

FY 2003 OVERALL WORK PROGRAM

Approved by the OMPO Policy Committee on May 28, 2002

FTA Section 5303 Metropolitan Planning Program HI-80-2011
FTA Section 5313(b) State Planning & Research Grant HI-80-9011
FHWA Project PL-052(25)

Prepared by

OAHU METROPOLITAN PLANNING ORGANIZATION

In Cooperation with
Its Participating Agencies

State Department of Transportation
State Department of Business, Economic Development, and Tourism
City and County Department of Transportation Services
City and County Department of Planning and Permitting

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GLOSSARY OF ABBREVIATIONS

Abbreviation	Definition
AHI	Akamai Highway System
BMS	Bridge Management System
CAC	Citizen Advisory Committee (OMPO)
CFR	Code of Federal Regulations
CIP	Capital Improvement Programs
CMAQ	Congestion Mitigation and Air Quality
CMS	Congestion Management System
COA	Comprehensive Operations Analysis
CTCS	Computerized Traffic Control System
DBE	Disadvantaged Business Enterprise
DBEDT	Department of Business, Economic Development, and Tourism (State)
DEIS	Draft Environmental Impact Statement
DOT	Department of Transportation (State)
DP	Development Plan
DPP	Department of Planning and Permitting (City)
DTS	Department of Transportation Services (City)
DUI	Driving Under the Influence
EIS	Environmental Impact Statement
EJ	Environmental Justice
EPA	Environmental Protection Agency
FAA	Federal Aviation Administration
FEIS	Final Environmental Impact Statement
FHWA	Federal Highway Administration

FMS	Freeway Management System
FTA	Federal Transit Administration (Formerly Urban Mass Transportation Administration)
FY	Fiscal Year (July 1st through June 30th)
GIS	Geographical Information System
GPI	OMPO Guide to Public Involvement in the Metropolitan Transportation Planning Process
HIA	Honolulu International Airport
HOV	High Occupancy Vehicle
HPMS	Highway Performance Maintenance System
HRS	Hawaii Revised Statutes
HSS	Highway Safety Staff (DOT)
IMS	Intermodal Management System
ISTEA	Intermodal Surface Transportation Efficiency Act of 1991
ITS	Intelligent Transportation Systems
Local M	Local funds (City and/or State funds) used to match federal funds
Local S	Local funds (City and/or State funds) used to supplement work activity
LOTMA	Leeward Oahu Transportation Management Association
MCS	Motor Carrier Staff (DOT)
MIS	Major Investment Study
MPO	Metropolitan Planning Organization
NAS	Naval Air Station
NHS	National Highway System
NPTS	Nationwide Personal Transportation Survey
OMB	Office of Management and Budget
OMPO	Oahu Metropolitan Planning Organization

ORTP	Oahu Regional Transportation Plan
OP	Office of Planning (State)
OTS	Oahu Transit Services, Inc. (City bus management contractor)
OWP	Overall Work Program
PCTS	Primary Corridor Transportation Study
PIP	Public Involvement Plan
PL	Federal Highway Administration planning funds
PMS	Pavement Management System
PTMS	Public Transportation Management System
PUC	Primary Urban Center
ROW	Right-of-way
SASP	State Airport System Plan
SHD	State Highways Division (DOT)
SMS	Highway Safety Management System
STIP	Statewide Transportation Improvement Program
STP	Surface Transportation Program (FHWA)
TAC	Technical Advisory Committee (OMPO)
TAZ	Traffic Analysis Zone
TCSP	Transportation and Community and System Preservation Program
TDM	Transportation Demand Management
TEA21	Transportation Equity Act for the 21st Century
TIP	Transportation Improvement Program
TMA	Transportation Management Area
TMC	Traffic Management Center
TMS	Traffic Monitoring System
TSM	Transportation Systems Management

USC	United States Code
USDOT	United States Department of Transportation
WE	Work Element
3-C	Continuing, Cooperative, Comprehensive
§	Section

EXECUTIVE SUMMARY

The Overall Work Program (OWP) serves as the key management tool for monitoring State and City transportation planning activities on Oahu. The OWP defines project objectives and tasks and identifies budgetary and staff requirements needed to carry out the projects. In addressing current transportation issues and problems, the OWP responds to local planning requirements, federal transportation priorities, and the Transportation Equity Act for the 21st Century (TEA21) requirements. The process of developing the annual OWP reflects a closely coordinated effort among the Oahu Metropolitan Planning Organization (OMPO), the State Departments of Transportation (DOT) and Business, Economic Development, and Tourism (DBEDT), and the City and County of Honolulu Departments of Transportation Services (DTS) and Planning and Permitting (DPP).

Funding Summary

The FY 2003 OWP (July 1, 2003– June 30, 2004) covers 32 planning studies or work elements (WE) listed in Sections II and III with a total budget of \$ 14,236,756. Much of this money (\$12,501,456) is budgeted for multi-year projects that have been approved in previous OWPs. All of these work elements are to receive funding assistance from the U.S. Department of Transportation (USDOT) through either the Federal Highway Administration (FHWA) or the Federal Transit Administration (FTA). Non-federal funds are provided by the State and City. Federal funds programmed for the FY 2003 work elements (found in Section II) total \$1,388,240. The remaining funding is from local matching funds totaling \$347,060. The work elements in Section IV are funded entirely with funds that do not have to be identified in the OWP or with local funds. They are included for informational purposes, as the importance of these projects can influence and benefit transportation on Oahu.

Transportation Planning

Transportation planning for Oahu is an integral part of the overall planning process of the State and the City. The OWP reflects this relationship through the inclusion of locally funded programs, processes, and projects. The OWP is organized into five broad planning areas listed here and described below:

1. Hawaii State Plan (Category 101)
2. Statewide Transportation Planning (Category 102)
3. Comprehensive Planning and Coordination (Category 103)
4. Transportation (Category 200)
5. Coordination of the Planning Program (Category 300)

The 100 series of planning efforts focuses on overall planning within the State, through the Hawaii State Plan (Category 101), and the City, through its General Plan and the Development and Sustainable Community Plans (Category 103). It also includes the development of a statewide transportation plan to guide the efficient movement of people and goods (Category 102). These categories are presented for informational purposes only, as they do not receive federal funds designated for transportation purposes.

The 200 series is devoted to supporting transportation planning. From Safety (Subcategory 200) to Regional Transportation Monitoring and Analysis (Subcategory 201.0), Long-Range Planning (Subcategory 202.0) to Short-Range Planning (Subcategory 203.0), Air Transportation (Subcategory 205.0) to Maritime Transportation (Subcategory 206.0) – this series describes the work elements that comprise transportation planning efforts underway on Oahu. Specific work elements are developed to support this holistic approach in a comprehensive and intermodal fashion. As expected, some of these work elements are broad in scope, from the development of a model application manual (Work Element 202.30-02) and the monitoring of Title VI and Environmental Justice requirements (Work Element 201.20-02), to the development of the Transportation Improvement Program (Work Element 202.07-02); while others are executed by individual State and City departments and agencies, sometimes using only local funds.

The 300 series of the OWP, Coordination of the Planning Program, recognizes the coordination requirements of transportation planning as well as the importance of public participation within the planning process. The various work elements provide staff support for the OMPO Policy Committee, Technical Advisory Committee (TAC), and Citizen Advisory Committee (CAC), the fiscal services required for federal participation in OWP activities, and OMPO's affirmative action for disadvantaged business enterprises. All of these work elements are funded with current funds and are in Section II.

Work Element Highlights

Subcategory 201.0 generally reflects ongoing regional transportation monitoring and analysis activities. An annual effort under this category is identified in WE 201.01 Population Employment Monitoring and Analysis, which provides relevant data and statistical tables depicting current population estimates, employment, and other socioeconomic data. This work element is funded entirely with State funds and can be found in Section IV. WE 201.15-01 Intelligent Transportation Systems is underway and will develop an integrated strategy and regional architecture for Oahu. The tasks in WE 201.01-01 Implementation of the Congestion Management System were revised in 2001 to look at ways that the ITS technology can be used by the CMS in order to minimize the manpower needed to collect CMS data. The work completed last year in the area of Title VI and Environmental Justice will continue with an additional work element (WE 201.20-02) to install a GIS system on a server that will make Title VI and Environmental Justice available to the OMPO participating agencies via the Internet.

Subcategory 202.0 includes activities that support regional and long-range planning efforts. These efforts include the development of the three-year programming document – the Transportation Improvement Program. Also included is a work element (WE 202.30-02) to train the OMPO and agencies' staffs to use the newly developed forecasting model for a variety of applications.

Past OWPs included an \$8.3 million study of the primary corridor from Ewa to East Honolulu (WE 202.20-99). Work is continuing through FY 2002. This study is being funded through FTA Section 5307 and a special directive included in the 1999 USDOT Supplemental Appropriations and Rescissions Act. This work element can be found in Section III.

Studies identified in the Short-Range Transportation Systems Management (TSM) Category 203.0 strive to improve the efficiency of our transportation system. A number of studies for this

category appear in Section III. These include FY 2000 subarea studies to improve traffic flows in Kaneohe and Manana (203.30-00 and 203.34-00), and improvements to bus and freight loading zones around special generators (203.32-00).

Many projects undertaken by OMPO and its participating agencies are multi-year activities and work will continue on several major planning efforts that were initiated in previous OWPs.

Public Participation

OMPO has always placed strong emphasis on public participation. Early involvement of a broad cross-section of the community is an essential element in planning Oahu's surface transportation system. Using the CAC as the base, input is solicited from various interest groups on documents and issues that are the responsibility of OMPO.

The CAC, with the help of the participating agencies, developed a Public Involvement Program (PIP) that emphasizes early involvement of the community in the planning process. The PIP was updated and renamed *The OMPO Guide to Public Involvement in the Metropolitan Transportation Planning Process (GPI)*. The GPI was circulated for public review and was approved by the Policy Committee. It will be reviewed during the next year and revised where needed.

The just completed Transportation for Oahu Plan 2025 (TOP 2025) effort included a number of public involvement methodologies to involve as many people as possible in the discussion of transportation planning and projects. Regional meetings, special interest group meetings, a telephone survey, and survey forms were all used as ways to collect input from the public.

This year, OMPO will review the list of transportation enhancement projects developed in 1998 and revise and reprioritize the projects. This work will involve gathering input from the CAC and the general public.

The *TOP 2025* was the primary focus of the CAC in FY 2001 and FY 2002. However, presentations were also made to the CAC on the Title VI and Environmental Justice monitoring program, the State bike plan, the Transportation Improvement Program (TIP), and the Statewide TIP. Additional issues were also introduced by CAC member organizations.

PLANNING PRIORITIES

The transportation goal for Oahu has been to develop and maintain our islandwide transportation system to ensure the efficient, safe, convenient, and economical movement of people and goods. Although air quality and other environmental concerns are very important to island residents and transportation planners, air quality issues do not drive Oahu's transportation planning process.¹ Rather, Oahu's transportation programs are more influenced by the need to provide increased mobility and congestion relief.

Oahu Regional Transportation Plan

The *TOP 2025*, endorsed by the OMPO Policy Committee in April 2001, identifies a multi-pronged approach in providing for future travel demand. It acknowledges that there is no single solution that will solve the congestion problem given the limited resources and the diverse needs of the community. The approaches identified in the *TOP 2025* include highway and transit construction and improvements; and TSM and transportation demand management (TDM) strategies

Transportation Forecasting Models

A major OMPO planning priority has been the development of new regional travel forecasting models. Because there were deficiencies in the previous models and there was a need to have a tool to more confidently evaluate proposed policies and programs, OMPO and its participating agencies allocated approximately \$2 million for this multi-year effort. This includes \$800,000 in state and county funds, which is an indicator of the local commitment. The new models were used in the PCTS and the most recent ORTP. The new forecasting tool, in conjunction with the congestion management system, will establish a strong planning foundation whereby transportation programs and projects can be evaluated and selected for funding and implementation. The State DOT and the City DTS recognize the need to maintain the new models, and are moving to provide staffing and resources for that effort. To this end, a work element to provide training and instructions to OMPO and the participating agencies staffs has been included (Work Element 202.30-02).

Intelligent Transportation Systems

City & County of Honolulu

Early Deployment Plan

The City and County of Honolulu led an effort to develop an Intelligent Transportation System (ITS) Early Deployment Program (EDP) for Oahu. The EDP Final was completed in May 1998 and outlines 25 recommended projects that were to be considered during the next update of the regional transportation plan. As a result of these efforts, the update of the regional transportation plan, the Transportation for Oahu 2025 (TOP 2025), completed in April 2001, programmed in excess of \$100 million to be spent for ITS projects over the next 25 years.

¹Oahu has been designated as neither a non-attainment nor maintenance area for transportation-related pollutants under the Clean Air Act Amendments of 1990.

Traffic Control Center

The City's Traffic Control Center (TCC) monitors Oahu's roadway conditions through the use of cameras (closed-circuit televisions (CCTV)) and controls Oahu's traffic signal systems. The City is planning to improve their TCC in the upcoming months. Improvements will include a new 1600 square foot facility to serve as a centralized transportation communication hub having extensive broadband capacity. The new hub station will include computer servers, communications, and networking equipment to collect, exchange, and distribute traffic information and resources to various agencies and partners. This will provide the City with the important infrastructure, capability, and capacity to participate in the next generation of ITS and Regional Architecture projects.

CCTV and Traffic Signal Control

There are currently 135 color video cameras installed at various locations around Oahu. The number of cameras will increase in the upcoming months to 143. These cameras provide real time pre-trip traveler information, provide real-time pre-trip traffic updates, and enable emergency management agencies to clear incidents quickly. They also provide and recommend alternative or diversionary routes through the use of media and websites. Future systems include kiosks, highway indicators, and dial-in voice systems. The cameras are useful in optimizing traffic signal timing to minimize congestion, detecting incidents, and validating mitigation efforts.

State of Hawaii

Freeway Management System (FMS)

The State of Hawaii's Department of Transportation (HDOT) has programmed funds to construct a freeway management system using ITS technologies and interagency coordination. The FMS will expand the ITS systems currently found on the H-3 Freeway installation and will include the ITS technologies of vehicle detectors, CCTV, and dynamic message signs, along the Moanalua, H-1 and H-2 Freeways. The FMS improvements will assist in monitoring and managing traffic operations and incidents.

Freeway Service Patrol

HDOT has programmed funds to deploy freeway Service patrols that have been successful in numerous U.S. jurisdictions. HDOT will use the funds to procure services to provide minor assistance to motorists (e.g., flat tire repairs, fuel, rides/tows off of the freeway, etc.), and assist emergency response agencies with managing and clearing freeway incidents.

Oahu Metropolitan Planning Organization

ITS Organizational Structure

On November 17, 2000, the OMPO Policy Committee finalized an organizational structure to address major ITS policy issues on Oahu involving City and State interests. This structure utilizes the existing planning process and is intended to ensure coordination of City and State ITS activities and consistency with the National ITS Architecture and standards.

FHWA-sponsored Workshops

Over the past year, with the City and the State, OMPO participated in the following FHWA and Hawaii Local Transportation Assistance Program (HLTAP) workshops:

- Honolulu Regional Architecture (Tier I) Workshop (February 21, 2001)
- Demonstration Project 105 Workshop (April 25-26, 2001)
- Using the National ITS Architecture for Deployment (June 13-14, 2001)
- Turbo Architecture Training Course (June 15, 2001)
- Honolulu Regional Architecture (Tier II) Workshop (July 31 - August 2, 2001)
- Intelligent Transportation System Procurement Workshop (October 26, 2001)

Regional Architecture

Through Work Element 201.15-01, OMPO has hired a consultant to assist in the development of a regional architecture for Oahu. The consultant will serve as an ITS integrator and resource specialist. They will provide technical advice, direction, and answers to facilitate systems integration and will assist OMPO in establishing a regional architecture for Oahu. As part of the regional architecture, the consultant will assist OMPO in establishing interagency agreements on interoperability, ITS standards, and routine operations as well as developing a plan to integrate the various systems that are operated by the City and State to implement a joint vision of the system.

The regional architecture for Oahu will be based on the National Architecture, as described in the federal regulations, 23 CFR 940.9. OMPO anticipates having its regional architecture in place in 2003. The federal deadline is February 7, 2005.

The regional architecture is comprised of the following components:

- Memorandum of Understanding (MOU) – The purpose of the MOU is to foster the coordinated and cooperative planning, development, implementation, and operation of ITS systems and services on Oahu. The need and level of detail in these agreements will be directly connected to the institutional and technical outcome of the architectural process. Two MOU's will be developed that will address regional traffic control and incident management.
- Operational Concept and Architectural Conceptual Design – The operational concept analysis will identify and define the roles of each agency and/or organization. Responsibilities of each will also be defined and will address the following: coordination, cooperation, consultation, design, implementation, operations, and maintenance. The architectural concept design will update the data flow diagrams using Turbo Architecture and will include an organization-to-organization matrix that details specific interfaces between agencies and/or organizations.

Management Systems

Under the USDOT Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA), Hawaii was required to develop a number of management systems. The State DOT took the lead in developing, establishing, and implementing systems for managing highway pavement of Federal-aid highways (PMS); bridges on and off Federal-aid highways (BMS); highway safety (SMS); traffic congestion (CMS); public transportation facilities and equipment (PTMS); and intermodal transportation facilities and systems (IMS).

National Highway System (NHS) Designation Act 1995 eliminated the federal requirement for most of the management systems. However, transportation management areas (TMAs) (of which Oahu is one) are still required to have a congestion management system in place. Work on the CMS has been underway for a number of years. The CMS Procedures and Responsibilities report was approved by the Policy Committee in April 2001. DOT will collect data to measure the effectiveness of certain strategies and projects that have been implemented since the development of CMS. Under OMPO's umbrella, the CMS Technical Committee will identify, evaluate, and recommend transportation strategies to address serious congestion problem locations. They will also review the results of project evaluations done by DOT and DTS.

In FY 2001, the OWP had a work element that included agency training session on how to process the raw data collected via the average-car technique. This work element (WE 201.01-01) was amended in FY 2002 to investigate and identify ways that ITS technology can be utilized for CMS use. In addition, the FY 2003 OWP includes a work element (WE 201.30-03) to build on this work by conducting field tests using the technology identified in the previous work element and producing a CMS evaluation report.

Other Studies

Recognizing the need to squeeze the maximum efficiency out of our transportation system, limited right-of-ways, funding constraints, and the long lead-time associated in getting a major roadway or transit project built, Oahu has and will continue to actively pursue and implement TSM/TDM measures

In FY 1999, the City began work on a Major Investment Study/Draft Environmental Impact Statement (MIS/DEIS) to examine mobility alternatives for the City's primary urban corridor from Ewa to East Honolulu (W.E. 202.20-99 Primary Corridor Transportation Study (PCTS)). Working synergistically with a parallel, but, separate public involvement effort called the Oahu Trans2K, the PCTS utilized the public input gathered from four rounds of public meetings/workshops held by the Trans2K team. The MIS/DEIS was released for public review on August 23, 2000. The public review period ended on November 6, 2000. The Bus Rapid Transit (BRT) Alternative was selected as the Locally Preferred Alternative by the Honolulu City Council on November 29, 2000. As a result of continuous public involvement and the input from project working groups, the BRT Alternative has been refined. Since the refinements are anticipated to have environmental impacts that were not disclosed in the MIS/DEIS, a Supplemental DEIS (SDEIS) was prepared and has undergone internal review. The SDEIS was released for public review in March 2002. Shortly after the end of the SDEIS public review period, the Final Environmental Impact Statement will be completed. The Record of Decision is programmed for the middle of 2002.

The public input collected during the Oahu Trans2K effort was incorporated into the update of the TOP 2025 that was approved in April 2001.

During FY 2003, the Department of Planning and Permitting will do work on developing a correspondence table for the revised Traffic Analysis Zones (TAZs) with the revised 2000 census blocks. This work will assist in the transportation modeling effort and the

implementation of the Title VI and Environmental Justice work. This work will be covered in WE 201.05-03 Census Data.

Public Participation

Public participation has been a strong emphasis of OMPO since its inception. Using the CAC as the base, input from various interest groups is encouraged for major plans generated through the transportation planning process. The OMPO *Guide to Public Involvement* (GPI) was approved by the Policy Committee. The CAC was a major contributor to the ORTP effort and formed a subcommittee to help develop the public participation element.

The *TOP 2025* incorporated an extensive public involvement program that included six regional meetings, a number of special interest focus groups, newspaper ads, a public opinion phone survey, and a final island-wide meeting. In all, close to 1000 people participated in the update effort.

Title VI and Environmental Justice (EJ) are also a major emphasis areas of OMPO. A consultant was hired to help update OMPO's evaluation procedures and to document OMPO's efforts. The consultant also helped update the OMPO GIS and databases used for evaluating plans and programs in the area of Title VI and EJ.

This year the CAC will review its *OMPO Guide to Public Involvement* and revise it where needed. It is also anticipated that the CAC will participate in the development of a revised list of enhancement projects to be funded with federal funds.

INTRODUCTION

The fiscal year (FY) 2003 OWP identifies transportation planning activities on Oahu programmed by OMPO and its participating agencies for FY 2003. It includes new and ongoing data collection and monitoring efforts, special studies, and support for the metropolitan transportation planning process. It serves as a management tool for monitoring State and City transportation planning activities.

Transportation planning activities using FHWA and FTA planning funds must be identified in this document. The OWP is then used as a support document for the application of these federal funds. Planning studies funded by other sources need not be identified in the OWP but may be included for informational purposes. For example, airport and harbor planning studies, which have been funded from dedicated funds and/or other federal funding sources, are only described in general terms under Subcategories 205.0 and 206.0, respectively.

The development of the OWP begins with the drafting of potential studies or work elements by OMPO, its participating agencies, and the public through input from the CAC. Agencies participating in this process for FY 2003 were the State DOT, State DBEDT, City DTS, and City DPP.

Work elements suggested by the public are forwarded to the appropriate State and City agency for their consideration as to whether or not the work fits into their planning program and/or funding is available. If the agency determines that they will be able to do the work, a draft work element is submitted to OMPO for inclusion in the OWP.

Draft work elements reflecting the planning needs of each participating agency are submitted to OMPO for coordination. These work elements may respond to requests made by the public, State Legislature, City Council or a federal agency; provide guidance for capital improvement projects; or be used to develop/promote transportation programs/policies.

OMPO coordinates the review of the draft work elements by staff members of the participating agencies, CAC, transportation management association, providers of private transportation services, TAC, Intermodal Planning Group (FTA, FHWA, Federal Aviation Administration (FAA), Maritime Administration, and Environmental Protection Agency), and intergovernmental review. (The comments received during the public review process and OMPO's responses to the substantive comments are included in Appendix A.) The document is then submitted to the OMPO Policy Committee for its endorsement.

The OWP is organized to show which work elements are new or newly funded for the current year (Section II); which work elements were approved previously and are either not completed or have not started (Section III); and which work elements have been included in the OWP for informational purposes only (Section IV). The work elements in this final group are funded entirely with local and other funds that do not have to be identified in the OWP.

All of the work element numbers include a suffix indicating the fiscal year in which the work element was funded. Work elements from previous OWPs have been approved and funding has

been secured. During the review process, comments are directed to those work elements being proposed for the current year (those with the suffix "03").

This document describes the planning priorities of the metropolitan planning area; and the organizational and management structures established to carry out the transportation planning program, the technical work program, and budget tables.

Federal law requires that the metropolitan planning process provide for consideration of projects and strategies that will address planning factors. These factors provide a framework to evaluate our planning program. Studies and projects should be considered in light of how they address these factors. As listed in TEA21, these planning factors are:

1. Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency.
2. Increase the safety and security of the transportation system for motorized and non-motorized users.
3. Increase the accessibility and mobility options available to people and for freight.
4. Protect and enhance the environment, promote energy conservation, and improve quality of life.
5. Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight.
6. Promote efficient system management and operation.
7. Emphasize the preservation of the existing transportation system.

OMPO ORGANIZATION AND MANAGEMENT

OMPO Organization

Federal regulations require the establishment of a metropolitan planning organization (MPO) for urbanized areas with a population of 50,000 or more as the vehicle for developing a 3-C (continuing, cooperative, and comprehensive) transportation planning process. Although OMPO has been designated the metropolitan planning organization for the urbanized areas of Honolulu and Kailua-Kaneohe, most of OMPO's planning/programming activities involve the entire island of Oahu.

Under the TEA21, an urbanized area with a population greater than 200,000 is designated a Transportation Management Area (TMA). These areas, which can be expanded upon joint agreement between the Governor and MPO, are given additional planning responsibilities. In this context, the entire island of Oahu has been designated a TMA.

The Policy Committee is the decision-making body of OMPO. This thirteen-member body consists of three State senators including the chair of the Senate committee on transportation, three State representatives including the chair of the House committee on transportation, five City councilmembers including the chair of the Council's committee with primary responsibility for transportation issues, the DOT Director, and the DTS Director.

The TAC advises the Policy Committee on technical matters. The membership of the TAC consists of technical staff members representing the State and City transportation and planning departments (DOT, DTS, DPP, and DBEDT) and includes, serving as non-voting members, the Managing Director of the Hawaii Transportation Association, a faculty member of the University of Hawaii with background in transportation or city planning; and a staff representative each from the FHWA, FTA, and FAA. The Comprehensive Agreement, describing the specific roles and responsibilities of the TAC and the CAC, was signed by the Governor, City Council Chair, and OMPO Chair in 2001, and reflects the changes outlined in TEA21 and the OMPO Certification Review completed in September 2000.

The CAC was established to provide public input to the Policy Committee on Oahu's transportation planning process. This body consists of representatives from community associations, neighborhood boards, professional associations, businesses, private transportation providers, a transportation management association, developers, and other special interest groups.

OWP Funding

The OWP is a product of the transportation planning process that responds to current transportation issues and problems. The following federal and local monies are used to fund the various studies identified in the OWP:

49USC Section 5303 and Section 5313(b) (formerly Sections 8 and 26(a)(2), respectively) - These federal funds from FTA are used for planning purposes and often involve transit-related issues. The federal-local matching ratio is 80-20 and activities using these funds must be programmed in the OWP. The State DOT is the recipient of these monies but OMPO is the expending agency.

49USC Section 5307 (formerly Section 9) - These federal funds from FTA can be used for planning, capital, and operating and maintenance costs of mass transit projects. If these monies are used for planning purposes, the federal-local matching ratio is 80-20 and the associated planning activities must be programmed in the OWP. The City DTS is the designated recipient of funds apportioned to the Honolulu and Kailua-Kaneohe urbanized areas.

23USC 104(f) FHWA-PL - These federal funds from the FHWA can only be used for planning purposes. They are used to address intermodal and transportation planning issues which generally have a highway orientation. The federal-local matching ratio is 80-20 and activities using these funds must be programmed in the OWP. The State DOT is the recipient of these monies, but OMPO is the expending agency. FHWA funds itemized in the Estimated Cost by Funding Source of each work element refers to FHWA-PL money unless otherwise noted.

Other Federal Funds - There are two broad funding categories – National Highway System (NHS) and Surface Transportation Program (STP) – which may be used to accomplish metropolitan transportation planning. STP funds are a funding source in several OWP work elements. Activities using these funds must be programmed in the Transportation Improvement Program (TIP), unless otherwise agreed to by the State and MPO. The planning study activities must appear in the OWP.

CMAQ - FHWA's Congestion Mitigation and Air Quality Improvement Program directs funds toward transportation projects in Clean Air Act non-attainment areas for ozone and carbon monoxide. Since the State of Hawaii is considered neither a non-attainment area nor a maintenance area for either ozone or carbon monoxide, these funds may be used as if they were STP funds. Activities using these funds must be programmed in the TIP, unless otherwise agreed to by the State and MPO. The planning study activities must appear in the OWP.

Local - The State and the City provide the local matching funds for federally-assisted activities.

Some studies or work elements identified in the OWP may involve more than one agency. In these cases, a task force or technical resource committee is formed, and OMPO takes the responsibility of coordinating the work tasks with the affected agencies. The Policy Committee and TAC provide the policy and technical directions when needed. OMPO's PIP insures that the public is involved early in the planning process. These studies, as well as studies conducted by individual agencies, are monitored by OMPO through review of selected work products and through quarterly progress reports submitted by OMPO's participating agencies.

SECTION I

CATEGORIES AND SUBCATEGORIES

The 100 series of planning efforts focus on overall planning within the State, through the Hawaii State Plan (Category 101), and the City, through its General Plan and the Development and Sustainable Community Plans (Category 103). It also includes the development of a statewide transportation plan to guide the efficient movement of people and goods (Category 102). These categories are presented for informational purposes only, as they are programmed separately.

The 200 series is devoted to supporting transportation planning. From Safety (Subcategory 200) to Regional Transportation Monitoring and Analysis (Subcategory 201.0), Long-Range Planning (Subcategory 202.0) to Short-Range Planning (Subcategory 203.0), Air Transportation (Subcategory 205.0) to Maritime Transportation (Subcategory 206.0) – this series describes the transportation planning efforts underway on Oahu. Specific work elements are developed to support this holistic approach in a comprehensive and intermodal fashion. As expected, some of these work elements are broad in scope – from updating the Oahu Regional Transportation Plan (Work Element 202.06) to the Transportation Improvement Program (Work Element 202.07), while others are executed by individual State and City departments and agencies – sometimes using only local funds.

The 300 series of the OWP, Coordination of the Planning Program, recognizes the coordination requirements of transportation planning as well as the importance of public participation within the planning process. The various work elements provide staff support for the OMPO Policy Committee, Technical Advisory Committee (TAC), and Citizen Advisory Committee (CAC), the fiscal services required for federal participation in OWP activities; and OMPO's affirmative action for disadvantaged business enterprises. All of these work elements are funded with current funds and are in Section II.

The work elements are categorized and sub-categorized according to their focus. This section contains a brief summary of the category and subcategory emphasis areas.

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CATEGORY 101: HAWAII STATE PLAN (CHAPTER 226, HAWAII REVISED STATUTES, AS AMENDED)

Objective(s):

To improve the State's planning process; increase effectiveness of public and private actions; improve coordination among different agencies and levels of government; provide for the wise use of Hawaii's resources; and guide the future development of the State.

To identify goals, policies, and priorities for the State; determine priorities for allocating limited resources; and maximize coordination and integration of major state and county activities.

Product(s):

1. Coordination with transportation agencies, among others, for resolution of conflicts.
2. Establishment of a statewide planning process to assure that transportation plans and actions conform to the Hawaii State Plan and statewide priorities, are consistent with related state and county plans and programs and support desired directions for growth and development of the State.

Previous and Ongoing Related Work:

The Hawaii State Plan is a long-range comprehensive plan to guide the future development of the State. It was adopted in 1978 and has been periodically updated. Work tasks undertaken in the development and review of the Hawaii State Plan provide useful data related to transportation planning. These work tasks include technical studies, issue papers, statewide household surveys and public meetings.

The Office of Planning (OP) assisted State DOT in the revision of the State Transportation Functional Plan. Public informational meetings on the Functional Plans were held in July-August 1990. The Governor approved the Transportation Functional Plan on May 22, 1991.

OP has been promoting Smart Growth principles. "Smart Growth" refers to integrated strategies and policies to manage growth and development in ways which improve the quality of life, economic vitality, and environmental health. A Smart Growth Conference was held on September 22, 2000 and was sponsored by the OP in collaboration with the American Planning Association, American Planning Association-Hawaii Chapter, and the State Land Use Commission.

Impact of Work Element

These work tasks are designed to assure that transportation plans and actions are in conformance with statewide goals, objectives, policies and priorities; are coordinated with other State plans and programs to avoid conflicts; and utilize limited public resources in an effective manner. They are also designed to promote greater awareness of "Smart Growth" principles.

Tasks:

1. Work with County planning departments to assure that County General Plans further define the Hawaii State Plan.
2. Monitor State programs, processes, and actions.
3. Identify and analyze conflicts; and work with other agencies to resolve conflicts.
4. Promote awareness, understanding, and use of “Smart Growth” principles in state and county plans and planning processes.

Source of Funds: State of Hawaii

Responsible Agencies: Office of Planning, Department of Business, Economic Development & Tourism

CATEGORY 102: STATEWIDE TRANSPORTATION PLANNING

Issues, Problems, and Opportunities:

The continued growth in transportation demand and increasing mobility requirements necessitates a need for innovative and improved transportation systems that are integrated on a statewide basis. In order to address new issues and priorities, a comprehensive, multi-modal statewide transportation planning process is required – which involves all levels of government and the public to cooperatively develop coordinated transportation plans.

Through the existing County-wide Transportation Planning Process for the neighbor islands and the continuing efforts of the OMPO on Oahu, the State will be able to address and ensure the development of a safe, efficient, and effective multi-modal transportation system for Hawaii.

Goal Statements:

1. Ensure that a cooperative, comprehensive, and continuing transportation planning process is maintained for the State of Hawaii.
2. Utilize and maintain the Hawaii Statewide Transportation Plan – which provides the foundation for the planning process through transportation goals and objectives – to address the transportation needs of current and future users of Hawaii's multi-modal transportation system.

Objective(s):

1. To periodically revise and update the Hawaii Statewide Transportation Plan (HSTP) to be current with current and future directions, reasonably consistent in time horizon among its elements, and cover a period of at least 20 years.
2. Be intermodal and statewide in scope in order to integrate the various transportation modes to provide a seamless transportation network and facilitate the safe, efficient movement of people and goods.
3. Ensure the integration, inclusion, and development of the various transportation modes (including vehicular, transit, bike, pedestrian, marine, and aviation) within the context of the HSTP.
4. Be coordinated with the various public transportation agencies, stakeholders, users, and the general public to achieve the goals and objectives of the HSTP and address Hawaii's transportation needs.

Product(s):

A planning document that delineates the goals and objectives for transportation in Hawaii; and also, provides the foundation for the planning process to address the needs of Hawaii's multi-modal transportation system and ensure cooperation and coordination among the agencies and individuals involved with transportation.

Previous and Ongoing Related Work:

DOT is required under the Hawaii Revised Statutes (HRS) Chapters 279A-2 and 226, as well as the federal TEA21, to have a Statewide Transportation Plan and to maintain a statewide transportation planning process. An Interim Statewide Transportation Plan was developed in July of 2000. The interim plan is being updated.

Source of Funds: State of Hawaii and TEA21 Surface Transportation Program (STP)

Responsible Agencies: State Department of Transportation in cooperation with the County planning and transportation agencies.

CATEGORY 103: COMPREHENSIVE PLANNING AND COORDINATION

Issues, Problems, and Opportunities:

The City Charter mandates the preparation of a General Plan and Development Plans for Oahu.

The General Plan is reviewed whenever the State issues new population projections for Oahu, and is reviewed and revised when the State projections are extended to a new time horizon. In addition, under the City Charter, the City DPP Director is required to do a comprehensive review of the General Plan at least once every 10 years. A revision of the General Plan population distribution policies, as a result of the most recent State 2025 projections, will be submitted to the Planning Commission and City Council in the Spring of 2002.

Since 1993, the City has been revising its Development Plans to transform them from parcel specific map-oriented plans to conceptual visionary plans. Six plans have been adopted: Ewa (1997), East Honolulu (1999), Koolauloa (1999), North Shore (2000), Waianae (2000), and Koolaupoko (2000). The plan for Central Oahu is before the City Council for review and adoption. The plan for the Primary Urban Center (PUC) is expected to be submitted by the Summer of 2002.

Until new plans for the Central Oahu and PUC are adopted, the effects of specific residential and economic development projects on transportation and other facilities systems in Central Oahu and the PUC are reviewed as part of the review of applications for amendments to the Development Plan Land Use Map and for zone changes and other land use development permits.

Under the revised development plans (DPs), transportation policies from the DPs are used to evaluate the desirability or appropriateness of specific residential and economic projects when zone change applications and other land use permits are being reviewed. In addition, the policies from the new DPs provide guidance for transportation functional planning and for the assessment of individual projects, proposed for identification on the Public Infrastructure Map and/or for inclusion in the Capital Improvements Program budget.

There is a periodic review every five years of each Development Plan to assess the vision and implementing policies of the Development Plan and propose any appropriate revisions.

Goal Statements:

1. Ensure that General Plan objectives and policies promote the welfare of the community by accurately reflecting the changing needs, concerns, and priorities of the people of Oahu.
2. Ensure the efficient utilization of community resources in attaining General Plan objectives.

The subcategories on the following pages describe the objectives and individual work elements.

Source of Funds: City and County of Honolulu

Responsible Agencies: City Department of Planning and Permitting

SUBCATEGORY 103.1: COORDINATE PLANS

Objective(s):

Ensure that the plans for each agency are in accordance with the overall goals and objectives of the City and State, meet Federal guidelines; and where more than one agency is involved in a program, ensure that the plans are compatible.

Work Elements:

- 103.11 Coordinate preparation of comprehensive planning elements submitted to the OMPO as input to the OWP.
- 103.12 Review the Capital Improvements Program (CIP) and Executive Operating Budgets for conformance with the General Plan and the Development Plans. This action provides the necessary coordination of planning and budgeting activities. The City DPP Director prepares a report for the Mayor and City Council on the relationship of the budget to the General Plan and its supporting documents.
- 103.13 Review, evaluate, and assist in the preparation of agency programs and functional plans. This is an ongoing technical assistance activity which is intended to assist other City agencies in developing planning products and programs which are consistent with and implement the broad policies contained in the General Plan and Development Plans.

Source of Funds: City and County of Honolulu

Responsible Agencies: City Department of Planning and Permitting

SUBCATEGORY 103.2: POLICY DEVELOPMENT

Objective(s):

Develop, maintain, and improve the objectives and policies expressed in the General Plan.

Work Elements:

103.21 Identify and evaluate issues and problems which have a bearing on the objectives, policies and programs of the City. The product can be either a proposal to revise the General Plan or Development Plans to incorporate improved objectives and policies, or a work program to undertake the necessary analysis leading to a proposal for improved objectives and policies. The product will have an impact on the content of the General Plan and Development Plans and the nature of programs carried out by the City.

Source of Funds: City and County of Honolulu

Responsible Agencies: City Department of Planning and Permitting

SUBCATEGORY 103.3: DEVELOPMENT PLANS

Objective(s):

In accordance with the provisions of the City Charter, the City has adopted Development Plans (DPs) for eight areas of Oahu. The City is revising its Development Plans, as described below, to implement new City Charter provisions adopted in 1992. The revised DPs are conceptual schemes for implementing and accomplishing the objectives and policies of the General Plan throughout the island of Oahu.

The City will continue to maintain existing DPs for Central Oahu and the PUC until each is superseded by revised Plans. There will be two separate Development Plan efforts: (1) maintaining the already existing plans (103.31); and (2) implementing new Plans in conformance with adopted Charter changes (103.32 through 103.35).

The DPs implement the General Plan objectives and policies, and provide guidance for zoning and other functional plans, which in turn provide direction for capital and operating budget decisions. They also state the desirable sequence for development consistent with the orderly implementation of the General Plan.

The DPs for Central Oahu, and the PUC, which still follow the format established in the 1980's, as currently constituted include:

1. land use and public facility maps of each area;
2. statements of standards and principles with respect to all land uses and urban design;
3. sites of historical, archaeological, architectural, or scenic significance; and
4. a system of public thoroughfares, highways and streets.

The multi-year Development Plan Revision Program is intended to accomplish two purposes: (1) to change the form and content of the plans to carry out the Charter mandate to create conceptual plans providing a vision for the future development of each DP area, and, (2) to review the plans' existing policy content in light of current regional and community problems and opportunities, and to propose policy changes and revisions as appropriate.

The new DPs include:

1. a discussion of each DP area's role in implementing the Oahu General Plan,
2. a vision statement describing the desired future development for the DP area,
3. land use and infrastructure policies needed to realize that vision, and
4. a chapter providing the implementation measures for the vision and policies.

The focus of the new DPs is on the text. Maps provided with the text and in an appendix are meant to illustrate the vision and policies of the DP in contrast to the existing DP maps which have taken on a de facto regulatory status comparable to zoning maps.

The new DPs offer a better framework for integrating land use and transportation in planning and analyzing possible future scenarios.

Work Elements:

103.31 Perform an annual review of the DPs.

103.32 Prepare revised Ewa DP and Central Oahu Sustainable Community Plan (SCP).

- The New Ewa DP was adopted August 1997. The 5-year review of the Ewa DP is scheduled to be completed in the fall of 2002.
- Final proposed Central Oahu SCP has passed the Planning Commission in March 2002 and has been submitted to the City Council for adoption.

103.33 Prepare Revised PUC DP and East Honolulu SCP

- The final proposed draft of the PUC DP is expected to be submitted to the Planning Commission in the Summer of 2002.
- The East Honolulu SCP was adopted in May 1999.

103.34 Prepare Revised Waianae and North Shore SCPs.

- The North Shore SCP was adopted in April 2000.
- The Waianae SCP was adopted in April 2000.

103.35 Prepare Revised Koolaupoko and Koolauloa SCPs.

- The Koolaupoko SCP was adopted in August 2000.
- The Koolauloa SCP was adopted in December 1999.

Source of Funds: City and County of Honolulu

Responsible Agencies: City Department of Planning and Permitting

CATEGORY 200: TRANSPORTATION

Issues, Problems, and Opportunities:

Each workday, Honolulu motorists face high levels of congestion on the major travel corridors that converge into the downtown area. Growing pressures from housing, development, and limited rights-of-way have highlighted the limitations of our transportation system.

A regional transportation plan was endorsed by the Policy Committee in 2001. This plan received input from government agencies, elected officials, citizen groups, private transportation carriers, developers, and the public. The endorsed regional transportation plan identifies Oahu's transportation strategies through the year 2025. The strategies developed for the ORTP will be incorporated into the Statewide Transportation Plan.

TSM strategies are part of Honolulu's transportation plan. Honolulu has implemented measures such as one-way streets, conversion of shoulder lanes for additional roadway capacity, contraflow lanes, high-occupancy vehicle (HOV) lanes, parking restrictions, park-and-ride lots, computerized traffic signal synchronization, and a telework program. The computerized traffic signal synchronization program has been expanded to include additional intersections. The City estimates the system saves the motoring public approximately \$3.5 million a year.

With respect to federal TEA21 regulations, congestion mitigation programs are required for the island of Oahu. These programs will incorporate TSM/TDM measures implemented and studied in the past.

Goal Statements:

Continue development of an efficient, effective, affordable transportation system that offers reasonable choices among public and private transportation modes for people and goods, and is consistent with social, economic, and environmental goals of the community.

SUBCATEGORY 200.0: SAFETY

Issues, Problems, and Opportunities:

The Highway Safety Improvement and Motor Carrier Safety Improvement Programs collect important information and data on highway facilities. These programs were created under Federal legislation and have their own monitoring and reporting system. The information available through these programs is valuable input for systems planning. Some of this data will be incorporated into the pavement, bridge, and safety management systems.

Goal Statements:

To coordinate safety planning with short- and long-range systems planning.

Source of Funds: State of Hawaii

Responsible Agencies: State Department of Transportation

SUBCATEGORY 201.0: REGIONAL TRANSPORTATION MONITORING AND ANALYSIS

Issues, Problems, and Opportunities:

Fiscal constraints have reinforced the current transportation emphasis on maximizing the use of existing facilities and more prudent planning for new facilities. Oahu needs a system for collecting and analyzing data on existing conditions to determine where they should concentrate short-term transportation efforts, to measure the effectiveness of implemented projects, and to evaluate and adjust the long-range component of the regional transportation plan. To develop a system that provides the needed information, a coordinated effort has been made to ensure that the information collected will be used.

The work elements in this subcategory, either gather data or analyze existing data to give users the information they need to plan for a more efficient transportation system. These work elements include tasks related to analysis of the 2000 census data.

Monitoring and analysis of certain types of data will be used to measure how well regional transportation goals and objectives are being achieved. It will also evaluate both implemented and planned projects, and aid in identifying potential trouble areas where we can concentrate our transportation efforts.

Goal Statements:

To achieve an efficient, coordinated, and useful monitoring system to allow the analysis and evaluation of transportation plans and projects.

SUBCATEGORY 202.0: REGIONAL TRANSPORTATION FORECASTING AND LONG-RANGE PLANNING

Issues, Problems, and Opportunities:

Transportation forecasting is an integral component of the transportation planning process. For Oahu, long-range and to some extent, short-range forecasting is accomplished through a series of transportation sub-models which require initial inputs from economic and land use models. The outputs of forecasting form the basis for evaluating alternative transportation plans and projects.

OMPO and its participating agencies have striven to improve their transportation forecasting capabilities. The trip generation and mode split models were updated in FYs 1982 and 1983; the traffic analysis zones (TAZ) system was increased from 159 to 190 zones; and the trip distribution model was reviewed. In FY 1994, OMPO undertook a major effort to develop a new set of forecasting models. This effort included revisions to the highway and transit networks, and the development of a finer TAZ system of 762 zones.

Computer technology has improved such that transportation forecasting can now be done on microcomputers that minimize turnaround time by eliminating the need to transmit data from a mainframe environment. Microcomputers also allow more alternatives to be developed and tested more quickly and at a relatively low cost.

OMPO has transferred its mainframe computer package onto a microcomputer. MINUTP, a microcomputer forecasting software package, is currently being used by OMPO and its participating agencies. This effort will be completed during 2002. The consultant calibrated and validated the models using data collected by DOT as part of the Highway Performance Maintenance System (HPMS). The training of staff and the integration of the models is a continuing effort.

A regional transportation plan was updated and approved by the OMPO Policy Committee in FY 2001. The regional transportation plan provides a guide for future transportation development. The Transportation Improvement Program (TIP) will follow the direction provided by the regional transportation plan.

In FY 1999, the City began work on a Major Investment Study/Draft Environmental Impact Statement (MIS/DEIS) to examine mobility alternatives for the City's primary transportation corridor from Ewa to East Honolulu (WE 202.20-99). The MIS/DEIS was released for public review, which ended on November 6, 2000. On November 29, 2000, the Honolulu City Council selected the Bus Rapid Transit (BRT) as the Locally Preferred Alternative (LPA). A Supplemental DEIS (SDEIS) was undertaken to address environmental impacts raised by the refinement of the LPA. The SDEIS was released for public review in March of 2002. Shortly after the end of the SDEIS public review period, the Final Environmental Impact Statement will be completed. The Record of Decision is anticipated in September 2002.

Goal Statements:

To develop a current and usable set of transportation tools and plans which will guide a balanced, efficient, and socially, economically, and environmentally acceptable transportation system for Oahu.

SUBCATEGORY 203.0: SHORT-RANGE TSM/TDM PLANNING

Issues, Problems, and Opportunities:

In order to bridge the gap between long-range solutions and the existing congestion, a series of short-range Transportation Systems Management and Transportation Demand Management (TSM/TDM) strategies are developed. TSM and TDM makes sense given the funding constraints and limited right-of-way in the PUC.

Short-range, low-cost options that maximize the efficient use of existing transportation facilities, are the basis of TSM. These strategies have been promoted on Oahu for some time. Some of the more basic TSM strategies such as one-way streets and parking bans are now taken for granted in the downtown area. Other TSM strategies that have been implemented include park-and-ride lots, placing over 300 traffic signals under the control of a central computer, HOV lanes, and contraflow lanes.

TDM incorporates strategies that reduce demand for automobiles on the transportation system. These strategies include programs to promote telecommuting, flextime, and ridesharing.

These types of strategies can be quickly implemented and provide some relief until long-range solutions are realized.

Goal Statements:

Ensure the orderly and balanced development of short-range improvements to the ground transportation system that promote the effective and efficient movement of people and goods on Oahu.

SUBCATEGORY 205.0: AIR TRANSPORTATION

Issues, Problems and Opportunities:

The events of September 11, 2001, had a tremendous impact on our airport system and the State of Hawaii. There were three days of no air traffic; and by October 16, 2001, Honolulu International Airport (HIA) was operating at about 3/4 of its normal 1,000 flights a day. Overseas passengers were about 76% of that experienced in August 200. Interisland carriers announced flight schedule reductions of 20-25% and Japan airlines reduced their flight schedules by 32%. For the period January-October 2001, HIA was down 12.8% in total passengers; and the other four major airports (Kahului, Lihue, Kona International, and Hilo International Airports) were down 5.6% to 6.8% in the same category. For 2001, it appears that total passengers in and out of HIA will be down 15% and down 10% Statewide. It may take five years to regain the peak activity experience of 1996. Our forecasts will be adjusted accordingly.

The financial losses related to September 11, 2001 are staggering. In an attempt to provide immediate relief to the airline industry, the Governor instituted a landing fee waiver until April 30, 2002. While the waiver will reduce Airports Division revenues by approximately \$3 million a month, the vital role the airlines play in tourism and interisland transportation makes this waiver critical. Additionally, the Governor may suspend, waive, or defer any contract obligations owed to the State up to April 30, 2002, if certain requirements are met. This measure was intended to provide relief to the airport concessionaires, especially Duty Free Shoppers (DFS).

The new airport security measures mandated by the Federal Aviation Administration (FAA) are constantly evolving and will be given top priority. The Capital Improvement Program (CIP) is being reevaluated in light of these requirements as priorities shifted from passenger convenience and capacity enhancements to safety, security, and compliance. This major shift in priorities, along with declining revenues and increased operating expenses, will make significant changes to the CIP budget. DOT is committed to providing and maintaining a safe and efficient air transportation system for the State of Hawaii.

Previous and Ongoing Related Work:

The update for Hilo International Airport Master Plan and FAA Part 150 Noise Compatibility Program was completed in 2001 and the draft Environmental Impact Assessment (EIA) was issued. The new noise monitoring system for Hilo International Airport is nearing installation and completion as the equipment has been manufactured and computer software completed. The Lihue Airport Environmental Impact Statement (EIS) is ongoing with the draft EIS due in early 2002. The Alien Species Action Plan is ongoing for Kahului Airport as an initial management assessment and a new invasive species video for the airlines were completed, and a risk assessment and baseline survey are nearing completion. The Hawaii Airports System Strategic Plan was initiated and will be completed in early 2002. The Strategic Plan will provide guidance for decision-making on facility development, airport operations, and financial management. It will provide a long-term, high-level vision of the airports system's strategic development

direction. The update of the Hilo International Airport Master Plan and Part 150 Noise Compatibility Program will be initiated in 2002.

Goal Statements:

The Hawaii Airport System Strategic Plan and timely updates of airport master plans, noise compatibility programs, and environmental documents will enable us to meet current and forecast demand by providing the necessary infrastructure for air transportation service. The Airports Division will strive for a self-sustaining enterprise system with defined capital formation strategies. DOT needs to promote new markets and services for air service to Hawaii. DOT needs to take a more active role in tourism generation to increase net revenues and off-airport duty free revenues.

Source of Funds: Airport Special Funds and FAA grants-in-aid

Responsible Agencies: Hawaii Department of Transportation, Airports Division

SUBCATEGORY 206.0: MARITIME TRANSPORTATION

Issues, Problems, and Opportunities:

Hawaii, as an island state in the Pacific Basin, is dependent on shipping for sustenance. Approximately 80% of the goods consumed by the people of Hawaii must be imported, 98% of these by water. The availability and proximity of adequate harbor facilities and services for maritime, industrial, and commercial activities have a significant impact on the economy of the State and the well-being of its people.

To meet this need, ship operations are expected to increase as cargo requirements increase. Since 1960, increases in vessel size and cargo capacity have been in consonance with increases in volume of cargo, enabling shipping costs to remain relatively stable. But advancements in shipping technology also require improved harbor facilities to service ships and cargo. Inadequate facilities create delays, which in turn increase shipping costs. These increases are passed on to the consumer in the form of increased cost of goods. Future studies are needed to determine required improvements to each commercial harbor and the various access roads that service vital State harbor cargo terminals on each island.

Previous and Ongoing Related Work:

A Statewide Harbor System Plan was developed several years ago as part of an integrated statewide transportation plan. In 1978, the Hawaii Cooperative Port Planning Study was initiated to define existing and potential cargo flows; estimate the capacity of the total transportation system of the State; prepare marketing and planning strategies, investigate an interisland ferry network; and plan and implement exchanges with the public, transportation consumer, and other agencies.

Phase A of this study consisted of an inventory of harbor facilities, cargo projects, and development of a computerized capacity model for harbor facilities. Phase B consisted of updating the harbor system using the data and information from Phase A.

The long-range *1995 Master Plan for Honolulu Harbor* was approved by the Governor in 1976. This plan has served as the foundation for the modernization of Honolulu Harbor.

In 1986, the 1995 Master Plan was updated to the year 2010 to meet the future needs. Discussion groups made up of users and potential users of the Honolulu Harbor facilities participated in setting the guidelines for future development.

On October 22, 1986, the Maritime Affairs Committee of the Hawaii Chamber of Commerce unanimously endorsed the *2010 Master Plan For Honolulu Harbor* as a long-range guide. Governor George R. Ariyoshi approved the plan on October 30, 1986.

In 1988, OP in cooperation with maritime, business, and community groups and Federal, State and County agencies, undertook preparation of a comprehensive long-range master plan and development program for the Honolulu waterfront. The *Honolulu Waterfront Master Plan*, completed in October of 1989, was intended to guide the future development of lands and near

shore waters makai of Nimitz Highway and Ala Moana Boulevard from the Ala Wai Yacht Harbor to Honolulu International Airport. A primary goal of the master plan was to increase public access to the waterfront, and meet the recreational, cultural, and economic needs of Honolulu's growing population, while at the same time providing sufficient space and facilities to meet long-range harbor and maritime needs.

The master plan proposed a series of improvements for Honolulu Harbor that were intended to enhance the port's capability to handle anticipated harbor and maritime needs. These improvements included expansion of the Sand Island container yard; redevelopment of the Kapalama Military Reservation and adjacent lands as a full-scale, modern, containerized cargo terminal; creation of additional berthing facilities; development of new maritime bunkering facilities; and general wharf improvements.

Separate 2010 Master Plans were prepared with the participation of the community, private businesses, and government agencies for the Statewide commercial harbors, including Kaumalapau Harbor.

In 1995, the State DOT began the development of an *Oahu Commercial Harbors 2020 Master Plan*. Terminal operators, tourist-related boating interests, commercial fishermen, ocean-based navigational interests, and other user groups participated in task force meetings to develop this Master Plan. The 2020 Master Plan, approved by Governor Benjamin Cayetano on May 6, 1997, is a systematic, long-range guide for the development and improvement of Honolulu Harbor, Kewalo Basin, and Kalaeloa Barbers Point Harbor. The Plan's recommendations are substantiated by studies that correlate historical cargo data with socio-economic factors and establish valid projections of various 2020 cargo quantities. As these projections are based on current economic and operational factors, the Master Plan will be updated periodically to incorporate emerging technologies and shifts in the State's economy.

A *Hawaii Commercial Harbors 2020 Master Plan* was prepared using the same formula employed in the development of the Oahu Commercial Harbors 2020 Master Plan and was approved by Governor Cayetano on August 7, 1998. Subsequent to this, the *Kahului 2025 Master Plan* dated September 14, 2000 and the *Kauai Commercial Harbors 2025 Master Plan* dated September 24, 2001 were completed.

With regards to the EIS process, the DOT has completed the *Commercial Harbor 2020 Master Plan* EIS, is embarking on the Kahului 2025 EA process, and will be embarking on the Kauai Commercial Harbors EIS process. With completion and approval of the EIS or EA, master planned initiatives will be implemented.

DOT has entered into an agreement with the U.S. Army Corps of Engineers (USACE) to study the effects of ocean surge on the Kahului Harbor master plan's proposal. DOT also entered into an agreement with the USACE to research navigational improvements at Nawiliwili Harbor.

Goal Statements:

To facilitate the rapid, safe, and economical movement of people and goods into, within, and out of the State by providing and operating harbor facilities and supporting services through expenditures from the Harbor Special Fund.

Source of Funds: State of Hawaii

Responsible Agencies: Hawaii Department of Transportation

CATEGORY 300: COORDINATION OF THE PLANNING PROGRAM

Issues, Problems, and Opportunities:

OMPO was created by the Hawaii State Legislature in 1975 for the purpose of ensuring a cooperative, comprehensive, and continuing (3-C) transportation planning process on Oahu. A comprehensive agreement detailing responsibilities under the 3-C process was modified in 1986 and 1992 and revised in FY 2001. These revisions include restructuring the membership of TAC, and also reflect changes from TEA21 and the recommendations from the Certification Review completed in September 2000.

The Policy Committee is supported by a small administrative staff that carries out its policies and directives. The Policy Committee has two advisory groups to provide input to the decision-making process. The first, the Technical Advisory Committee (TAC), is composed of technical staff members representing the State and City transportation and planning departments (DOT, DTS, DPP, and DBEDT) and includes, serving as non-voting members, the Managing Director of the Hawaii Transportation Association, a faculty member of the University of Hawaii with background in transportation or city planning; and a staff representative each from the FHWA, FTA, and FAA. The TAC provides the technical and professional guidance to the OMPO Policy Committee and the Executive Director.

The second advisory committee, the Citizen Advisory Committee (CAC), is composed of representatives from business and professional organizations, neighborhood boards, and special interest groups. The primary responsibility of the CAC is to provide citizen input on the general activities of OMPO and the 3-C planning process to the OMPO Policy Committee.

The OMPO Policy Committee is responsible for overseeing the regional transportation plan, the TIP and the OWP. These plans and other special transportation studies are coordinated through OMPO.

Goal Statements:

To improve and strengthen the cooperative, continuing, and comprehensive planning process on Oahu.

SECTION II

WORK ELEMENTS FUNDED DURING THE CURRENT FISCAL YEAR 2003

The work elements in this section have been programmed using FY 2003 federal appropriations. This section may also include work elements programmed in previous years but receiving additional funding in FY 2003.

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Objective(s):

To ensure that Oahu's transportation planning process complies with the various provisions of the federal Transportation Equity Act for the 21st Century (TEA21).

Product(s):

1. Guidelines and procedures for implementing federal planning requirements.
2. Participation in workshops and seminars.
3. Integration of Intelligent Transportation Systems (ITS), Congestion Management Systems (CMS), and other transportation plans into the OMPO planning process.

Previous and Ongoing Related Work:

On June 9, 1998, President Clinton signed the TEA21, which succeeds ISTEA, which expired in September of 1997. This act reauthorized and redefined the Federal transportation program. Several modifications to the metropolitan planning requirements were made. These changes will require that OMPO's programs and processes be updated.

The process of modifying the OMPO programs and processes will be similar to those efforts when ISTEA was passed. For example, as a result of ISTEA, OMPO established procedures to account for major investment studies, developed a CMS proposal through a DOT-lead effort, and strengthened its public involvement program.

In 1997, OMPO established procedures to prioritize enhancement projects. These procedures were then included into the State's enhancement program. Under TEA21, some provisions of the enhancement program have been modified.

Also in FY 2000, OMPO underwent a triennial certification review of its planning process. A number of recommendations were made by the federal representatives. These recommendations are being integrated into the OMPO programs and procedures.

In FYs 2000 and 2001, OMPO coordinated the development of an ITS structure within the OMPO process to deal with related City-State policy issues (see Planning Priorities). A CMS structure was also incorporated into the OMPO process in FY 2001. An update of OMPO's Comprehensive Agreement to reflect TEA21 requirements was also undertaken. The new Comprehensive Agreement was signed in FY 2001.

With the approval of the regional transportation plan in April, and the approval of the CMS process, OMPO was certified as being in compliance with the transportation planning process. Work has continued on the implementation of the ITS structure and CMS implementation during FY 2002.

Identification of Need:

This work element will be used to continue to ensure that the federal TEA21 requirements are met. These requirements must be satisfied in order for the planning process to be certified.

Impact of Work Element:

If OMPO is not certified, all or part of an attributable portion of the Surface Transportation Program apportionment and formula apportionment of FTA Section 5307 funds (formerly Section 9) may be withheld.

Tasks:

1. Discuss options with participating agencies and federal officials regarding local implementation of federal planning regulations and certification recommendations.
2. Identify freight movement concerns and process through planning process.
3. Participate in workshops, seminars, and presentations.
4. Review, modify, and/or establish procedures and guidelines for incorporating federal planning requirements and guidelines into the OMPO, City, and State plans, programs, and structure.
5. Represent OMPO on task forces formed to review various transportation plans.
6. Coordinate the efforts to integrate transportation plans into the OMPO planning process.
7. Coordinate CMS activities for the metropolitan planning process.
8. Coordinate ITS activities for the metropolitan planning process.
9. Review federal regulations implementing TEA-21 planning requirements.

Estimated Completion Date: June 2003

Estimated DBE Opportunity: None

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
45,400		36,320		9,080	

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
OMPO	Planners/Engineers	6.0	36,200
	Support Staff	0.6	2,600
OMPO	<u>Other</u> Overhead		6,600
		Total:	45,400

Objective(s):

To ensure that the 2000 Census data is utilized to its fullest potential.

Product(s):

1. Integration of 2000 Census data into the planning process. TAZ boundaries that are reconciled with 2000 Census block boundaries.
2. Equivalency tables for the 2000 Census blocks and the revised OMPO Traffic Analysis Zones (TAZ) for home-based and work-based tabulations.

Previous and Ongoing Related Work:

During FY 2000, OMPO assisted the U.S. Bureau of the Census in collecting data on work places and locations of major employers in the urbanized areas of Oahu. This work included geocoding and verifying workplace locations. The purpose of this effort was to improve the quality of the place-of-work data gathered during the 2000 Census and packaged by the census for each state.

The 2000 Census began its release of its primary data in FY 2001. This information is valuable in the development of socio-economic input for transportation planning and in the analysis of Title VI and Environmental Justice impacts. DOT will be integrating the 2000 Census data with the planning process and including it in their modeling and Title VI and Environmental Justice work.

OMPO did not participate in the updating of the TAZ system at the time of the 2000 Census. For this reason, a special tabulation will be done after the Census Transportation Planning Package (CTPP) tables are released. In order to have this tabulation done, an equivalency table is needed to equate the revised 2000 Census blocks with the revised OMPO TAZ.

Impact of Work Element:

Updated census information will be valuable in the development of updated socio-economic data for the planning process. In addition, having an equivalency table will also allow OMPO to request a special tabulation of 2000 census data aggregated to TAZ level.

Identification of Need:

Census data is an important source of socio-economic information. It is important for the OMPO agencies to be familiar with this data and to be able to integrate it into the planning process.

The equivalency tables are needed to tabulate transportation planning data from the 2000 Census to the TAZ level needed for the transportation models.

Tasks:

1. DOT to review and analyze of the 2000 Census data.

2. DOT to assist in the integration of 2000 Census data into the planning process.
3. DPP to reconcile the 762 TAZ boundaries with the 2000 Census block boundaries.
4. DPP, in coordination with the other OMPO participating agencies, to adjust TAZ boundaries as needed.
5. DPP to develop two equivalency tables for 2000 Census blocks and TAZs based on 1) housing and 2) employment.

Estimated Completion Date: June 2004

Estimated DBE Opportunity: None

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
35,000		28,000		7,000	

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
DOT-STP	Planners	1.0	5,000
DPP	Planners	6.0	30,000
		Total:	35,000

Objective(s):

To demonstrate and evaluate an alternative Congestion Management System (CMS) data collection methodology as recommended in WE 201.01-01, Implementation of the CMS.

Product(s):

Evaluation Report of Demonstrative ITS Technology

Previous and Ongoing Related Work:

The State of Hawaii Department of Transportation (DOT) completed the *Development of the State of Hawaii Congestion Management System* report in December 1999. Travel time/running speed data was collected to establish baseline conditions on the major regional roadway system.

In April 2001, a CMS Procedures and Responsibilities report was endorsed, which contained schedules for implementation, a description of how the CMS is structured, and identification of agencies' responsibilities. The foundation of Oahu's CMS was based upon processes used by the State Department of Transportation and City Department of Transportation Services in monitoring the transportation system and evaluating transportation strategies.

Since the development of the CMS, certain strategies and projects have been implemented. In 2001, DOT collected travel time/running speed data on the H-1 Freeway (zipper lane), Pali Highway, Likelike Highway, and Moanalua Freeway using the average-car technique to measure the effectiveness of some of these strategies.

However, the existing method of collecting travel time/running speed via the average-car technique with the Jamar Traffic Data Collectors (TDC-I) is very labor intensive. The manpower limitations of this methodology severely restrict the amount of data collected for the CMS. As such, research has been conducted to identify other types of technologies, which would ease the burden of collecting travel time/running speed data.

OMPO and its participating agencies have continued to investigate more cost-effective ways of collecting travel time data.

Identification of Need:

Current collection of travel time/running speed data methods are very labor intensive. Advances in technology offer more cost-effective ways of collecting travel time data. A demonstration project is needed to evaluate the technology recommended in WE 201.01-01, Implementation of the CMS. Field tests will allow an evaluation of the recommended technology under local conditions.

Impact of Work Element:

This work element will enable agency staff to apply the ITS-related travel time data collection methodology that was selected as part of WE 201.01-01, Implementation of the CMS.

Tasks:

1. Apply selected ITS-related travel time data collection methodology to a travel corridor; and collect, extract, analyze, and document travel time data.
2. Prepare an Effectiveness Evaluation Report for the analyzed travel corridor.
3. Agency staff to review Effectiveness Evaluation Report in meeting the OMPO CMS requirements.
4. Agency staff to meet and discuss other CMS-related activities.

Estimated Completion Date: June 2003

Estimated DBE Opportunity: None

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
341,000		272,800		68,200	

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
DOT-HWY-T	Planners/Engineers	12.0	110,000
DTS	Planners/Engineers	2.0	15,000
OMPO	Planners/Engineers	2.2	12,400
	Support Staff	0.3	1,300
	<u>Other</u>		
DOT-HWY-T	Software and Equipment		200,000
OMPO	Overhead		2,300
		Total:	341,000

Objective(s):

To ensure that the Transportation Improvement Program (TIP) reflects current directions as identified in Oahu's Regional Transportation Plan, Highway Safety Program, Short-Range Transportation Plan (SRTP), land use plans, congestion management system, and other planning studies, and complies with applicable federal requirements.

Product(s):

Amendments to the FYs 2002-2004 TIP.

Previous and Ongoing Related Work:

The Oahu TIP is the short-term, three-year implementation program for federally-assisted surface transportation projects that support the long-term ORTP. The TIP describes and prioritizes federally-assisted and major locally-funded transportation programs and projects selected by the OMPO Policy Committee for implementation during the program period. The TIP is closely related to the State and City Capital Improvement Programs. The CAC developed TIP recommendations to help identify project priorities. The recommendations were sent to the Policy Committee, Technical Advisory Committee, and State and City transportation departments. Under OMPO's TIP procedures, an annual review and major biennial update of the TIP are scheduled, with off-schedule amendments considered as needed.

The TIP is approved by the OMPO Policy Committee and the Governor. Upon these approvals, the TIP is incorporated as the Oahu element of the Statewide TIP (STIP). The STIP is the official document that the U.S. Department of Transportation uses to authorize federal funds for projects in Hawaii.

The FYs 2002-2004 TIP was endorsed by the OMPO Policy Committee on September 26, 2001.

The FYs 2002-2004 TIP will be monitored and amended, as necessary, during the program period.

Identification of Need:

The production of a financially-constrained TIP is a federal requirement of the 3-C planning process.

Impact of Work Element:

A current TIP, based upon cooperatively developed criteria and reviewed and recommended by Oahu's policy makers, provides the basis for funding and implementing transportation improvement projects.

Once approved by the Policy Committee and the Governor, the Oahu TIP is incorporated into DOT's STIP. The approved STIP is the foundation for scheduling and implementing projects utilizing federal funds.

Tasks:

1. Under the overall coordination of OMPO, the participating agencies shall cooperatively monitor and update as necessary the TIP for FYs 2002-2004, ensure its consistency with the regional transportation plan, identify any changes in project priorities, and ensure its financial viability.
2. Under the overall coordination of OMPO, the participating agencies shall cooperatively review and update, as necessary, the metropolitan TIP development process.
3. DTS to identify any changes to the transit priorities for Oahu.
4. DTS to identify any changes to roadway improvements and the City's financial plan for TIP projects.
5. DOT to identify any changes to State highway and water transit improvements.
6. OMPO will begin coordination of FYs 2004-2006 draft TIP.
7. OMPO and its participating agencies to develop a tool to objectively rate and prioritize projects proposed for the TIP. This tool will be used in the development of the FYs 2004-2006 TIP.
8. OMPO to coordinate and process TIP amendments through the TAC, CAC, intergovernmental review, and Policy Committee.
9. OMPO to follow Public Involvement Program procedures for review and update of the TIP.
10. DPP to review the TIP to ensure its consistency with the City's Development/Sustainable Communities Plans.
11. Projects will be reviewed by appropriate transportation and planning agencies to ensure their consistency with federal, State, and local criteria.

Estimated Completion Date: June 2003

Estimated DBE Opportunity: None

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
60,700		48,560		12,140	

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
DBEDT	Planners	0.1	500
DOT-HWY-P	Planners	1.0	5,000
DPP	Planner	0.1	500
DTS	Planners	2.0	10,000
OMPO	Planners	4.8	32,500
	Support Staff	1.3	5,700
OMPO	<u>Other</u> Overhead		6,500
		Total:	60,700

Objective(s):

To enable the City and the State transportation departments to program federal funds allocated for transportation enhancement activities under 23 U.S.C., Section 133(d)(2).

Product(s):

A list of activities to be programmed in the TIP and STIP using federal funds allocated for transportation enhancement activities.

Previous and Ongoing Related Work:

The Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) and later the Transportation Efficiency Act for the 21st Century (TEA-21) established the transportation enhancement program which strives to strengthen the cultural, aesthetic, and environmental aspects of the intermodal transportation system. Enhancement activities must be over and above normal expenditures for transportation improvements and have a direct relationship to the intermodal transportation system.

In 1996, HDOT developed the criteria and process for selecting the projects and activities that will use federal enhancement funds. Under this process, HDOT has the primary responsibility for the enhancement program, and OMPO, in cooperation with the State and the transit operators, prioritizes the enhancement projects for Oahu.

In 1997 and 1998, OMPO took the lead in developing the list of enhancement projects for Oahu. Many of the projects on this list have been included in past TIPs and been completed. OMPO feels that it is time to review the remaining projects and consider additional projects that may be found to be of a higher priority given the number of years that have passed since the original list was developed.

Identification of Need:

It is necessary to develop a prioritized list of projects that has been approved by the Policy Committee in order to include these projects in the TIP to qualify for federal enhancement funds.

Impact of Work Element:

Ten percent of the funds apportioned to the State of Hawaii under FHWA's Surface Transportation Program are available only for transportation enhancement activities. This work element will allow OMPO to objectively rank the projects proposed to use enhancement funds.

Tasks:

1. DOT to issue a call for enhancement projects.
2. DOT to determine the eligibility of the submitted projects.
3. OMPO Policy Committee to agree that the projects are not inconsistent with the TOP 2025 and should be considered for possible inclusion in the OMPO TIP.

4. OMPO to follow the public involvement procedures outlined in the OMPO GPI.
5. OMPO to form an evaluation panel to assist the Policy Committee in reviewing and prioritizing all eligible Oahu projects.
6. OMPO TAC and CAC to review and comment on the Evaluation Panel's prioritized list of projects.
7. OMPO Policy Committee to finalize the prioritized list of projects.

Estimated Completion Date: July 2003

Estimated DBE Opportunity: None

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
51,800		41,440		10,360	

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
DBEDT-OP	Planners/Engineers	1.0	5,000
DOT-HWY-P	Planners/Engineers	2.0	10,000
DPP	Planners/Engineers	1.0	5,000
DTS	Planners/Engineers	2.0	10,000
OMPO	Planners/Engineers	2.7	16,000
	Support Staff	0.6	2,600
OMPO	<u>Other</u> Overhead		3,200
Total:			51,800

Objective(s):

To develop and prepare a bus service operations plan for the Downtown area and adjoining neighborhoods. The plan would incorporate streamlining bus services along the major transit corridors and initiate livable communities principles for neighborhoods that are connected by community shuttle services and circulator services.

Product(s):

A report documenting a bus service plan that will serve as a guide to making operational improvements designed to streamline bus operations and make transit a more viable transportation alternative while maintaining the integrity and livability of Honolulu's neighborhoods.

Previous and Ongoing Related Work:

Previous bus operations studies The Comprehensive Operations Analysis, August, 1993; Weekend Bus Study, May, 1994; and Transit Operations Analysis, June, 1997 focused on efficiencies in transit operations and data collection. The Transit in the Neighborhood, December 1996, a community-based planning effort was initiated for only the Central, Leeward and Windward areas. These forerunners to this study envision integration of results from operations analysis, community-based planning efforts and intelligent transportation systems (ITS) guidelines. A Transit Service Plan study has been conducted in the Leeward area of the island and the resulting implementation plan improved the efficiencies of transit operations by converting the existing Leeward service to a hub and spoke transit operation. A Transit Service Plan, Phase II is currently being conducted for Central Oahu.

Identification of Need:

The existing Downtown area bus routes, while they provide ample service to the community, are not operating at peak efficiency. The routes were designed over thirty years ago and do not provide intra-neighborhood shuttle service. Since the implementation of these routes over thirty years ago, neighborhoods in the urban center have undergone significant demographic and economic changes.

The express routes to and from the outlying areas run mainly in the morning and evening peak periods, requiring patrons traveling at other times to ride local lines making multiple stops. Service must be made more efficient to provide on time, frequent and fast travel times to make transit the mode of choice.

Impact of Work Element:

This plan is to provide the City with a guide for making operational changes in the existing route bus system in order to emphasize:

- a. That transit service design must go above and beyond existing levels of service to entice single-occupant vehicle drivers to use transit by improving the frequency and speed of most service.
- b. That neighborhoods can be connected by efficient and frequent shuttle services that provide linkage to express buses and/or area circulator buses.

- c. That express buses that operate throughout the day will provide more incentive for the single-occupant vehicle drivers to use transit as an alternative of choice.

Tasks:

1. Review and become familiar with the current bus operations. Review the existing databases and identify additional data requirements.
2. Collect data and conduct passenger and route surveys as needed.
3. Develop and prepare a public participation and community involvement program for this work effort. The development and implementation of this community involvement program that seeks to involve the appropriate emergency response agencies affected constituent groups such as the occasional bus rider and the affected residents, in addition to the general public.
4. Develop, prepare, and describe service standards and guidelines to be followed in evaluation of alternative service scenarios.
5. Develop, prepare, and analyze alternative service delivery scenarios in concert with the public participating and community involvement program for this project.
6. Prepare operation plans for the major transit corridors that contribute positively to Oahu's sense of place.
7. Document, produce, and submit draft and final reports.

Estimated Completion Date: July 2003

Estimated DBE Opportunity: 10% of the consultant contract

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
600,000		480,000		120,000	

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
DTS	Planners/Engineers	6.0	50,000
	<u>Other</u>		
DTS	Consultant		500,000
	Other Direct Costs		50,000
		Total:	600,000

Objective(s):

Develop and prepare a concept design of transit alignment, transit center site and operational plan for transit-only contra-flow lanes on Kamehameha Highway between Pearl City/Aiea to Aloha Stadium.

Product(s):

A report that documents the analysis of routing alternatives, alternative transit center sites, and the traffic impacts associated with each alternative. This report will include conceptual engineering necessary to support alternative analysis. An assessment of environmental clearance and the supporting documentation will also be part of the report.

Previous and Ongoing Related Work:

1. The recently completed traffic studies for the Pearl City Bus Facility and the Manana Spine Road.
2. The ongoing Manana Sub-Area Traffic Study.
3. The ongoing Bus Rapid Transit effort.
4. The on-going Primary Corridor Transportation Study.
5. The Aiea-Pearl City Livable Communities Initiative Study.
6. Kamehameha Highway Improvements from Waihona Street to Center Drive.

Identification of Need:

The continuing development and re-development along the identified segment of Kamehameha Highway has led to an increase in traffic. There is a need to increase the people carrying capacity of the highway through improved transit facilities. Several alternatives to improve transit services were evaluated during an earlier public involvement process and the community has concluded that the contra-flow transit-only lane is the preferred system with three alternative transit center sites identified in Pearl City. This study is necessary to advance the concept forward.

Impact of Work Element:

This study would advance the identified transit-only contra-flow alignment and transit center site toward implementation.

Tasks:

1. Review and evaluation of existing data.
2. The development and implementation of a community-based public involvement program that builds upon the work that already is implemented.

3. Collect data; develop and analyze alternative contra-flow alignments and transit center site alternatives; develop and prepare transit contra-flow plan; develop and prepare transit center site plans. Analyze the traffic impacts of each alternative along the study segment. Coordinate above task effort with State of Hawaii Department of Transportation.
4. Prepare conceptual plans, preliminary cost estimates, and implementation schedules.
5. Review of possible environmental impacts and determination of documentation requirements.
6. Prepare final report documenting the study findings and recommendations.

Estimated Completion Date: June 2003

Estimated DBE Opportunity: 10% of Consultant Contract

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
250,000		200,000		50,000	

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Other</u>	<u>Person Months</u>	<u>Cost</u>
DTS	Consultant		250,000
		Total:	250,000

Objective(s):

To administer the appropriate federal planning grants and the transportation planning program they support.

Product(s):

Effective management of the transportation planning program.

Previous and Ongoing Related Work:

Since 1975, OMPO has been responsible for the management and coordination of the transportation planning process on Oahu. OMPO submits the necessary support documents to obtain Federal planning funds for the transportation planning program as well as monitoring federal grants, supporting various aspects of the program, and providing interagency coordination.

In the past, OMPO staff and/or a Policy Committee member have traveled to the mainland to meet with federal officials and/or peers to discuss federal regulations and processes. Efforts under this work element have also been used to sponsor workshops on transportation planning matters.

The Policy Committee is the decision-making body of the OMPO. It is also an advisory body to the Honolulu City Council and the State Legislature. The Policy Committee is assisted by an administrative staff and is advised by its TAC and CAC. Through this structure, Oahu's transportation planning efforts are integrated into a continuing, comprehensive, and coordinated element.

Impact of Work Element:

Successful implementation of this work element will ensure that Oahu has a cooperative, comprehensive, and continuing (3-C) transportation planning process. In addition, effective program management and coordination is required to provide the basis for decision-making by the Policy Committee and to assure both the Policy Committee and the public that Oahu has an effective, integrated transportation planning program.

Tasks:

1. Provide the administrative support necessary to serve the Policy Committee, TAC, and OMPO office.
2. Represent OMPO at Intermodal Planning Group or other 3-C planning-related meetings, workshops, and conferences, and communicate with federal representatives as required. Participate in the triennial federal certification review.
3. Coordinate the 3-C transportation planning process with OMPO's participating agencies.
4. Manage and oversee selected work elements and assist agencies with project management services.

5. Provide the necessary grant support functions.
6. Purchase computer-related equipment and software for OMPO operations, replace computers as needed, and upgrade and add software applications as needed.
7. Travel to attend conference/meetings, scanning tours (e.g., ITS), and training sessions for OMPO-related matters.

Estimated Completion Date: Ongoing work element.

Estimated DBE Opportunity: None

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
173,100	138,480 ²			34,620	

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
OMPO	Planners	10.9	70,100
	Support Staff	12.2	53,900
OMPO	<u>Other</u>		
	Overhead		21,100
	Travel		8,000
	Computer-related Equipment and Software		
	Computers		10,000
	Software (present application upgrades)		7,000
	Software (additional software)		3,000
	Total:		173,100

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Objective(s):

To provide government agencies and other organizations with information and resources relating to the 3-C planning process.

Product(s):

An effective and accessible transportation planning process.

Previous and Ongoing Related Work:

OMPO is a member of the Chamber of Commerce Transportation Committee, Leeward Oahu Transportation Management Association (LOTMA), DTS Committee on Accessible Transportation, and Energy Functional Plan Advisory Committee and the Institute of Transportation Engineers. These committees meet on a regular basis to discuss transportation issues and recommend a position to their organizations. OMPO has provided information and resources to aid them in their decision-making process.

OMPO has provided testimony and acted as a resource body to various transportation committees of the Honolulu City Council and the State Legislature. OMPO participated in the development of the Waikiki Regional Traffic Impact Plan, the Barbers Point Naval Air Station Reuse Committee, the Hawaii Commercial Harbors 2020 Master Plan Committee, the Ewa Region Highway Transportation Master Plan, and the City Council Committee on Transportation task force on TSM/TDM strategies.

OMPO also reviews the transportation impacts of EIS's for major developments, transportation projects, and special trip generators.

Impact of Work Element:

Successful implementation of this work element will ensure that information developed as part of the 3-C planning process is made available to the various transportation decision-making bodies, government agencies, and other organizations. The success of the 3-C transportation planning process requires this type of interaction.

Tasks:

1. Represent OMPO at appropriate transportation-related organizations and committees.
2. Submit appropriate testimonies, documents, and responses to the Honolulu City Council and the State Legislature.
3. Review the transportation planning aspects of transportation reports and materials for agencies and organizations.
4. Provide transportation presentations, materials, and information to organizations and public.

5. Participate in the State, City, and private sector transportation planning activities such as preliminary review of public/private cost sharing alternatives for transportation services and facility improvements which directly benefit private developments.

Estimated Completion Date: Ongoing work element.

Estimated DBE Opportunity: None

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
43,400	34,720 ³			8,680	

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
OMPO	Planners	5.5	32,000
	Support Staff	1.2	5,100
OMPO	<u>Other</u> Overhead		6,300
		Total:	43,400

³HI-80-2011

WORK ELEMENT 301.03-03 OVERALL WORK PROGRAM

Objective(s):

To develop an Overall Work Program (OWP) for FY 2004 within which the comprehensive regional planning process can be identified and to document the progress of the FY 2003 OWP work elements.

Product(s):

A transportation planning work program defining the work to be performed in FY 2004.

Documentation of the progress of the FY 2003 work elements.

Previous and Ongoing Related Work:

The OWP serves as the key management tool for monitoring State and City transportation activities on Oahu. It describes transportation-related planning studies to be conducted in a given year. The OWP defines project objectives and tasks and identifies budgetary and staff requirements needed to carry out the projects. In addressing current transportation issues and problems, the OWP responds to local planning requirements, federal transportation priorities, and TEA21 requirements. The OWP also includes land use studies as they relate to transportation needs.

OMPO is responsible for coordinating the preparation of the OWP. The OWP is prepared with the active involvement and assistance of the State and City transportation and planning departments, FHWA, FTA, and CAC.

Previous OWPs include several ongoing planning tasks, as well as directing planning efforts in new directions. Many annual tasks provide necessary input to planning, such as those that relate to monitoring and forecasting. Other work elements seek to analyze the existing transportation system to improve its efficiency.

To ensure that interested agencies and individuals can be kept abreast of the activities identified in the OWP, many work elements include task forces or technical advisory committees – comprised of agency staff. These committees serve as advisory bodies and are a conduit to administration. Also, annual progress reports are developed. These reports are generated from the monthly meetings arranged by OMPO with its participating agencies.

Impact of Work Element:

The OWP sets forth the transportation planning activities of the OMPO and its participating agencies for the upcoming year. It includes transportation and transportation-related planning activities, and may include those not federally funded. Moreover, the OWP identifies individual planning projects or work elements and provides a record of objective, anticipated products, related work, tasks, and costs. As a result, it allows coordinated, interrelated review of the proposed transportation planning activities on Oahu by federal officials, policy makers and the general public. Specifically, it is designed to achieve the following:

1. Eliminate duplication of transportation-related planning studies.

2. Develop interrelationships among transportation planning, land use planning, urban design/beautification, and environmental and other elements of the comprehensive planning process.
3. Ensure coordinated phasing and implementation of State and City transportation planning activities.
4. Provide the technical basis for future transportation projects and programs through planning studies conducted as part of the OWP.
5. Qualify applicable planning activities for federal reimbursement.

Tasks:

1. State and City agencies and OMPO will identify planning needs, approaches, and funding requirements for the FY 2004 OWP.
2. OMPO will follow the Public Involvement Program procedures in the development of the OWP.
3. OMPO will obtain and coordinate the necessary approvals for the OWP and any subsequent amendments.
4. OMPO will provide the necessary support and coordination for OWP work elements.
5. OMPO will monitor and document progress of all OWP activities.

Estimated Completion Date: Ongoing work element

Estimated DBE Opportunity: None

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
46,400	37,120 ⁴			9,280	

⁴ HI-80-9011

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
DBEDT	Planner	0.2	1,000
DOT-STP	Planner/Engineer	0.8	4,000
DPP	Planner	0.2	1,000
DTS	Planner/Engineer	1.3	6,000
OMPO	Planners	4.0	23,000
	Support Staff	1.5	6,400
OMPO	<u>Other</u> Overhead		5,000
		Total:	46,400

Objective(s):

To ensure effective citizen participation in the 3-C transportation planning process on Oahu.

Product(s):

An established Citizen Advisory Committee (CAC) that reviews transportation planning issues and reports its recommendations to the OMPO Policy Committee.

Previous and Ongoing Related Work:

The OMPO CAC was created by the Policy Committee in July 1977 to ensure effective public input into Oahu's transportation planning process. The CAC currently consists of 48 member organizations representing various interests on Oahu. Since its formation, the CAC has heard and discussed various transportation issues on Oahu; has become a vehicle for public input; and has made recommendations to the Policy Committee on OMPO documents and transportation projects and issues.

The CAC Chair usually prepares agendas for CAC meetings. However, agenda items may be proposed by any CAC member. The meetings provide an opportunity for member organizations to hear about transportation issues and programs from the people involved in their development and/or implementation. Ad hoc committees are formed as needed to review specific transportation documents or to discuss transportation issues. These subcommittees pass their recommendations to the full CAC for further discussion and/or approval.

During FY 2001, the CAC continued to be actively involved in the OMPO planning issues. As part of the update of the ORTP, a task force of the CAC was formed to assist the consultant preparing the ORTP in developing a public involvement plan (PIP) tailored for the ORTP. The ORTP PIP Task Force met often with the consultant to discuss various public involvement techniques, formats of the meetings, and associated materials. The resulting effort combined a number of public involvement methodologies to reach out to people who have an established interest in transportation planning as well as those who are not as likely to participate in the public involvement process.

For the former, a series of six regional meetings were held in various communities on Oahu. The meetings began with an overview of the ORTP, after which attendees were invited to fill out a QuickPick Form. The QuickPick Form listed the 100-plus projects being considered for inclusion into the draft ORTP. People were encouraged to give their priorities on project and policy issues.

For the latter, "special needs" group focus meetings were held. These reached out to the households in poverty, to the homeless, to the elderly, and to the disabled. The QuickPick Form was used as a basis for discussion of transportation issues.

In addition to focus group and regional meetings, a statistically significant survey was administered. People were asked about specific projects as well as their priorities for funding these projects.

The ORTP has been the primary focus of the CAC in FY 2001. However, presentations were also made to the CAC on the City's DEIS for their PCTS, a subject of interest to many CAC member organizations. Additional issues were also introduced by CAC member organizations.

In FY 2002, the CAC has been focusing on the education of its members. The State and City transportation agencies have given presentations about major projects and programs, including some studies funded through previous work elements. Additionally, CAC members continue to introduce issues and make presentations about their organizations.

Impact of Work Element:

Successful implementation of this work element will provide necessary citizen input for decision-making by the Policy Committee and will promote improved public information about transportation planning issues.

Tasks:

1. OMPO to attend committee and subcommittee meetings, and provide available technical support for the CAC and its subcommittees.
2. OMPO to provide effective coordination with other citizen groups on Oahu concerned with transportation planning, such as the Committee on Accessible Transportation, neighborhood boards, areawide planning forums, and transportation management associations.
3. OMPO to coordinate the CAC's participation in the timely review of activities identified in the PIP.
4. OMPO to review and update, if appropriate, OMPO's proactive public involvement program.
5. OMPO to design and carry out public information programs on transportation planning for the general public as required by the 3-C planning process.
6. OMPO to brief new and interested members/organizations on the metropolitan planning process.

Estimated Completion Date: Ongoing work element.

Estimated DBE Opportunity: None

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
53,600	42,880 ⁵			10,720	

⁵HI-80-2011

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
OMPO	Planners	8.2	41,500
	Support Staff	1.0	4,300
OMPO	<u>Other</u> Overhead		7,800
		Total:	53,600

Objective(s):

To ensure that the financial operations of OMPO and its subgrantees are in compliance with applicable federal laws and regulations pursuant to the Single Audit Act of 1984 and the amendments of 1996.

Product(s):

An independent auditor's report on compliance and on internal control over financial reporting based on an audit of the financial statements of OMPO and its subgrantees satisfying the requirements of Office of Management and Budget (OMB) Circular A-133 for FY 2002.

Annual financial and progress reports on OWP work elements are prepared by OMPO and submitted to FTA and FHWA. Semi-annual Disadvantaged Business Enterprises participation reports are also prepared and submitted to the appropriate federal agencies.

Previous and Ongoing Related Work:

Financial audits of OMPO and its subgrantees are conducted annually in accordance with the Single Audit Act of 1984 and OMB Circular A-133. The audit contract for FYs 2001, 2002, and 2003 was awarded to Egami & Ichikawa CPA's, Inc. in accordance with the State's procurement laws. The audit for FY 2001 was conducted in November 2001. The final report is due in March 2002 and will be distributed to the appropriate Federal, State, and City agencies.

Impact of Work Element:

The audit will determine and report whether:

1. The financial statements of OMPO present fairly OMPO's financial position and the results of OMPO's financial operations in accordance with generally accepted accounting principles;
2. OMPO has internal accounting and other control systems to provide reasonable assurance that OMPO manages federal financial assistance programs in compliance with applicable laws and regulations; and
3. OMPO has complied with laws and regulations that may have material effects on its financial statements and on each major federal assistance program.

Tasks:

1. Consultant to audit OMPO and its subgrantees consistent with OMB Circular A-133 requirements.
2. OMPO to provide the necessary administrative and liaison support.
3. OMPO to prepare and maintain records suitable for audit.

4. OMPO to comply with federal financial management and reporting requirements.

Estimated Completion Date: Ongoing work element.

Estimated DBE Opportunity: None

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
26,700	21,360 ⁶			5,340	

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
OMPO	Financial Specialist/Planners	1.5	6,900
	Support Staff	0.7	3,100
OMPO	<u>Other</u>		
	Overhead		1,700
	Audit Contract		15,000
		Total:	26,700

⁶HI-80-9011.

Objective(s):

To give minority-owned, women-owned, and other disadvantaged small business enterprises an opportunity to compete for federally-assisted planning projects; and to involve the private sector in the planning and programming phases of project development.

Product(s):

1. OMPO Disadvantaged Business Enterprise (DBE) goals and supporting documentation
2. List of DBE certified firms
3. Revised OMPO DBE Goals, if necessary

Previous and Ongoing Related Work:

The USDOT has encouraged full consideration of the potential services that could be provided by DBE firms in the development of transportation plans and programs and the provision of transit services.

OMPO, for DBE program purposes, is considered a sub-recipient of the State DOT federal assistance funds and adopted the State DOT's DBE Program on September 14, 1999.

As OMPO advertises and awards its own contracts, separate goals for both FTA and FHWA must be established for OMPO projects. OMPO and its participating agencies have established DBE goals since 1980. OMPO's present DBE goal for work efforts undertaken as part of the FY 2002 OWP is 9% for FHWA funds.

The threshold requirements for FTA recipients to establish DBE Programs and to submit overall goals was changed to \$250,000 in contracting opportunities. FTA recipients who reasonably anticipate awarding \$250,000 or less in prime contracts in a fiscal year are not required to submit a DBE plan and will not have to submit a DBE overall goal that year. OMPO receives an average of \$250,000 in FTA grants annually. We anticipate contracting opportunities of less than \$30,000 and, as such, will not be setting a DBE goal for FY 2003 FTA funds.

OMPO has been a resource for private companies interested in providing transportation services. OMPO has met with and provided information to private developers and transportation providers. OMPO is also an ex-officio member of LOTMA, a transportation management association.

Impact of Work Element:

The certification and use of DBE firms in contracting opportunities will aid in achieving OMPO's goals regarding our program for disadvantaged small businesses. This work element also strives to provide early involvement of private operators in the planning of transportation services.

Tasks:

1. OMPO to identify potential DBE firms and encourage them to apply for State DOT certification.
2. OMPO to monitor DBE goals to ensure that only the percentage projected to be unattainable through race neutral methods be set as a goal in new contracts awarded.
3. OMPO to monitor all payments made to consultants to ensure that the required monthly report of DBE participation accompanies all invoices submitted. A copy of this monthly report to be forwarded to the State DOT DBE Liaison Officer.
4. OMPO to document DBE activities to FTA and FHWA through the State DOT.
5. OMPO to develop annual DBE goals.
6. OMPO to facilitate/coordinate agency-private sector interaction in the 3-C process.

Estimated Completion Date: Ongoing work element

Estimated DBE Opportunity: None

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
8,200	6,560 ⁷			1,640	

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
OMPO	Financial Specialist/Engineers	1.2	6,700
	Support Staff	0.1	300
	<u>Other</u>		
OMPO	Overhead		1,200
		Total:	8,200

⁷HI-80-2011

SECTION III

WORK ELEMENTS PROGRAMMED IN PREVIOUS OWPS FISCAL YEARS 1995-2002

The work elements in this section have been programmed and approved in previous years and are included for the information of the reader.

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WORK ELEMENT 201.01-01 INVESTIGATION OF ITS TECHNOLOGY FOR USE IN COLLECTING CMS DATA (as amended)⁸

Objective(s):

To implement the OMPO congestion management system (CMS).

Product(s):

1. CMS Performance Monitoring and Evaluation Procedures report
2. CMS Effectiveness Evaluation report
3. Identification of Potential ITS Technology for use in CMS Report

Previous and Ongoing Related Work:

Under federal regulations, transportation management areas, such as Oahu, must develop a CMS as part of their metropolitan transportation planning process. The CMS is a system to monitor and analyze the magnitude of congestion and to plan and implement actions that alleviate congestion and enhance the performance of the transportation system.

The initial development of such a system was undertaken by the State Department of Transportation in 1994 through a consultant contract with Austin Tsutsumi & Associates, Inc. (ATA). As part of the contract agreement with ATA, the collection of travel time/running speed data was collected to establish baseline conditions on the major regional roadway system. Although major work on various CMS components has been completed, work was still needed to fully integrate the CMS into the metropolitan planning process.

In FY 2000, OMPO and its participating agencies began finalizing the necessary steps to establish such a system into its planning process. The foundation of Oahu's CMS would be based upon work completed under the ATA contract and processes used by the State Department of Transportation and City Department of Transportation Services in monitoring the transportation system and evaluating transportation strategies. The public would continue to be given the opportunity to comment on proposed strategies as part of the metropolitan transportation planning process. The CMS is expected to evolve with time and as new resources become available.

A CMS procedures and responsibilities report has been developed which contains schedules for implementation, a description of how the CMS is structured, and identification of agencies' responsibilities.

⁸Administratively amended with FHWA approval December 19, 2001. Also, the title of this work element was changed on April 30, 2002. The original name of the work element was "Implementation of the Congestion Management System".

Since the development of the CMS, certain strategies and projects have been implemented. Data to measure their effectiveness are being collected on the H-1 Freeway (zipper lane), the H-3 Freeway, Pali Highway, Likelike Highway, and Moanalua Freeway. Travel time/running speed data will be collected using the same methodology (average-car technique) as previously done by ATA.

In 2001, DOT applied the methodology used by ATA to collect data on Oahu. OMPO and its participating agencies have continued to investigate more cost-effective ways of collecting travel time data.

Identification of Need:

A fully implemented CMS will provide decision-makers and the public with a better understanding of existing and projected traffic congestion and better information on the effectiveness of transportation strategies. This will also result in more consistent and systematic procedures for analyzing and comparing traffic mitigation measures. The CMS is also a federal requirement for Oahu.

However, the existing method of collecting travel time/running speed via the average-car technique is generally understood as being very labor intensive. The manpower limitations of this methodology severely restrict the amount of data collected for the CMS. Research needs to be conducted to identify other types of technologies that would ease the burden of collecting travel time/running speed data.

Impact of Work Element:

This work element will carry out the tasks identified in the CMS procedures and responsibilities report.

Tasks:

1. CMS Technical Committee to document data collection and analysis procedures.
2. DOT to collect data to measure the effectiveness of certain strategies and projects that have been implemented since the development of the CMS.
3. Consultant to investigate and recommend ITS technology for CMS use. Research, evaluate, and report on existing CMS practices.
4. Consultant to apply selected technology to collect data on an identified travel corridor.
5. Appropriate representatives from the CMS Technical Committee to visit areas currently using CMS data collection methods applicable for Oahu.
6. CMS Technical Committee to identify, evaluate, and recommend transportation strategies to address serious congestion problem locations.
7. CMS Technical Committee to evaluate and document the effectiveness of strategies that were implemented by DOT and DTS.

8. Consultant to assist in evaluating the effectiveness of selected strategies.

Estimated Completion Date: December 2003

Estimated DBE Opportunity: No DBE percentage specified

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
302,000		241,600		60,400	

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
DBEDT	Planners	0.5	2,500
	DOT-HWY-T Planners/Engineers	22.5	102,100
DPP	Planners	0.5	2,500
DTS	Planners/Engineers	1.0	5,000
OMPO	Planners/Engineers	4.0	23,000
	Support Staff	0.9	3,600
	<u>Other</u>		
	DOT-HWY-T Software and Equipment		25,000
	Consultant to investigate ITS technology for CMS use		120,000
	CMS Technical Committee Site Visit		10,400
OMPO	Overhead		7,900
		Total:	302,000

WORK ELEMENT 201.05-02 2000 CENSUS DATA

Objective(s):

To ensure that the 2000 Census data is utilized to its fullest potential.

Product(s):

1. Integration of 2000 census data into the planning process.
2. Dissemination of census data information to the public and participating agencies.

Previous and Ongoing Related Work:

In the late 1980's, OMPO became an affiliate member of the State Data Center. This enabled OMPO to participate in the receipt and dissemination of census data. This membership carried with it the responsibility for helping to disseminate census information to the public and other State and City agencies.

During FY 2000, OMPO assisted the U.S. Bureau of the Census in collecting data on work places and locations of major employers in the urbanized areas of Oahu. This work included geocoding and verifying workplace locations. The purpose of this effort was to improve the quality of the place-of-work data gathered during the 2000 census and packaged by the census for each state.

The 2000 Census will begin release of its primary data in FY 2001. This information will be valuable in the development of socio-economic input for transportation planning and in the analysis of Title VI and EJ impacts.

Impact of Work Element:

Updated census information will be valuable in the development of updated socio-economic data for the planning process.

Identification of Need:

Census data is an important source of socio-economic information. It is important that OMPO staff be familiar with this data and be able to integrate it into the planning process. The U.S. Census Bureau has informed the users of its information that much of the data will be released on DVD discs since they provide higher storage capabilities.

Tasks:

1. OMPO to review and analyze of the 2000 census data.
2. OMPO to assist in the integration of 2000 census data into the planning process.
3. OMPO to purchase two DVD players to assist in the use of Census data.

4. OMPO to correspond when necessary with U.S. Census Bureau to resolve discrepancies.
5. OMPO to participate in the activities of the State Data Center and assist in the dissemination of census information to the public and other agencies.

Estimated Completion Date: This is an ongoing work element

Estimated DBE Opportunity: None

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
23,600		18,880		4,720	

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
OMPO	Planners	1.4	17,100
	Support Staff	0.2	700
	<u>Other</u>		
OMPO	Overhead		4,400
	DVD players		1,400
		Total:	23,600

WORK ELEMENT 201.15-01 INTELLIGENT TRANSPORTATION SYSTEMS

Objective(s):

To develop an integration strategy plan and a regional Intelligent Transportation Systems (ITS) architecture plan for Oahu.

Product(s):

1. Interagency agreements and memorandums of understandings with ITS partners.
2. A Concept of Operations plan that integrates the various systems currently being operated by the State and City. This integrated ITS system for Oahu will cross modal and jurisdictional boundaries.
3. A Regional ITS Architecture plan for Oahu based on the National Architecture.

Previous and Ongoing Related Work:

ITS Early Deployment Program Plan for Oahu

The ITS Early Deployment Plan for Oahu was prepared by DTS in May 1998. The ITS Plan presented a blueprint for the deployment of ITS on Oahu.

Honolulu Freeway Management System (FMS)

DOT has been operating the H-3 Freeway Management System since December 1997. The H-3 FMS is capable of real-time traffic monitoring, operational traffic controls, and incident management via surveillance cameras, pavement loop detectors, dynamic message signs, motorist-aid telephones, and emergency response equipment. Traffic operations are co-located with the Trans-Koolau Tunnel Control Center in the Halawa Valley Tunnel Portal structure.

Currently, incidents detected by the H-3 FMS are coordinated with emergency response agencies through the local 911 system. Traveler information is disseminated through the use of dynamic message signs and telephone contacts. The control center is equipped with Internet access. A web site is available for viewing pictures from the H-3 surveillance camera system.

Computerized Traffic Control System (CTCS)

In Phase IV of the CTCS, DTS constructed a traffic fiberoptic network and system to Pali Highway, Likelike Highway, and Kamehameha Highway in Aiea and Pearl City, linked to the Traffic Control Center. Along with the new fiberoptic lines, 28 new traffic cameras were installed at various critical locations to assist in the operations, optimization, and improvement of the signal coordinate. Fiberoptic communications were established with the Oahu Civil Defense Agency, Honolulu Fire Department, Honolulu Police Department, and the State Department of Transportation administrative facility.

Phase V of the CTCS installed a new traffic fiberoptic backbone system from Pearl City to Ewa along Farrington Highway. An additional 45 traffic cameras will be installed to include the H-1

freeway ramps and the main arterial in Waipahu. Fiber optic communications will be interconnected to the State Department of Transportation Construction and Maintenance facility.

Phase VI of the CTCS expands the Traffic Control Center to include functions, provisions, and operations for transit traveler information and priority operations. With the increased responsibilities, the Center expects to increase staffing for 24-hour operations concentrating on premium transit operations, incident management, construction mitigation, and traveler information. Other work will include the conversion of the existing copper signal communications to a complete fiberoptic network for all Traffic Control Center infrastructures. Fiber optic communications will be linked to the State Department of Transportation's H-3 Management Center.

OMPO ITS Task Force

On July 22, 1998, a temporary task force, made up of DOT, DTS, FHWA, and OMPO staff, was formed by the OMPO TAC to outline an organizational structure to address ITS policy issues.

The Task Force proposed the following structure:

- The OMPO Policy Committee would serve as the ITS policy decision-maker.
- TAC would serve as a technical resource to the OMPO Policy Committee.
- An ITS Task Force would be formed to serve as the ITS technical expert arm of TAC. This task force would consist of TAC agency representatives, an FHWA representative, and ad hoc members as required by the agenda (e.g., Honolulu Fire Department, Honolulu Police Department, Oahu Civil Defense Agency).
- The OMPO Citizen Advisory Committee would provide public input to the OMPO Policy Committee.
- The OMPO staff would coordinate and promote discussions on potential policy issues within the OMPO process and would advise the OMPO Policy Committee.

On March 24, 2000, TAC recommended to the OMPO Policy Committee that they endorse this organizational structure.

Identification of Need:

During the March 2000 certification review of OMPO's transportation planning process, the federal team recommended that all the ITS projects of both the State and City be integrated into one network, and information be shared and utilized. They also recommended the development of a Regional ITS Architecture that is based on the National Architecture.

A Consultant will be hired to serve as an ITS integrator and resource specialist for OMPO. The Consultant will provide technical advice, direction, and answers to facilitate systems integration and establish a regional architecture for Oahu.

Impact of Work Element:

This work element will establish interagency agreements and Memorandums of Understandings with stakeholders. With these agreements in place, OMPO can work towards integrating the State and City ITS systems and implementing a joint vision of the system. Training and technical support provided with this work element will allow OMPO and its participating agencies to integrate the regional architecture into the planning process and continue to use the architecture in project development.

Tasks:

1. Participate in an FHWA-sponsored Tier I workshop. This workshop convenes key stakeholders to introduce them to the basic steps and concepts necessary to begin development of a regional ITS architecture.
2. Consultant to assist as an ITS technical resource for OMPO.
3. Consultant to assist in establishing regional interagency agreements on interoperability, ITS standards, and routine operations.
4. OMPO and its participating agencies to assist and participate in the review of work products.
5. Consultant to review systems developed or being developed by stakeholders.
6. Participate in FHWA-sponsored architecture training courses and partnering workshops.
7. Consultant to assist in developing a plan to integrate the various systems that are operated by the City and State and to implement a joint vision of the system. This plan will address the resource commitments and staging of planned investments.
8. Participate in FHWA-sponsored Tier II workshop. This workshop helps stakeholders develop an initial version of a partial regional architecture, and positions them to complete and maintain the regional architecture.
9. Consultant to work with OMPO and its participating agencies, and stakeholders to develop a regional ITS architecture based on the National Architecture.

Estimated Completion Date: February 2003

Estimated DBE Opportunity:

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>ITS⁹</u>	<u>Local M</u>	<u>Local S</u>
272,755		170,204	60,000	42,551	

⁹ FY 2001 ITS Service Plan Funds (100%).

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
DOT-HWY	Planners/Engineers	0.7	3,500
DTS	Planners/Engineers	0.7	3,500
OMPO	Planners/Engineers	6.0	30,000
	Support Staff	1.5	5,250
OMPO	<u>Other</u>		
	Overhead		10,505
	Consultant		210,000
	Training/Workshop		10,000
		Total:	272,755

WORK ELEMENT 201.20-02 TITLE VI AND ENVIRONMENTAL JUSTICE
MONITORING

Objective(s):

To assess the quality and level of participation of the populations covered by Title VI of the Civil Rights Act of 1964 and the requirements of the Environmental Justice Order 12898 in the metropolitan planning process.

To analyze and evaluate the benefits and impacts of transportation projects on the populations covered by Title VI and Environmental Justice regulations.

To enable the Geographic Information System (GIS) Analysis Tool to be used by OMPO's participating agencies over the Internet.

Product(s):

1. Update of the Title VI and Environmental Justice database to incorporate data from the 2000 Census and other available sources.
2. Analysis of the OWP and associated amendments, TIP and associated amendments, the public involvement program, and ORTP amendments using the GIS Analysis Tool.
3. Documentation of changes and analysis.
4. An Internet friendly GIS Analysis Tool.

Previous and Ongoing Related Work:

The Proposed Rules for the Federal Register Volume 65, Number 102, released on May 25, 2000, state that, "Transportation plan development and plans shall be consistent with Title VI of the Civil Rights Action of 1964, as amended and implementing regulations . . . which ensure that no person shall, on the grounds of race, color, sex, national origin, age, or physical handicap, be excluded from the participation in, be denied benefits of, or be otherwise subjected to discrimination under any program or activity receiving Federal assistance from the United States Department of Transportation" (23 CFR §1410.316(c)). The Executive Order on Environmental Justice further amplifies Title VI by providing that "each Federal agency shall make achieving environmental justice part of its mission by identifying and addressing, as appropriate, disproportionately high and adverse human health or environmental effects of its programs, policies, and activities on minority populations and low-income populations."

OMPO has developed an Interim Title VI & Environmental Justice Plan that has been used to evaluate the distribution of transportation investments as part of the FYs 2000-2002 TIP Amendment #3. In FY 2001, the consultant developed the 2025 ORTP evaluated projects proposed in the ORTP for compliance with Title VI and Environmental Justice populations.

OMPO is in the process of developing a Title VI and Environmental Justice Monitoring Plan, comprised of a GIS Analysis Tool, procedures for using the tool to analyze OMPO's existing programs (OWP, TIP, ORTP, and public involvement process), and evaluation of these programs. Part of the GIS Analysis Tool includes the development of a database that identifies Title VI and Environmental Justice populations, as well as performance measures to evaluate the distribution of the benefits of OMPO's existing programs upon Title VI and Environmental Justice populations. The project is anticipated to be complete in September 2001; at which time, these components will be incorporated into a final plan that will be endorsed by the OMPO Policy Committee.

Identification of Need:

OMPO has incorporated Title VI and Environmental Justice concerns into its programs and has identified opportunities to enhance the Title VI and Environmental Justice efforts and analysis capabilities. OMPO's participating agencies are also required to meet Title VI and Environmental Justice regulations. The GIS Analysis Tool can be a dynamic tool that is available for multiple users on the Internet.

Impact of Work Element:

This work element will be implemented over a period of three years. It will evaluate projects in the FYs 2002-2004 TIP, FY 2004 OWP, FY 2005 OWP, and associated amendments, for impacts on the Title VI and Environmental Justice populations. If necessary, this work element will evaluate amendments to the ORTP and the public involvement process.

OMPO's participating agencies will be involved in this effort, and their metropolitan planning needs will be incorporated where appropriate and feasible. In addition, the work element will enable OMPO staff to continue to implement and maintain the Title VI and Environmental Justice procedures and program for the metropolitan planning process.

It will refine performance measures as appropriate to evaluate the effectiveness in engaging the participation of Title VI and Environmental Justice populations as well as the impact of proposed projects and programs on these populations. As a result, it will identify barriers to participation and ways to eliminate them, and examine the distribution of benefits and burdens of transportation investments to these populations.

Tasks:

1. Evaluate projects in the FYs 2002-2004 TIP, FY 2004 OWP, FY 2005 OWP, and associated amendments, for compliance with Title VI and Environmental Justice regulations.
2. Refine performance measures as appropriate to evaluate the effectiveness in engaging the participation of Title VI & Environmental Justice populations.
3. Implement these strategies as needed, and monitor the activities of the participating agencies during the OMPO planning process.
4. Consultant to assist in necessary hardware and software installation related to deployment of the web-based Title VI and Environmental Justice GIS Analysis Tool.

5. Consultant to provide technical support to OMPO, including system maintenance and system administration services.
6. Consultant to assist in updating the database used for the Title VI and Environmental Justice GIS Analysis Tool.
7. Administer related contract(s).
8. Include OMPO's participating agencies in the development and implementation of the review procedures as they relate to Title VI and Environmental Justice requirements for the metropolitan planning process.
9. Document Title VI and Environmental Justice accomplishments.

Milestones

Evaluation of FY 2002-2004 TIP	December 2001
Evaluation of TIP/OWP Amendments	As needed
Evaluation of ORTP Amendments	As needed
Evaluation of PIP	As needed
Update of GIS Analysis Tool	Dependent upon release of 2000 Census data
Contract Advertisement	April 2002
Contractor Selection	July 2002
Contractor Start Work	October 2002
Equipment Purchase	December 2002
Installation of Equipment	February 2003
System Administration and Maintenance	Ongoing, once equipment is installed

Estimated Completion Date: July 2004

Estimated DBE Opportunity: 2%

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
401,400		321,120		80,280	

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
DBEDT	Planners	1.0	5,000
DOT-STP	Planners	1.0	5,000
DPP	Planners	1.0	5,000
DTS	Planners	1.0	5,000
OMPO	Planners/Engineers	10.4	60,300
	Support Staff	1.3	10,500
OMPO	<u>Other</u>		
	Overhead		15,600
	Equipment: Server (e.g., Dell PowerEdge)		30,000
	Equipment: Internet Software (e.g., ArcIMS)		10,000
	Equipment: Operating System (e.g., WindowsNT)		5,000
	Consultant		250,000
		Total:	401,400

Estimated Costs by Fiscal Year:

	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>Total</u>
Agencies	6,667	6,667	6,666	20,000
OMPO	22,200	25,400	23,200	70,800
Overhead	5,000	5,500	5,100	15,600
Consultant/Equipment		170,000 ¹⁰	125,000	295,000 ¹¹
Total	33,867	207,567	159,966	401,400

¹⁰ The amounts previously designated as consultant (\$125,000) and equipment (\$45,000) have been combined (\$170,000).

¹¹ The amounts previously designated as consultant (\$125,000) and equipment (\$45,000) have been combined (\$170,000).

WORK ELEMENT 202.01-95 MODEL DEVELOPMENT¹²

Objective(s):

To establish a transportation demand forecasting capability responsive to the needs of the 3-C planning process.

Product(s):

A forecasting model calibrated with current and local data.

Previous and Ongoing Related Work:

In 1960, the Oahu Transportation Study was undertaken as the first comprehensive transportation planning effort for Oahu. This study collected an extensive set of transportation data, together with household characteristics, using a home-interview procedure, supplemented by traffic counts, a taxi survey, an on-board survey, and a commercial-vehicle survey. To a large extent, these data and the forecasting models developed from them were used for the next two decades.

Due to the age of the data base and new forecasting needs identified in a 1979 study, OMPO and its participating agencies contracted the services of a consultant in 1980 to update the trip generation and mode choice models. A small sample origin-destination (O-D) survey was conducted in 1981 as part of this effort. The consultant, and later OMPO and its participating agencies, spent the next few years calibrating and validating the models.

During the late 1980's, the City was involved in developing ridership forecasts for their proposed rapid transit system. This effort revealed the shortcomings of using the OMPO models for the detailed transit projections. While reviewing the rapid transit forecasting effort, the Federal Transit Administration commissioned a study that identified several deficiencies with the OMPO models. As a result, a separate transit travel demand model was developed for the project. The highway element was not updated.

OMPO and its participating agencies also expressed their desire to upgrade the forecasting models in order to conduct more sensitive project level plan evaluations. During the early 1990's, the TAC endorsed the conversion of the OMPO model forecasting capabilities from the mainframe computers to microcomputers using the TRANPLAN software. Further, the OMPO Policy Committee agreed, with the TAC's recommendation, to develop new forecasting models.

Preliminary work on the development of new models were initiated in FY 1993. A peer review group, consisting of five mainland modeling experts, was formed to assist the OMPO's modeling task force in developing a scope of work and providing direction/options for this effort. The peer review group met in FY's 1994 and 1995. On August 29, 1994, OMPO executed a contract with Parsons Brinckerhoff Quade & Douglas, Inc. to develop new travel forecasting models. An origin destination survey was conducted during the latter half of FY 1995.

¹²Carryover work element from FY 1995 OWP.

Impact of Work Element:

The completion of this work element will provide a higher level of confidence in transportation demand forecasts which are necessary in the analysis of transportation and land-use plan alternatives at the regional and project level. The level of effort for each task is included in parentheses.

Tasks:

1. Agencies to provide direction to and review products from the model development effort. (However, no federal reimbursement will be sought for participating agencies.) (5%)
2. Consultant to calibrate and validate transportation demand forecasting models, using HPMS data among other sources. (76%)
3. Consultant to identify new information requirements in land-use and calibrate and validate the new elements in the land use model. (12%)
4. Computer equipment and related software to be purchased for modeling effort. (3%)

Note

Additional tasks, funded in FY 2001, are listed in WE 202.01-01 (found in Section II).

Estimated Completion Date: July, 2002

Estimated Cost by Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
1,100,000		693,000		220,000	187,000

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Other</u>	<u>Person Months</u>	<u>Cost</u>
OMPO	Consultant		1,100,000
		Total:	1,100,000

WORK ELEMENT 202.02-00 FORECASTING MODEL USERS GROUP AND TRAINING

Objective(s):

To enhance the travel forecasting modeling capabilities of Oahu's transportation planning process.

Product(s):

1. A forecasting model users group.
2. Enhanced documentation on the travel forecasting modeling process.
3. Report on Oahu travel patterns and behavior.

Previous and Ongoing Related Work:

OMPO contracted Parsons Brinckerhoff Quade and Douglas to develop new forecasting models. These models are expected to be completed in FY 2000 and will be used to update Oahu's regional transportation plan. As part of the model development effort, a 4,000 household survey was conducted and used to calibrate the travel models. This data base is one of the most extensive and current set which describes travel behavior on Oahu.

Although OMPO and its participating agencies have been given some preliminary training during the development of these models, more exposure and training is still required to achieve proficiency in this field.

In a December 1995 certification review of the OMPO planning process, federal review agencies stated,

“FHWA/FTA laud OMPO's effort and commitment to developing not only a best practices model, but an extended model for travel demand forecasting which could advance the state of the art. When the models are complete, OMPO must be prepared to maintain the model. We strongly encourage that OMPO and its partners commit appropriate resources to maintain the models after completion and formalize this commitment.”

As a result, OMPO has hired a planner to augment its existing modeling staff to maintain and use the models. The OMPO Executive Committee has insisted that the hired modeling planner be given training opportunities to ensure these capabilities. OMPO's participating agencies also support continued training in the models for their staff.

Identification of Need:

Without a qualified trained modeling staff, OMPO and its participating agencies will be dependent upon consultants whenever a model run is required. In-house modeling capabilities will also allow the planning process to be more responsive to decision-makers and the public when asked “what if” scenarios of traffic impacts.

Impact of Work Element:

An in-depth analysis of the household survey will give transportation planners a better understanding of travel behavior on Oahu. When compared to other surveys or census data, this data base can be used as a reference for identifying changes in travel behavior.

Tasks:

1. Establish and support a model users group.
2. Test the sensitivity and limits of the forecasting models.
3. Attend training sessions and workshops to enhance modeling capabilities.
4. Sponsor workshops and/or training opportunities for transportation modelers.
5. Analyze household survey and document results.
6. Document any modification to user's manual.

Estimated Completion Date: June 2003

Estimated Cost by Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
57,857	46,286 ¹³			11,571	

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
DOT-HWY-P	Planners/Engineers	0.6	3,000
DOT-STP	Planners/Engineers	1.6	7,857
DPP	Planner	1.0	5,000
DTS	Planners/Engineers	2.0	10,000
OMPO	Planners	4.2	20,700
	Support Staff	0.8	2,800
OMPO	<u>Other</u> Overhead		8,500
Total:			57,857

¹³HI-80-9008.

WORK ELEMENT 202.05-01 FORECASTING MODEL ANALYSIS

Objective(s):

To support the transportation planning process through testing and refinement of the revised travel forecasting model package.

Product(s):

1. Refinements to the travel forecasting model.
2. Analysis of travel patterns using the revised travel model.
3. Documentation of changes and analysis

Previous and Ongoing Related Work:

In 1960, the Oahu Transportation Study was undertaken as the first comprehensive transportation planning effort for Oahu. This study collected an extensive set of transportation data, together with household characteristics, using a home-interview procedure, supplemented by traffic counts, a taxi survey, an on-board survey, and a commercial-vehicle survey. To a large extent, these data and the forecasting models developed from them were used for the next two decades.

Due to the age of the data base and new forecasting needs identified in a 1979 study, OMPO and its participating agencies contracted the services of a consultant in 1980 to update the trip generation and mode choice models. A small sample origin-destination (O-D) survey was conducted in 1981 as part of this effort. The consultant, and later OMPO and its participating agencies, spent the next few years calibrating and validating the models.

During the late 1980's, the City was involved in developing ridership forecasts for their proposed rapid transit system. This effort revealed the shortcomings of using the OMPO models for the detailed transit projections. While reviewing the rapid transit forecasting effort, the Federal Transit Administration commissioned a study that identified several deficiencies with the OMPO models. As a result, a separate transit travel demand model was developed for the project. The highway element was not updated.

OMPO and its participating agencies also expressed their desire to upgrade the forecasting models in order to conduct more sensitive project level plan evaluations. During the early 1990's, the TAC endorsed the conversion of the OMPO model forecasting capabilities from the mainframe computers to microcomputers using the TRANPLAN software. Further, the OMPO Policy Committee agreed, with the TAC's recommendation, to develop new forecasting models.

Preliminary work on the development of new models was initiated in FY 1993. A peer review group, consisting of five mainland modeling experts, was formed to assist the OMPO's modeling task force in developing a scope of work and providing direction/options for this effort. The peer review group met in FY's 1994 and 1995. On August 29, 1994, OMPO executed a contract with Parsons Brinckerhoff Quade & Douglas, Inc. to develop new travel forecasting models. An

origin destination survey was conducted during the latter half of FY 1995. The majority of the model calibration effort was conducted in FY 1998-99.

The model update effort was completed in the Spring of 2000. The revised models were first tested and used during the PCTS and used to develop the ORTP.

Identification of Need:

Travel forecasting and modeling are important skills for transportation agencies to understand and use. This work element will provide needed training for OMPO staff and allow them to familiarize themselves and to begin to use the new models.

Impact of Work Element:

The completion of this work element will provide a higher level of confidence in transportation demand forecasts which are necessary in the analysis of transportation and land-use plan alternatives at the regional and project level

Tasks:

1. OMPO to review model calibration and documentation; identify issues and concerns for OMPO and its participating agencies to discuss and/or resolve; and meet with participating agencies, and affected agencies to discuss progress/issues/needs of model development effort.
2. OMPO to test run the travel forecasting model. Identify and document needed adjustments to the model.
3. Document any modification to user's manual
4. Analyze household survey and document results.
5. Analyze Oahu travel patterns and behavior.

Estimated Completion Date: June 2003

Estimated DBE Opportunity: None

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
33,800	13,520 ¹⁴	13,520		6,760	

¹⁴HI-80-2009.

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
OMPO	Planners/Engineers	5.8	25,600
	Support Staff	0.1	400
OMPO	<u>Other</u> Overhead		7,800
		Total:	33,800

WORK ELEMENT 202.09-01 NATIONWIDE PERSONAL TRANSPORTATION
SURVEY – ADD-ON PROGRAM

Objective(s):

To collect useful data through the Nationwide Personal Transportation Survey (NPTS) Add-on program.

Product(s):

An edited, documented data set of travel characteristics, vehicle ownership and use, and socio-demographic characteristics of households, persons, and neighborhoods for Oahu.

Previous and Ongoing Related Work:

The model update effort conducted a household survey in 1995 in order to provide data to validate the model set. In addition, the Census Bureau conducted its decennial census in 2000 which included questions on journey to work trips. However, because Honolulu is below the one million population threshold, we will not receive origin/destination information. The NPTS will provide information that will supplement the census data and can be used with the models.

Identification of Need:

The NPTS will provide weighted estimates of all trips, including walk and bicycle trips, and origin/destination information, that may not be accurately reflected in the census data.

Impact of Work Element:

This data set will provide detailed information to supplement the census and other survey data collected through the model update effort.

Tasks:

Contract with FHWA to collect additional information for Oahu during their Nationwide Personal Transportation Survey. The contractor will:

- Conduct surveys of Oahu households
- Geocode data with latitude/longitude coordinates and census codes
- Deliver an edited database
- Prepare standard tabular reports summarizing data.

Estimated Completion Date: September 2002

Estimated DBE Opportunity: None

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
252,000		250,000 ¹⁵			2,000 ¹⁶

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
OMPO	Planners/Engineers	0.5	2,000
OMPO	<u>Other</u> Contractor		250,000
		Total:	252,000

¹⁵This work element is being funded with 100% FHWA-PL funds.

¹⁶State and City matching funds from past work elements completed under budget.

WORK ELEMENT 202.20-99 PRIMARY CORRIDOR TRANSPORTATION STUDY
(as amended)¹⁷

Objective(s):

To undertake a major comprehensive transportation investment analysis to develop and evaluate mobility alternatives for the City's primary urban corridor from Ewa to East Honolulu.

Product(s):

A report that documents the analysis of several major transportation infrastructure alternatives within the City. This report will include conceptual engineering necessary to support alternative analysis. A final environmental document to satisfy federal and State requirements will be prepared. The clearances that mark the completion of the environmental process will be the significant products of this study.

Previous and Ongoing Related Work:

The 2020 ORTP and the current effort to develop the 2025 ORTP update.

In September 1998, DOT and DTS held the first community meeting for the Oahu Trans2K project. The goal of these meetings is a community-based transportation vision for the 21st century.

Impact of Work Element:

This element will allow the City and County of Honolulu to begin the twenty first century confident that the mobility of its citizens is preserved and that the City is moving toward its goal of becoming a livable and vibrant city.

Tasks:

1. Review historical and current transportation planning documents relevant to City, State, and Federal transportation improvement programs.
2. Develop a public participation and community involvement program to complement the major analysis work that will be done.
3. Work with the State DOT and OMPO to analyze potential opportunities for alternative major infrastructure investment within Honolulu's primary corridor. Collect data; develop implementation and financial scenarios; model alternatives; and analyze economic and environmental impacts of each alternative.
4. Provide conceptual engineering to support Task 3.

¹⁷Amended October 1999.

5. Prepare a Major Investment Study report per federal guidelines. Disseminate the information in accordance with the public participation and community involvement programs developed in Task 2.
6. Prepare a Draft Environmental Impact Statement (DEIS) to satisfy federal and state environmental disclosure requirements. Circulate the DEIS for comment and conduct a public hearing pursuant to federal regulations.

Estimated Completion Date: December 2001

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
8,392,075	2,728,000 ¹⁸	8,000 ¹⁹		1,678,415	
	1,000,000 ²⁰				
	2,977,660 ²¹				

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
DOT-HWY-P	Engineers/Planners	1.0	5,000
DOT-STP	Engineers/Planners	1.0	5,000
DTS	Planners	33.0	169,000
	Support Staff	10.0	28,000
	<u>Other</u>		
	Consultant		8,000,000
	Project Administration		185,075
		Total:	8,392,075

¹⁸Section 5307.

¹⁹Appropriation Q45 PL-052(21).

²⁰Section 5314(a).

²¹Section 5309.

WORK ELEMENT 202.30-02 FORECASTING MODEL APPLICATION

Objective(s):

To enhance the technical linkage between the recently-developed travel demand forecasting model and the traditional analytical techniques for transit and traffic operation.

Product(s):

User's Guide and work examples to clearly document the applicability of the model and its by-products for analysis and evaluation of transportation policies and facilities.

Previous and Ongoing Related Work:

OMPO's travel demand model is in its final stages of completion and documentation by the consultant. An early version of the model has been utilized by the City and County of Honolulu for its PCTS. An updated version of the model is currently being used for the ORTP update.

OMPO and agency staff have been orienting themselves with the new model and anticipate using it for analysis of several planning projects including the Congestion Management System (CMS) and the Title VI and Environmental Justice Monitoring Plan.

Identification of Need:

The new model has been developed to address the critical planning requirement to forecast long-range regional transportation demand in response to the future land use and socio-demographic change and growth of the region. The model is capable of producing other useful information in addition to the regional travel demand in terms of the total trips by mode of travel. However, the information is often not located clearly or easily retrievable. Therefore, as part of this work element, OMPO and agency staff will investigate the modeling details for enhanced use of the model.

Impact of Work Element:

The completion of this work element will give staff a higher level of confidence in the application of transportation demand forecasts.

Tasks:

1. Consultant to provide technical support to OMPO and agency staff in applying the model for various transportation needs and purposes. These needs and purposes could include adjusting the model inputs for CMS, Title VI and Environmental Justice, Transportation Demand Management (TDM), and air conformity analysis.
2. OMPO and agency staff to run the model for various purposes and analyze the results.
3. Consultant to develop a detailed User's Guide documenting the steps involved in accessing and changing the appropriate model inputs, running the appropriate application(s), and accessing the results needed to analyze and evaluate transportation policies and facilities.

4. OMPO and agency staff to review the Consultant products.

Estimated Completion Date: December 2003

Estimated DBE Opportunity: 1% of consultant contract

Estimated Cost By Funding Source:²²

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
119,900		95,920		23,980	

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
DOT-HWY-P	Planners/Engineers	2.25	11,250
DOT-STP	Planners/Engineers	2.25	11,250
DTS	Planners/Engineers	4.0	20,000
OMPO	Planners/Engineers	6.5	36,000 ²²
	Support Staff	1.0	4,500 ²²
OMPO	<u>Other</u> Overhead		6,900 ²²
	Consultant		30,000
Total:			119,900

²² Administrative Amendment made in May 2002.

WORK ELEMENT 203.17-99 SIGNAL TIMING REVIEW

Objective(s):

This effort will review the City's traffic signal timing operating requirements and existing resources, and develop improvement recommendations.

Product(s):

A series of reports that:

1. Document the existing traffic signal systems and their operations in the streets of the City and County of Honolulu.
2. Provide recommendations that will guide the continued improvement of traffic signal timing for the City.
3. Explore traffic signal technologies, innovations, and new products that may have application in the City.
4. Consider the benefits of signal preemption and priority applications.

Previous and Ongoing Related Work:

Traffic Control Center development and the ongoing traffic signal control operations and upgrade efforts.

Impact of Work Element:

This program will guide the City in the continued development of integrated, coordinated traffic signal timing that supports the goals of increased safety, and more efficient movement of people and goods within the City.

Tasks:

1. Review current signal timing planning documents, procedures, practices, technologies, and implementations. Review existing City and State transportation planning documents to become familiar with the planned near- and longer-term transportation infrastructure.
2. Review and analyze existing traffic signal timing in terms of its operational efficiency.
3. Review industry practice, applicable technologies, and potential technologies.
4. Make specific recommendations regarding signal phasing, detection methods, signal interconnections, and overall integration into the City's traffic control center system.
5. Evaluate new technologies and products and their suitability to application within the City's traffic signal timing system.

6. Develop an implementation report that includes intersection layouts and equipment, designs for proposed equipment, equipment installation specifications, equipment and installation cost estimates, and funding considerations.

Estimated Completion Date: September 2002

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
400,000		320,000		80,000	

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
DTS	Planners/Engineers	20	80,000

	<u>Other</u>		
DTS	Consultant		320,000

Total:	400,000
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WORK ELEMENT 203.29-00 LIVABLE COMMUNITIES INITIATIVE II

Objective(s):

To integrate the planning and development of pedestrian-oriented, transit services and facilities in the formulation and implementation of special area plans for older towns and communities. Promotion of these actions will also serve to increase social, recreational/entertainment, and economic activities and functions within the communities; to result in a lessening of an auto-dominated orientation; to improve traffic-congested, circulation systems; and to revitalize the livability and social character of older towns.

Product(s):

1. A Regional Traffic Study for Aiea-Pearl City that analyzes traffic counts and direction of travel. The major origin and destination points of traffic through Aiea-Pearl City will be used to identify traffic bottlenecks, problem areas, causes, and alternative solutions.
2. An innovative transportation plan which:
 - a. Provides elements such as a transportation center or hub in Aiea, internal circulator systems, pedestrian and bicycle improvements, improved bus and transit schedules and routes, intersection and other roadway improvements to enhance Aiea-Pearl City's socio-economic vitality as pedestrian-oriented, livable, mixed-use (business, entertaining, residential) communities; and
 - b. Improves public transit mobility from nearby residential neighborhoods and more distant communities so as to become less dependent on the automobile.
3. Urban design guidelines that define pedestrian- and transit-oriented measures and other transportation actions to promote greater mobility and accessibility for residents and pedestrians to enhance the livability and attractiveness of Aiea-Pearl City.

Previous and Ongoing Related Work:

DPP is currently in the process of revising the Development Plan for the Primary Urban Center in which the communities of Aiea-Pearl City are situated. The proposed livable communities initiative effort is generally consistent with themes of the current Development Plan effort such as “The City of Livable Neighborhoods” and “the City for People; Not Cars.”

Oahu Trans2K

DTS and DOT are currently working together on Oahu Trans2K, which is the transportation component of the 21st Century Oahu Vision. With regard to the Pearl City to Salt Lake area, mobility concepts identified include major topics such as regional transportation/transit concepts; major roadway enhancements; neighborhood enhancements; and pedestrian and bicycle improvements.

Vision for the 21st Century

The proposed livable communities initiative for Aiea is also generally consistent with the vision for the 21st Century that is a "work-in-progress" guide for Oahu for the next 50 years. It attempts to incorporate efforts of the Development Plan, Oahu Trans2K and other planning efforts.

Identification of Need:

Aiea-Pearl City are established communities that are experiencing major traffic congestion during normal rush hours, and because of periodic accidents, sporting events, and the shopping. Aiea-Pearl City need improvements to their internal circulator and pedestrian/bicycle systems; an update to the bus and transit schedules and routes; and improvements to intersections and other roadways to revitalize and enhance their vitality as pedestrian-oriented, livable, mixed-use (business, entertaining, residential) communities.

Impact of Work Element:

Those pedestrian- and transit-oriented work elements serve as important mechanisms by which to merge the livable communities concept into the communities of Aiea-Pearl City. This work element responds in a positive manner to the socio-economic concerns expressed by businesses and residents of Aiea-Pearl City.

It provides an opportunity to implement transportation improvements in Aiea-Pearl City to renew its economic vitality and attractiveness.

Tasks:

1. Promote active participation of a task force consisting of a balanced representation of residents, businesses, landowners, and community leaders to work with DPP and other city agencies throughout this planning project.
2. Obtain consultant services and develop a work program for a transportation component for the Aiea-Pearl City Special Area Plan C one that includes a transit/pedestrian-oriented approach in a complementary manner, resulting in the identification of tangible, transit-oriented enhancements for Aiea-Pearl City.
3. Conduct the following surveys of residents and businesses in Aiea-Pearl City:
 - a. Survey residents in these communities to assess whether increased accessibility to transit, bikeways and safe pedestrian walkways would increase usage of these transportation modes.
 - b. Survey the business community's needs and interest in the location of a transit center in Aiea and/or Pearl City that could facilitate use of mass transit by transit riders. This should yield information on how businesses believe they could benefit from improved availability and accessibility to transit.
 - c. Identify social and economic services and activities, such as convenience stores, medical services, banking and other services, within proximity of a transit center that could enhance resident opportunities for retail shopping and obtaining needed services.

- d. Assess the significance of improved transit facilities and services in attracting residents, tourists and sports fans to the Aloha Stadium, town nodes, shopping centers, and other community facilities unique to and available in Aiea-Pearl City.
4. Conduct public informational meetings to obtain community input and feedback throughout this planning process.
5. Review the concept of establishing a transit station in Aiea with the LOTMA, DTS, and the State DOT to assess its short and long-term implications.
6. Analyze the potential application of urban design principles to enhance transit-oriented measures that also remedy deficiencies in Aiea-Pearl City.
7. Develop a transit plan component for Aiea-Pearl City which identifies enhancements to transit stations and transfer points incorporating community service facilities; defines safe, convenient and practical pedestrian and vehicular access improvements; and provides transit riders and visitors with convenient opportunities to retail, wholesale and service facilities within these communities.
8. Develop an implementation program that identifies the objectives and strategies to be initiated in three phases: short-term (within 2 years); mid-term (2-5 years); and long-term (beyond 6 years). This should include projects or activities that should be initiated by the public sector (city or State), private sector or non-profit organizations in the community, as well as joint public-private sector sponsorship.
9. Prepare final reports and publish design guidelines in easily readable brochure format for community wide dissemination.
10. Encourage continued community involvement in pursuing implementation of projects and activities.

Estimated Completion Date:

Depending on issues encountered, project is expected to require 8-12 months to complete.

Estimated project time frames are: January 2001-September 2002

Estimated Completion Date: September 2002

Estimated Cost by Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
400,000	320,000 ²³			80,000	

²³Section 5307.

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
DPP	Planner	6.0	36,000
	Planner	6.0	24,000
DTS	Planners	1.0	4,000
	<u>Other</u>		
DPP	Consultant		320,000
	Administration		16,000
		Total:	400,000

WORK ELEMENT 203.30-00 KANEHOE TOWN TRAFFIC CIRCULATION STUDY

Objective(s):

To conduct an area-wide traffic circulation study to identify and quantify existing deficiencies in traffic circulation in the Kaneohe town area. Identify and develop a traffic engineering plan including traffic management and operational programs, conceptual designs, and cost estimates of infrastructure improvements as part of the scope of a larger Kaneohe Town community study.

Product(s):

1. Traffic circulation and operational analysis and evaluation.
2. List of recommended improvements, their associated cost estimates, and potential sources of funds.
3. Public involvement/participation via meetings/hearings.

Previous and Ongoing Related Work:

The project would review prior studies, including, but not limited to, the ORTP, November 1995.

Identification of Need:

There are two parallel arterial roadways, Kamehameha Highway and Kahekili Highway, that run through all or a portion of Kaneohe Town. Limited neighborhood access exists for travel within or between the various neighborhoods. Therefore, a traffic circulation study needs to be conducted to ascertain what could be done to mitigate the current situation.

Impact of Work Element:

This traffic circulation study will identify and quantify existing deficiencies in traffic circulation in the Kaneohe town area and develop a traffic engineering plan.

Tasks:

1. Preparation of detailed work plan and schedule and development of goals and objectives.
2. Evaluation of existing data and compilation of additional information including accident reports, complaints. The development and implementation of a public involvement program that, in addition to the general public, seeks to involve the area businesses, police, fire, and emergency medical response agencies.
3. Evaluation and analysis of actions and measures to resolve the deficiencies in traffic circulation.
4. Development of a traffic engineering plan including traffic management and operational programs.

5. Preparation of preliminary cost estimates, implementation schedules, and potential funding sources.
6. Preparation of the final report documenting study methodology, evaluation criteria, and recommendations of projects by priority for implementation.
7. Identification of environmental clearance approvals and documentation requirements.

Estimated Completion Date: March 2003

Estimated Cost by Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
131,000		104,800		26,200	

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
DPP ²⁴	Planners/Engineers	6	30,000
	<u>Other</u>		
DPP	Consultant		100,000
	Other Direct Costs		1,000
		Total:	131,000

²⁴DTS had oversight of this work element as it was originally written. However, oversight of this work element was transferred to the Department of Planning and Permitting in 1999.

WORK ELEMENT 203.34-00 MANANA SUB-AREA TRAFFIC STUDY

Objective(s):

To conduct a feasibility study of extending the Cane Haul Road from Waimano Home Road in the Ewa direction to Waihona Street in Waiawa Gulch and of roadways in the study area including improvements at the Kamehameha Highway and Acacia Road intersection. The study will evaluate the benefits of upgrading the abandoned Cane Haul Road to a local street status and analyze its effectiveness, in conjunction with possible improvements at the Acacia Road/Kamehameha Highway intersection, to improve access between Manana and Waiawa.

Product(s):

1. Identification of project location.
2. Identification of alternate alignments, typical sections, right-of-way requirements, and preliminary cost estimates.
3. Estimation of traffic volume.
4. Development of traffic circulation plan.
5. Proposed implementation schedule.
6. Assessment of environmental clearance requirements and documentation requirements.
7. Public involvement/participation via meetings/hearings.

Previous and Ongoing Related Work:

Traffic studies for the Pearl City Bus Facility and the Manana Spine Road Study have recently been conducted in this area.

Identification of Need:

The development of commercial retail space in the lower Manana area adjacent to Kamehameha Highway has led to an increase in traffic of that facility. A comprehensive approach to mitigating existing and future traffic impacts in the area requires an evaluation of an additional east-west connector between Manana and Waiawa as well as evaluating intersection and other roadway improvements.

Impact of Work Element:

An extension of Cane Haul Road would provide a more direct access between the Moanalua/Waimano Home Road intersection and destinations north on Interstate H-2 and west on Interstate H-1. Intersection and other roadway improvements would provide for additional facility along Kamehameha Highway as well as on Acacia Road and other area streets.

Tasks:

1. Evaluation of existing data.
2. Development and implementation of a public involvement program that seeks input from the businesses located in the Pearl City Industrial Park, the emergency response agencies (police, fire, and ambulance), and the affected residents in addition to the general public.
3. Evaluation and documentation of existing traffic patterns and traffic operations.
4. Quantification of Year 2020 travel demand in the corridor and estimation of probable future demand that might utilize the cane haul road connector.
5. Evaluation and documentation of Year 2020 intersection and roadway corridor operations.
6. Recommendation of mitigation alternatives.
7. Preparation of conceptual plans, preliminary cost estimates, and implementation schedule.
8. Final report documenting study methodology, evaluation criteria, and recommendation of implementation alternatives.
9. Identification of environmental clearance approvals and documentation requirements.

Estimated Completion Date: March 2003

Estimated Cost by Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
110,800		88,640		22,160	

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
DTS	Planners/Engineers	6	30,000
	<u>Other</u>		
DTS	Consultant		80,000
	Other Direct Costs		800
		Total:	110,800

WORK ELEMENT 203.42-01 TRANSIT SERVICE PLAN, PHASE II

Objective(s):

To develop and prepare a bus service operations plan for the Pearl City, Manana, Aiea and Pearlridge area that incorporates streamlining bus services along the major transit corridors and provides for neighborhoods that are connected by community shuttle services and circulator services that embody liveable communities initiative principles.

Product(s):

A report documenting a bus service plan that will serve as a guide to making operational improvements designed to streamline bus operations and make transit a more viable transportation alternative while maintaining the integrity and livability of Honolulu's neighborhoods.

Previous and Ongoing Related Work:

Previous bus operations studies – The Comprehensive Operations Analysis, August, 1993; Weekend Bus Study, May, 1994; and Transit Operations Analysis, June, 1997 – focused on looking for efficiencies in operations and data collection. The Transit in the Neighborhood, December, 1996 community-based planning effort was initiated for only the Central, Leeward, and Windward areas. These studies are forerunners to this plan which envisions integration of results from the various operations analysis, community-based planning efforts, and intelligent transportation systems (ITS) guidelines. The City is in the midst of a livable community study for the Aiea-Pearl City region. The results of that effort will be reviewed as part of this study. A Transit Service Plan study is currently being conducted in the Leeward area of the island to provide a plan for improving the efficiencies of transit operations by converting the existing Leeward service to a hub-and-spoke transit operation that will integrate with the existing transit service outside the Leeward section.

Identification of Need:

The existing bus routes, while they provide ample service to the community, are not at the peak of efficiency. The routes were designed over thirty years ago and do not provide intra-neighborhood shuttle service. The express routes to and from the outlying areas run only in the morning and evening peak periods, requiring patrons traveling at other times to ride lines making multiple stops. The service must be made more efficient to provide on-time, frequent, and fast travel times to make transit the mode of choice.

Impact of Work Element:

Goals for the City and County of Honolulu include the need to develop its plans and infrastructure so that Honolulu is the most liveable city and to become one of the best run cities in the nation based on values of customer service, streamlined operations, use of technology, and a quality work environment.

This plan is to provide the City with a guide for making operational changes in the fixed route bus systems in order to emphasize:

1. That transit service design must go above and beyond existing levels of service to entice single-occupant vehicle drivers to use transit by improving the frequency and speed of most service.
 - a. A dedicated right-of-way bus transit system.
 - b. That neighborhoods can be connected by efficient and frequent shuttle services that provide linkage to express buses and/or area circulator buses.
 - c. That express buses that operate throughout the day will provide more incentive for the single-occupant vehicle drivers to use transit as an alternative of choice.

Tasks

1. Review and become familiar with the current bus operations. Review the existing data bases and identify additional data requirements.
2. Collect data and conduct surveys as needed.
3. Develop and prepare a public participation and community involvement program for this work effort. The development and implementation of this community involvement program that seeks to involve the emergency response agencies, affected constituent groups such as the occasional bus rider and the affected residents, in addition to the general public.
4. Develop, prepare, and describe service standards and guidelines to be followed in evaluation of alternative service scenarios.
5. Develop, prepare, and analyze alternative service delivery scenarios in concert with the public participation and community involvement program for this project.
6. Prepare operation plans for the major transit corridors that contribute positively to Oahu's sense of place.
7. Document, produce, and submit final and draft reports.

Estimated Completion Date: July 2003

Estimated DBE Opportunity: 10% of the Consultant contract

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
560,000	51,875 ²⁵	396,125		42,000	70,000

²⁵HI-80-9009.

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
DTS	Planners/Engineers	5	42,000
	<u>Other</u>		
DTS	Consultant		468,000
	Other Direct Costs		50,000
		Total:	560,000

WORK ELEMENT 203.44-01 LIVABLE WAIKIKI: LINKING TRANSPORTATION,
LAND USE, AND ENVIRONMENT

Objective(s):

The Transportation and Community and System Preservation Pilot Program (TCSP) is part of the national "Livability Initiative" aimed to help citizens and communities preserve green spaces, ease traffic congestion, restore a sense of community, promote collaboration among neighboring communities, and enhance economic competitiveness. The objective of the plan is to advance the TCSP objectives of: 1) improve the efficiency of the transportation system, 2) reduce the need for costly future infrastructure investments, 3) ensure efficient access to jobs, services, and centers of trade, and 4) examine private sector development patterns and investments that support these goals. The TCSP will help further the transportation- and pedestrian-oriented policy introduced by the Joint Waikiki Task Force in 1999. The joint task force, which was established pursuant to the 1998 Legislature Senate Concurrent Resolution No. 191, S.D.2, H.D.1, C.D.1, was to be a forum for the coordination of plans and proposals for both public and private investment and actions needed to encourage revitalization of Waikiki. The task force recommended that, in order to enhance and recapture the magic of Waikiki, Waikiki must become a wonderful place to walk and stroll. Therefore, the task force emphasized the need to adopt and implement "A Pedestrian First Policy for Waikiki." As the initial steps in implementing the policy, the task force recommended the development of implementation plans as the tools to guide and coordinate the various elements of the policy. DTS was identified by the task force as the implementing agency, whose responsibilities include "securing the cooperation of the many other players critical to making the new Waikiki a pedestrian paradise."

Product(s):

1. Waikiki: Community Livability and Mobility Plan
2. Project Evaluation report

Previous and Ongoing Related Work:

The program will review prior studies, including, but not limited to the following:

- Primary Corridor Transportation Project Draft Environmental Impact Statement, August 2000
- Restoring the Magic of Waikiki, Report of the Joint Waikiki Task Force, December, 1999
- Honolulu Bicycle Master Plan, April, 1999
- Islandwide Mobility Concept Plan, March 1999
- Waikiki Regional Traffic Impact Plan, December 1995
- Oahu Regional Transportation Plan, November 1995
- Bike Plan Hawaii, A State Master Plan, April 1994

- Primary Urban Corridor Development Plan, currently awaiting adoption
- Island-Wide Traffic Calming Program, ongoing

The efforts of the ongoing Oahu Trans2K, Waikiki Vision team, Waikiki Improvement Association, Waikiki Neighborhood Board, and the Joint Waikiki Task Force have resulted in a number of projects that need to be coordinated with and made part of the analysis. Some of the projects arising out of the preceding include “Waikiki Comprehensive Landscape Plan”, “Waikiki Historic Trail Markers”, and the “Kapehulu Master Plan”. Additionally, coordination with the ongoing Primary Corridor Transportation Project and the public transit system's reconfiguration efforts needs to be conducted.

Identification of Need:

Waikiki has more than 20,000 residents and, in 1999, hosted 5 million visitors. Waikiki has the majority of Oahu's approximately 31,000 visitor accommodations. Waikiki is also a major employment center, employing approximately 36,000 people. The Joint Waikiki Task Force, recognizing the growing conflict between the pedestrian and vehicular traffic, recommended that a pedestrian-first policy for Waikiki be developed and implemented. The national “Livability Initiative,” of which the TCSP is part of, is focused to help citizens and communities preserve green spaces, ease traffic congestion, restore a sense of community, promote collaboration among neighboring communities, and enhance economic competitiveness. This work element would advance those recommendations.

Impact of Work Element:

The plan will advance the recommendations of the TCSP and Joint Waikiki Task Force to the next step towards implementation.

Tasks:

1. Prepare a work plan setting forth project management objectives, critical milestones, and submittal schedules. The work plan shall include a Public and Agency Involvement Plan identifying objectives, procedures, and a schedule.
2. Develop a community-based public involvement program. Community outreach programs like design charrettes, citizens training workshops, and public meetings will be used to gather/disseminate the various strategies and ideas for discussion and consensus. Coordination with ongoing efforts by the Primary Corridor Transportation Project/Oahu Trans2K, Waikiki Vision Team, Waikiki Neighborhood Board, Waikiki Improvement Association, and the Joint Waikiki Task Force is required to avoid duplicative efforts and ensure consistency with any completed plan and/or implementation. This community-based program will also be used to gain consensus during the formulation and preparation of the agreed upon strategies.
3. Identify and seek to create partnerships with the affected stakeholders. These stakeholders include but are not limited to the business community, hotel groups, transportation operators, public and safety agencies, and private developers. Outreach to and creation of partnerships with these stakeholders will help integrate their needs with transportation and community concerns.

4. Develop a vision and a series of goal statements to reflect the needs and desires of the stakeholders and the public received through community outreach. The specific objectives and strategies will then be identified. Develop a project evaluation plan that describes roles, responsibilities, project objectives, performance measures, evaluation methodologies, data sources and schedule milestones. The evaluation plan will focus on the following three aspect of the project:
 - a. Process Evaluation: Building partnerships are an important objective of the project. New partners bring with them additional concerns and ideas regarding community preservation, economic development, and land development planning issues to name a few. As the project focuses to the project outcomes, partnership commitment and buy-in become important to forwarding ideas out of the planning phase and into implementation.
 - b. Product Evaluation: How successful was this project in achieving the objectives defined in the vision and goals statement, and in carrying out the desired TCSP outcome.
 - c. Outcome Evaluation: The goal to increase efficiency of the transportation system is an important objective for the Waikiki study area. An evaluation using forecasted performance measures such as modal split, time and cost savings will be utilized. Of specific interest would be to measure the shift to the alternative modes of travel, namely that of walking and bicycling.
5. Review prior reports, studies, and documents related to the plan.
6. Evaluate existing transportation and land use data and identify the critical issues related to pedestrian, bicyclist, transit, general vehicular, and commercial vehicle traffic. Develop road/street classification system, which identifies and establishes the roles of major streets and of mauka-makai streets in terms of preferential treatments for specific modes of travel such as pedestrian, bicycles, transit, commercial vehicles, and general traffic. Conduct the necessary technical analyses to develop the following components:
 - a. Plan and design pedestrian and bikeway facilities and supporting amenities/policies that encourage those activities in conjunction with the development of other livability enhancements. Recommended policy changes and proposed improvements need to be on a prioritized implementation schedule. Develop the appropriate evaluation criteria.
 - b. Prepare a transit component which would incorporate appropriate community service and/or multi-modal facilities. Defines convenient and practical pedestrian and vehicular access design and connection improvements; accommodates local transit riders and visitors with convenient opportunities to retail and service facilities in the area. Integration of transit as a key component in enhancing Waikiki livability and its influence in community development should be emphasized.

- c. Review and identify traffic circulation and use of streets to establish priority usage of streets. The focus will be to facilitate travel for visitors, local residents, and area employers – including access to/from the residential areas and within the resort/commercial areas – while discouraging through traffic. This task will develop a critical element in supporting the establishment of Waikiki as a livable sustainable community. Recommendation of any policy changes and a classification of proposed improvements into a prioritized schedule. Develop the appropriate evaluation criteria.
 - d. Prepare a commercial vehicle movement and loading/unloading requirements plan. Identification and quantification of vehicular and pedestrian traffic issues at loading zones with input from the affected stakeholder(s) as well as area residents who may be affected by the proposed changes. Recommendation of facilitating alternatives, policy changes, and classification of proposed improvements into a prioritized implementation listing. Develop the appropriate evaluation criteria.
 - e. Develop a road/street classification system which identifies and establishes the roles of major streets such as Kalakaua Avenue, Kuhio Avenue, and Ala Moana Boulevard, and mauka-makai streets in terms of preferential treatments for specific modes of travel such as pedestrian, bicycles, transit, commercial vehicles, and/or general traffic that contributes toward achieving the livability goals.
 - f. An overall plan and standards for unified signs and markings to signify historic, cultural, as well as other features unique to Waikiki. Maps on sidewalks to aid the pedestrian should also conform to the unified designs standards.
 - g. A parking management plan that includes the development of a central parking facility to reduce the vehicular traffic within Waikiki will be prepared
7. Reconcile all the specific projects arising out of the foregoing analysis on transportation system performance, infrastructure cost, economic needs, and environmental impacts. The land use and community impacts of the transportation alternatives need to be considered. Conceptual design for transportation facilities and landscape elements will be prepared. Develop prioritization criteria, and use the criteria to identify a prioritized master schedule of projects.
 8. Prepare a project evaluation report that addresses the following three areas: 1) the process by which this project is implemented; 2) the products that result from this project; and 3) the outcomes in terms of either projected or actual benefits and costs.
 9. Develop and prepare a draft/final report.

Estimated Completion Date: March 2003

Estimated DBE Opportunity: 10% of the consultant contract

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>TCSP</u>	<u>Local M</u>	<u>Local S</u>
700,000		300,000	300,000	75,000	25,000

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
DTS	Planners/Engineers	5	25,000
DTS	Consultant		669,000
	Other Direct Costs		6,000
		Total:	700,000

WORK ELEMENT 203.46-02 THEBUS SYSTEMWIDE SURVEY AND DATA
COLLECTION PROGRAM

Objective(s):

The objective is to establish an extensive database of the transit travel and socioeconomic characteristics of TheBus passengers.

Product(s):

The passenger survey will result in a detailed systemwide ridership database that details travel information for all trips by route, stop, and time-period.

Previous and Ongoing Related Work:

Many transportation planning projects have been recently completed or are underway that will achieve Oahu's transportation goal to develop and maintain the islandwide transportation system to ensure the efficient, safe, convenient, and economical movement of people and goods. Increased mobility and congestion relief are paramount to many of Oahu's transportation programs as well as air quality and other environmental and social concerns. These programs and projects include Oahu Trans2K, the Primary Corridor Project, and the Transit Service Plan (Phase I) and (Phase II) Projects. Under the Transit Service Plan (Phase I) project passenger surveys were conducted on Route 51 (no longer in existence) and on Routes 2 and 13. These surveys provided a successful test of the proposed survey instrument, procedures, and analysis methodology. The data collected showed many passengers had transportation needs beyond those that were met by the current route. As a consequence, new Route 40 was instituted with the first 24-hour service on Oahu. This 'owl' service has been well received and continues to grow. The data received from the Route 2 and 13 survey provided the information necessary to implement the successful CityExpress! Route B. The benefits derived from the use of these surveys demonstrated the need for a systemwide survey of all Oahu Transit Services, Inc. (OTS) fixed routes. Routes being surveyed in the Transit Service Plan (Phase II) project will not be re-surveyed in this work element project.

Identification of Need:

Many of the transportation projects and programs look for public transit to increase its mode or market share. However, no detailed current database of transit ridership exists to define the current market. This data is needed for planning efforts to identify the needs of current riders and to serve as a benchmark to measure the effectiveness of service changes. The project will provide this needed database on all OTS' fixed-routes.

Impact of Work Element:

Identifying the needs and travel patterns of current transit users is vital to developing new services to make public transit a more viable transportation alternative. The information provided will be used when determining where and what types of changes are needed.

Tasks:

1. Collect passenger survey data. The passenger survey will collect data by route, direction, and time period for all runs systemwide. The survey instrument will be compatible with the survey conducted for Routes 2 and 13 and will be printed on cardstock and serial- numbered. Data to be collected will include:
 - a. Trip origin and destination
 - b. Trip purpose
 - c. Access and egress mode to and from bus stops
 - d. Transfer connection
 - e. Fare paid
 - f. Length of bus use
 - g. Frequency of bus use
 - h. Age of passenger
 - i. Average trip length
 - j. Gender
 - k. Household income
 - l. Customer comments
2. Prepare control sheets to provide schedule adherence and overall running times for each route.
3. Hire and train survey personnel to maximize survey participation and to ensure sensitivity to special needs passengers.
4. Perform data coding and entry on returned surveys and control sheets. The data file will be provided in SPSS format.
5. Consolidate data file with survey data received from the Transit Service Plan survey of Routes 2 and 13 and the data received from the survey conducted in Transit Service Plan (Phase II).
6. Develop and implement a passenger outreach and marketing plan to promote participation in the survey and to report results back to passengers.
7. Develop and implement a driver outreach plan to inform and encourage drivers to participate in the project.
8. Prepare report of project results.

Estimated Completion Date: The project is expected to take four months to complete.

Estimated DBE Opportunity: 10% of the consultant contract

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
300,000		240,000		60,000	

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
DTS	Planners	8	60,000
	<u>Other</u> Consultant		240,000
		Total:	300,000

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SECTION IV

INDEPENDENTLY-FUNDED WORK ELEMENTS

The work elements in this section have been funded entirely with funding sources that need not be included in the OWP or with local funds. They are included for the information of the reader.

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WORK ELEMENT 102.01 UPDATE OF THE STATEWIDE TRANSPORTATION
IMPROVEMENT PROGRAM²⁶

Objective(s):

To ensure that the Statewide Transportation Improvement Program (STIP) reflects current directives and priorities in the Statewide Transportation Plan, related transportation and land use plans and studies, and applicable TEA-21 requirements.

Product(s):

A current STIP document which identifies and integrates transportation projects statewide and programs projects for implementation during the program period.

Previous and Ongoing Related Work:

The STIP reflects a three-year program. The next cycle of the STIP will be developed for FYs 2002-2004.

Impact of Work Element:

A current STIP developed through the coordination and cooperation of the various transportation and planning agencies and organizations, using standard, clearly delineated criteria, will provide an equitable and integrated basis for funding transportation improvement projects.

Tasks:

1. OMPO will coordinate their TIP through their established process.
2. The DOT Statewide Transportation Planning Office, through the Census Transportation Planning Package, will coordinate the neighbor island transportation program.
3. Proposed projects will be reviewed to ensure their consistency with Federal, State, and County requirements.

Source of Funds: State of Hawaii

Responsible Agencies: State Department of Transportation

²⁶ This work element number has been changed; formerly numbered Work Element 202.05.

WORK ELEMENT 200.01

HIGHWAY SAFETY IMPROVEMENT PROGRAM

Objective(s):

To reduce the number and severity of traffic accidents through engineering improvements at hazardous highway locations.

Product(s):

An annual program of high priority safety improvement projects.

Previous and Ongoing Related Work:

The State Highways Division (SHD) conducts a Highway Safety Improvement Program for streets and highways under their jurisdiction as part of the State highway/traffic engineering programs.

The Traffic Branch of the SHD is responsible for coordinating and assisting all affected SHD units and County highway/traffic engineering agencies to implement a program of, and to continuously improve the processes of, (1) identification, prioritization, and analysis of high accident location; (2) development and selection of alternative engineering countermeasures (safety improvement projects) at these accident locations; and (3) prioritization, scheduling, implementation, and evaluation of safety improvement projects.

The CIP for highway safety construction consists of two parts. They are (1) mandated Federal-aid programs established or continued by the Highway Safety Act of 1973, also known as Title II Safety Programs, and (2) safety improvement projects utilizing all other available sources of funds, Federal-aid or entirely with State or County funds, initiated by the State or County on a voluntary basis.

Safety related minor traffic operations improvements are usually implemented by State and County highway/traffic operations and maintenance forces with informal work orders when countermeasures are identified to rectify the hazardous conditions.

Source of Funds: State of Hawaii

Responsible Agencies: State Department of Transportation

WORK ELEMENT 200.02

MOTOR CARRIER AND HIGHWAY SAFETY
PROGRAMS

Objective(s):

To improve highway safety by a reduction in property damage and injuries from traffic collisions.

Functions/Programs/Funds:

The Motor Vehicle Safety Office is part of the State DOT. It has two parts: (1) Motor Carrier Staff (MCS) and (2) the Highway Safety Staff (HSS). The MCS administers rules and regulations that govern motor vehicles engaged in the transportation of persons or property on public highways in the furtherance of any commercial, industrial, or educational enterprise. The HSS administers a Federally-funded highway safety program, and endeavors to coordinate areas of highway safety concern such as driver licensing, motor vehicle safety equipment, and motor vehicle inspection.

During FY 2001, the HSS will obligate federal funds to the state and local level for the continuation or initiation of countermeasures addressing six of the seven National Highway Safety priority areas and other identified problems as shown below:

1. Police traffic services training and speed limit enforcement.
2. Driving under the influence of alcohol (DUI) public awareness campaigns, DUI enforcement, DUI enforcement training, and DUI education in public schools.
3. A Traffic Records project to improve the data analysis capability of agencies performing highway safety studies.
4. An Emergency Medical Services project to improve the extrication of crash victims.
5. Projects to promote the use of safety belts and child safety seats.
6. Project to expand a motorcycle safety training course to the neighbor islands.
7. Projects to improve engineering capabilities through traffic control device inventories, engineering analysis of high accident locations, and other engineering studies in the area of highway design, construction, and maintenance.

During FY 2001, the MCS will continue focusing on regulating school bus operations, enforcing commercial motor vehicle regulations, and enforcing motor vehicle weight regulations.

Source of Funds: State of Hawaii Special Funds

Responsible Agencies: State Department of Transportation

WORK ELEMENT 201.10

POPULATION EMPLOYMENT MONITORING AND ANALYSIS²⁷

Objective(s):

To maintain on an annual basis, relevant data and statistical tables that depict current population estimates, components of change in population, employment, labor force, and unemployment data, and other socioeconomic data to allow analysis of existing conditions. Analyses of current data will provide the means to monitor short- and long-range forecasts of population and employment.

Product(s):

1. Annual estimates of population, employment, and unemployment for the island of Oahu.
2. Annual estimates of visitor arrivals; average daily census of visitors present.
3. Annual estimates of de facto population.

Other related socio-economic data which describe current socio-economic conditions.

Previous and Ongoing Related Work:

A series of statistical reports are issued annually by the State DBEDT. The following are relevant to the 3-C transportation planning process:

1. Population estimates for the City and County of Honolulu.
2. Estimates of military personnel and dependents.
3. Birth and death data.
4. Net migration estimates.
5. Visitor arrivals.
6. Annual labor force, employment and unemployment estimates.
7. Per capita personal income.
8. Expenditures of State and County governments.

²⁷ This work element number has been changed; formerly numbered Work Element 201.01.

9. Other related statistics published in the State of Hawaii Data Book each year.

These statistics are now available on DBEDT's World Wide Web site (<http://hawaii.gov/dbedt/>) as well as in the Data Book.

Impact of Work Element:

Enables the 3-C transportation planning process to assess the assumptions and forecasts made previously and to facilitate the verification of forecasting models.

Tasks:

DBEDT is a recipient of official statistical information from many government and private agencies. Using these current data, the department will prepare annual estimates of population, and report employment and other socioeconomic conditions. The following annual estimates will be compiled to cover the Honolulu standard metropolitan area:

1. The resident population of the City and County of Honolulu.
2. The military and military dependents.
3. Visitors present (annual average).
4. De facto population.
5. Civilian labor force, employment, and unemployment.
6. Per capita personal income.
7. Net migration estimates.
8. Total annual number of visitors.
9. Other data prepared each year for the State of Hawaii Data Book.

Estimated Completion Date: Data Book will be published annually. (Ongoing program)

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
50,000					50,000

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
DBEDT	Statisticians	10.0	50,000
		Total:	50,000

WORK ELEMENT 201.12

INFORMATION MANAGEMENT SYSTEMS -
HIGHWAYS DIVISION

Objective(s):

To develop and implement information management systems; and to provide information concerning both the condition and the performance of the existing and future highway system, that addresses the requirements of ISTEA.

Product(s):

Coordinated information systems which would be compatible and provide for efficient data access and manipulation within the State Highways Division (SHD) of the Department of Transportation (DOT) and also be compatible and linkable with the other information management systems required by ISTEA, such as the Transportation Congestion Management System (CMS), Public Transportation Facilities and Systems Management System and the Intermodal Facilities and Systems Management System. The following are the information systems to be developed by the SHD of DOT:

1. Pavement Management System (PMS)
2. Bridge Management System (BMS)
3. Highway Safety Management System (SMS)
4. Traffic Monitoring System (TMS)

The Department of Transportation will be retaining a consultant to assist them in coordinating and providing oversight on the development of the management systems. Upon preparation and completion of the individual plans for each of the management systems, the consultant will assist in establishing the data base criteria and standards, the data collection, and implementation of the systems.

Previous and Ongoing Related Work:

The Materials Testing and Research Branch is responsible for surveying and maintaining records of the condition of the highway pavement section and, also, for recommending improvement strategies. The PMS information system has been implemented and the condition information for the historic condition survey data entered into the database. The Materials Testing and Research Branch is in the process of revising the pavement condition evaluation criteria which will require additional database programming to implement because the process for the new evaluation criteria is substantially different from that currently in the database. The project information database was last updated in mid-1998 and needs to be updated again. The W4 Tables have been entered into the database.

The Design Branch is responsible for the Bridge Management System. Presently, the Design Branch maintains inventory and appraisal information of all bridges, including bridges on the County system under the National Bridge Inventory System and submits reports to the FHWA.

The Traffic Branch is responsible for the Highway Safety Management System. Presently, the Traffic Branch maintains information on motor vehicle accidents records for fatalities, injuries, and property damage in excess of \$3,000 on a statewide basis, including accidents on county streets. The motor vehicle accidents records is maintained in the SHD Traffic Data Management System, which also incorporates information on traffic data and road inventory records to relate the accidents to traffic and to the highway system. The safety management system will integrate all safety data when completed.

The Planning Branch is responsible for the Traffic Monitoring System, as well as the overall coordination of the development of the information management systems in the SHD. Presently, traffic data is maintained in hard copy and microcomputer files and includes a variety of traffic information, including data from continuous count stations polled daily by computer. Information on vehicle volumes and limited vehicle type and vehicle speed is maintained for continuous research count stations on a statewide basis. Coverage counts, including vehicle volume, vehicle type, and limited vehicle occupancy information are obtained using portable recorders and manual (visual) surveys.

The SHD is also pursuing the development and integration of databases at all of the offices for better access and compatibility of data for Division-wide requirements. This effort is being pursued under the project titled, Coordinated Data System.

Impact of Work Element:

The management systems will provide an integrated data base for planning and policy development, and evaluating strategies to improve transportation systems and programs.

Source of Funds: State of Hawaii (\$400,000) and ISTEA STP (\$1,600,000) funds

Responsible Agencies: State Department of Transportation, Highways Division

WORK ELEMENT 202.12-96 NORTH-SOUTH ROAD

Objective(s):

To prepare a transportation demand forecast, and conduct planning and preliminary engineering studies for a new North-South Road in the Ewa region. The new road and interchange would increase capacity, improve access to Interstate Route H-1, and connect Ewa and new residential developments with employment in the Kapolei area.

Product(s):

1. Traffic demand forecast model of the region and recommended transportation improvements.
2. Technical reports and drawings evaluating the impacts of the alternative alignments and interchange proposals.
3. Preliminary cost estimates for rights-of-way and construction.
4. Environmental clearance approvals and documentation.
5. Final plans for the proposed North-South Road and its interchange at Interstate Route H-1.

Previous and Ongoing Related Work:

Previous transportation studies identified a new North-South Road as one mitigation measure to alleviate the overcapacity condition in the area. Upon reviewing these studies and with requests from the area residents, the State Legislature appropriated State funds for the design of a North-South Road in 1991.

In April 1994, DTS agreed to accept responsibility for the planning and engineering of a new North-South Road, subject to the encumbering of funds for the project and the execution of the intergovernmental agreement between the City and the State.

An intergovernmental agreement between DTS and DOT was entered into effective June 1994. Notice to proceed with the contract was issued in January 1995. In September 1995, DTS engaged the services of consultant a firm, Parsons, Brinckerhoff & Douglas, Inc., to conduct the studies for this project.

In mid 1996, a rare and endangered plant, the *Abutilon Menziesii*, was discovered in the path of the proposed highway and discussions with appropriate governmental agencies were initiated.

Traffic, hazardous material, botanical, zoological, historical, and archaeological were essentially completed.

In August 1997, the design stage for this project was initiated by the DOT.

In April 1998, DTS submitted a request to transfer their project management responsibilities to the DOT; they indicate “substantial completion of the draft environmental assessment” and “the end of technical efforts relating to the federal planning requirements” for this project. In a letter to DTS, dated December 15, 1998, the DOT accepted management responsibilities for this project.

In September 1998, it was determined that a new traffic study was needed due to revised “absorption rates” and build-out dates for developments in the Ewa region.

The Draft Environmental Assessment was filed with the Office of Environmental Quality Control on December 8, 1998. In February 1999, the Housing and Community Development Corporation of Hawaii informed the DOT that they would be unable to fund drainage improvements for this project and consequently the DOT would be required to construct similar improvements.

Due to potential flooding as well as concerns voiced by the City and County of Honolulu, the Office of State Planning will be coordinating the drainage proposals for this area and determining the requirements for this project.

Pursuant to House Bill 1292, a “Habitat Conservation Plan” is being developed for the endangered species, the *Abutilon Menziesii*, as discovered in the project vicinity. A supplement for the Draft Environmental Assessment is being planned primarily due to the incorporation of drainage improvements for this project.

Impact of Work Element:

The consultant would identify regional transportation infrastructure improvements and provide information for financing strategies. These financing strategies will assist City planners and developers in negotiating their share of the transportation infrastructure cost in the Ewa region.

The planning and preliminary engineering of a new North-South Road will identify a preferred alignment alternative. The preliminary cost estimate will provide information to budget funds for the next phase. The environmental clearance approvals, documentation, and interstate access approval from the FHWA would allow the project to proceed into the next phase of Final Design and Construction.

Tasks:

1. Develop traffic demand forecasts for the Ewa region and identify regional transportation improvements, magnitude of costs, and financing strategies (5%).
2. Conduct and complete environmental studies, conceptual design, cost estimates, financial analysis, and coordination with OMPO and appropriate governmental agencies (30%).
3. Obtain environmental clearances and documentation (5%).
4. Conduct and complete conceptual engineering on the preferred alternative for the proposed interchange, including final environmental studies and analysis, financial analysis, and coordination with the FHWA (10%).

5. Prepare final plans for the proposed North-South Road and its interchange at Interstate Route H-1 (50%).

Estimated Completion Date: December 2003

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
9,010,000			9,010,000		

Estimated Staff/Other Costs:

<u>Staff</u>	Approximate Amounts <u>Expended</u>	Future <u>Expenditures</u>	<u>Total</u>
DOT-HWY	270,000	200,000	470,000
DTS	110,000		110,000
<u>Other</u>			
Consultants – Design	2,000,000	150,000	2,150,000
Consultants – Planning	1,280,000	4,000,000	5,280,000
Land Acquisition		1,000,000	1,000,000
Total:	3,660,000	5,350,000	9,010,000

WORK ELEMENT 203.04-93 SHORT-RANGE TRANSPORTATION PLAN

Objectives:

To develop a new comprehensive short-range transportation plan (SRTP) and program for the City and County of Honolulu.

Products:

An SRTP which covers a 7 - to 10-year period and "bridges the gap" between the City's programs and projects contained in the federally-required 20-year metropolitan transportation plan and the 3-year transportation improvement program. The product will address the City's transportation system, including streets and highways; the bus system; the paratransit system; possible integration to a high-capacity transit system and the related feeder bus fleet development program; possible jitney system; bicycle programs; and intermodal connections. In addressing the City's transportation system and its intermodal connections, the product will also include appropriate financing plans.

Previous and Ongoing Related Work:

The previous short-range plans focused only on the transit element because the plans were requested by the Urban Mass Transportation Administration. The initial short-range transit plan, TheBus Plan, was completed in 1973. The Plan, and subsequent updates through 1979, provided a sound base for the continuous improvement of the bus system. The Bus System Development Program, completed in 1980, provided a plan for transit development. Updates to this plan were made through 1987. The Comprehensive Island-wide Transit System Planning Study (1987) established priorities for short- and intermediate-range periods. Updates to the 1987 study have incorporated multimodal transportation programs, such as regular and express bus service, demand responsive paratransit service, rail rapid transit, and intra-island ferry system.

The HPTA completed the Comprehensive Operations Analysis (COA) of TheBus System in August 1993. HPTA also completed a Weekend Bus Study and a Facilities Study.

Impact of Work Element:

The joint FHWA/FTA statewide and metropolitan planning regulations promulgated at 23 CFR Part 450 and 49 CFR Part 613, delineate the requirements for states and metropolitan planning organizations in developing their respective 20-year transportation plans and 3-year transportation improvement programs. The Work Element will enable the City to develop an intermediary plan that will serve as a guideline in establishing the City's multimodal transportation priorities, appropriations, and programs and projects to be proposed for inclusion in the metropolitan transportation improvement program.

Estimated Completion Date

September 1999

Tasks:

1. DTS to review 23 CFR Part 450, and funding programs under 23 USC and the Federal Transit Act (5%).
2. Using the Metropolitan Transportation Planning and Programming requirements detailed in 23 CFR Part 450 Subpart C, DTS to develop a set of factors to be considered and analyzed (5%).
3. DTS to develop the appropriate procurement documents, including scope of work, and procure the necessary services (10%).
4. Under the direction of DTS, Consultant to develop an SRTP for the City (70%). The Plan will include the following aspects:
 - a. Current City transportation system:
 - i. Public transit system, including intermodal connections
 - ii. Paratransit system
 - iii. Bikeway system
 - iv. Connectivity of major urban City streets to State highways and Interstate highways.
 - b. Assessment of a possible integration to a high-capacity transit system and the related feeder bus fleet development program.
 - c. Assessment of possible enhancements to transit system, including jitney.
 - d. Proposed 7- to 10-year enhancements/improvements to the current transportation system that could be used as TIP projects.
 - e. Proposed 7- to 10-year operating financial plan for the public transit and paratransit systems.
 - f. Proposed 7- to 10-year capital financial plan for improvements to the current transportation system.
5. DTS to administer consultant contract (5%).
6. DTS to coordinate with appropriate City agencies (5%).

Estimated Cost By Funding Source:

<u>Total</u>	<u>FTA</u>	<u>FHWA</u>	<u>STP</u>	<u>Local M</u>	<u>Local S</u>
592,000	400,000 ²⁸			100,000	55,000 ²⁹ 37,000 ³⁰

Estimated Staff/Other Costs:

<u>Agency</u>	<u>Staff</u>	<u>Person Months</u>	<u>Cost</u>
DTS	Planners	13.0	65,000
DTS	<u>Other</u> Consultant		522,000
	Other Direct Costs		5,000
		Total:	592,000

²⁸FTA FY 1993 – Section 9 funds (now Section 5307).

²⁹To the extent that unobligated federal funds remain available, the City will seek reimbursement for its pro rata share of eligible costs exceeding \$500,000.

³⁰June 1997 contract amendment increased local match by \$37,000.

SECTION V

TABLES AND APPENDICES

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TABLE 1

**FY 2002 OWP ACCOMPLISHMENTS AND PROJECT STATUS
(as of June 27, 2002)**

	Work Element	Status
200.01	Highway Safety Improvement Program	Ongoing program.
200.02	Motor Carrier and Highway Safety Programs	Ongoing program.
201.01-01	Investigation of ITS Technology for Use in Collecting CMS Data ³¹	The tasks in this work element have been revised to reflect the direction of the CMS program. DOT will be selecting a consultant to investigate ITS Technology for CMS use. <i>Expended: \$122,000 of \$302,000</i>
201.05-01,02	2000 Census Data	OMPO is Reviewing data from the 2000 Census. Attended State Data Center affiliate meetings. OMPO is working with DPP to resolve the TAZ boundaries and census block equivalencies. <i>Expended: \$1,258 of \$32,600</i>
201.06-01	Title VI and Environmental Justice monitoring	This work element has been completed. The Title VI and Environmental Justice monitoring program was approved by the Policy Committee in September 2001 and is in place. <i>Expended \$136,200 of \$136,200</i>
201.10 ³²	Population and Employment Monitoring and Analysis	Ongoing State-funded program. Data Book is published annually. These statistics are available on CD-ROM and on DBEDT's web page.
201.11	TEA21 Planning Requirements	This is an ongoing work element. OMPO representatives have attended and sponsored a number of workshops and training sessions, and assisted participating agencies with reviews and planning assistance elaborating on ISTEA requirements.

³¹ The title of this work element has been changed. The original name of the work element was "Implementation of the Congestion Management System."

³² This work element number has been changed; formerly numbered 201.01.

	Work Element	Status
201.12	Information Systems –	This is an on-going DOT project.
201.15-01	Intelligent Transportation System	Three rounds of stakeholder meetings have been held and the first MOU is awaiting the DOT and Department of Transportation Services (DTS) Directors' signatures. <i>Expended: \$69,455 of \$272,755</i>
201.20-02	Title VI and Environmental Justice Monitoring	Preliminary work has begun on the request for proposals and scope of work. Consultant selection will not begin until the fall 2002. This is a three-year project. <i>Expended: \$840 of \$410,400</i>
202.01-95	Forecasting Model Development	Work is nearly completed in this multi-year project. The draft “best-practice” models were delivered in Spring 1999. The models were used for the development of the PCTS and the ORTP. Work on this project is expected to be completed by the Summer 2002. <i>Expended: \$24,938 of \$1,000,000</i>
202.02-00	Model Users Group	Preparations to form this group are underway. Formal work will begin upon completion of the forecasting model. <i>Expended: \$1,812 of \$57,857</i>
202.05-01	Forecasting Model Analysis	DOT has investigated and implemented various applications using the forecasting model. <i>Expended: \$8,260 of \$33,800</i>
202.06	Oahu Regional Transportation Plan	This is an on-going work element. The final report of the ORTP was released with the technical appendices.
202.07	Transportation Improvement Program	This is an on-going work program. The FY 2002-2004 TIP was approved in the fall of 2001. OMPO is working with DOT to implement a data base program for the development of the FY 2004-2006 TIP.

	Work Element	Status
202.09-01	Nationwide Personal Transportation Survey – Add-on Program	Work has begun on this work element. The first two quarterly reports have been received. Work is expected to be completed in the Fall of 2002.
202.12-96	North-South Road	The draft environmental assessment (EA) from H-1 to Kapolei Parkway was circulated for public review. Two major issues have been identified. When the issues are resolved, a revised EA will be circulated for review. <i>This project is funded entirely with STP funds.</i>
202.20-99	Primary Corridor Transportation Study	The project is into the Preliminary Engineering/Final EIS (FEIS) phase of work. The FEIS is currently scheduled for public release in July 2002. A Record of Decision is anticipated for September 2002. <i>Expended: \$0 of \$9,000 (FHWA-PL)</i> <i>Other funding: \$2,728,000 (FTA Sect. 5307)</i> <i>\$2,977,660 (FTA Sect. 5309)</i> <i>\$1,000,000 (FTA Sect. 5314(a))</i> <i>\$1,478,415 (Local Match)</i>
202.30-02	Forecasting Model Application	OMPO has begun review of the OMPO models and is developing information based on the model output. <i>Expended: \$2,826 of \$105,600</i>
203.04-93	Short-Range Transportation Plan (SRTP)	The scope of work is being evaluated for revision. The planning horizon for the study has been extended to year 2010. The study is expected to be completed by September 2002. <i>Funded with FTA Section 5307</i>
203.17-99	Signal Timing Review	The technical tasks are expected to be completed in April 2002. The administrative closeout of the project is anticipated by mid-2002. <i>Expended: \$285,343 of \$400,000</i>
203.18-99	Transit Service Plan	The project and administrative closeout were completed. <i>Funded with FTA Section 5307</i>

	Work Element	Status
203.29-00	Liveable Communities Initiative II	A community design workshop was held in July 2001. A community meeting was held in October 2001 to review plan concepts and transportation recommendations. A community meeting was held in December 2001 to present preliminary plan recommendations for urban design, pedestrian and bike circulation and transportation improvements. <i>Funded: \$320,000 (FTA Section 5307) \$ 80,000 (Local Match)</i>
203.30-00	Kaneohe Town Traffic Circulation Study	The consultant contract amendment has been approved. The consultant will proceed on Stage I - Design & Implementation of Community-based Planning Process. <i>Expended: \$0 of \$131,000</i>
203.32-00	Bus and Freight Loading Areas	No action taken. This work element has been deleted. Local Match not available <i>Expended: \$0 of \$131,000</i>
203.34-00	Manana Sub-Area Traffic Study	The consultant was selected. The contract was executed on February 5, 2002. The Notice to Proceed was issued on February 13, 2002. <i>Expended: \$0 of \$110,000</i>
203.38-00	Residential Area Parking Study	No action taken. This work element has been deleted. Local Match not available. <i>Expended \$0 of \$131,000</i>
203.40-00	Development of a Coordinated Planning Process of Islandwide Bike Transportation Planning	This work element will not be done by OP. The funds for this work element will be reprogrammed. <i>Expended \$0 of \$100,000</i>
203.42-01	Transit Service Plan, Phase II	To date, the planning for transit route restructuring is complete. The planning and design of transit centers is underway. Completion of the project is anticipated for the latter part of 2002. <i>Expended: \$439,699 of \$560,000</i>

	Work Element	Status
203.44-01	Livable Waikiki: Linking Transportation, Land Use, and Environment	The consultant was selected and the notice to proceed was issued on January 15, 2002. The project is underway. Project completion is estimated to be June 2003. <i>Expended: \$0 of 375,000 (FHWA-PL)</i> <i>Other funds: \$300,000 (TCSP)</i> <i>\$ 25,000 (Local Supplement)</i>
203.46-02	The Bus Systemwide Survey	The documentation for procurement is being prepared. Procurement of a consultant is pending the finalization of a Request for Proposal and authorization for consultant services. The project is anticipated to start in July 2002. <i>Expended: \$0 of \$300,000</i>
301.01	Program Support and Administration	Ongoing work element to support 3 -C planning process.
301.02	Planning Resource	Ongoing work element to provide transportation planning resources on OMPO-related matters.
301.03	Overall Work Program	Ongoing work element. A final draft of the 2003 OWP was sent for IPG, agency, and public review. The Policy Committee approved the FY 2002 OWP in May 2001.
301.04	Support for the Citizen Advisory Committee	Ongoing work element to provide support for the OMPO CAC and public participation program.
301.05	Single Audit	Ongoing work element. The FY 2001 audit of the OMPO was completed and the report submitted to the Federal Audit Clearinghouse; the FTA, FHWA, and the participating agencies. Notice of Public Review is from April 1, 2002 to May 16, 2002.
301.08	Disadvantaged Business Enterprise and Private Sector Participation	Ongoing work element. Semi-Annual reports of DBE activities were submitted to the DOT. FY 2003 DBE goals for FHWA-PL funds are currently being developed.

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**TABLE 2
SOURCES OF WORK ELEMENT FUNDING**

Work Elements	FTA S5307-97 S5307-99	FTA S5307-00 S5309-00 S5314(a)	FTA S5303-99 to -02 S5313(b)-99 to -02	FTA S5303-03 S5313(b)- 03	FHWA PL-96 to PL-97	FHWA PL-00 to PL-02	FHWA PL-03	FHWA STP/SPR Special Appropriation	FHWA ITS	TCSP	Local Match	Local Supplemental Match	Funding Total
FY 2003 WORK ELEMENTS (SECTION II)													
201.11-03							36,320				9,080		45,400
201.25-03							28,000				7,000		35,000
201.30-03							272,800				68,200		341,000
202.07-03							48,560				12,140		60,700
202.35-03							41,440				10,360		51,800
203.50-03							480,000				120,000		600,000
203.52-03							200,000				50,000		250,000
301.01-03				138,480							34,620		173,100
301.02-03				34,720							8,680		43,400
301.03-03				37,120							9,280		46,400
301.04-03				42,880							10,720		53,600
301.05-03				21,360							5,340		26,700
301.08-03				6,560							1,640		8,200
TOTALS	0	0	0	281,120	0	0	1,107,120	0	0	0	347,060	0	1,735,300
PREVIOUS YEARS' WORK ELEMENTS (Estimated Balances)													
201.01-01							144,000				36,000		180,000
201.05-01,02			3,097				21,977				6,268		31,342
201.11							23,320				5,830		29,150
201.15-01							114,640		60,000		28,660		203,300
201.20-02							320,448				80,112		400,560
202.01-95			78,669		366,000						213,120	417,273	1,075,062
202.02-00			44,836								11,209		56,045
202.05-01			10,216			10,216					5,108		25,540
202.06			36,880			36,880					18,440		92,200
202.07						29,320					7,330		36,650
202.20-99	2,728,000	3,977,660				8,000					1,678,415		8,392,075
202.30-02						82,219					20,555		102,774
203.17-99						91,726					22,931		114,657
203.29-00		320,000									80,000		400,000
203.30-00						104,800					26,200		131,000
203.34-00						88,640					22,160		110,800
203.42-01			51,875			44,366					0	24,060	120,301
203.44-01						300,000				300,000	75,000	25,000	700,000
203.46-02						240,000					60,000		300,000
TOTALS	2,728,000	4,297,660	225,573	0	366,000	1,660,552	0	0	60,000	300,000	2,397,338	466,333	12,501,456
GRAND TOTALS	2,728,000	4,297,660	225,573	281,120	366,000	1,660,552	1,107,120	0	60,000	300,000	2,744,398	466,333	14,236,756

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**TABLE 3
EXPENDITURE BY PARTICIPATING AGENCIES**

WORK ELEMENTS	DBEDT -OP	DOT	DOT-HWY	DPP	DTS	OMPO	OTHER	CONSULTANT	TOTAL
FY 2003 WORK ELEMENTS (SECTION II)									
201.11-03						45,400			45,400
201.25-03		5,000		30,000					35,000
201.30-03			310,000		15,000	16,000			341,000
202.07-03	500		5,000	500	10,000	44,700			60,700
202.35-03	5,000		10,000	5,000	10,000	21,800			51,800
203.50-03					100,000			500,000	600,000
203.52-03								250,000	250,000
301.01-03						173,100			173,100
301.02-03						43,400			43,400
301.03-03	1,000	4,000		1,000	6,000	34,400			46,400
301.04-03						53,600			53,600
301.05-03						11,700		15,000	26,700
301.08-03						8,200			8,200
FY 2003 TOTALS	6,500	9,000	325,000	36,500	141,000	452,300	0	765,000	1,735,300
PREVIOUS YEARS' ACTIVE WORK ELEMENTS (SECTION III) Estimated Balance									
201.01-01	2,500		20,000	2,500	5,000	30,000		120,000	180,000
201.05-01,02						31,342			31,342
201.11						29,150			29,150
201.15-01			3,500		3,500			196,300	203,300
201.20-02	5,000	5,000		5,000	5,000	130,560		250,000	400,560
202.01-95						379,229		695,833	1,075,062
202.02-00		7,857	3,000	5,000	10,000	30,188			56,045
202.05-01						25,540			25,540
202.06	1,000	10,000		5,000	10,000	66,200			92,200
202.07						36,650			36,650
202.20-99		5,000	5,000		382,075			8,000,000	8,392,075
202.30-02		8,424	11,250		20,000	33,100		30,000	102,774
203.17-99								114,657	114,657
203.29-00				76,000	4,000			320,000	400,000
203.30-00				31,000				100,000	131,000
203.34-00					30,800			80,000	110,800
203.42-01					92,000			28,301	120,301
203.44-01					31,000			669,000	700,000
203.46-02					60,000			240,000	300,000
PREVIOUS YRS' TOTALS	8,500	36,281	42,750	124,500	653,375	791,959	0	10,844,091	12,501,456
TOTALS	15,000	45,281	367,750	161,000	794,375	1,244,259	0	11,609,091	14,236,756

Table Updated 5/13/02

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APPENDIX A

Public Review Process - Comments and Responses

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file

PAPA OLA LOKAHI

894 Queen Street
Honolulu, Hawai'i 96813

RECEIVED
APR 2 2002

TELEPHONE: (808)597-6550
FAX: (808)597-6551
E-MAIL: polmail@aol.com

April 1, 2002

OMPO

Gordon Lum, Executive Director
Oahu Metropolitan Planning Organization
Ocean View Center, Suite 200
707 Richards Street
Honolulu, HI 96813-4623

Dear Mr. Lum,

Thank you for sending us a copy of "Review of FY 2003 Overall Work Plan."

It is extremely thorough and your staff has done a fine job.

Best wishes,



Hardy Spoehr, Executive Director

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APPENDIX B

Consideration of the 7 Planning Factors

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Consideration of the Seven TEA21 Planning Factors

Work Element	Economic Vitality	Safety and Security	Accessibility & Mobility Options	Protect Environment & Improve Quality of Life	Intermodal Transportation System	Efficient System Management & Operation	Preservation of Existing System
201.11-03						X	X
201.25-03						X	
201.30-03	X	X	X		X	X	X
202.07-03	X	X	X	X	X	X	X
202.35-03				X	X		
203.50-03	X		X		X	X	X
203.52-03			X		X	X	

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