the Central Staff Work Program will have a substantial emphasis on management of Technical Studies and the Local Scoping Program, oversight and direction of administrative support operations, and housing the South Jersey Traffic Safety Alliance. In addition, advancing safety projects and programs will be a significant task, as SJTPO continues in its nationally – recognized leadership role in integrating safety into planning. Staff will prepare FY 2014 amendments and the FY 2015 - 2016 UPWP.

**Administrative Services (\$50,000)** - Administrative services are provided by the South Jersey Transportation Authority pursuant to a formal agreement with NJDOT.

**Subregional Transportation Planning Work Programs (\$321,500)** – SJTPO Counties are vital partners in all SJTPO planning processes. They receive funds through this UPWP to support their contributions to SJTPO, as well as other transportation planning needs of their jurisdictions. They have many activities in common, including contributing to Regional Transportation Plan Updates and related projects. They also assist the JARC program, participate in the SJTPO Transportation Improvement Program, support public involvement, and provide other assistance to SJTPO priorities described above. The County Subregional Planning Work Programs provide a total for FY 2015:

- Atlantic County - \$115,000: This Update will involve a review and revision of the parameters, assumptions and baseline data of the 2001 County Master Plan in order to evaluate the current state of transportation in the County.
- Cape May County - \$58,000: An update of the Transportation Element of the Cape May County Comprehensive Plan to meet the requirements of the County Enabling Ac will be completed by a consultant and by County staff.
- Cumberland County – \$90,500: This project will identify intersections to be targeted for improvement analysis. The analysis will determine appropriate intersection improvements, and design prepared as appropriate. The project will be completed by a consultant and County staff.
- **Salem County – \$58,000: to be determined**

**Technical Program (\$900,000)** - To supplement the various agency work programs described above, SJTPO will support technical studies and projects performed by consultants, as follows:

- Professional & Technical Services (\$100,000) – This task will fund specialized services to support our 2040 Regional Transportation Plan implementation, such as further travel demand model development, air quality analysis, public involvement, marketing, and others.
- Regional Coordinated Human Service Transportation Plan Update (\$100,000) – In cooperation with NJ Transit, the four MPO counties and local officials and agencies, SJTPO will manage the preparation of the FY 2015 Human Service Transportation (HST) Plan Update. The focus of the 2015 Update will be to provide applicants for the JARC, New Freedom and 5310 grant programs with a document that will support their applications (as required by NJ Transit).
- South Jersey Travel Demand Model Recalibration and Improvements (\$100,000) - A household travel survey was conducted in the SJTPO region in FY 2014, and in this FY 2015 project, the SJTDM will be recalibrated to the new survey and will be validated against traffic counts

conducted in recent years. The consultant will also input the new household data into the model, adapting the model to incorporate new household variables collected from the FY 2014 survey.

- Sign Management System Data Collection (\$300,000) – A contractor will utilize the existing inventory of sign data and enhance the database to add functionality to evaluate the sign retroreflectivity compliance with MUTCD standards. As part of this task, the contractor will collect sign retroreflectivity measurements for all regulatory and warning signs in the inventory using an MUTCD-compliant method.
- Highway Safety Manual Calibration (\$150,000) - Published in 2010, the Highway Safety Manual (HSM) works to balance safety with the competing interests of jurisdictions such as capacity, construction costs, and environmental concerns. Within the Manual, the use of Safety Performance Functions (SPFs) allows users to predict the number of crashes for a particular facility. This task covers data collection activities needed to calibrate the Part C safety performance functions to the uniqueness of the SJTPO region. Data collection may be in the form of daily traffic counts and/or turning movement counts.
- Local Safety Project Development (\$150,000) - SJTPO will provide consultant support to project sponsors in developing projects for federal HSIP funding. The assistance will include the form of preparation of final plans, specifications, and cost estimates (PS&E) as well as other activities, which would support the project sponsors in their preparation of the PS&E package.

A total of \$2,776,649 is programmed for use within this document, as is detailed in the "Financial Information" section.

### **NON-MPO-FUNDED TRANSPORTATION PLANNING ACTIVITIES**

The annual Unified Planning Work Program also describes all anticipated regionally significant transportation planning activities in the region, regardless of funding source or agencies conducting the activities. The information is intended to broaden awareness of related activities, to prevent duplication of planning and study efforts, and to encourage coordination of all transportation planning underway in the region.

# CENTRAL STAFF WORK PROGRAM

## ACTIVITY 15/110: REGIONAL TRANSPORTATION PLANNING

### Task 15/111: TRANSPORTATION SAFETY PLANNING (TSP)

#### Objective:

Transportation Safety Planning (TSP) is a proactive approach aimed at preventing crashes and unsafe conditions. SJTPO has been conducting multidisciplinary programs by integrating engineering, enforcement, education, and planning, and will continue to do so in FY 2015.

In FY 2015, key activities include the use of Plan4Safety and the AASHTO Highway Safety Manual, which support of our systematic approach to identify high crash locations and appropriate countermeasures. This and other quantitative tools, along with the qualitative input from safety professionals, provide input for capital programming decisions.

#### Activities and Products:

1. Work with Rutgers University, NJDOT, FHWA, and the National Highway & Traffic Safety Administration and others to advance TSP safety.
2. Implementation of the Data Driven Approaches to Crime and Traffic Safety Program (DDACTS) for select jurisdictions (NOTE: Funding for a significant portion of this activity has been committed through FY 2016 by the NJ Division of Highway Traffic Safety). SJTPO will work with the City of Vineland and other municipalities on DDACTS pilot projects.
3. Continuation of UPWP-funded safety activities, such as Safety Project Development.
4. Utilization of crash data and Plan4Safety for program analysis, special studies, etc. in cooperation with the Rutgers Transportation Safety Resource Center, CAIT-LTAP, and other stakeholders. Development of SJTPO Regional Safety Plan and reports examining traffic safety trends in the SJTPO region.
5. Work closely with statewide stakeholders in the formulation of the Statewide Highway Safety Plan.
6. Assistance to county and local governments in identifying and preparing NJDOT Local Aid projects resulting from safety analysis and studies.

Funding: Estimated cost is \$200,000

Federal Aid Agreement: PL- ( )

Program Manager: Jennifer Marandino

## **Task 15/112: 2040 REGIONAL TRANSPORTATION PLAN IMPLEMENTATION**

### **Objective:**

One of the principal requirements of federal transportation law for Metropolitan Planning Organizations (MPO's) is the development and regular updating of a plan to guide policy and programming decisions. SJTPO's first Regional Transportation Plan (RTP), with a 2015 horizon year, was adopted in August 1995. The RTP was updated and adopted, with a 2040 horizon year, in July, 2012. This task will support continued plan outreach and refinement during FY 2015.

### **Activities and Products:**

1. Utilize the Task 2 (Performance Measure) products of the NJDOT State Long Range Transportation Plan, as the basis for building upon SJTPO's Regional Performance Measures.
2. Utilize the Task 5 (Reporting System) product of the NJDOT State Long Range Transportation Plan, for SJTPO system performance evaluation.
3. Program for FYs 2013 and 2014 to follow up on implementation of the 2040 RTP. This will include:
  - a. Further application of the enhanced South Jersey Travel Demand Model, especially in the evaluation of strategies required as part of SJTPO's Congestion Management Process (CMP).
  - b. In conjunction with the tasks above, continue to build upon USDOT's and NJDOT's increasing emphasis on performance-based planning by acquiring additional data, developing additional performance measures, and further strengthening the linkage between SJTPO and operations agencies in the hopes of maximizing the performance of the existing and planned transportation system.
5. Incorporate Management System output into SJTPO's overall transportation planning process.

**Funding:** Estimated cost is \$100,000

**Federal Aid Agreement:** PL- ( )

**Program Manager:** David Heller

## **Task 15/113: REGIONAL AND CORRIDOR PLANNING**

### **Objective:**

SJTPO will participate in planning on a statewide, regional, and sub-regional level. SJTPO accomplishes this by directly conducting some planning efforts and by participating in the comprehensive transportation planning activities of other agencies to represent the region's interests in the other agencies' work. This task includes SJTPO's involvement in studies and other planning not funded by SJTPO.

### **Activities and Products:**

1. Participate in New Jersey's statewide transportation planning efforts:  
Participate on various committees involved with statewide planning and operations, such as the Intelligent Transportation (ITS) New Jersey Board of Directors, NJDOT's Congestion Management System Committee and Bridge Management Subcommittee, NJ County Transportation Association's TransAction Committee, and others. These activities will result in improved statewide policy and capital programming reflecting SJTPO priorities and needs.
2. Participate in regional transportation planning efforts:  
Advise regional agencies on the SJTPO Regional Transportation Plan and SJTPO priorities and programs. Forge a strong connection between the SJTPO Plan and priorities to other agencies' plans. SJTPO will accomplish this by taking an active role in the other agencies' planning process with regards to the South Jersey region and SJTPO's transportation network.
3. Participate in sub-regional transportation planning efforts:  
SJTPO will conduct, manage or participate in the planning efforts affecting our sub-regional partners such as the counties and municipalities. This will ensure that projects and programs affecting SJTPO's transportation network are fully responsive to SJTPO policies and help support SJTPO's planning process.

**Funding:** Estimated cost is \$100,000

**Federal Aid Agreement:** PL- ( )

**Program Manager:** David Heller

## **Task 15/114: CURRENT REGIONAL ISSUES**

### **Objective:**

Responding to current regional issues is an on-call activity of regional significance. Staff will provide support to the organization to promote the regional viewpoint on or advance specific programs, plans, and projects. Issues which arise through this task may be subsequently addressed in the Regional Transportation Plan, the Unified Planning Work Program, the Transportation Improvement Program, or NJDOT's Study and Development Program.

### **Activities and Products:**

1. Investigate, collect data, prepare analyses, develop recommendations, prepare correspondence and reports, and coordinate with other agencies. Representative examples of possible topics are proposed highway projects, traffic problems, bus service, transit proposals, freight and passenger rail line development, bicycle and pedestrian needs, and airport-related plans. Actual topics are identified on an ongoing basis, often by Policy Board or Technical Advisory Committee action. Some expected activities are identified below.
2. Work with the sub-regions to assist with Human Services Transportation programs. Work with the Delaware Valley Regional Planning Commission and the North Jersey Transportation Planning Authority on matters affecting the Philadelphia and North Jersey regions.
3. Provide technical assistance to member counties and municipalities, and assist NJDOT in preparing financial plans for major capital projects as necessary.
4. Assess the implications for the region of any new or proposed State or federal legislation, regulations, and the policies.

**Funding:** Estimated cost is \$50,000

**Federal Aid Agreement:** PL- ( )

**Program Manager:** David Heller

## **Task 15/115: GEOGRAPHIC INFORMATION SYSTEM**

### **Objective:**

This task calls for the continued development and application of the Geographic Information Systems (GIS) and digital data used by SJTPO. GIS is a computer system capable of assembling, storing, manipulating and displaying geographically-referenced information. Expansion of the GIS and database might include additional software and hardware, as well as new digital and printed data. This system is to support the planning process by providing visualization capability.

### **Activities and Products:**

1. Collect and assemble GIS related data from various sources, including the US Census, State Data Center, NJDOT, FHWA, FEMA, Counties, neighboring MPOs, and other State Departments, and the SJTA. Maintain a regional profile from these and other data sources.
2. Prepare, enhance and update regional and sub-regional databases and general information in ArcView GIS format to support the SJTPO Regional Plan, selected projects, and the regional planning process.
3. Integrate the South Jersey Travel Demand Model updates and the New Jersey Congestion Management System files with the current GIS databases to further develop and enhance the regional database.
4. Develop the SJTPO GIS capabilities to support performance-based capital programming techniques, and explore the potential for integrating transportation and asset management.
5. Develop SJTPO GIS capabilities to support the Congestion Management Process (Task 15/116).
6. Remain current on the latest in GIS technology to identify beneficial enhancements in hardware and software.

**Funding:** Estimated cost is \$50,000

**Federal Aid Agreement:** PL- ( )

**Program Manager:** David Heller

## **Task 15/116: CONGESTION MANAGEMENT PROCESS**

### **Objective:**

The federal Intermodal Surface Transportation Efficiency Act (ISTEA) mandated that larger Metropolitan Planning Organizations (MPO's) in air quality non-attainment areas, such as SJTPO, develop and maintain a Congestion Management Process (CMP) for their region. The CMP provides SJTPO with comprehensive, regularly updated data on congestion and its causes, along with methods for screening and evaluating strategies to address the problems. During FY 1998, the then-CMS for the SJTPO region became fully operational, and subsequent enhancements have been made to SJTPO's CMP, notably, the use of the South Jersey Travel Demand Model as the primary technical tool. The newly updated South Jersey Travel Demand Model will be continue to be utilized as a tool, as well as NJ DOT's CMS program.

### **Activities and Products:**

1. Operate SJTPO's Congestion Management Process.
2. Develop additional performance measures at the corridor and facility level to examine causes and duration of congestion. Link to performance goals, development of location specific needs and alternative analysis (strategy level), documented methodology to evaluate external problem statements, illustrate prioritized list of needs to be incorporated back into RTP.
3. Operate CMP tools, such as the SJTPO Travel Demand Model, the existing NJ DOT CMS program as well as the new CMS-21 program for selected output measures and on-call planning activities.
4. Investigate and operationalize the use of additional sketch-planning tools that will enhance the SJTPO's CMP.

**Funding:** Estimated cost is \$100,000

**Federal Aid Agreement:** PL-11(051)

**Program Manager:** David Heller



## **Task 15/117: PUBLIC INVOLVEMENT and Title VI**

### **Objective:**

A major thrust of ISTEA was the promotion of greater public involvement in transportation planning and decision-making, with MPO's playing a central role. SJTPO has a formal Public Involvement Policy describing the procedures it will follow, which was updated in 2010. Specific public involvement activities in other tasks supplement the more general activities in this task. Each sub-regional work program also supports SJTPO's public involvement.

### **Activities and Products:**

#### **Public Information**

1. The Citizens Advisory Committee was reconstituted in FY2014 as a means to enhance our public participation process, and the CAC will be active throughout FY2015.
2. Continue to utilize the SJTPO homepage [www.sjtpo.org](http://www.sjtpo.org) to provide information and features, and as a means to solicit public comment. Visualization components will be added to the website when available to aid in portraying issues and in describing planning priorities.
3. Develop a prototype for a user-driven, web-enabled interactive project search and mapping application, as has been implemented by other MPOs.
4. In conjunction with Task 2, investigate and institute additional methods of increasing our public involvement and awareness of the SJTPO as a whole as well as its mission. These methods will include a greater incorporation of social media as well as the use of other new technologies.
5. Issue the SJTPO *On the Go* newsletter for regular communication to a wide audience.

#### **Title VI / Environmental Justice**

1. Remain current on Title VI activities, monitor federal and state requirements, review contract documents for conformance with applicable policies
2. Use current data to map areas of under-served, low income, minority, disabled, and the elderly in preparing the next RTP Update.
3. Update the demographic profile of region that identifies the locations of populations of concern using the latest available data.
4. Analyze the TIP with respect to the impact of SJTPO projects on Title VI/EJ populations of concern.

**Funding:** Estimated cost is \$50,000

**Federal Aid Agreement:** PL- ( )

**Program Managers:** David Heller (CAC), Alan Huff (Public Information, EJ analysis), Teresa Thomas (Title VI)

## **ACTIVITY 15/120: SAFETY**

### **Task 15/121: SJTPO TRAFFIC SAFETY EDUCATION PROGRAMS**

#### **Objective:**

This task funds SJTPO's traffic safety programs and provides operational, administrative, and technical support for the South Jersey Traffic Safety Alliance (SJ TSA), a creation of SJTPO, the NJ Division of Highway Traffic Safety, and the Federal Highway Administration. The Alliance brings together traffic safety professionals from the fields of enforcement, education, emergency services, engineering and planning to advise SJTPO on traffic safety education, enforcement, and outreach.

#### **Activities and Products:**

1. Continue to secure grants for SJTPO traffic safety programs.
2. Continue with on-going programs such as: the Child Passenger Safety Seat Inspection Campaign, Car-Fit for Seniors, The Most Deadly Place on Earth (presentation for teen drivers). and others.
3. Attend meetings to share information on the SJTPO's programs and stay informed as to what others are doing to address traffic safety issues.
4. Distribute materials and supplies to member agencies and the public. .
5. Maintain website [www.sjtsa.org](http://www.sjtsa.org), and produce and distribute quarterly newsletter.

**Funding:** Estimated cost is \$100,000

**Federal Aid Agreement:** PL- ( )

**Program Manager:** Teresa Thomas

## **Task 15/122: SAFETY OUTREACH AND RESEARCH**

### **Objective:**

This task will extend SJTPO's safety programs to local communities. SJTPO will reach out to government agencies, schools, community service organizations, and other appropriate agencies to build upon its successful program and undertake new initiatives. SJTPO will serve as a key technical resource in terms of data collection, public involvement, and organizational support.

### **Activities and Products:**

1. Work with community organizations to advance local safety initiatives.
2. Establish or support County-level Community Traffic Safety Programs in the SJTPO region.
3. Partner with the Delaware Valley Regional Planning Commission and the North Jersey Transportation Planning Authority to expand the Share the Keys teen driving program statewide and into Pennsylvania.

**Funding:** Estimated cost is \$50,000

**Federal Aid Agreement:** PL- ( )

**Program Manager:** Timothy Chelius

# **ACTIVITY 15/130: PROJECT DEVELOPMENT AND PROGRAMMING**

## **Task 15/131: TRANSPORTATION IMPROVEMENT PROGRAM**

### **Objective:**

This task prepares and maintains the region's Transportation Improvement Program (TIP), which is an annually updated ten-year list of projects scheduled for federal and state funding. The TIP has been the central component of the federal transportation planning process since its inception, and became even more important under the federal Intermodal Surface Transportation Efficiency Act (ISTEA) because of the greater role in decision-making provided to Metropolitan Planning Organizations. Please go to <http://www.sjtpo.org/tip.html> to review SJTPO's TIP.

1. Complete final FY 2015-2018 TIP
2. Process TIP amendments and modifications needed throughout the year via E-STIP.
3. Monitor the progress of projects through the SJTPO/NJDOT Study and Development process, which develops candidate projects for future inclusion in the TIP. Identify and prioritize new projects to enter the program and coordinate with NJDOT's annual selection process.
4. Identify and screen candidate projects to enter the FY 2015-2024 TIP project selection pool.
5. Work with the State to develop the financial plan for the TIP.
6. Manage the TIP review process and conduct public involvement.

**Funding:** Estimated cost is \$220,000

**Federal Aid Agreement:** PL- ( )

**Program Manager:** Jennifer Marandino

## **Task 15/132: AIR QUALITY PLANNING**

### **Objective:**

Metropolitan Planning Organizations (MPO's) are responsible for assuring conformity of transportation decisions with the air quality State Implementation Plan (SIP) and the federal 1990 Clean Air Act Amendments. They are also called upon to participate in a variety of Statewide air quality planning efforts and must represent their region's interests in transportation air quality matters..

### **Activities and Products:**

1. Coordinate with Statewide transportation air quality planning efforts, including:
  - a. Monitoring the development of SIP revisions and providing input to represent the region's interests when needed. This task includes ensuring the adequacy of emissions budgets for the SJTPO region to maintain a conforming Regional Transportation Plan and TIP.
  - b. Participating in completion of the State conformity rule and in clarifying procedures under it.
2. Conduct any procedures required under transportation conformity regulations for adoption of any Year 2040 Regional Transportation Plan amendments (as required), FY 2014-2023 Transportation Improvement Program and amendments thereto, and for development of the FY 2015-2024 Transportation Improvement Program, including as needed:
  - a. Classifying projects for analysis.
  - b. Managing conformity analysis by consultants.
  - c. Conducting interagency consultation procedures.
  - d. Preparing formal documents.
3. Continue work on greenhouse gas issues, including:
  - a. Expand greenhouse gas (GHG) emissions inventory to include SJTPO region.
  - b. Evaluation of GHG emissions impacts of various land use/transportation scenarios for the 2040 Regional Transportation Plan.
  - c. Participation in efforts spearheaded by the NJDEP to create a stronger link between federally-mandated MPO activities such as long-range transportation plans and TIPs and state-mandated GHG targets.
  - d. Use, evaluation, and transfer to subregions of user-friendly tools to help identify, prioritize, and implement cost-effective strategies to reduce the carbon footprint of municipal and/or county operations.

**Funding:** Estimated cost is \$150,000

**Federal Aid Agreement:** PL- ( )

**Program Manager:** David Heller

## **Task 15/133: LOCAL PRELIMINARY ENGINEERING AND DESIGN PROGRAM**

### **Objective:**

Since 1995, SJTPO has managed a program allowing subregions to participate in the federal project development process. This completes the feasibility assessment, preliminary engineering, and environmental clearances that are prerequisite to securing federal funds through the TIP. Federally funded design projects may also be included in this activity. The typical final step in federally funded project development is design, and scoped projects frequently proceed immediately to this step. SJTPO also funds and manages design for selected projects as a service to its member agencies.

### **Activities and Products:**

1. Issue requests for proposals and manage consultant selection.
2. Manage the associated task order and contracting processes.
3. Direct the ongoing work, including reviewing progress reports and products for payment approval and coordinating with NJDOT - Local Government Services.
4. Track technical issues in order to predict project readiness for inclusion in the project pool.

**Funding:** Estimated cost is \$50,000

**Federal Aid Agreement:** PL- ( )

**Program Manager:** Jennifer Marandino

## **ACTIVITY 15/140: PROGRAM ADMINISTRATION**

### **Task 15/141: ADMINISTRATION AND INTERNAL MANAGEMENT**

#### **Objective:**

This task provides the internal management and administrative work necessary to sustain the Central Staff operation, including grant management.

#### **Activities and Products:**

1. Maintain SJTPO office budget and expense records, prepare time sheets, conduct procurement activities, develop related records, and complete other grant procedures.
2. Oversee and manage SJTA financial administration, including findings of independent audit conducted in FY 2014.
3. Monitor progress and submit grant progress reports and close outs.
4. Conduct human resource management activities.

**Funding:** Estimated cost is \$100,000

**Federal Aid Agreement:** PL- ( )

**Program Manager:** Monica LoGuidice

## **Task 15/142: BOARD AND COMMITTEE SUPPORT**

### **Objective:**

This task provides the routine support for the Policy Board, the Technical Advisory Committee, Citizens' Advisory Committee, Congestion Management Process Advisory Committee, and any ad hoc committees not specifically dedicated to other tasks.

### **Activities and Products:**

1. Arrange locations and times for meetings, issue Open Public Meetings Law notices.
2. Formulate and distribute agendas, make meeting reminder calls, release cancellation notices.
3. Assemble member credentials, update meeting mailing lists and membership rosters, and compile other contact lists.
4. Produce meeting materials, copy and distribute materials supplied by others.
5. Prepare for and attend meetings, take and transcribe minutes, maintain records.
6. Produce resolutions and correspondence, and assist officers and chairs.
7. Answer requests from both members and outside sources, refer information.
8. Maintain and update SJTPO website.

**Funding:** Estimated cost is \$60,000

**Federal Aid Agreement:** PL- ( )

**Program Manager:** Monica LoGuidice



**Task 15/143: UNIFIED PLANNING WORK PROGRAM**

**Objective:**

This task will prepare the Unified Planning Work Program (UPWP) for the coming years to describe all transportation planning and transportation-related air quality planning activities for the region and to document the allocation of federal transportation planning funds. The UPWP essentially serves as the master regional transportation planning funding application. The general content of the UPWP will reflect the requirements applicable to Metropolitan Planning Organizations (MPO's) that are designated as Transportation Management Areas.

**Activities and Products:**

1. Direct development of FY 2016 work program for the subregions and technical studies.
2. Develop the FY 2016 Central Staff work programs in coordination with member agencies, including special consideration at TAC and/or special meetings.
3. Compile the FY 2016 UPWP documents, prepare the budgets, and coordinate the MPO reviews.
4. Process UPWP amendments and related contract modifications.
5. Prepare Self-Certification documents, coordinate with federal agency representatives, complete other procedures related to compliance with federal requirements, and keep current on changes in requirements.

**Funding:** Estimated cost is \$30,000

**Federal Aid Agreement:** PL- ( )

**Program Manager:** Timothy Chelius

## **Task 15/144: SUBREGIONAL AND TECHNICAL PROGRAM MANAGEMENT**

### **Objective:**

SJTPO Central Staff oversees the four county Subregional Transportation Planning Programs, including coordinating and reviewing the work through the year. In addition, it manages the technical studies performed by consultants or member agencies. This task also covers managing the task order and contracting process for these programs, as well as technical assistance when appropriate.

### **Activities and Products:**

1. Manage the task order and contracting processes.
2. Manage the technical studies, including preparation of the scope of work, consultant selection, and direction throughout the study.
3. Review progress reports and technical products from the subregional programs and technical studies for approval throughout the year.
4. Provide technical assistance to or participate in the studies and subregional program activities, as appropriate.

**Funding:** Estimated cost is \$95,149

**Federal Aid Agreement:** PL- ( )

**Project Managers:** Subregional Program – Michael Reeves  
Technical Program - Various

## **FINANCIAL ADMINISTRATION**

### **Task 15/201: FINANCIAL AND ADMINISTRATIVE SERVICES**

#### **Objective:**

SJTPO provides funding to a governmental agency for financial administration and subcontracting on behalf of SJTPO with the counties and consultants, human resources, information technology, and payroll.

#### **Activities/Products:**

1. Execute agreements, task orders, and modifications to receive SJTPO's federal funding from NJDOT, and pass SJTPO funds to SJTPO counties and consultants.
3. Provide all financial services necessary to support SJTPO operations, including development of billing rates, purchasing, payroll administration, and annual audit.
4. Provide all financial control and accounting activities necessary to support the contracts with counties and consultants.
5. Provide SJTPO with IT services.

**Funding:** Estimated cost is \$50,000

**Federal Aid Agreement:** PL-11(051)

# **FY 2015 SJTPO SUBREGIONAL TRANSPORTATION PLANNING PROGRAM**

## **Task 15/301: ATLANTIC COUNTY FY 2015 SUBREGIONAL TRANSPORTATION PLANNING PROGRAM**

### **Objective:**

Improve the efficiency of the region's transportation network and system by participating in Subregional transportation planning efforts. Develop, implement and administer the County's Subregional Work Program. Review and update the information base needed for transportation planning activities. Develop County Transportation Improvement and Study and Development programs and assist SJTPO in their TIP development process. Coordinate the County's transportation planning with SJTPO and other related organizations that support public involvement.

### **Activities and Products:**

#### **Tasks I and II of the County Work Program**

1. Develop FY 2016 County Subregional Work Program.
2. Provide SJTPO with all traffic counts taken by the County in FY 2015.
3. Provide SJTPO with construction- ready road projects or other (e.g., scoping) projects to be included in the SJTPO TIP.
4. At the request of SJTPO, review, comment and (as needed) participate in, various SJTPO plans, projects and activities.
5. Develop, or participate in the development of, transportation-related plans, projects and activities at the municipal, county, regional and state level.
6. Actively solicit public participation in the County's transportation planning process.
7. Continue to administer three County Transportation Development Districts (TDD's), including a review of TDD projects.

#### **Tasks III of the County Work Program- County Master Plan Update**

This Update will involve a review and revision of the parameters, assumptions and baseline data of the 2001 County Master Plan in order to evaluate the current state of transportation in the County. Staff will revise existing policies and create new policies as appropriate. Special attention will be given to transit, bicycle and pedestrian modes to examine opportunities for implementation of "complete streets" policies. The project will be completed by County staff.

**Funding:** Estimated cost of the Task III Supportive Study is **\$ 62,000**  
Estimated total program cost is **\$ 115,000**

Federal/Local share breakdown of total cost is:

Federal Share (80%) - \$92,000

County Match (20 %) - \$23,000

**Project Manager:** William Schiavi

**Task 15/302: CAPE MAY COUNTY FY 2015 SUBREGIONAL  
TRANSPORTATION PLANNING PROGRAM**

**Objective:**

Improve the efficiency of the region's transportation network and system by participating in Subregional transportation planning efforts. Develop, implement and administer the County's Subregional Work Program. Review and update the information base needed for transportation planning activities. Develop County Transportation Improvement and Study and Development programs and assist SJTPO in their TIP development process. Coordinate the County's transportation planning with SJTPO and other related organizations that support public involvement.

**Activities and Products:**

**Tasks I and II of the County Work Program**

8. Develop FY 2016 County Subregional Work Program.
9. Provide SJTPO with all traffic counts taken by the County in FY 2015.
10. Provide SJTPO with construction- ready road projects or other (e.g., scoping) projects to be included in the SJTPO TIP.
11. At the request of SJTPO, review, comment and (as needed) participate various SJTPO plans, projects and activities.
12. Develop, or participate in the development of, transportation-related plans, projects and activities at the municipal, county, regional and state level.
13. Actively solicit public participation in the County's transportation planning process.

**Tasks III of the County Work Program- County Transportation Plan Update**

Update the Transportation Element of the Cape May County Comprehensive Plan to meet the requirements of the County Enabling Act. The project will be completed by a consultant and by County staff.

**Funding:** Estimated cost of the Task III Supportive Study is **\$ 15,000**  
Estimated total program cost is **\$ 58,000**

Federal/Local share breakdown of total cost is:  
Federal Share (80%) - \$46,400  
County Match (20 %) - \$11,600

**Project Manager:** William Schiavi

**Task 15/303: CUMBERLAND COUNTY FY 2015 SUBREGIONAL  
TRANSPORTATION PLANNING PROGRAM**

**Objective:**

Improve the efficiency of the region's transportation network and system by participating in Subregional transportation planning efforts. Develop, implement and administer the County's Subregional Work Program. Review and update the information base needed for transportation planning activities. Develop County Transportation Improvement and Study and Development programs and assist SJTPO in their TIP development process. Coordinate the County's transportation planning with SJTPO and other related organizations that support public involvement.

**Activities and Products:**

**Tasks I and II of the County Work Program**

1. Develop FY 2016 County Subregional Work Program.
2. Provide SJTPO with all traffic counts taken by the County in FY 2015.
3. Provide SJTPO with construction- ready road projects or other (e.g., scoping) projects to be included in the SJTPO TIP.
4. At the request of SJTPO, review, comment and (as needed) participate various SJTPO plans, projects and activities.
5. Develop, or participate in the development of, transportation-related plans, projects and activities at the municipal, county, regional and state level. Identify areas, facilities and projects for transportation improvements.
6. Actively solicit public participation in the County's transportation planning process.

**Tasks III of the County Work Program- Intersection Improvement Analysis**

This project will identify intersections that are to be targeted for improvement analysis. The necessary technical analysis of selected locations will be completed to determine appropriate intersection improvements, and the design of intersection improvements will be prepared as appropriate. The project will be completed by a consultant and County staff.

**Funding:** Estimated cost of the Task III Supportive Study is **\$ 50,000**  
Estimated total program cost is **\$ 90,500**

Federal/Local share breakdown of total cost is:

Federal Share (80%) - \$72,400

County Match (20 %) - \$18,100

**Project Manager:** William Schiavi

**Task 15/304: SALEM COUNTY FY 2015 SUBREGIONAL  
TRANSPORTATION PLANNING PROGRAM**

**Objective:**

Improve the efficiency of the region's transportation network and system by participating in Subregional transportation planning efforts. Develop, implement and administer the County's Subregional Work Program. Review and update the information base needed for transportation planning activities. Develop County Transportation Improvement and Study and Development programs and assist SJTPO in their TIP development process. Coordinate the County's transportation planning with SJTPO and other related organizations that support public involvement.

**Activities and Products:**

**Tasks I and II of the County Work Program**

1. Develop FY 2016 County Subregional Work Program.
2. Provide SJTPO with all traffic counts taken by the County in FY 2015.
3. Provide SJTPO with construction- ready road projects or other (e.g., scoping) projects to be included in the SJTPO TIP.
4. Review, comment and (as needed) participate in various SJTPO projects and planning activities.
5. Develop, or participated in the development of, transportation-related plans, projects and activities at the municipal, county, regional and state level.
6. Actively solicit public participation in the County's transportation planning process.
7. Assist in the preparation of the Salem County element of the SJTPO FY 2015 Human Service Transportation Plan Update.

**Tasks III of the County Work Program- consists of two separate projects -**

1. **Update County Growth Management Plan** (last completed in 1999). This will involve a review and reevaluation of the goals, strategies and tasks, as well as the growth and conservation planning areas identified in the 1999 Plan as compared to the current State Strategic Plan, County Agricultural Development Area Plan, municipal plans and zoning maps, and other relevant plans and documents.
2. **Update the County Road functional classification system and system design standards** based on a review of the current State Functional Classification System, county road traffic volume maps and data, and other relevant plans and information.

Projects 1 and 2 above will be completed by County Planning and Engineering staff with the assistance of a consultant or consultants (to be retained for these projects).

**Funding:** Estimated cost of the Task III Supportive Study is **\$30,000**  
Estimated total program cost is **\$58,000**

Federal/Local share breakdown of total cost is:  
Federal Share (80%) - \$46,400  
County Match (20 %) - \$11,600

**Project Manager:** William Schiavi

## **FY 2015 TECHNICAL PROGRAM**

### **TASK 15-401: PROFESSIONAL AND TECHNICAL SERVICES**

This task will fund specialized services to support implementation of SJTPO's existing 2040 Regional Transportation Plan and future 2040 Regional Transportation Plan Update, (to be adopted in July 2016), such as further travel demand model development, public involvement, marketing, and others. Other tasks may include additional air quality assistance, such as installation and testing of MOVES upgrades, development and testing of MOVES-based motor vehicle emissions budgets, and/or development of input data for future State Implementation Plan (SIP) emissions inventories. Other tasks may include: additional data collection (such as traffic counts), and demographic updates. Beyond professional services to support ongoing efforts to improve SJTPO's capacity in Congestion Management and Fiscal Planning, this funding may also be used to support initiatives in scenario – based planning and innovative public involvement, as called for in SJTPO's 2040 Regional Transportation Plan and required in MAP-21.

**Funding:** \$100,000

**Federal Aid Agreement:** PL- ( )

**Project Manager:** David Heller

### **Task 15-402: REGIONAL COORDINATED HUMAN SERVICE TRANSPORTATION PLAN UPDATE**

In cooperation with NJ Transit, the four MPO counties and local officials and agencies, SJTPO will manage the preparation of the FY 2015 Human Service Transportation (HST) Plan Update. The FY 2010 HST Plan Update identified transportation system coordination models and provided recommendations for county HST system coordination efforts. The focus of the 2015 Update will be to provide applicants for the JARC, New Freedom and 5310 grant programs with a document that will support their applications (as required by NJ Transit). The 2015 Plan will, for each of the four SJTPO counties, provide

- An overview of each county, including a demographic profile, focusing on the demographics of the transit-dependent segment of the population
- Information on current public and private HST providers, including service area, period of operation, number of riders, and type of riders or clients served
- An overview of current and planned county HSTP coordination efforts



- A list and description of specific HST projects being proposed by HST providers
- A list and discussion of current unmet HST needs and gaps
- A discussion of general and specific goals and strategies for meeting unmet HST needs, maintaining current levels of service, and promoting HST system coordination at the county and/or regional level
- Recommendations for implementing the above strategies, including the formation or continuation of county HST coordination committees

**Funding:** \$100,000

**Federal Aid Agreement:** PL- ( )

**Project Manager:** Mike Reeves

### **Task 15-403: SOUTH JERSEY TRAVEL DEMAND MODEL RECALIBRATION AND IMPROVEMENTS**

As part of the FY 2014 Work Program, a household travel survey was conducted in the SJTPO region. Although the travel survey provides a lot of interesting information on travel behavior, the main purpose behind doing the survey is to use its results to recalibrate and improve validation of the South Jersey Travel Demand Model (SJTDM). A household survey is one of the chief data sources used in calibrating and validating travel demand models. The SJTDM currently contains household travel behavior data from an older survey conducted in 2000. The fact that the new SJTDM is calibrated against a household travel survey that is almost 14 years old makes this a significant drawback to the model, especially as travel behavior has changed quite significantly over the last several years. This task was originally lumped in with the Household Survey Task that was conducted in FY 2014, but due to the stringent UPWP ending date of June 30, 2014, it had to be split across two different UPWPs.

For this task, the model will be recalibrated to the new survey and will be validated against traffic counts conducted in recent years. The consultant will be required to input the new household data into the model, adapting the model to incorporate new household variables collected from the survey. The consultant will work with SJTPO to incorporate recent traffic counts into the model network, applying growth factors as needed, to serve as a basis for validation. The recalibrated model should produce traffic volumes that match real-world counts as closely as possible across the region, and on all functional classifications. The recalibrated model should also be validated against vehicle miles traveled (VMT) estimates produced by NJDOT's Highway Performance Monitoring System (HPMS).

Other improvements may be requested pending data availability. If updated roadway function classifications are implemented by NJDOT, then the travel model network should be updated to incorporate these. If sufficient data on recreational travel in the region is available, then the consultant may be requested to update the SJTDM's recreational trip module as well. Changes to model output formatting to improve compatibility with air quality modeling software may also be requested.

**Funding:** \$100,000

**Federal Aid Agreement:** PL- ( )

**Project Manager:** Andrew Tracy

## **TASK 15/404: SIGN MANAGEMENT SYSTEM DATA COLLECTION**

Background: In 2007, the Manual of Uniform Traffic Control Devices (MUTCD) established new requirements to maintain nighttime sign visibility. Regulatory and warning signs must be maintained at minimum retroreflectivity levels through the use of an assessment or management method. Data collection efforts will be utilized to assist those within the SJTPO subregional develop an appropriate method.

Over the past six years, SJTPO has invested in the creation of a pavement condition and roadside asset inventory for all county roads within the region as well as municipal roadways in the City of Vineland. The data collection efforts include a complete video log of roadways within the region and an inventory of roadside assets such as signs, sign posts, guiderails, and other roadway drainage assets.

Within the SJTPO region there are a total of approximately 60,600 signs currently inventoried. This includes approximately 19,600 in Atlantic County, 11,800 in Cape May County, 14,800 in Cumberland County, 7,800 in Salem County, and 6,600 in the City of Vineland.

The contractor shall utilize the existing inventory of sign data and enhance the database to add functionality to evaluate the sign retroreflectivity compliance with MUTCD standards. As part of this task, the contractor will be required to collect sign retroreflectivity measurements for all regulatory and warning signs in the inventory using an MUTCD-compliant method.

It is desired for the asset management system to be “in the cloud” with limited dependence on proprietary software packages which require licensing fees. The system shall be user friendly and not require extensive training or expert knowledge to fully utilize. The new sign inventory software should provide users with the capability to select signs from a map and to generate a list of signs along a specified roadway. The system should also allow users to update the entry for a sign if it is repaired or replaced along with the capability to add new signs and posts as needed. These features have been requested by SJTPO subregions that seek to use the software.

**Funding:** \$300,000

**Federal Aid Agreement:** PL- ( )

**Project Manager:** Jennifer Marandino

## **TASK 15-405: HIGHWAY SAFETY MANUAL CALIBRATION**

Background: Traffic counts are an important transportation data collection function, serving as the backbone for various projects, including estimating traffic growth, traffic modeling, project development as well as crash predictions.

Published in 2010, the Highway Safety Manual (HSM) works to balance safety with the competing interests of jurisdictions such as capacity, construction costs, and environmental concerns. Within the manual, the use of Safety Performance Functions (SPFs) allows users to predict the number of crashes for a particular facility. However, the crash prediction models were developed based upon national data, which may vary significantly among jurisdictions. The HSM recommends SPFs be calibrated to more accurately reflect a specific jurisdiction's unique roadway characteristics, driver behavior, etc. Traffic count data collection associated with this task will assist with efforts to calibrate the HSM SPFs, specifically at four-legged unsignalized and signalized intersections within the SJTPO region.

An important component of the calibration efforts is data collection, both in the form of traffic counts as well as critical data elements. This task covers data collection activities needed to calibrate the Part C safety performance functions to the uniqueness of the SJTPO region. Data collection may be in the form of daily traffic counts and/or turning movement counts.

**Funding:** \$150,000

**Federal Aid Agreement:** PL- ( )

**Project Manager:** Jennifer Marandino

## **TASK 15-406: LOCAL SAFETY PROJECT DEVELOPMENT**

Background: Each federal fiscal year, money is set aside to be utilized for highway safety in the form of the Highway Safety Improvement Program (HSIP). The purpose of this program is to achieve a significant reduction in traffic fatalities and serious injuries on all public roads. In order to achieve a reduction, SJTPO works closely with their subregional partners.

Through an appropriate network screening of the roadways in the SJTPO region, projects are identified with the intent of improving the hazardous roadway feature and address the safety problem. These improvements, sometimes identified through a Road Safety Audit, are both short- and mid- term recommendations. From these recommendations, SJTPO subregional partners identify safety improvement projects.

Safety improvements, funded through HSIP, must be construction-ready and deliverable within a short period of time. In order to help facilitate, SJTPO will provide consultant support to project sponsors in developing projects for federal HSIP funding. The assistance will include the form of preparation of final plans, specifications, and cost estimates (PS&E) as well as other activities, which would support the project sponsors in their preparation of the PS&E packages.

**Funding:** \$150,000

**Federal Aid Agreement:** PL- (     )

**Project Manager:** Jennifer Marandino

# **NON-MPO-FUNDED TRANSPORTATION PLANNING ACTIVITIES**

**15/501:            NEW JERSEY DEPARTMENT OF TRANSPORTATION  
NON-MPO-FUNDED TRANSPORTATION PLANNING ACTIVITIES**

For information on NJDOT planning activities, please contact the NJDOT Bureau of Statewide Planning at 609-530-2884

**15/502:            NEW JERSEY TURNPIKE AUTHORITY  
NON-MPO-FUNDED TRANSPORTATION PLANNING ACTIVITIES**

NJTA response anticipated by March 1, 2014.

**15/503:            DELAWARE RIVER AND BAY AUTHORITY  
NON-MPO-FUNDED TRANSPORTATION PLANNING ACTIVITIES**

DRBA response anticipated by March 1, 2014.