Appendix A

Communications

Appendix A

Communications, Outreach, and Public Involvement

Introduction

Public involvement is an integral part of transportation planning, project development, implementation and maintenance. It is a basic tenet that transportation projects, plans and policies of almost any scale, and at any level of government, do not reach fruition unless the public has played an active role in their development. In fact, effective public involvement typically strengthens the decision-making process: by incorporating the input of a wide range of stakeholders, there is a much greater likelihood of developing a consensus to implement recommendations. There are many pieces of the puzzle that must fit together to achieve effective public involvement, including: identifying relevant public groups and stakeholders; developing methods of communication, education and participation; timing - public involvement activities; maintaining an open, inclusive and responsive process – one in which the public will want to remain actively involved, and building consensus throughout the process.

The Federal Transportation Act, titled *Safe, Accountable, Flexible, Efficient Transportation Equity Act – A Legacy for Users* (SAFETEA-LU), prescribes public involvement requirements for statewide planning:

CFR 23 § 450.214. Development and content of the long-range statewide transportation plan.

(k) In developing and updating the long-range statewide transportation plan, the State shall provide citizens, affected public agencies, representatives of public transportation employees, freight shippers, private providers of transportation, representatives of users of public transportation, representatives of users of public transportation facilities, representatives of the disabled, providers of freight transportation services, and other interested parties with a reasonable opportunity to comment on the proposed long-range statewide transportation plan. In carrying out these requirements, the State shall, to the maximum extent practicable, utilize the public involvement process described under §450.210(a).

Core requirements for public involvement stem from the National Environmental Policy Act (NEPA) and the Transportation Bills (Federal –aid Highway Act of 1970, Intermodal Surface Transportation Efficiency Act (ISTEA) and the acts extending its provisions (TEA21, and SAFETEA-LU).

Related law and policies include: Clean Air Act Amendments; Americans with Disabilities Act; Title VI of the Civil Rights Act of 1964 and Executive Order on

Environmental Justice; Americans with Disabilities Act; Rehabilitation Act of 1973; Age Discrimination Act of 1975; and the Civil Rights Restoration Act of 1987.

SAFETEA-LU provides specific references to public involvement:

- Planning Reasonable opportunity to comment on proposed plans and programs – A public participation program required – MPO and State
- Techniques Many references to technology –visualization and accessibility via the web
- Purpose and need Involvement in defining the purpose and need of a project
- Alternatives Involvement in defining the range of alternatives

SAFETEA-LU makes a series of less-specific references to web access and visualization techniques (the technology references were most pronounced in the pilot projects and grants).

Basic Premises

The basic premises of the Public Involvement and Community Outreach Program (COP) used for development of the 2030 Guam Transportation Plan included the following:

- 1. There is a high degree of skepticism as to the ability of the Government of Guam to effectuate any realistic infrastructure planning. Plan after plan has been created by various administrations for everything from education to healthcare to highways with no perceived follow through or progress reporting. Consequently, "planning" has become tied to administrations or legislative initiatives, and plans are shelved or discarded as new administrations or legislatures take the helm.
- 2. There is a genuine concern as to the impact of the proposed military expansion on *Guam's existing infrastructure.* As more information is released relative to the (military) build-up, the anxiety of the general public continues to rise over the island's ability to meet the demands of a 30 percent increase in population. Recent surveys indicate that 92% of the local population agrees that the build-up will be favorable for Guam. Conversely, 82% of the population also believes that our current infrastructure planning efforts will not be able to support the growth.
- 3. The general public does not differentiate between federally funded roadways and *locally funded roadways.* The distinctions between funding sources and associated regulations relative to Guam's transportation systems have become blurred over the years. This has resulted in perceptions of inequities among villages and residential communities.
- 4. The public is generally in favor of any improvements to the existing Guam *transportation system.* Traffic congestion is becoming more difficult, hazardous and expensive to navigate for Guam's drivers. Traffic fatalities in 2007 were the highest in 5 years. The rising costs of fuel, vehicle maintenance and insurance and a host of

other road and traffic related concerns have increased driver frustration. Road related accidents become front-page news and generally everyone knows the victims or is somehow related to them.

Public Involvement and Community Outreach efforts considered prevalent community values to avoid, minimize and/or mitigate perceived impacts, as well as to narrow the field of alternatives for planning purposes. Impacts relative to specific projects (e.g., alignments, right-of-way, easements, etc.) will be addressed through community outreach efforts for each specific project. Some consideration may have to be made for communicating constraints and tradeoffs of the transportation planning and project development process to effectively create support for the transportation needs and purpose.

Goals and Objectives

The primary goal of the Community Outreach Program (COP) was to provide and distribute information to stakeholders as well as solicit input and feedback to develop the 2030 Guam Transportation Plan and to gain general public support for it.

The plan for the Public Involvement and Community Outreach Program was designed to:

- 1. Develop a public involvement and communications strategy that would provide the means to engage Guam's community to provide dialogue and input towards the development of the 2030 Guam Transportation Plan.
- 2. Coordinate the public involvement and outreach strategies to integrate with planning phases and milestones.
- 3. Conduct communications in accordance with applicable FHWA, SAFETEA-LU and NEPA guidelines.

Outreach Methodologies

There are a number of outreach techniques that are generally accepted as "standard practices" for public engagement on Guam which were used in the GTP public and stakeholder involvement process. All outreach efforts including presentations, press announcements and meetings were jointly facilitated by the DPW and the consultant team. Specific methodologies that were engaged include the following:

- 1. **Creating public awareness of the plan through the media** this was accomplished through press releases, press conferences, print, radio and television interviews, local talk shows and a limited amount of paid advertising..
- 2. **Speaker Circuits**. these outreach efforts included speaking engagements at civic and business organization membership meetings such as the Guam Chamber

of Commerce, the Guam Contractors Association, and the Guam Hotel & Restaurant Association,. Generally the larger organization luncheons were covered by the media and highlighted through membership communications. Moreover, the larger civic organization luncheon meetings generally included those businesses with an interest in Guam's transportation systems such as commercial haulers, contractors, transit companies, commercial property owners and retail/wholesale businesses. Consequently, many of the concerns of these specific users were able to be addressed without additional meetings.

- 3. User group meetings these included making presentations and leading discussions at scheduled meetings with specific user groups affected by the program such as tour bus companies, public transit operators, trucking companies, and construction companies among others. Such meetings were conducted on an as needed basis and were primarily used to glean any additional or specific information necessary for the planning effort. In addition, presentations were made at public forums such as the Guam Industry Forum with specific focus on the pending Marine relocation to Guam and its impacts on the existing (roadway) infrastructure systems.
- 4. **Community Group Communications** Social, ethnic, cultural and foreign clubs or associations are valuable assets in building community consensus. Equally important are senior citizens' associations and organized recreational or sports associations such as cyclists or motorcycle clubs. Outreach to these groups was accomplished through public village meetings in the north, central and southern regions.
- 5. **Public Official Communications** elected or appointed representatives were communicated with directly through letters, phone conferences, round table discussions and briefings.
- 6. **Meetings with Local and Federal Agencies** information exchange with agency planners and statisticians was crucial to the development of the GTP. Organized meetings with specific goals were organized for both local and federal officials to ensure that accurate statistics were gathered and all policy and process requirements were met as part as the planning effort.

The type of stakeholder group interaction varied relative to the group itself, the type of feedback required or to be shared, levels of confidence and consensus that could be gained, and the effectiveness of the communications methods used.

Government Agencies

The first of many meetings between the planning team and the DPW Management and Highway staff was conducted on December 6, 2007. The DPW PM facilitated the introductory meeting. It provided for introductions, an orientation of the planning process and a chance to discuss and exchange information.

The first in a series of Government of Guam Agency outreach and data collection efforts was conducted on December 12, 2007. With support from the Acting Governor, a total of ten agencies were represented. The planning team made a presentation that included a request for data and information crucial to the traffic impact study modeling. The event was covered by <u>NHK Television (Japan)</u> as part of a documentary on the military build-up on Guam.

From these initial meetings, lines of communications were established between the consultant and the agencies. This allowed the planning team to glean important information crucial to the establishment of a baseline for existing conditions, policies, processes and programs.

This effort was followed up with additional outreach meetings to private sector organized groups to identify specific commercial user issues and/or concerns. Concurrently, the consultant's engineers conducted physical verifications related to existing conditions of federally and locally funded roadways. These crucial first series of outreach and verification efforts provided the planners with valuable insight as to the depth and detail of available information on Guam's existing transportation related systems, planning efforts and user perspectives.

Public Officials Outreach Efforts

Initial outreach efforts began with a press conference on the award of contract and a general briefing to the Governor of Guam. This served to bring public attention to the planning efforts including the Guam Transportation Plan. The event was covered by all media and began the process of public discourse.

Village Mayors represented one of the very first organized community outreach meetings that were conducted. The Mayor's Council of Guam is comprised of the 19 Village Mayors who represent the "front line" for the general public. An initial meeting was held to brief the Mayors Council on the intent of the GTP and to begin the information gathering process village by village. Mayors were asked to identify and prioritize transportation related issues within their villages and to turn them into the consultant for possible inclusion in the GTP and/or the Territorial Transportation Improvement Plan (TTIP). Subsequent meetings were also held with individual Mayors as their listings were finalized.

Initial outreach efforts to the Guam Legislature confirmed many of the concerns expressed by the Mayors including lack of adequate planning and funding as well as concerns over the prioritization for road projects. These outreach efforts included round table discussions and individual briefings with various senators including the Speaker.

The first full briefing to the Congressional Delegate for Guam was given by the project team in April. The briefing gave an exhaustive overview of the planning efforts with particular emphasis on the impacts of the proposed military expansion on Guam's transportation systems.

Civic/Business Organizations and User Groups

The focus of this launch effort was to introduce the GTP project to organized civic/business groups and to utilize earned media as much as possible to build interest for the first round of Public Meetings that was slated for February. Presentations were jointly conducted with DPW. Efforts included speaker circuits and/or meetings with civic/business organization memberships and specific user groups to share the overall approach to the project and provide a forum to discuss issues, gain participation and build support.

These outreach efforts were covered by the media and subsequent interviews with local television and radio stations brought attention and comment from the general public in preparation for the village meetings.

Additional outreach efforts included presentations to the Joint Guam Program Office and Naval Facilities Engineering Command sponsored Guam Industry Forum which was held in March. This Forum was focused on updating industry and the general public on the issues and progress of the planning efforts related to the proposed relocation of 8,000 Marines and their families from Okinawa, Japan to Guam. The presentations were focused on the impacts the proposed relocation would have on Guam's transportation infrastructure and updates on the Guam Transportation Planning efforts.

Community Meetings

This first series of Community Meetings held in early February 2008, included three public meetings, one each in the northern, central and southern districts in coordination with the Mayor's Council. They were held in community centers in Dededo, Agana Heights and Agat.

The objectives of these public meetings were to share the overall goals, objectives and performance measures of the GTP, layout baseline conditions and solicit community input. DPW and the consultant planning team jointly facilitated the meetings. Announcements were made through earned and paid media. Preparations included:

- Announcements of the public meeting dates in all outreach efforts with commercial user groups as well as civic/business and community organizations throughout the month of January.
- Paid advertisements in the <u>Pacific Daily News</u> and the <u>Marianas Variety</u> announcing the meetings five days prior to the first public meeting.
- Press releases with background information were provided to media five days prior to the first meeting with follow up releases on Monday, February 4.
- A Press Release was sent to all media on Monday, February 4 to provide information on what subjects were to be covered in the meeting and inviting the public to attend.

• Interviews on talk radio and media were arranged for DPW and the planning team members to discuss the GTP and invite the public to attend the meetings with follow-up interviews.

Static presentations and handouts were developed and printed for the community meetings to include:

- The mission statement of the Department of Public Works
- Island Map of the FHWA funded primary and secondary transportation systems
- Traffic congestion projections
- TTIP project listings
- Draft Proposed goals and objectives of the GTP
- Maps and graphics providing an overview of the existing baseline conditions
- Contact information and comment cards for collection of public input

Planning team members were present to answer questions related to the static displays and to interact with the public on specific transportation issues.

Comment/response forms were provided at each meeting to allow written public input which were collected and organized by village. In addition, attendees were encouraged to identify specific areas of individual concern by village. These comments were incorporated into an overall village by village compilation of issues and concerns that was folded into the planning process.

A defined timeframe for additional input was planned to accommodate those who could not attend the meetings or may have had additional questions or suggestions. This additional input effort was provided through follow up talk show appearances well as facsimile and phone access for additional public input.

Media

The 2030 Guam Transportation Plan effort officially commenced with the Governor's announcement at a press conference on December 5, 2007. The story was carried by all media and netted headlines in both local newspapers (<u>Pacific Daily News</u> and <u>Marianas Variety</u>), and top stories in local television newscasts that evening. A subsequent interview was given to the <u>Marianas Business Journal</u> featuring the planning team's manager.

2030 GTP: Communications Plan-SAFETEA-LU Public Involvement References

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CFR 23 § 450.214. Development and content of the long-range statewide transportation plan.

(k) In developing and updating the long-range statewide transportation plan, the State shall provide citizens, affected public agencies, representatives of public transportation employees, freight shippers, private providers of transportation, representatives of users of public transportation, representatives of users of pedestrian walkways and bicycle transportation facilities, representatives of the disabled, providers of freight transportation services, and other interested parties with a reasonable opportunity to comment on the proposed long-range statewide transportation plan. In carrying out these requirements, the State shall, to the maximum extent practicable, utilize the public involvement process described under §450.210(a).

§ 450.210 Interested parties, public involvement, and consultation.

(a) In carrying out the statewide transportation planning process, including development of the long-range statewide transportation plan and the STIP, the State shall develop and use a documented public involvement process that provides opportunities for public review and comment at key decision points.

(1) The State's public involvement process at a minimum shall:

(i) Establish early and continuous public involvement opportunities that provide timely information about transportation issues and decisionmaking processes to citizens, affected public agencies, representatives of public transportation employees, freight shippers, private providers of transportation, representatives of users of public transportation, representatives of users of pedestrian walkways and bicycle transportation facilities, representatives of the disabled, providers of freight transportation services, and other interested parties;

(ii) Provide reasonable public access to technical and policy information used in the development of the long-range statewide transportation plan and the STIP;

(iii) Provide adequate public notice of public involvement activities and time for public review and comment at key decision points, including but not limited to a reasonable opportunity to comment on the proposed long-range statewide transportation plan and STIP;

(iv) To the maximum extent practicable, ensure that public meetings are held at convenient and accessible locations and times;

(v) To the maximum extent practicable, use visualization techniques to describe the proposed long-range statewide transportation plan and supporting studies;

(vi) To the maximum extent practicable, make public information available in electronically accessible format and means, such as the World Wide Web, as appropriate to afford reasonable opportunity for consideration of public information;

(vii) Demonstrate explicit consideration and response to public input during the development of the long-range statewide transportation plan and STIP;

(viii) Include a process for seeking out and considering the needs of those traditionally underserved by existing transportation systems, such as low-income and minority households, who may face challenges accessing employment and other services; and

(ix) Provide for the periodic review of the effectiveness of the public involvement process to ensure that the process provides full and open access to all interested parties and revise the process, as appropriate.

(2) The State shall provide for public comment on existing and proposed processes for public involvement in the development of the long-range statewide transportation plan and the STIP. At a minimum, the State shall allow 45 calendar days for public review and written comment before the procedures and any major revisions to existing procedures are adopted. The State shall provide copies of the approved public involvement process document(s) to the FHWA and the FTA for informational purposes.

(b) The State shall provide for non-metropolitan local official participation in the development of the long-range statewide transportation plan and the STIP. The State shall have a documented process(es) for consulting with non-metropolitan local officials representing units of general purpose local government and/or local officials with responsibility for transportation that is separate and discrete from the public involvement process and provides an opportunity for their participation in the development of the long-range statewide transportation plan and the STIP. Although the FHWA and the FTA shall not review or approve this consultation process(es), copies of the process document(s) shall be provided to the FHWA and the FTA for informational purposes.

(1) At least once every five years (as of February 24, 2006), the State shall review and solicit comments from non-metropolitan local officials and other interested parties for a period of not less than 60 calendar days regarding the effectiveness of the consultation process and any proposed changes. A specific request for comments shall be directed to the State association of counties, State municipal league, regional planning agencies, or directly to non-metropolitan local officials.

(2) The State, at its discretion, shall be responsible for determining whether to adopt any proposed changes. If a proposed change is not adopted, the State shall make publicly available its reasons for not accepting the proposed change, including notification to non-metropolitan local officials or their associations.

(c) For each area of the State under the jurisdiction of an Indian Tribal government, the State shall develop the long-range statewide transportation plan and STIP in consultation with the Tribal government and the Secretary of Interior. States shall, to the extent practicable, develop a documented process(es) that outlines roles, responsibilities, and key decision points for consulting with Indian Tribal governments and Federal land management agencies in the development of the long-range statewide transportation plan and the STIP.

2030 GTP: Communications Plan-Targeted Stakeholders

Government Agencies

- I. Government Agencies
 - a. Government of Guam Agencies:
 - i. Bureau of Statistics & Plans (GovGuam statistical repository e.g., census statistics, GIS, development projects, Coastal Zone Mgmt)
 - ii. Emergency Responders (Police, Fire, Rescue, Homeland Security, Civil Defense, etc.)
 - iii. Utilities (GWA, GPA, Communications)
 - iv. Land Use related (Dept. of Land Management, Chamorro Land Trust, Ancestral Lands Commission, etc.)
 - v. DPW (school bus operators, solid waste, signage, signalization, routing, etc.)
 - vi. Attorney General's Office (existing laws, statutes, processes, etc.)
 - vii. Guam Visitors Bureau (tourism numbers & demographics, tourist ground transportation, projections, etc.)
 - viii. Port Authority/Airport Authority
 - ix. GCMP/GEPA/Agriculture/Parks & Recreation/WERI etc. (watershed, wetlands, erosion, archeological/cultural/historical sites, etc.)
 - x. Department of Revenue & Taxation (DMV, licensing, weights & measures)
 - xi. Department of Administration (mass transit, funding processes)
 - xii. BBMR (sources & uses of federal & local transportation funds)
 - xiii. GEDCA (economic projections, funding options, inflation rates, etc.)
 - xiv. Department of Labor (labor statistics, employment categories)
 - xv. GPSS/UOG/GCC (enrollments and facilities existing and planned)
 - xvi. DISID/Public Health (disabled, disadvantaged, elderly, welfare sectors)
 - xvii. Civilian/Military Task Force (CMTF)
 - b. Federal Agencies:
 - i. Department of Defense
 - ii. FHWA/DOT/FTA
 - iii. EPA
 - iv. Department of Interior
 - v. National Park Service
 - vi. U.S. Postal Service
- II. Public Entities
 - a. Mayors Council
 - b. Municipal Councils
 - c. Suruhano (Ombudsman)
 - d. Legislature
 - e. Consulates

Additional outreach and data gathering meetings are being scheduled with other agencies and organizations for December 17 through January 11 to include the GPSS, DoDEA School Systems, the Ministerial Society (an association of all private faith-based schools), GEPA, Parks & Recreation and others.

User Groups

III. Commercial Users

- a. Commercial trucking companies
- b. Trash haulers
- c. Mass transit operators
- d. Tour bus operators
- e. Construction companies
- f. Shippers & consolidators
- g. Insurance companies
- h. Oil companies
- i. Car rental, sales & fleet operators
- j. Heavy equipment rental companies
- k. Retailers & wholesalers

Civic/Business Organizations

- IV. Civic/Business Organizations
 - a. Committee to Keep Guam Working
 - b. Guam Chamber of Commerce
 - c. Guam Contractors Association
 - d. Guam Hotel & Restaurant Association
 - e. The Employers Council
 - f. Chinese Chamber of Commerce
 - g. Rotary Clubs
 - h. Guam Medical Society

Community Groups

- V. Community
 - a. Organized recreational & competitive groups (runner's clubs, cyclists, etc.)
 - b. Senior Citizens Centers/AARP/retirees/veterans
 - c. Foreign, cultural and ethnic clubs & associations (Young Men's League, Filipino Associations, Palauan Association, etc.)
 - d. Activists and advocacy groups
 - e. General public

2030 GTP: Communications Plan-Meeting Log

Listing of Meetings, Presentations and Discussions Regarding The 2030 Guam Transportation Plan Development (in chronological order)

Note: Light green highlighting indicates business and civic organizations. Blue shading indicates Federal, Regional and Territorial organizations.

DATE	Organization	Interests/Concerns/Discussion Points
December 2007	GovGuam Planners Meeting	
January 16, 2008	Mayors Council of Guam	 Why 2030? What happened to the plans in the Road Restoration project, DPW has many incomplete projects, villagers still waiting, what is status of Phase I, what is status of Phase II? How well is your coordination with utility agencies As you get your updates from the utilities, will you be able to update the Mayor's Council as well? Villages that will not be impacted by the military build-up should not be left out of improvements. There are many disputed properties in the villages, how will you handle? Agana Heights has two ROW issues Ipan has issue with DPW on two bus shelters, no funding, Mayor acquired private funding but questions on easement issues and design standards have not been answered by DPW, hopes that \$200M will cover bus stops and drainage issues (Talofofo Bridge) Road Restoration Project (PL28-68) should be encompassed into 2030 Plan, two critical areas in Yona, currently Mayor is doing quick-fix, not a quick response time from DPW, give me the
		 the villages, how will you handle? 7. Agana Heights has two ROW issues 8. Ipan has issue with DPW on two bus shelters, no funding, Mayor acquired private funding but questions on easement issues and design standards have not been answered by DPW, hopes that \$200M will cover bus stops and drainage issues (Talofofo Bridge) 9. Road Restoration Project (PL28-68) should be encompassed into 2030 Plan, two critical areas in Yona, currently Mayor is doing quick-fix, not a quick

		10. \$200M, is it new money or old money?11. What is status on insurance money?
January 16, 2008	Guam Hotel and Restaurant Association	 Pedestrian issues and sidewalks, is it part of overall plan in GTP? How can existing facilities be improved? You indicates two plans, one with military build-up and one without the military build-up; is there potential additional funding? Will a monorail be considered? Because this is federally funded, are there federal requirements and what are they? Will this plan be incorporated with other plans such as the Belt Collins plan on landscaping? What will happen afterwards?
January 30, 2008	K57 Morning Show with Ray Gibson	
February 6, 2008	Guam Legislative Committee on Judicial, Natural Resources, Infrastructure and Cultural Affairs	
February 20, 2008	Guam Contractors Association	 Hotline to Larry Perez With the military buildup, concern for increased traffic to NCTMS Is presentation available Why 2 PM's, check and balances or finger-pointing? With FEMA projects, and a 10% local match, where do we stand? Most have been awarded. Funding for FHWA projects, still issue on Rights of Way GovGuam is financially strapped, how do you expect to do all of this? Will FHWA funding affect the annual FHWA allotment? Are you there to supervise or to show DPW how to do it correctly Who approves the 2030 Plan? Are designs subject to FHWA standards? Will PTG assess bids?

		13. Will there be some constructability
		review?
February	Chamber of Commerce	1. GMF/Rte 10 – Road has been
21, 2008	Transportation and Truckers	reconstructed many times, need to ensure
	Committee	that once road is built we don't go back
		and open up. Touch the road only once,
		during construction
		2. Intersection of Rte 1 and Rte 8, unable to
		make left turns onto Rte 1. Currently
		using Santo Papa, but not feasible. Need
		better traffic movement from the Port to
		Harmon Industrial Park, need better
		infrastructure
		3. Need better traffic signalization
		4. What is process for Quality Control?
March 11,	Press Conference, Ylig	Larry Perez, PDN-Gaynor Dumatol, Marianas
2008	Bridge Closure	Variety-Therese Hart, KUAM-R. Sweeney.
		TelCon w/PNC
June 11,	Guam Chamber of	1. Guam is notorious for doing "Band-aid"
2008	Commerce Developers	repairs to our roads, is this another
	Committee	example?
		2. Mr. Larry Perez indicated that there will
		be additional funding for Tumon-specific
		projects and that he would be traveling to
		Washington, DC to seek add'l funding".
		Is this part of the plan?
		3. Does the numbering system of the
		projects in the TTIP have any
		significance in terms of priority and
		timing?
		4. Most of the projects listed are for existing
		roadways, will there be new roads
		constructed?
		5. Is there a plan for re-naming roads?
		6. Is there a website for updated
		information on the projects?
		7. "Trip generation" was used as a forecast
		model in the 2020 Masterplan, is the
		same used for the 2030 Masterplan?
		8. Will there be advance notice given to the
		public and those businesses,
		individuals/residents in the affected areas
		of construction on these projects?
		9. You indicated that RFQ's for future

projects for the design will be let out, will these be given to local firms?
10. What is the relationship between Parsons and PB?
11. Is Parsons primarily working on DOD work?
12. Will it be Design/Bid/Build on future projects?
13. In the re-surfacing of roads, will you using be rubber in the asphalt?

2030 GTP: Communications Plan

Community Meeting Stakeholder Input, Feedback and Comments

#	Topics of Concern	Comment/Notes	Public Meeting
1	Traffic Congestion/Flow, Bicycle/Jogging Paths	The lights need to be synchronized. It saves gas and time.	Agana Heights
2	Traffic Signals	Traffic lights on Marine Drive are not synchronized. We need bike/jogging lanes alone Marine Drive and up Nimitz Hill.	Agana Heights
3	Traffic Signals	Traffic signal timing needs a lot of improvement.	Agana Heights
4	Environmental & Resource Conservation, Traffic Congestion/Flow	Some of the exits roads now don't need extra property (?) to build the overpass. Just common sense. Main roads like Hamburger, Alagata Rd. need it now to easy traffic! Need pedestrian over pass at all intersections from Tamuning to Yigo and to include Agana. Lines don't work now.	Agana Heights
5	Traffic Congestion/Flow	#1, keeping congestion from engulfing the island – or roads becoming parking lots for commuters, lengthening commute time & eating up gas while sitting. The intersections involving Rt.1 (ITC, airport, road to GM(?), Rt.4, Rt.8). During heavy rains flooding roads in low areas as well as Polaris Point.	Agana Heights
6	Other	The goals are so comprehensive that I doubt that they will receive the attention they may deserve. Yiig(?) Bridge needs replacement. Adrian Sanchez Street (Hamburger Highway) needs construction to 4 lanes and integrated into Rt.1 & Rt.16. Fly-overs to ease traffic on Rt. 1. Leave Rt.17 – Cross Island Roads – as scenic, not fast.	Agana Heights
7	Economic Feasibility, Bicycle/Jogging Paths	Although the correct noises are made about non-motor transportation all the analysis involves highways. My GREAT consideration stands. Economic feasibility must include revenue covering operations and maintenance, plus excess for unanticipated cost. Need no cover capital. A variable should be lanes of traffic on Marine Corp Drive. It would be nice to narrow Marine Corp Drive to 2 lanes, turn lane and shoulders. The rest of the right-of-way could be used to bicycle paths & pedestrian walks. Also, new rights-of-way – unless they provide only access to property – should be restricted to emergency vehicles, public transportation, bicycles and pedestrians.	Agana Heights
8	Safety	One to the dump road by the waste dump – Blind spots, heavy truck traffic, poor striping & signage. Needs lower speed limit. Parking of waste trucks and need to clear brush.	Agana Heights

#	Topics of Concern	Comment/Notes	Public Meeting
9	Future Development, Safety, Handicap Accessibility, Bicycle/Jogging Paths	Will there be overhead crosswalks? Goals #4 & #1, then #10 are important Pedestrian cross walks safety, ADA compliance; pedestrian crosswalks, curb outs and sidewalks, ADA alterations, increase visibility of street markers, long term preservation, cross agency none coordinator construction, no running/biking lanes, Will the 2030 transportation plan incorporate other agencies 5 year strategic plan? i.e. GPA, GWA, GTA and private businesses?	Agat
10		Cross agency none coordinated construction.	Agat
11	Road Disrepair, Safety, Traffic Signals, Handicap Accessibility	Your mission and goals especially of providing good transportation here in Guam because it benefits to us. We can leave our own car and ride in your transportation. I can save gas and I can relax from not driving to my own destination. Another good thing would be if all our roads here in Guam could be fixed for the safety of all of us all and so our cars will not be damaged. When are you going to start your mission and goal? Goal #3 is important to us especially for me if there's a service for disabled people it can benefit to us because my husband is disabled for 4 years. When we go to doctor's appointments we can not go home on time because there isn't much service bus. My traffic problem is that we need signal lights here in Agat Way going to Ocean View School, especially in the morning and the afternoon. Going out is hard for us and we wait long for the traffic.	Agat
12	Traffic Congestion/Flow	More roads to be built. Traffic problems in the morning and evening at Tamuning.	Agat
13	Safety, Traffic Congestion/Flow, Traffic Signals	Safety. Congestion, Roadway Marluss, traffic Signal Timings and flood areas.	Agat
14	Road Disrepair, Secondary Roads and Village Streets, Traffic Signals, Bicycle/Jogging Paths	A secondary road for the Southern Area. Reason – flooding/wash off roads due to storms Too many traffic lights, too many pot holes, need pedestrian walks, railings, and nee more road markers.	Agat
15	Future Development, Safety, Traffic Signals	ITC intersection – and generally Marine Corps Drive as it runs through Tamuning – traffic is extremely heavy and not very safe to make left turns. DEVELOP A PLAN TO ENCOURAGE AND INCREASE THE USE OF PUBLIC TRANSPORTATION.	Agat
16	Environmental & Resource Conservation, Road Disrepair,	Some goals I agree with, and some I don't agree on. The plan you guys are doing is a great plan, but why now and where are you getting the money? Because right now the government is low on money. What made you guys come up with the plan? Is this plan	Agat

#	Topics of Concern	Comment/Notes	Public Meeting
	Safety, Economic Feasibility, Traffic Signals	going to last over 10-15 years? Goal #5 Environmental & Resource Conservation because they need to really support the preservation of natural, historic and cultural resources for our future generation and children to adapt to. When the power goes out, have a back-up power source for the street lights because they can cause accidents. Also the traffic lights need to be more update, even the cross walk lights need to be fixed. Sometimes when you use the cross walk by the time your halfway across the lights say "stop don't walk" – why is that?	
17		Please give priority to the contraction(?) of Main Road Marine Drive, etc. Why make Cruz Road not contracted(?) ? Proceed(?) the road by the Post Office.	Agat
18		This is a good mission and plan for us people of Guam. I think all goals are important.	Agat
19	Safety	Route 4A Junction. This area needs immediate attention because it's very dangerous.	Agat
20	Safety, Secondary Roads and Village Streets	How about the secondary road in Agat Village. Well! The main goal especially the most urgent ones should be addressed first but please don't forget Agat's secondary roads too. They're as equally important too for the safety of the senior citizen as well as the kids. The traffic in the central parts of Guam.	Agat
21	Road Disrepair, Safety	My village bridges/flooding issues as well as roadside erosion to shorelines. I would like to see these issues mitigated soon for the safety & well being of my residents. Traffic is not much of an issue in Merigo – However we do have very poor roads i.e. pot holes, lack of bus shelters(?) – or shelters placed in un-needed locations, major flooding issues/major erosions.	Agat
22	Other	Adequate road access to the proposed landfill sites is not currently avoidable and in fact is not even on the proposal books. Until the road (?) is adequate to access these sites any(?)	
23	Road Disrepair, Safety, Economic Feasibility	Landable(?) No mention of adequate funding. Man holes on some roadways, road work & repairs should be done in the evening with police security, and water hydrant to be protected.	Agat
24	Road Disrepair, Economic Feasibility	provided it's planned and done correctly the first time and as cheap as possible. Pot holes and dry up roads for water hookups.	Agat
25	Environmental & Resource Conservation, Future Development,	Is road going to paved and then sewer system placed in later? With development going on in cross (?) road area would provisions be provided to tap off water rivers to future development or roads paved and then dug up for water hookups? Goal 5 particularly important. Route 4 highway goes through the	Agat

#	Topics of Concern	Comment/Notes	Public Meeting
	Other	Historic Village of Inarajan. Homes and other structures are protected under the Federal Register because of federal highway rules; residents, visitors and tourists seem to encounter problems enjoying their historic tour because of parking restrictions and other highway enforcement. The highway is presently impeding economic stimulus for the village.	
26	Future Development	This is a start for better roads island-wide. Are all highways to be expanded island-wide to accommodate present and future traffic?	Agat
27	Road Disrepair	The goals that are planned are well layed out. Goal 3 Alageta and Macheche Rd. My understanding is that both roads have been designated Federal Highway's #25 & 26. Commuters utilize these roads to and from work and as detours from Marine Corps Drive. The present conditions of these roads are pathetic. Guam Water Works and Public Works (Hwy Division) have yet to repair "Chalan Galax" since rupture of the million gallon water storage tank.	Agat
28	Secondary Roads and Village Streets, Traffic Congestion/Flow, Other	Reduce amount of traffic and speed up movement of existing traffic through Tamuning on Marine Corp Drive. The workers inside the Harmon Industrial Park have to use Marine Corps Drive from Airport Rd. Traffic light to K-Mart light and then to GTX light just to get to work and back home. This is when they use Airport Access road from Barriga(?) (Route 16). This problem could be easily fixed if we produce a road behind the industrial park up to airport access road directly in front of the airport. Other ways to speed up traffic movement along Marine Corps Drive in Tamuning: The cut on the curbings need to be given more radius (curvature) so vehicles won't have to come to a full stop just to ext Marine Corps Drive. Tires repeatedly climb up onto these curbings.	Dededo
29	Road Disrepair, Traffic Congestion/Flow	Y-Intersection along T-Sengsong Road going to Machanao area. Need improvements – traffic issues. (See attached sketch)	Dededo
30	Traffic Congestion/Flow, Traffic Signals	Hopefully traffic congestion problems could be solved within 15 years. Traffic congestion at Rt. 1 from Dededo to Agana due to commute hours could be lessoned if secondary roads would be extended and widened. From Harmon Loop Rd./Route 16 intersection through Hamburger Rd. and into Northbound Rt. 1 – Traffic congestion. Traffic signal required at Harmon Loop Rd. and Liguan Ave. Intersection.	Dededo
31	Environmental & Resource Conservation,	Safety for bicyclists & pedestrians. Lack of adequate mass transit.	Dededo

#	Topics of Concern	Comment/Notes	Public Meeting
	Safety, Other, Bicycle/Jogging Paths		
32	Road Disrepair, Safety, Secondary Roads and Village Streets	I think primary and secondary roads should be repaired and man holes placed on either side walks or on road shoulders. The roads in Guam are deplorable and should be fixed so that we don't tear our cars apart. Storm drains should be on low points instead of high points. Contractors who feel compelled to tear up roads should be held to return roads to original condition, if not to an excellent condition. Turn areas on Harmon Loop Rd. should be further apart so that when two vehicles turning on or about the same time do not clock one another's vision from executing a turn.	Dededo
33		Left turn to Route 3. Can PMT make study? If can, install double left turn onto Route 3 from Route 1.	Dededo
34	Traffic Signals, Bicycle/Jogging Paths	Crosswalk across the Catholic Church Yigo Route 1 to the Dominican School. Perez acre – for traffic light.	Dededo
35	Safety, Secondary Roads and Village Streets, Traffic Signals	Secondary access roads for the two new schools scheduled to open for next school year – August 2008. Ukudo High School and Astumbo Middle. Reference: Emergency situation occurring at Simon Sanchez High School and F.B Leon Guarraro Middle School during chemical explosion and chlorine leak – safety hazard if only one road with access to the new schools. Will traffic lights and turn lanes be installed for the new schools?	Dededo
36	Safety, Traffic Congestion/Flow	Be specific more on objectives to meet the goal. Safety, system and services efficiency Can there be in the future version a main	Dededo
37	Safety, Traffic Congestion/Flow	But what about village streets and secondary roads. New cross walks. Lighting for all roads, streets, dangerous curves, busy intersections, and bus stops. They need street lights and guard rails. Safety – traffic congestion Other access roads going to Yigo, expand Ballo Road, traffic congestion – discuss other option; mass transit, car pooling and other ideas to ease heavy traffic.	Dededo
38	Safety, Traffic Congestion/Flow, Bicycle/Jogging Paths	Whole heartedly! Hope all this comes to fruitations(?) Gave questions to various reps on site. Improvement to all facets of road improvements and maintenance concepts. Safety for motorists, tourists, pedestrians and smooth flow of traffic.	Dededo
39	Future Development,	There are more developments going on in the Northern Villages. People from Central and Southern areas buy, inherit, or	Dededo

#	Topics of Concern	Comment/Notes	Public Meeting
	Road Disrepair, Safety, Traffic Congestion/Flow, Other	previous(?) land from the government. We need to upgrade water systems, roads, sewage systems and power systems to accommodate the growth in the north. What we mainly see here is development in the south and central areas of out island. The most important goal is to assure we have safe roads throughout our island and that they are well maintained. 27. Too much (?) on our roads need an alternate plan to stop traffic congestion in the centralbound(?) northern areas on our island. The outer islanders such as F.S.M(?) should educate their people about the rules and regulations about driving in Guam. I've seen too many accidents where the outer(?) islander causes it, then they get out of their car and runaway or just drive away like nothing happened. DUI has gone up. Street (?) should be imposed to drivers who are caught.	
40	Other	We need to have street names and street addresses. This bullsh*t about giving direction "Go to the third banana tree with ripe fruit and turn toward the ocean" has got to go.	Dededo
41	Safety, Traffic Congestion/Flow, Other, Bicycle/Jogging Paths	Reduce traffic on Marine Dr. through Tamuning and Public Safety. Pedestrian crosswalk in front of Denny's Tamuning. Crosswalk must be with reflection buttons not just paint!! Also, proper warning of crosswalk ahead with reflection buttons which will alert driver by the buttons causing a vibration and noise. This especially important at night.	Dededo
42	Other	The existing fiasco at the intersection of Route 8 and Marine Corps Drive needs to be fixed ASAP!! Traffic going south on Marine Corps Drive from Route 8 have no signage tot ell them to go to Route 4(?) and use the loop. We need to condemn those buildings along Marine Corps Drive and let's put an overpass there.	Dededo
43	Traffic Congestion/Flow, Other	Throughout the goals there needs to be a geographic information system that captures the transportation infrastructure in order to maximize system & service deficiency (Goal 4), to improve coordination, communication and cooperation (Goal 10), facilitation & documentation. Gridlock during high traffic times.	Dededo
44	Future Development, Safety, Other, Bicycle/Jogging Paths	Where are the other government agencies that are impacted with the 2030 GTP? How much information is being used from GEDCA, GLVC, etc. for long term planning? Future road developments aligned with island economic development plans? Future infrastructure development plans? Will there be a streamline repository for agencies and utilities? Will all facilities be GIS/GEO coded for future use? Standard across repository? Will there be projected ergo-systems with running/biking lanes?	Dededo

#	Topics of Concern	Comment/Notes	Public Meeting
		Will the Guam running club GRC or Guam Bicycle Association	
		GBA be part of the planning? Could this be introduced GVB to	
		increase health & awareness to promote Guam as destination	
		spot? Goals #4 and #1 are important, in that order. Safety should	
		be already in best practices. Yigo – Hagatna Rt. 1. Emergency	
		Routes (911 vehicles) during peak operation.	
		The name "Transportation Plan" maybe should be changed to	
45	Other	"Guam Highway Plan." Mass transit is normally a component of a	Dededo
		Transportation Plan. Is it addressed?	

Appendix B

Data Review

The Guam Transportation Plan 2030

Data Review Memo

-DRAFT-

February 26, 2008

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1. Introduction

The purpose of this technical memorandum is to record and summarize information gathered and reviewed for the Guam Program Management project. It includes relevant data describing Guam's socio-economic conditions, population, employment, and travel characteristics, as well as previous reports issued by or for the Government of Guam. Data sources consist primarily of tables, charts, and graphs produced by various agencies, while the reports involve more substantial documents. In some cases, the narrative details how the information is to be used within the context of the project.

This technical memorandum is intended to be a living document. It will be updated periodically as new data and reports are consulted during the course of the Guam Program Management project.

2. Reports

The following reports provide background on previous planning and project efforts in Guam and offer a framework for future study and implementation.

2.1 Government of Guam. Guam Military Growth and Integration Challenge Statements. Prepared by KPMG. October 31, 2007.

Guam Military Growth and Integration Challenge Statements illustrates the unmet needs that exist on Guam at the first stage of military expansion. The assessment identifies communication, collaborative planning and partnerships, and investment and accountability as key factors for mutual success by the U.S. Military, federal government, and Guam. It presents the infrastructure issues and associated recommendations to be addressed before Guam can adequately accommodate growth.

The issues associated with physical infrastructure include:

- Constrained capacity at the Port of Guam;
- Aging and unreliable power generation and transmission facilities;
- Contamination of water resources, growth pressures, and disrepair of water and wastewater infrastructure
- Insufficient solid waste disposal;
- Limited roadway and public transportation network;
- Disparity between technology and current service level requirements.

The issues associated with social infrastructure include:

- Unique natural environment that will necessitate sustainable development practices;
- Shortage of skilled workers, particularly in the areas of health, education, information technology, and construction;
- Overstretched healthcare system;
- Escalating housing costs disproportional to growth of median household income; and
- Old and overcrowded schools.

Primary recommendations for all of the issues suggest the need for further individual environmental study and bridge funding to support initial capital investments.

2.2 Duenas, Bordallo, and Associates. Guam 2020 Draft Highway Master Plan. Prepared for the Government of Guam, Department of Public Works. October 26, 2005.

The *Guam 2020 Highway Master Plan* was prepared in 2005 as an update to the 2010 Highway Master Plan. The five goals identified in the plan include:

- Highway Transportation Quality
- Highway Transportation Efficiency
- Highway Cost Effectiveness
- Comprehensive Planning
- Environmental Quality and Historic Preservation

The plan reviewed the status of the existing highway network and current economic and demographic conditions. It also generated forecasts of population, employment, school enrollment and other aspects of Guam's demography for the planning horizon. Using the collected data, the plan developed a new travel demand model and used it to analyze traffic flows for the planning period and develop transportation demand forecasts for target years 2015 and 2020. It then evaluated the effectiveness of the current highway system against the results of the transportation demand model. Where the highway system was insufficient, the plan proposed short-range and long-range highway improvement projects to meet the needs.

The recommended 2020 Highway Master Plan Short Range Program consists of 17 highway reconstruction and widening projects totaling about 38.76 miles and 1 new route. The estimated cost for the short range highway improvement program is \$165.91 million. The Long Range Program highway improvement projects go beyond those projects identified in the Short Range Program to further improve highway capacity by widening existing roads and increasing route choices by the addition of connectors along new alignments. A large number of potential LRP projects were considered and the two concepts emerged:

- Concept A, which includes the minimal highway improvement program required to satisfy updated 2020 Highway Master Plan goals and objectives; and,
- Concept B, which is Concept A plus highway projects that establish a Defense Access Highway System linking Guam's two major Department of Defense base facilities: Andersen Air Force Base and Naval Station.

The 2020 Highway Master Plan draft report provides the following conclusions in regards to implementation and funding options:

- 1. The Short Range Program highway improvement projects could be funded by proper management of revenues coupled with timely phasing of program implementation.
- 2. The funding of Long Range Program Concept A highway improvement projects will experience an excess of \$27.15 million, some of which is expected to be offset by inflationary increases in the cost of labor and pricing of materials and equipment.
- 3. The funding of Long Range Program Concept B highway improvement projects will experience a shortfall of \$53.93 million.

Although the *Guam 2020 Highway Master Plan* was never officially adopted, it still functions as the primary guiding document for the future direction of roadway planning and projects on Guam.

2.3 Government of Guam. Guam Territorial Transportation Improvement Plan.

The *Guam Territorial Transportation Improvement Plan (TTIP)* is a list of proposed project for fiscal years 2005 through 2009. Revenue sources for the projects consist of:

- Emergency Relief Carry Over Funds
- Bridge Discretionary Cary Over
- National Highway System Territories STEA3
- NHS Territories
- Transportation Improvement Project Carry Over
- Section 117 Funds Carry Over
- American Samoa Loan Payment
- Army Corp of Engineers

Several of the funds were carried over from FY05 and FY06 and are expected to be used during FY07. Twenty-eight million dollars are allocated for projects to be reprogrammed with the unexpended balance from FY04 to FY06.

The plan calls for proposed projects in the following categories:

- Emergency relief projects totaling \$10 million dollars are slated for construction in FY06 and FY07.
- Highway Hazard Elimination projects are planned for preliminary engineering and construction for FY05-FY09. Annual totals range from around \$13,000 (FY06) to over \$4 million (FY07).
- Short-range reconstruction and improvement projects total under \$2 million for FY06 and approximately \$20 million for FY07. None of these projects are programmed for FY08 or FY09.
- Projects under the Safe Streets category will be addressed in FY07 with \$3 million dollars for preliminary engineering and \$29 million for construction.
- Most of the special programs and projects will be addressed with six to seven million dollars a year from FY07 to FY09.
- Preliminary engineering for the upgrading of bridges and waterways will occur during FY07 and FY08.
- Work for miscellaneous transportation projects and long-range highway improvement projects will be performed between FY07 and FY09.

Total expenditures are minimal for FY05 and FY06 with much of the money being carried over into the \$92 million dollars obligated for FY07. Projects in FY08 and FY09 will require the over \$20 million dollars a year in available funds. The list of proposed projects can be found in Appendix A-1.

2.4 Department of Administration. Division of Public Transportation Services. Long-Range Statewide Transportation Improvement Program (LSTIP): Fiscal Years 2007-2030. Government of Guam. October 29, 2007.

The *Long-Range Statewide Transportation Improvement Program (LSTIP)* addresses planning for highway and public transit for the entire island of Guam. The LSTIP focuses on the extent of Guam's transit operations. It summarizes the local urban and intercity system, rural and small town services, transportation for the elderly and disabled, and any intercity passenger bus trips. A map of the Guam Public Transit System can be found in Appendix A-2.

The LSTIP also describes the Department of Administration-Division of Public Transportation Services (DOA-DPTS) role in transit. The DOA-DPTS administers federal transit grants funded in SAFETEA-LU. In SAFETEA-LU, Guam received a 46% increase in the amount of guaranteed funding, as compared to the previous surface transportation program. The plan also presents historical and projected ridership figures for transit. Total annual bus ridership has fluctuated over the past five years with the 2007 figure being 260,533. This number is projected to almost double to 236,615. The LSTIP estimates that the reallocation of U.S. military personnel and dependents will have a direct affect on the transit system, particularly in the municipalities of Dededo and Yigo.

The list of projects listed includes continued operating assistance for the current transit programs, capital investment for the procurement of buses that are compliant with the Americans with Disabilities Act (ADA), and funds for planning, design, and construction of several transit/transfer centers. A summary table listing the LSTIP programs and funding sources is located in Appendix A-2.

2.5 Department of Administration. Division of Public Transportation Services. Short-Range Statewide Transportation Improvement Program (SSTIP): Fiscal Years 2006-2009. Government of Guam. October 29, 2007.

The *Short-Range Statewide Transportation Improvement Program (STIP)* addresses planning for highway and public transit for the entire island of Guam. It is developed every four years and lists all projects proposed for funding. The STIP is consistent with the Territory Long-Range Plan and other funded regionally significant transportation projects.

The STIP primarily addresses public transit transportation projects for Guam, while the roadway, bridge, bicycle, pedestrian and safety projects are reviewed in the unadopted Guam 2020 Highway Master Plan Report and the Guam Territorial Transportation Improvement Plan. The plan discusses the sources of federal funding received through SAFETEA-LU and how Guam uses the money to administer transit programs. The sources include:

- Section 5309-New Starts (Capital Investment Grants)
- Section 5310-Formula Program for Elderly Persons and Persons with Disabilities
- Section 5311-Other Than Urbanized Area Formula Program
- Section 5311(b) (3)-Rural Transit Assistance Program (RTAP)
- Section 5316- Job Access and Reverse Commute
- Section 5317- New Freedom Program

The amount available to Guam between the Fiscal Years 2007 and 2009 is \$1,216,791. The funds are allocated for the procurement of ADA accessible buses, as well as to support continued operation of the current transit services. A summary table listing the STIP programs and funding sources is located in Appendix A-3.

2.6 Department of Public Works. Office of Highway Safety. Highway Safety Plan. Government of Guam. 2007.

The Guam Office of Highway Safety prepares and administers a comprehensive *Highway Safety Plan* for the purpose of reducing the

incidence and severity of vehicular crashes on Guam's highways and local street system. It uses a well-planned public awareness and education campaign, along with infrastructure improvements and selective enforcement countermeasures. The plan states goals, project activities, and performance measures to be activated during Fiscal Year 2007 by topic, as well as the associated partnering agency. The various topics included in the plan are:

- Alcohol & drugs,
- Highway safety traffic prosecution,
- Child/occupant restraints,
- Child traffic safety enforcement,
- EMT services injury prevention services and EMT education,
- Traffic record information management system,
- Safe communities, and
- Pedestrian and bicycle safety program.

The emphasis of the plan is to provide for funding to develop effective programs that can become operational within a three-year period. A summary of the Problem Solution Plans (PSPs) identified in the report is located in Appendix A-4.

2.7 2007 Guam Action Plan for the Coordination of Human Services Transportation. Government of Guam, by Guam CEDDERS Newsletter, November 2007.

The 2007 Guam Action Plan for the Coordination of Human Services Transportation focuses on transportation services for older adults, persons with disabilities, and persons of lower income. It speaks to the four major goals of the Coordinating Council on Access and Mobility (CCAM):

- 1. Coordinated transportation planning;
- 2. Vehicle sharing;
- 3. Cost allocation; and,
- 4. Reporting and evaluation.

While public transit on Guam includes fixed route, demand response service to fixed routes, paratransit service, and several other options, access to transportation continues to be a concern.

The plan produced an inventory of all transportation resources available on Guam and provides figures on the number of vehicles by type, number of vehicle by each group, number of vehicles by sector (public or private). It also identified gaps in the current service and performed a needs assessment. Identified needs include:

- Improve the reliability of transportation services;
- Increase accessibility;

- Focus on user friendly services; and,
- Share funding opportunities with partners.

The result of the planning effort is an extensive list of action items that provide strategies, the timeline, responsible agency, and the priority ranking. None of the items have any dedicated financial resources.

2.8 Guam Waterworks Authority. *Guam Water Resources Master Plan.* Government of Guam. March 13, 2007.

The *Guam Water Resources Master Plan (WRMP)* is driven by the need to comply with EPA regulations; however, it goes beyond the requirements to continue to improve its performance on effective water and wastewater management. The WRMP consists of a capital plan, financial plan, and analytical tools. Key goals include:

- Instituting sound asset management and capital planning;
- Developing a foundation for sound management, operations, maintenance ,and financial planning;
- Engaging the customer and achieving the appropriate level of service;
- Achieving long-term resource sustainability; and,
- Establishing a road map for full regulatory compliance.

Water System

The Guam Waterworks Authority (GWA) operates and maintains over 200 water facilities within three different public water systems. The Northern and Central Public Water Systems have a "large" designation, while the Southern Public Water System has a "small" designation. A map of the GWA water system boundaries can be found in Appendix A-5. The GWA water supply is attributed to six sources. The main supply source is a series of deep wells located in the northern/central portion of the island, which contributes over 75% of the island's 42 million gallons per day. The water is the distributed across the island through 400 miles of pipe.

Wastewater System

The GWA provides wastewater services for the general population and Andersen Air Force base. It consists of seven wastewater basins and sewage treatment plants. A map of the wastewater basins is located in Appendix A-5. Approximately 41% of island residents, primarily located in the Northern and Central Guam, are served by individual wastewater disposal systems.

Existing Conditions and Planning Considerations

The plan's existing conditions assessment rated the water and wastewater systems as poor. The water system infrastructure is insufficient to meet basic flow and pressure needs and the wastewater system is not typically meeting the discharge permit requirements. The plan also considered service levels, changes in population and land use, and regulations. The population served by the GWA water system is expected to grow by almost 40,000 by 2025, and the wastewater system population is supposed to increase by 20,000. GWA must continue to maintain service levels that satisfy customers and comply with regulations.

Capital Improvement and Financial Programs

The principal water system needs are associated with the distribution system, while wastewater system needs relate to treatment plant improvements. The plan identifies a Capital Improvement Program (CIP) that represents \$900 million in 2007 dollars. The water system needs represent about \$550 million or over 60% of the estimated funding required. The wastewater system treatment facilities and capacity related collection system needs each require over \$100 million. Areas needing sewer service are also substantial at \$70 million.

Financing the proposed improvements is presented in two alternatives to the pace of construction, with the differences principally due to deferral in construction of certain projects not essential for life and safety.

- Base Case CIP: In the first five years through FY 2010-11, the project expenditures total \$185 million in 2007 dollars. To fund the CIP, ratebased revenues should be almost doubled by FY 2011-12. User rates must be increased by 8 percent annually for seven years, and additionally in subsequent years. The Base Case CIP summary table can be found in Appendix A-5.
- Minimum Pace CIP: The first five years of the CIP totals \$132 million. User rates must be increased by 6 to 6.4 percent annually for six years, and additionally in subsequent years.

Bank of Hawaii. Guam Economic Report. October 2003.

The 2003 Guam Economic Report provides an analysis of the factors influencing the Guam's economic situation. The report discusses current challenges and offers recommendations to minimize the continued erosion of the economy. Because of the lack of data on gross domestic product (GDP) and the tax base, the report uses secondary sources, such as population and employment, federal spending, and tourism, as indicators.

Guam experienced a decline in population growth between 1990 and 2000. The report states this is not because of a drop in births, but rather because Guamanians are moving to Hawaii and other states for employment opportunities. This migration is reflected in a decrease in the civilian labor force, payroll employment, and wage rate in the private sector. Guam is losing the citizens with the most marketable skills who leave the island for higher paying jobs on the mainland.

Tourism and military activity remain the central elements of Guam's economy. Guam depends on tourists from Asian countries, specifically Japan, to drive the tax base, employment, and business receipts. This reliance means that the financial status of Guam is directly linked to the fortunes of Japan. Federal spending for military interests is the other major economic generator. The ripple effect of every defense dollar is even higher than that of a tourism dollar. The report cites a weak Japanese market and military cutbacks have negatively affected the strength of Guam's economy.

The Guam Economic Report emphasizes that Guam needs to take active measures to enhance their economy. Recommendations include:

- Formulating a comprehensive financial reform program that would include revising the territorial business privilege tax system;
- Improving education;
- Appealing to the federal government for increases in military and civilian commitments; and,
- Creating a more cooperative relationship between government and business.

2.9 First Hawaiian Bank. "Guam Outlook Brighter than in Several Years." *Economic Forecast—Guam Edition.* 2006-2007.

The report entitled "Guam Outlook Brighter than in Several Years" published in *Economic Forecast—Guam Edition* offers insight into the future for Guam's economy. It presents a qualitative evaluation of the external drivers that inject money into the Guam economy. Particular attention is given to the implications of a significant buildup in U.S. military presence.

The report discusses Guam's past economic performance, which has languished in the last decade. It affirms the collapse in Japanese investment and tourism, along with Base Realignment and Closure (BRAC) initiatives that moved military forces elsewhere, as major hits to the Guam economy. Combined with the effects of two consecutive natural disasters, Guam entered a recession.

Recent indicators shown in the report suggest that the economic trend is reversing. The tourism market appeared to revive in 2006 and recovery in the real estate sector has sparked renewed interest in development and new construction. However, the largest contribution to Guam's economy will be the reinvestment and reallocation of U.S. resources. An estimated \$15 billion dollars over a period of ten years will fund the transfer. Much of the money will provide for military housing and facility upgrades. It is expected that an additional 8,000 troops and 12,000 dependents will move to Guam, doubling the current military-related population to 42,000.

The report mentions concerns with growing pains, especially with regards to infrastructure; but overall, it presents a positive economic forecast for Guam's future.

2.10 Tiyan Parkway Project

The information on this project includes court documentation from 1951 through 1954 in the 'Land Docs' folder. Additionally, there are several land

surveys in the 'Real Estate' folder and roadway schematics available in the 'Tiyan Airport Pkwy' folder. An example of the schematics produced from this project is located in Appendix A-6.

2.11 FHWA Territorial Highway Program (THP) SAFETEA-LU Changes. June 2006.

The implementation guidance memorandum for the THP under SAFETEA-LU summarizes significant changes made to the THP in accordance to SAFETEA-LU. The changes replace the implementing guidance under TEA-21. Additionally, the memorandum summarizes significant provisions included in revised sections. A summary of the significant changes and provisions can be reviewed in the "Territorial Highway Program (THP) SAFETEA-LU Implementing Guidance" memorandum.

2.12 FHWA Territorial Highway Program (THP) Implementation Under SAFETEA-LU

The THP was created for federal financial assistance to the Virgin Islands, Guam and American Samoa for the construction and improvement of a system of arterial highways and necessary inter-island connectors. This document provides a:

- Background and legislative history of various federal funding mechanisms;
- Brief description of the THP which is to assist each territory in the construction and improvement of a system of arterial and collector highways, and necessary inter-island connectors;
- Brief description of how the Territorial Highway System (THS) has been an element of the THP since its inception, providing a way of classifying, reviewing and ensuring which roadways are eligible for funding;
- Funding / obligation authority explanation of continued SAFETEA-LU funding for the THP set-aside from the National Highway System (NHS) including a funding distribution across the four territories of American Samoa, Guam, Northern Mariana Islands and the Virgin Islands;
- Federal share;
- Eligible activities which lists projects and activities that may be eligible for THP funding.
- Toll facilities eligibility;
- Emergency Relief (ER) Program with an obligatory funding limit for the four territories;
- Maintenance which is a provision for maintenance projects eligible for THP funding with the exception of routine maintenance;
- Design Standards;

- Project Approval and Oversight would allow the FHWA to provide technical assistance to administer the THP on a continuing basis to the above listed territories. The level of FHWA oversight would be based on the need of a particular territory as well as the resources available to the FHWA.
- Applicability of Title 23 Chapter 1 Provisions are sections that do not apply to the THP;
- Territory Agreement is between the chief executive office of a territory and the FHWA dated August 9, 2006, outlining the responsibilities of each party; and,
- Delegation of Authority identifies the responsible party for the administration of the THP.

A table listing the funding for the THP for Fiscal Years 2005 through 2009 is located in Appendix A-7.

2.13 Government of Guam. Department of Administration – Division of Public Transportation Services. System Security and Emergency Preparedness Plan (SSEPP): Fiscal Year 2008. October 29, 2007

The System Security and Emergency Preparedness (SSEP) Program Plan describes the purpose, objective and goals of the Department of Administration-Division of Public Transportation Services (DOA-DPTS). The SSEP plan outlines the process to be used by DOA-DPTS to make informed decisions appropriate for operations, passengers, employees and communities regarding the development and implementation of a comprehensive security and emergency preparedness program.

The overall purpose of DOA-DPTS's SSEP Plan is to optimize - within the constraints of time, cost, and operational effectiveness - the level of protection afforded to DOA-DPTS's passengers, employees, volunteers and contractors, and any other individuals who come into contact with the system, both during normal operations and under emergency conditions.

The goals ensure that security and emergency preparedness are addressed during all phases of system operation, promote analysis tools and methodologies to encourage safe system operation, and create a culture that supports employee safety and security and safe system operation.

The objectives of this program are to: achieve a level of security performance and emergency readiness that meets or exceeds the operating experience of similarly-sized agencies around the nation; increase and strengthen community involvement and participation in the safety and security of the system, develop and implement a vulnerability assessment program, and based on the results of this program establish a course of action for improving physical security measures and emergency response capabilities; expand training programs for employees, volunteers and contractors to address security awareness and emergency management issues; enhance coordination with Guam Homeland Security/Office of Civil Defense regarding security and emergency preparedness issues.

The SSEP Plan also includes sections on transit system description, program roles and responsibilities, threat and vulnerability resolution, and evaluation and modification of the SSEP Plan. The Vehicle Safety Program Plan is included in Appendix A-8 as a sample of the overall SSEP plan.

2.14 The Economic Development Administration (EDA): Defense of Economic Adjustment Program.

The Office of Economic Adjustment (OEA) is the Department of Defense's primary source for assisting communities adversely impacted by defense program changes, including base closures or realignments, base expansions, and contract or program cancellations. The OEA offers technical and financial assistance, such as the Joint Landuse Study Program, to adversely impacted communities and coordinates the involvement of other federal agencies through the Defense Economic Adjustment Program (EAP) and the President's Economic Adjustment Committee.

The Defense EAP assists state and local interests in the design and implementation of strategies to adjust or bring about change to an economy. The Defense EAP predominantly supports two types of investment activities, strategic planning and project implementation. The Seattle Regional Office is the contact office for the Guam. Promising practices through the Federal Regional Council (FRC) include using San Francisco as a forward operating location, tri-party or multi-party meetings, around the clock e-mail operations, Office of Insular Affairs Grants and Financial Management Conference, Joint Guam Program Office Environmental Impact Statement Partnering Sessions, Guam Department of Labor, and Guam's Mentoring Center of Excellence.

For additional information on the OEA, visit: http://www.oea.gov/OEAWeb.nsf/Home?OpenForm

2.15 Department of Public Works (DPW) Project Information

The DPW project information includes:

- Road Considerations for new GPSS Schools.
- Project Status Update for August 2007. This document includes the project name, the status of the project, the date of the status update, and the project engineer on the project.
- Traffic Installations is a schedule, scope and budget of traffic signal installations for UKUDU High School and ADACAO Elementary School.
- Project/Contract Type document is a list of project numbers, project description, contract type and status of the project.
- Engineering Scope of Services for intersection reconstruction and traffic signalization upgrades, roadway improvements for Route 8, Route 10 &

Route 16, and GMF Post Office and Guam National Guard Proposed Intersections.

List of projects needed for immediate delivery.

Examples of DPW project listings are included in Appendix A-9.

2.16 Business Opportunities in Infrastructure. Presentation at the Guam Industry Forum. August 23-24, 2007

This presentation provided a brief introduction of the Consolidated Commission on Utilities (CCU). It goes on to describe the departments within the CCU.

<u>Guam Power Authority</u> is a sole provider of electricity on Guam. There are: a list of major long-term contracts, potential project summary tables, list of transmission & distribution system reliability improvement projects, list of fuel diversification or renewable energy projects, and an additional fuel reserve storage project. Partnership Models highlight the opportunities with Guam Power Authority.

<u>Department of Public Works' Division of Highways (DPW-DH)</u> is charged with the construction and maintenance of all Guam's "horizontal" assets. This department is positioning itself for the unprecedented growth of Guam, and anticipates investing over \$1.5 billion over the next four years. To accomplish this, DPW-DH is looking to secure the services of a Program Management Team to: administer and manage all aspects associated with building an intelligent transportation network, engage with private investors, contractors, suppliers, etc. in the design-build, design-bid-build and design-buildoperation of all of its highway infrastructures and systems; and is inviting all to "come to the table" to partner with the DPW and implement as many projects as is possible within a compressed timeframe.

<u>Guam's Waterworks Authority (GWA)</u> provides water service to Guam. Capital improvement projects and bond and Environmental Protection Agency funded projects are described. A list of opportunities for partnership with the GWA is included in the presentation.

<u>Division of Solid Waste Management</u> services mainly the civilian community. American Airforce Base (AAFB) serves the AAFB community and the Navy serves the Naval community. The current infrastructure identifies the financial structure of existing services. The future infrastructure identifies a 'Strategic Plan of Action'.

2.17 Projections of the Number of Households and Families in the United States: 1995 to 2010, U.S. Bureau of the Census, Current Population Reports, by Jennifer Cheeseman Day, P25-1129, U.S. Government Printing Office, Washington, DC, 1996.

This report includes projections of the number of households and families in the United States for the years 1995 to 2010. These numbers are based on the

1990 Census with modifications for age and race. Household estimates from 1991 to 1994, and are projected forward using alternative marital status and household type proportions. These household projections are not intended as a forecast, but represent the results of assumptions about future trends in population change and household formation. There are three different scenarios.

The report presents an overview of projected household trends with regards to changing population size, age distribution, patterns of householdership, and race/ethnic distribution. It also presents projected size of households and families. For projected household composition, the report discusses marital status and number of children. Assumptions and methodology are presented, along with detailed tables of the data. A summary of Household projects are included in Appendix A-10.

2.18 Parsons Brinkerhoff. 2007 Master Plan: Commercial Port of Guam. Progress Report #2, by Parsons Brinckerhoff, Jose D. Leon Guerrero, October 2007.

The document presents activity forecasts for the Port facilities, including cargo forecasts for containerized, break-bulk and bulk cargoes as well as cruise passenger vessels and other ship calls. In addition to cargo, it offers information on the socio-economic trends.

Examples of activity forecasts for the port facilities are included in Appendix A-11.

2.19 Port Modernization and Readiness Status Report. Presentation to the Guam Interagency Task Force, by Parsons Brinkerhoff, November 2007.

The presentation presents an overview of the Master Plan development status, including the history of the port, data collection efforts, existing facilities and trends, 20 year demand forecasts, capacity analysis, alternatives and local preferred alternatives. It also discusses a final analysis and environmental permitting needs.

3. Data

The data collected includes demographic and socio-economic information, tourist/visitor data and travel characteristics, traffic and travel data, transit information, and other transportation movements.

3.1 Guam Statistical Activities. www.pacificweb.org. Website accessed January 2007.

The website provides access to information from censuses, surveys, administrative records and other reports for Guam. The census data includes Census 2000, 1992-2002 Agricultural Censuses, and the 1992-2002 Economic Censuses; the surveys address labor force and migrant trends; and the administrative records present statistical data and forecasts. Report topics vary from drug control and violence prevention to housing and homelessness. The data will be incorporated into the 2030 Baseline Scenario to be used in the travel demand model.

3.2 Department of Labor. Bureau of Labor Statistics. Annual Census of Establishments--Summary Tables from 1984-2007. Government of Guam. September 5, 2007.

The data represents total employment and number of establishments by industry division and Standard Industrial Classification (SIC) major group by year. The four-digit SIC code was assigned on the basis of major products or activities as determined by each establishment's percent of total sales or receipts for the previous calendar year. Data ranges from 1984 to 2006 and will be used for the 2030 Baseline Scenario. A summary of establishments by employment size and industry is included in Appendix A-12.

3.3 Department of Labor. Bureau of Labor Statistics. *Current Employment Report--2003-2007.* Government of Guam. Website accessed January 2007. www.guamdol.net/content/section/13/226/.

The report presents information on the number of employees on payroll by ownership and industry and employment by sex. It also shows the number of production workers, wage rates, hours and earnings. Highlights from the report include:

- Total employment increased by 1,590 jobs or 2.7 percent over the comparable period one year ago in September 2006.
- Construction industry jobs accounted for most of the employment gains over the year, and federal government employment increased by 170 jobs.

 A 3 percent increase in the number of private sector workers contributed to an increase in private sector payroll totals of about 7 percent.

The information will be incorporated into the 2030 Baseline Scenario. A summary of employment data is included in Appendix A-13.

3.4 US Census Bureau. Economic Census for Guam. 1992, 1997, 2002.

Every five years, the Economic Census recorded data about Guam's economic activity and structure. It surveyed establishments engaged in construction, manufacturing, wholesale, retail, or selected service activities for 1992, 1997, and 2002. Another economic census was performed in December 2007 and results will be released in 2009. All establishments provide data on total sales, kind of business, legal form of organization, employment, annual and first quarter payroll, and sources of sales. The data will be included in the 2030 Baseline Scenario. As an example, the 2002 Economic Census data is included in Appendix A-14.

3.5 US Census Bureau. Census 2000 for Guam. 2000.

The US Census provided demographic and socioeconomic data for Guam by block group. The data will be used for the 2030 Baseline Scenario.

A census block group is a cluster of census blocks that fall within a census tract. And, census tracts fall within election districts (village). Generally, a census block group contains between 600 and 3,000 people, with an optimum size of 1,500 people. As an example, demographic and socioeconomic census data, by election district (village), has been included in Appendix A-15.

3.6 US Census Bureau. 1950 Census for Guam.

This Census report includes statistics about the basic characteristics of Guam's population, such as age, sex, race, nativity, country of birth, school enrollment, years of school completed, marital status, work in 1949, and industry. Data are shown in detail for previous decennial years when possible.

3.7 Municipal Commissioners. Island-Wide Census. 1952, 1953, 1954, 1955, 1958. Government of Guam.

Collected by Municipal Commissioners, the tables provide information on the population of Guam by citizenship, sex, and district of residence for the years 1952, 1953, 1954, 1955, 1958. The data excludes transients living in the military reservations.

3.8 US Census Bureau. 1960 and 1970 Census for Guam.

This Census report includes 1960 and 1970 population statistics for election districts and places, the population of Guam from the earliest census to 1970, and 1970 population and land area for election districts (urban and rural). Other data includes general characteristics of Guam's population, such as age, sex, race, nativity, country of birth, school enrollment, years of school completed, marital status, work, and industry.

3.9 US Census Bureau. 1960 Housing Census.

The report shows basic statistics that relate to occupancy characteristics, structural characteristics, plumbing facilities, equipment, and financial characteristics. Data are shown for the island as a whole and, separately, for the civil and military portions of the election districts. The 1960 Census was the first census of housing conducted on Guam.

3.10 US Census Bureau. 1980 Census of Population and Housing: Guam.

This Census report includes 1980 statistics on the number of inhabitants, general and detailed demographic and socioeconomic characteristics of the population, and general and detailed housing characteristics. It also includes a copy of the survey.

3.11 US Census Bureau. 1990 Census of Population and Housing: Guam.

This Census report includes 1990 statistics on the number of inhabitants, general and detailed demographic and socioeconomic characteristics of the population, and general and detailed housing characteristics. It also includes a copy of the survey.

3.12 US Census Bureau. International Database. Actual and Projected Mid-year Population Projections for Guam. 2007.

A list of the actual and projected mid-year population for Guam from the year 1950 to the year 2050 is included in this data. A table of data is in Appendix A-16.

3.13 Guam Department of Commerce. Bureau of Statistics and Plans. Historical Data 1970-2000. February 2002.

Tables that present the population and housing statistics for 1970 to 2000 are included in this data. Data is organized by village and area of the island (north, central, south) and shows the numeric change, percent change, and

annual growth rate for 1970-1980, 1980-1990, and 1990-200. A table of historical population and historical data is included in Appendix A-17.

3.14 Guam Department of Commerce. Bureau of Statistics and Plans. Population Density for Selected Census Geography Levels. Government of Guam. December 2004.

This includes data on Guam population density for year 2000 by village, census tract, block group, and block. The data will be included in the 2030 Baseline Scenario. An example of population density by tract is included in Appendix A-18.

3.15 Guam Department of Labor. Bureau of Labor Statistics. Current Labor Force Survey: Unemployment Situation of Guam: 1974-2006. Government of Guam.

The survey includes quarterly data from 1974 to 2006 on the unemployment situation in Guam. Data includes the total civilian, non-institutional population, the total civilian labor force by number employed and unemployed, the percentage of labor force unemployed and the number not in the labor force. The data will be included in the 2030 Baseline Scenario. A table of unemployment data is included in Appendix A-19.

3.16 U.S. Census Bureau, Current Population Survey, Annual Social and Economic Supplements, 2006 and earlier. Households by Size: 1960 to Present. March 27, 2007.

The table displays the total number of households by size for the years 1960 to 2006. It also presents information on the average household size. The data will be included in the 2030 Baseline Scenario. A table of households by size is included in Appendix A-20.

3.17 US Census Bureau. International Database. County Summary: Guam. 2007. http://www.census.gov/ipc/www/idb/country/gqportal.html

The webpage provides information on population growth, including fertility, mortality, and migration for the recent year and 1995, 2005, 2015, and 2025. It also has population pyramids by age and sex and offers access to more detailed data. A summary of demographic indicators is included in Appendix A-21.

3.18 Guam GIS Data

Geographic Information Systems (GIS) data was provided to PB in geodatabase feature class format. The following is a list of datasets accompanied by descriptions of the data and how it may be utilized during the course of the project.

Water Pump Feature Class

This dataset depicts the location of water pumps along the utility network throughout the island of Guam. This dataset will be used to assess the location of existing infrastructure on the island. Relevant attributes contained within the database include:

Name- name of pump Generator- identifies whether the pump has a generator and its status Size-diameter of pump Voltage- pump voltage (Only partial information is provided) District-geographic district pump is located in.

Historical Sites Feature Class

This dataset consists of point features depicting the locations of sites identified as having historical significance to the island of Guam. The dataset may be used to identify areas where transportation impacts should be avoided. These locations may also be considered as important destinations on the island. Relevant attributes contained within the database include:

Name- name of historical site Municipal- municipality where the site is located AKA_Area- alternative name of historical site Lot_Num- parcel lot number Ownership-type of ownership (private, various, federal, private/federal, government of Guam, private/government of Guam) Owner1- Owner of historical site Owner2- Second owner of site

Street Feature Class

This dataset consists of line features depicting the current road network on the island of Guam. The dataset may be used to assess how the population of Guam is currently being served. The network may also be used as the base features in a transportation model. Relevant attributes contained within the database include:

Street Name- name of street Street Type- type of street (Drive, Boulevard, etc.) LFrom- start of address range of segment on left side of street LTo- end of address range of road segment on left side of street RFrom- start of address range of road segment on right side of street RTo- end of address range of road segment on right side of street Village- village where street is located Number of Lanes- number of street lanes (only partial information is provided)

Solid Waste Collection Routes DPW Feature Class

This dataset consists of line features depicting the roads used for collection of solid waste. Relevant attributes contained within the database include:

Street Name- name of street Street Type- type of street Village- village where street is located Pick Up Day- day of pick up service

Flood Feature Class

This dataset depicts the boundary of the 100 year floodplain. The dataset may be used to assess areas with limited development potential and where transportation design must consider potential flooding.

Contours (1993) Feature Class

This dataset depicts the topography of the island. The contour interval is 10 feet. The dataset may be used to determine how the topography of the island will affect the future development of the island. Relevant attributes contained within the database include:

Elevation- Elevation represented by contour line

Zoning Feature Class

This dataset depicts the current zoning on the island. The dataset may be used as an indicator of how development may occur as the population changes on the island. Relevant attributes contained within the database include:

Zone Code- identification code of zoning Zone Description- type of zoning

Municipality Feature Class

This depicts the municipal boundaries on the island. The dataset may be used to determine local governing entities. Relevant attributes contained within the database include:

Tag- name of municipality Square Miles- square miles of municipal boundary

Landmark Feature Class

This dataset depicts prominent features on the island of Guam. The dataset may be used to identify major destinations on the island. Relevant attributes contained within the database include:

Category- landmark classification Description- description or name of landmark Land Use- land use code of landmark Phone- phone number

Geology Feature Class

This dataset depicts the geologic units comprising the island of Guam. This dataset may be used to assist engineering design and development forecasting. Relevant attributes contained within the database include:

GeoAbr- abbreviation of rock unit identifier

Cadastre Feature Class

This dataset depicts the bounding dimensions of parcels on the island of Guam. The dataset may be used to identify land ownership, assess current density, and be utilized as boundaries used to project future growth occurrences. Relevant attributes contained within the database include:

Block- block number of parcel DLMTAG- unique identifier of parcel Lot- lot number of parcel Tract- tract of parcel Unit- unit of parcel Village- village where parcel is located Zone Code- zoning code of parcel Municipality- municipality where parcel is located

Building Footprint Feature Class

This dataset depicts the footprint of existing structures throughout the island of Guam. This dataset may be used to further refine the location of the Guam population associated with census boundaries. The dataset may also be used to determine current density, land use, and potential growth. Relevant attributes contained within the database include:

Address- Address of building Place Name- name of building (only partial information is provided) City- city or village where building is located

3.19 Department of the Interior. US Geological Survey. Guam Quad Maps. 2000.

The USGS maps divide Guam into quadrangles bounded by two lines of latitude and two lines of longitude at a scale of 1 inch equals 2,000 feet. The maps use brown contours to show the shape and elevation of the terrain and name prominent natural and cultural features.

USGS quad maps, along with a reference map of Guam, are included in Appendix A-22.

3.20 Guam Police Department. Planning, Research, and Development. *Crash Statistics: 2001-2007.* Government of Guam, 2007.

The tables provide crash statistics from 2001 to 2007 by classification, type, and driving under the influence. Additional statistics includes monthly crash statistics for 2004 and 2006, as well as driving under the influence by age. A summary of the Guam Police Department crash statistics are included in Appendix A-23.

3.21 Guam Visitors Bureau. Guam Visitors Arrivals 2002-2006.

The table reports the number of visitor arrivals to Guam based on month, country of origin, and mode of arrival (air or sea) for the years 2002 through 2006. The information is collected from Customs Declaration forms. The number of arrivals hit a low in 2003, but has continued to increase since, with peak times appearing around January-March and July-August. The majority of visitors are arriving by air from Japan. A table of Guam visitor arrivals from 2002 to 2006 is included in Appendix A-24.

3.22 Department of Public Works. Office of Highway Safety. Project Listing. January 17, 2008

The table of Office of Highway Safety projects is a list of projects including preliminary engineering dates, construction dates, program codes, funding types, obligated total cost, expended amount, and an unexpended balance. A Department of Public Works list of projects is included in Appendix A-25.

APPENDICES FOR THE DATA REVIEW MEMO

APPENDIX A1

GUAM TERRITORIAL TRANSPORTATION IMPROVEMENT PLAN (TTIP)

FY'2005 - FY'2009 Proposed Projects

FUNDING SOURCES	FY2005	FY2006	FY2007	FY2008	FY2009
Emergency Relief Carry Over Bridge Discretionary Carry Over	\$10,838,726	\$10,649,961	\$10,476,520		
lational Highway System Territories STEA3	\$0	\$376,167	\$376,167	\$0	
IHS Territiories (FY-06+)	\$23,000,748	\$7,750,986	\$2,268,029		
ransportation (management De La Content and De		\$15,280,800	\$30,980,800	\$20,000,000	\$20,000,000
ransportation Improvement Projects Carry Over	\$1,560,000	\$3,120,000	\$3,900,000	\$3,900,000	ψ20,000,000
Section 117 Funds Carry Over		\$491,964	\$491,964	\$0	
merican Samoa Loan Payment			\$2,020,000	\$2,020,000	\$2,020,000
rmy Corp Of Engineers - Obligated Funds	\$6,414,704	\$6,414,704	\$2,841,317	\$2,020,000	\$2,020,000
rmy Corp Of Engineers - Unobligated Funds	\$2,841,317	\$2,841,317	\$2,841,317		
and the second		4510111011	φ <u>2</u> ,041,017		
eprogramming Of Unexpended Balance FY04 to FY06 (Reprog)			\$28,695,707		
Route 15 Reconstruction, Phase I (Design/Build)		(\$6,900,000)	\$0		
Route 27 (Finegayan Road) Reconstruction & Widening		(\$230,000)	\$0		
Route 29 Reconstruction & Widening (Route 1 to Route 15)		(\$249,000)	\$0		
Development of the Guam DPW Standard Plans & Specifications (D)		(\$100,000)	\$0		
Safety Improvement on Primary Roads / Islandwide Pavement Markers		(\$2,750,000)	\$0		
Island-wide Potholes Repair (Primary Roads, Northern Region)		(\$1,000,278)	\$0		
Island-wide Potholes Repair (Primary Roads, Southern Region)		(\$692,000)			
Route 1, Marine Drive (Btn Rte. 10A & Rte. 30) 4 Jane		(\$44,919)	\$0		
Route 1, Marine Drive, Agana Bridge		(\$22,637)	\$0		
Route 1, Upgrade/Rehab (10A to Y-Sengsong Road)		(\$1,054)	\$0		
Const. Highway Hazard Elimination/Barrier Rail Rehabilitation		(\$62,072)	\$0		
Route 1, Marine Drive (from Asan to Rte. 4)		(\$15,290)	\$0		
Marine Drive, Piti to Asan (Sta 4 to 85)		(\$304,187)	\$0		
Route 4 @ Veterans Memorial Park thru Umatac		(\$358,260)	\$0		
Route 1, PE (Rte. 10A to Rte. 30)		(\$84,000)	\$0		
Route 2, (from Agat to Umatac)		(\$9,868)	\$0		
Route 3, Marine Drive (Rte. 1 to Rte. 28)		(\$197,842)	\$0		
Route 4, (Between Salagula Pool & Bear Rock, Inarajan)		10	\$0		
Route 4, South approach to Talofofo Bridge		(\$5,534)	\$0		
RTE 4: Ylig Bridge PE		(\$50,170)	\$0		
Route 16, (From JCT W/RTE 27 to JCT W/RTES 8 & 10)		(\$52,685)	\$0		
Route 16, Phase IB, ROW ACQ			\$0		
Route 16, Phase IB		(\$599,080)	\$0		
Reconstruction of Route 16, Phase 1A		(\$318,020)	\$0		
Route 16, Phase 1A		(\$33,366)	\$0		
Route 26, (From Intersections of Rte. 1 to Rte. 5)		(\$2,546,160)	\$0		
Route 27, Harmon Loop Road Reconstruction & Widening		(\$16,043) (\$702,586)	\$0 \$0		

GUAM TERRITORIAL TRANSPORTATION IMPROVEMENT PLAN (TTIP)

FY'2005 - FY'2009 Proposed Projects

FUNDING SOURCES	FY2005	FY2006	FY2007	FY2008	FY2009
Route 6, (From Station 00+38 to 66+00)		(\$190,172		and the second se	11200.
PE for Traffic Management		(\$16		and the second se	
Modernization Traffic Signal System		(\$137,792			
Highway Planning, Technology & Training Activities		(\$11,431			
PE for Branch Inspection		(\$20			
Traffic Signal System Emergency Power		(\$7,689			
Route 1(Rte. 29 to Rte. 9) Santa Lourdes Church to AAFB Main Gate		(\$51,782)			
Route 1, Reconstruction & Widening, Phase I (Reg. 10A to Reg. 16)		(\$444,059)			
Route 1, Marine Drive, Reconstruction & Drainage Improvements		(\$15,043)			
Route 2, Reconstruction & Widening, Phase I & II		 (\$344,000) 			-
Route 3, Rehabilitation & Widening (Rte. 28 to Rte. 9)		(\$7,045)			
Route 4, South Approach to Talofofo Bridge		(\$68,120)	T -		
Route 4, Rehabilitation & Widening (Rte. 1 to Rte. 10) CON		(\$4,898,435)			
Route 15, Reconstruction & Widening (Rte. 26 to Rte. 29) Ph 1 & II		The second se			
Route 26, Phase I (Rte. 26 to Rte. 25) Traffic Installation		(\$417,323)			
Route 27, Raised Median Modification/Signal System Installation		(\$3,343)			
Construction for Traffic Management Center & Signal Modernization		(\$220,315)			
Develop Guam Rights-of-Way (ROW)		(\$268,216)			
Adopt-A-Traffic Signal Program, Upgrade & New Installations-Design, FY04		(\$60,000)			1000
Adopt-A-Traffic Signal Program, Upgrade & New Installations-Design, FY04		(\$245,232)			
FLH Technical Assistance		(\$84,297)			
Guam International Airport, Runway 6R/24L (Phase I)		(\$9,005)			
Guam International Airport, Runway 6R/24L (Phase II)		\$ (\$872,263)	and the second se		
Permanent Restoration of Traffic Signs, Islandwide (FAHS)		(\$965,853)	T *		
Route 4, Permanent Restoration at As-Alonso Area		(\$460,000)			
Guam 2010 Highway Master Plan Update		(\$522,000)	T. T		
Highway Planning, Technology Transfer & Training Activities		(\$20,583)	\$0		
Highway Planning & Training Activities		(\$225,205)	\$0		
Highway Hazard Elimination Project (Category I)		(\$111,329)	\$0		
Islandwide Bridge Inspections	-	(\$15,926)	\$0		
SUBTOTAL OF REPROGRAMMED PROJECTS		(\$350,000)	\$0		
		(\$28,695,707)			
GRAND TOTAL OF FUNDING SOURCES	\$44,655,496	\$46,925,900	\$92,891,820	\$27,920,000	\$22,020,00

GUAM TERRITORIAL TR FY'2005	. FV	72000 P	TOPOT	ad Brot	EMENT	PLAN (TTIP)			
		2009 P	ropos	ea Proje	ects					
PROJECT DESCRIPTIONS	PE	FY2005		Y2006	FY2007			r2008	FY	2009
	PE	CONST	PE	CONST	PE	CONST	PE	CONST	PE	CON
		ACC STOR			Martin Star				The second	
Emergency Relief (ER) Projects									A second	
bute 1, Phase I (10A to 16) Chainlink Fences, Streetlights, Landscaping and Traffic Signs bute 1, Citibank East Agana Shoreline Embankment Restoration				\$1,679		\$78,361				
oute 2, (Agat to Umatac) Southern Trail Overlook Landslide Restoration				.00		\$108,768				
bute 4, As-Misa Bridge (Inarajan North Leo), Wingwall Abutment & Approach Postantian				\$1,292		\$168,417		+		-
Jule 4, I maga Bridge emporary Restoration		+		.00		\$200,000				
oute 4, Agfayan Bridge (Permanent Repair)				.00 • \$47,013		\$11,300				
bute 4, Ajayan Bridge Embankment Restoration				.00		\$492,987				
ute 7, Embankment Restoration ute 11, (GPA Cabras, Piti) Roadway Restoration, T-Pongsona (FY 2004)				.00		\$121,364 \$5,500		+		
oute 17, Calvo Area Embankment Restoration, T-Pongsona (FY 2004)				\$224,626		\$24,958		+ 		
pute 27. Harmon Loop Road Traffic Signal Repair				.00		\$36,000				
adway Debris Removal and Clean-up Islandwide on FAHS TT Ting Ting		+		.00		\$37,375				
terways (Bridges, Culverts & Damage Chappels) Debris Removal, Classics Devices of Finite State		<u> </u>		.00		\$25,000				
Sion, 11-1 mg 1 mg				.00		\$33,600				1.000
nd-wide, Traffic Signs Replacement, TT-Ting Ting	_			\$22,173						
te 17, (Cross Island Road) Repair Shoulder Embankment Silde/Erosion and Guardralis				.00		\$9,627 \$23,700	-			
te 7 (Naval Hospital Road) Repair Shoulder, Embankment Side/Erosion & Guardrails nd-wide, Traffic Signal Repair, TT-Ting Ting				\$57,915		\$5,313				
nd-wide, Drainage System Clean-up (Removal of Sand Deposit and Debrie Olegowa)				.00		\$24,200				
ule oA, Multav Road Scour Permanent Restoration				.00		\$219,000				-
andwide, Traffic Signal System Emergency Repair (Traffic Management)		+ +		\$9,788		\$276,032				
Ind-Wide, FAHS ~ Debris Removal / Clean up				\$929,969 \$360,298		\$64,031				
and-wide, Payement Markers & Markings Installation				\$696,869		\$198,202				
andwide, Ponding Basins, Chain Link Fence Restoration and Route 16, Over-pass Chain Link fence andwide, Damaged Guardrail System Restoration				\$46,456		\$239,903 \$138,544				
HS, Traffic Control Activity (National Guards)				.00		\$115,268				
and-wide, Drainage System Clean-up				\$471,538		\$0				
and-wide, Temporary Repair of Traffic Signs				.00		\$47,000				
nd-wide, Ponding Basins Debris Clean-up & Fencing				.00		\$27,500				
te 11, Temporary Shoulders & Embankment Restoration				.00		\$77,000				
ite 4, Temporary Road Restoration at As-Alonso Area				.00		\$3,100				
or & Minor Arterial & Major Collector Roads Debris Removal/Clean-up, Island-wide (TC) ges Debris Removal/Clean-up, Island-wide (TC)				\$115,166		\$16,600 \$168,724				
nage System Clean-up Island-wide (TC)				\$46,468		\$125,747				
noval of Signs/Frecting Temporary Warning Signa Jaland wide (TO)				\$32,111		\$143,132				
Re 4. Lemporary Road Restoration at As-Alonce Area (TC)				\$7,821		\$38,928			1	
(e 11, Temporary Shoulders & Embankment Restoration (TC)				\$3,315		\$23,046				
ayan Bridge Temporary Restoration (Emergency Repair) (TC)				\$4,810 \$843		\$15,106				
aga Bridge Temporary Restoration (Wingwall collapsed) (TC) ta Rita Bridge (Bordallo) Road Approach Temporary Restoration (TC)				\$255		\$28,858 \$10,200				
Ung basins Debris Clean-up & Fencing (Major/Minor Poade) Island wide (TO)				\$1,731		\$2,339				
20 Bridge Road Approach Temporary Restoration (TC)				\$1,763		\$1				
te 4 Emergency Roadway Embankment Restoration (Various Locations) (TC)				\$706		\$76,294				
te 1 East Agana Emergency Roadway Embankment Restoration (TC)				\$10,579 \$1,135		\$589,421				San San
nanent Restoration of Traffic Signs, Island-wide (TC)				\$359,362		\$1				
te 4, Permanent Restoration at As-Alonso Area, (TC) yan Bridge Temporary Restoration (Permanent Repair) (TC)				\$145,495		\$100,638 \$376,505				
ga Bridge Permanent Restoration (TC)				\$73,459		\$106,541				
a Rita Bridge Permanent Restoration (TC)				.00		\$55,000				
e 4, Eathquake Repair (As-Alonso Area) 10/13/01 Earthquake				.00		\$24,500				
e 1 (Piti, Near Fish Eve) Road Embankment Restoration, Typhoon Research				.00		\$60,734				
e 11, (GPA Cabras, Piti) Roadway Restoration T-Ponosona (EV 2004)				.00		\$58,950				-
4 (Pago Bay Area) Pavement Damage & Failure of existing base/subbase due to feeding				\$106,476		\$46,871				
11 Commercial Port, Cabras Island Shoreline Protection				0100,410	\$195,000	\$13,124 \$1,101,317				and a

TC-typhoon Chata'an; July 2002

GUAM TERRITORIAL TE		0000				- Child (
FY'200	5 - FY	2009 P	ropos	ed Proj	ects					57
PROJECT DESCRIPTIONS	FY2005		FY2006		FY2007		EV	2008	EV.	2000
	PE	CONST	PE	CONST	PE	CONST	PE	CONST	PE	2009 CONS
Route 1 Marine Drive, Adelup Shoreline Protection								001101		CONC
TOTAL Emergency Relief Projects	-				\$150,000	\$1,545,000				
	\$0	\$0	\$0	\$3,781,112	\$345,000	\$7,539,626	\$0	\$0	\$0	
Highway Hazard Elimination (HE) Projects										
Highway Hazard Elimination Route 4 (Jeff's Pirate Cove) (possible under village streete)& Route 14										
Resurracing Island-wide Hazard Elimination for Pedestrian Safety Fence, Route 1, IEK High School	\$150,000	400.000				\$897,000				
Safety Improvement Project - Primary Roads Pavement Markes and Markings Replacement		\$23,000		\$13,786						
Standwide - Phase School Zone Signs						\$1,600,000				
Village Road safety signs (NHTSA funded mat'ls - FHWA funded const.) for newly paved local roads;	1					\$250,000				
check of review all newly paved roads: regulatory & warning signs				\$0						
Route 1, JFK Pedestrian Underpass/Overpass Route 15, Santa Rosa Yigo, Road Hardening							\$200,000			60.000
Islandwide Seashore Protection					\$150,000	\$1,500,000	\$200,000			\$2,000
Island-wide, Highway Hazard Elimination Program									\$2,000,000	
TOTAL Highway Hazard Elimination Projects	\$150,000	\$23,000	\$0				Constantine of			
	\$150,000	\$23,000	50	\$13,786	\$150,000	\$4,247,000	\$200,000	\$0	\$2,000,000	\$2,00
Reconstruction and Improvement Projects - Short Range (SR)										
Could b & Portion of Route 12, Reconstruction & Widening (Design)	++									
Route 8/Route 10 (Radio Barrigada Road) Traffic Signal Installation	++				\$300,000					
Route 10/Sabana Magas Road & Rte. 8 N. Blang Streets Intersections					\$120,000 \$110,000					
Route 26 (Macheche Road) Reconstruction & Widening (Rte. 1 to Rte. 15) Route 27 (Finegayan Road) Reconstruction (Route 1 to Route 16)			\$51,391		\$141,448					
Route 10A (Airport Road) Portion Rehabilitation (D)					\$230,000					
Route 14B (Ipao Road) Reconstruction & Widening (D)					\$300,000					
Route 27A (Fatima Road) Reconstruction & Widening				0000 747	\$300,000					
ADA Compliance Project, Route 1 (Rte. 30 to Rte. 16)				\$989,757		\$1,443,243				
ADA Compliance Project, Route 1, Rte. 30, 30A & 16 (Rte. 1 to Rte. 10A)					\$146,000	\$400,000				
Adopt-A-Traffic Signal Program, Upgrade & New Installations (D) Traffic Signal Opticom Emitter System (Equipment)					\$54,768					
Completion of the Traffic Management Center Building for Engineering					10.11.00	\$300,000				
Traffic Signal System, Loop Detector Replacement & Pavement Spot Repair						\$764,400				
ramic Signal System Upgrade, Island-wide						\$140,000				
Safety Improvement Project on Primary Roads / Islandwide Pavement Markers						\$360,000				
Igua/Bile Bridge Replacement & Road Approaches Improvements						\$2,750,000				
Route 1/Wusstig Road Intersection Improvements & New Traffic Signalization Route 3, Reconstruction & Widening (Design Build)						\$800,000 \$820,000				
Route 4 Permanent Restoration at As-Alonzo Area						\$6,073,441				
Route 4, Yona to Ylig Bridge-Reconstruction & Widening of a 4 Lane						\$522,000				
Could 4, Rehabilitation & Widening (Rte 1 to McDonalds) Decign/Build										
Route 5. Reconstruction & Widening (Rte 24 to Rte 17) Design			\$149,500		\$149,500	\$1,250,000				
Route 17, Reconstruction & Widening (Res 5 to Res 4) Ph. 1.8.11 (Decian)			\$231,259		\$120,000					
(oute 25, (Alageta Road) Rte, 26 to Bello Road (ROW) Design			\$85,034		\$199,393					
Installation of Traffic Signal at Route 26/Route 25 Intersection			400,004		\$169,240	\$441,250				
Suam 2020 Highway Master Plan Modification			\$379,417			\$441,200				
TOTAL SR Projects	\$0	\$0	\$896,601	\$989,757	\$2,340,348	\$16,064,334	\$0	\$0	\$0	
Safe Streets					\$3,000.000	\$29,000,000	1.0000000000000000000000000000000000000	I Constant		and the second second
bute 1 - U Turn Improvements										
oute 2 - Agat Village										
oute 2A - Sta Rita										
oute 3A - Ritidian Point										

GUAM TERRITORI	AL TRANS	PORTA	TION	IMPROV	EMENT	PLAN	(TTIP)			
F	72005 - FY	2009 1	Propos	ed Proj	octs					
PROJECT DESCRIPTIONS		Y2005	F	Y2006	FY	2007	EV	2008	T	(0000
	PE	CONST	PE	CONST	PE	CONST	PE	CONST	PE	2009 CON
Route 4 - Umatac to Rte 1 Hagatna									1	001
Route 4A - Talofofo/Yona										
Route 6 - Rte 1 Adelup to Rte 1 Piti Route 7 - Rte 6 to Rte 7A					1		+		-	
Route 7A - O'Brien Drive, Hagatna					1	+				
Route 8 - Rte 16 to Rte 1 Hagatna									1	
Route 9 - Rte 3 to Rte 1									1	
Route 10 - Rte 16 to Rte 4										
Route 11 - Cabras Island Route 12 - Rte 2 to Rte 5 Sta Rita			1							
Route 14 - Rte 1 to Hilton Intersection										
Route 15 - AAFB to Rte 4					1. Same					
Route 16 - Rte 1 Dededo to Rte 10 Barrigada									1	1
Route 26 - Rte 1 Dededo to Rte 15			1							
Route 27 Finegayan Rd & Harmon Loop Rd Route 27A Santa Monica Ave.										
Route 27 A Santa Monica Ave. Route 28 - Ysengsong Rd, Dededo										
Route 29 - Gayinero Rd Yigo										
Route 30 - Gov Camacho Rd										
Route 30A - Farenholt Ave Tamuning										
Route 33 - Mongmong-Toto-Maite Rd										
Route 34 - Two Lovers Point Rd Route 12A - Pale Ferdinand, Sta Rita										
Route 14B - Ypao Road										
tous 145 - 1 pao Road										
					and the second		1. 1. 1. 1.	1. Contraction	Sales State	
Special Programs and Projects										
Iyan Parkway (Feasability/EIA/Archaeoligical/Traffic Study)					\$500,000					
lighway Planning Technology Transfer and Training Activities	\$401,474		\$300,000		\$300,000		\$300,000			
IDAR Survey	\$250,000		\$192,000		\$192,000		\$300,000		\$300,000	
re ROW Survey (ROW from edge to edge)					\$50,000					
ngineering Personnel for Federal-Aid Highway Program			\$750,000		\$750,000		\$750,000			
ecruitment of Engineering Personnel (20) for Federal Highway Projects									\$750,000	
egal Counsel					\$750,000		\$750,000		\$750,000	
ights Of Way Manual LEGAC & SURVEY					\$100,000 400,000 \$200,000	2	\$100,000		\$100,000	
ogram Management Consultants									400,000	
DW Land Agent Contract					\$4,400,000		\$4,400,000		\$4,400,000	
H - Technical Assistance					\$50,000					
ofessional Engineering Technical Consultants			\$40,995		\$150,000	-	\$150,000		\$150,000	_
ofessional Services - Archives (Scanning)					\$150,000		\$150,000		\$150,000	-
TOTAL Special Programs Projects	\$651,474	60	\$1,282,995		\$50,000		\$50,000		\$50,000	
		04	41,202,335	\$0	\$7,642,000	\$0	\$6,650,000	\$0	\$6,650,000	New Street
Miscelleneous Transportation Improvement Projects (TI)										
nstruct Route 3A Extension (New Roadway)						40.00				
						\$3,630,000		\$1,650,000	and the second s	\$1,320

GUAM TERRITORIAL 1 FY'20	05 - F)	"2009 P	ronos	od Prol	oote		/			
		10001	Tohos	eu rroj	BCIS					
PROJECT DESCRIPTIONS		FY2005	FY2006		FY2007		FY2008		EV	(0000
	PE	CONST	PE	CONST	PE	CONST	PE	CONST	PE	CONST
Piti, GU Construct Cabras Island Intermodal Facility Reconstruction Hagatna River Bridge		1								CONOT
TOTAL TI Projects						\$2,220,000 \$1,650,000		\$1,500,000 \$750,000		\$1,200,00
TOTAL TETOTAL	Station Station	\$0	Contra Statistica	\$0	\$7,50		\$3,9	00,000	\$3.12	\$600,00
Army Corps OF Engineers Projects	「「「「「「「「「」」」									
Route 4, Talofofo Shoreline Protection Route 4, Inarajan Shoreline Protection				\$1,671,000						
Route 11, Commercial Port, Piti Power Plant Shoreline Protection					\$235,000	\$1,335,000				
TOTAL ACOE Projects	\$0	\$0	\$0	\$1,517,387						
	Service and		30	\$3,188,387	\$235,000	\$1,335,000	\$0	\$0	\$0	\$
Highway Improvement Projects - Long Range (Permanent Restoration - LR) D/B					240.000 000					
OUTE 2					\$10,000,000			\$14,700,000		\$8,250,00
OUTE 2A										
OUTE 3	_									
OUTE 4										
OUTE 4A										
OUTE 5								-		
OUTE 6										
OUTE 6A										
OUTE 7 OUTE 7A										
OUTE 8										
OUTE 8A										
OUTE 9										
OUTE 10										
OUTE 10A										
OUTE 11										
OUTE 12										
OUTE 12A	-									
OUTE 14 OUTE 14A										
DUTE 14B										
DUTE 15										
DUTE 16	_									
DUTE 17	_									
DUTE 18										
DUTE 19										
DUTE 24										
DUTE 24A									A second second	
DUTE 25										
DUTE 27										
DUTE 27A					-					
DUTE 28										
DUTE 29										
DUTE 30										
DUTE 30A										
UTE 33										
UTE 34										
		and and the second as	and the second		and and a state of the	The second second second	all and the second	Personal States and States of		Daniel Contraction of
Reconstruction and Upgrading Of Bridges and Waterways at Various Locations										
ina de la constante de la const					\$3,493,512	\$2	2,470,000			

GUAM TERRITORIAL TRANSPORTATION IMPROVEMENT PLAN (TTIP) FY'2005 - FY'2009 Proposed Projects										
	2003 - FT	2009 P	ropos	ea Proje	CIS					
PROJECT DESCRIPTIONS		Y2005	FY2006		FY2007		FY2008		EV	2009
	PE	CONST	PE	CONST	PE	CONST	PE	CONST	PE	CONST
Agana (Santo Papa)							1			
Agat-umatac Rd Box Culvert, Rte 2										
Aguada										
Vjayan										
Vjayan Bridge, Rte 4										
palacho										
Isan Bridge (1st Inland)										
Asan Bridge (2nd Inland)									e	
san Bridge (Marine Corps Drive)										
is-Linguit										
ss-Lingult, Cross Drain 2-36"dia. RCP, Rte 4										
s-Linguit, Cross Drain 3-36"dia. RCP, Rte 4										
s-Maile Point, near bus shelter, Rte 4										
Itatano										
ox Culvert, Next to Ace Hardware Tamuning										
andaso Bridge, Espinosa Ave.										
haot										
ommercial Port Bridge										
ross Drain, Near Tendan Bisino, Rte 4										
onte										
eus										
narajan (North Leg)										
narajan (South Leg)										
ada Cross Drain, 3-36" dia. RCP, Rte 4										
ined Swale, Route 4, Espinosa Ave.										
Ygog										
anell Cuivert, Rte 4										
lasso Bridge #2 - Rte 1										
linondo							-			
amo										
ext to Old Ty's Mini Mart, Rte 4			-							
ago										
apatguan Culvert, Rte 4										
auliloc										
plaris Point, Box Culvert, Rte 1										
anta Rita (Bordallo)										
asa Bridge, Rte 1										
umay										
aleyfac										1
alofofo										
naga										
ogcha										(
iguan										
nggan Cross Drain, 3-36" dia. RCP, Rte 4										
nggan Cross Drain, Rte 4										
natac										
		a trip a straight						A PARA	A State State	
TAL ESTIMATED EXPENDITURES / OBLIGATIONS	\$8	26,682	\$10,1	152,638	\$92.89	1,820	\$27,92	0.000		- 10
RAND TOTAL OF FUNDING SOURCES	\$44	655,496		25,900						20,000
			440,3	20,000	\$92,89	1,020	\$27,92	0,000	\$22,02	20,000
TAL AMOUNT TO BE RE-ALLOCATED FOR FOLLOWING YEAR		828,813				1		and the second second second		

APPENDIX A2

THE DEPARTMENT OF ADMINISTRATION-DIVISION OF PUBLIC TRANSPORTATION SERVICES Territory of Guam

Long-Range Statewide Transportation Improvement Program Program of Projects

Available Funds means funds derived from an existing source dedicated to or historically used for transportation purposes. For Federal funds, authorized and /or appropriated funds and the extrapolation of formula and discretionary funds at historic rates of increase are considered "available." A similar approach may be used for State and local funds that are dedicated to or historically used for transportation purposes.

Agency	Description	Federa	al	State	Total
Department of Administrati on-Division of Public Transportatio n Services	Section 5309-Bus and Bus Related Facilities for fy 2006-2008 (Capital Investment Grants for the Proposed Procurement of ADA Accessible Transit Buses - 4 medium size)	(83% federal share with ADA accessible equipment) Available funds for fy 2006-2008 \$297,000.00	\$297,000.00	(17% local share with ADA accessible equipment) \$60,831.33	\$357,831.33
"	Section 5310- Formula Program for Elderly Persons and Persons with Disabilities for FY 2008	Available funds for fy 2008 \$170,961.00 minus 15% for state administration (\$25,644.15 match free) equals \$145,316.85	\$145,316.85	Consolidated grant match free for operating assistance of paratransit	\$145,316.85
"	Section 5311 & 5340-Other Than Urbanized Area Formula Program for FY 2008	Available funds for fy 2008 \$596,775.00 minus 15% for state administration (\$89,516.25 match free) equals \$507,258.75	\$507,258.75	Consolidated grant match free for operating assistance of paratransit	\$507,258.75
<i>"</i>	Section 5311(b)(3) Rural Transit Assistance Program (RTAP) for FY 2008	Available funds for fy 2008 RTAP funding is included in Section 5311 (15% match free state Administration)	-	Consolidated grant match free for operating assistance of paratransit RTAP funding is included in Section 5311	-
<i>u</i>	Section 5316- Job Access and Reverse Commute for FY 2008	(80% federal share) Available funds fy 2008 \$93,984.00 minus 10% for state	\$84,585.60	Consolidated grant match free for operating assistance of paratransit	\$84,585.60

	(Proposed	administration			
	voucher	(\$9,398.40 match			
	program)	free) equals			
	1 0 /	\$84,585.60			
"	Section 5317-	(80% federal share)	\$22,168.80	Consolidated grant	\$22,168.80
	New Freedom	Available funds for		match free for	
	Program	fy 2008		operating assistance	
		\$24,632.00		of paratransit	
		minus 10% for state administration			
		(\$2,463.20 match			
		free) equals			
		\$22,168.80			
"	Section 5309-Bus	(83% federal share	\$3,450,000.00	(17% local share with	\$4,156,627.00
	and Bus Related	with ADA		ADA accessible	
	Facilities	accessible		equipment)	
	Proposed	equipment)		\$706,627.00	
	Procurement of	10 full size ADA			
	6 medium size	accessible transit			
	and 10 full size transit vehicles	buses with two-			
	(Guam Public	way radio system and fare boxes, etc.			
	Transit System	for \$300,000.00 each			
	Transit Fleet	equals			
	Replacement)	\$3,000,000.00			
	1 /	6 medium size			
		ADA accessible			
		transit buses for			
		\$75,000.00 each			
		equals \$450,000.00			
"	Section 5309-Bus	Total \$3,450,000.00 (80% federal share)	\$0.00	(20 % local share)	
	and Bus Related	Negotiate with	φ0.00	\$0.00	\$0.00
	Facilities	Guam Parks and			·
	(Phase One-	Recreation for the			
	MOU with	development of the			
	Guam Parks	adjacent land next			
	and Recreation	to the existing			
	for the proposed	DOA-DPTS			
	development of the adjacent	Hagatna Transit Center			
	land next to the	Center			
	existing DOA-				
	DPTS Hagatna				
	Transit Center				
	as DOA-DPTS				
	Administration				
	and Transit				
	Vehicle Parking Facilities)				
"	Section 5309-Bus	(80% federal share)	\$45,000.00	(20 % local share)	\$56,250.00
	and Bus Related	Total cost of project	<i>410,000.00</i>	\$11,250.00	<i>400,20000</i>
	Facilities	is \$450,000.00			
	(Phase Two-	multiply by 10%			
	preliminary	equals			
	planning and	\$45,000.00 for			
	environmental	preliminary			

	(1' (1	1 • 1			
	studies for the	planning and			
	proposed DOA-	environmental			
	DPTS	studies			
	Administration				
	and Transit				
	Vehicle Parking				
	Facilities)				
"	Section 5309-Bus	(80% federal share)	\$67,500.00	(20 % local share)	\$77,625.00
	and Bus Related	Total cost of project		\$10,125.00	
	Facilities	is \$450,000.00			
	(Phase three-	multiply by 15%			
	design and	equals			
	engineering for	\$67,500.00 for			
	proposed DOA-	design and			
	DPTS	0			
	-	engineering works			
	Administration				
	and Transit				
	Vehicle Parking				
	Facilities)				
"	Section 5309-Bus	(80% federal share)	\$450,000.00	(20 % local share)	\$562,500.00
	and Bus Related	Total cost of project		\$112,500.00	
	Facilities	is \$450,000.00 for a			
	(Phase four-	60'x 60' (concrete			
	construction for	structure)			
	the proposed	administration			
	DOA-DPTS	office with ac			
	Administration	paved employee			
	and Transit	parking and transit			
	Vehicle Parking	bus parking areas			
	Facilities)				
"	Section 5309-Bus	(80% federal share)	\$0.00	(20 % local share)	
	and Bus Related	Negotiate with	φ0.00	\$0.00	\$0.00
	Facilities	Guam Parks and		<i>Q</i> OOOO	<i>4000</i>
	(Phase One-	Recreation to			
	MOU with	upgrade the			
	Guam Parks				
	and Recreation	existing DOA-			
		DPTS Hagatna			
	for the proposed	Transit Center			
	upgrade of the				
	existing DOA-				
	DPTS Hagatna				
"	Transit Center)				
.,	Section 5309-Bus	(80% federal share)	\$20,500.00	(20 % local share)	\$25,625.00
	and Bus Related	\$205,000.00		\$5,125.00	
	Facilities	multiply by 10%			
	(Phase Two-	equals \$20,500.00			
	preliminary	for preliminary			
	planning and	planning and			
	environmental	environmental			
	studies for the	studies			
	proposed				
	upgrade of				
	DOA-DPTS				
	Hagatna Transit				
	Center)				
"	Section 5309-Bus	(80% federal share)	\$30,750.00	(20 % local share)	\$35,670.00
	and Bus Related	\$205,000.00		\$4,920.00	
		+===,500,00		, ,	

	Engilition	multiply by 1E0/			
	Facilities (Phase three-	multiply by 15%			
	(Phase three- design and	equals \$30,750.00 for			
	engineering for	design and			
	the proposed	engineering works			
	upgrade of				
	DOA-DPTS				
	Hagatna Transit				
"	Center)	(900) (adams) also a)	¢205 000 00	(20.% lagel share)	¢2E6 2E0 00
	Section 5309-Bus	(80% federal share)	\$205,000.00	(20 % local share)	\$256,250.00
	and Bus Related	20'x20' (concrete		\$51,250.00	
	Facilities	structure)			
	(Phase four-	Restroom and 50' x			
	construction for	20' a (concrete			
	the proposed	structure) waiting			
	upgrade of	shed with lighted			
	DOA-DPTS	and fenced bus			
	Hagatna Transit	parking area			
	Center)	\$205,000.00	¢04 670 00	(00.0/11.1.)	¢110 040 00
	Section 5309-Bus	(80% federal share)	\$94,679.00	(20 % local share)	\$118,349.00
	and Bus Related	100' x100' land @		\$23,670.00	
	Facilities	\$94,679.00			
	(Phase One-				
	acquisition of				
	land in Dededo				
	for the proposed				
	Micronesia Mall				
"	Transit Center)	(000/ (.11.1	¢22 E00.00	(00.0/11.1	¢40.62E.00
	Section 5309-Bus	(80% federal share)	\$32,500.00	(20 % local share)	\$40,625.00
	and Bus Related Facilities	\$325,000.00		\$8,125.00	
	(Phase Two-	multiply by 10% equals \$32,500.00			
	preliminary	for preliminary			
	planning and	planning and			
	environmental	environmental			
	studies in	studies			
	Dededo for the	studies			
	proposed				
	Micronesia Mall				
	Transit Center)				
"	Section 5309-Bus	(80% federal share)	\$48,750.00	(20 % local share)	\$60,938.00
	and Bus Related	\$325,000.00	<i>q</i> _ 5/1 0 5100	\$12,188.00	+ - 5,5 - 5 - 100
	Facilities	multiply by 15%		,	
	(Phase three-	equals			
	design and	\$48,750.00 for			
	engineering for	design and			
	the proposed	engineering works			
	Micronesia Mall	0 0 0			
	Transit Center)				
"	Section 5309-Bus	(80% federal share)	\$325,000.00	(20 % local share)	\$406,250.00
	and Bus Related	20'x20' (concrete		\$81,250.00	
	Facilities	structure)			
	(Phase four-	Restroom and 50' x			
	construction for	20' waiting shed			
	the proposed	with lighted,			
	Micronesia Mall	fenced, and ac			
	Transit Center)	paved bus parking			
	interest center)	Farea cas parang			

		area \$325,000.00			
"	Section 5309-Bus and Bus Related Facilities (Phase One acquisition of land in Agat for the proposed Agat Transfer Station)	(80% federal share) 100' x100' land @ \$61,542.00	\$61,542.00	(20 % local share) \$15,386.00	\$76,928.00
<i>"</i>	Section 5309-Bus and Bus Related Facilities (Phase one- preliminary planning and environmental studies For the proposed Agat Transfer Station)	(80% federal share) \$325,000.00 multiply by 10% equals \$32,500.00 for preliminary planning and environmental studies	\$32,500.00	(20 % local share) \$8,125.00	\$40,625.00
u u	Section 5309-Bus and Bus Related Facilities (Phase three- design and engineering for the proposed Agat Transfer Station)	(80% federal share) \$325,000.00 multiply by 15% equals \$48,750.00 for design and engineering works	\$48,750.00	(20 % local share) \$12,188.00	\$60,938.00
<i>"</i>	Section 5309-Bus and Bus Related Facilities (Phase four- construction for the proposed Agat Transfer Station	(80% federal share) 20'x20' (concrete structure) Restroom and 50' x 20' (concrete structure) waiting shed with lighted, fenced, and ac paved bus parking area \$325,000.00	\$325,000.00	(20 % local share) \$81,250.00	\$406,250.00
"	Section 5309-Bus and Bus Related Facilities Proposed Design built of prefabricated aluminum transit shelters with flexi-glass sidings (12L x 6W x 8H)	(80% federal share) Redline 1: 1. Hagatna Library 2. Across Public Health 3. UOG English Building Parking Lot 4. Guam Communi ty College	\$180,000.00	(20 % local share) \$45,000.00	\$225,000.00

N	Proposed (Extension of orthern fixed (5. Stoplight at LP Untalan Middle School Total of 5 shelters at \$15,000 equals \$75,000.00 Blueline 2: Governor' s Complex United Seaman's Club Port Beach Entrance Port Beach Entrance Polaris Point Entrance Naval Station Pass & ID Building Camp Covington Total of 6 shelters at \$15,000 equals \$90,000.00 Express Line: Crosswalk at JFK High School Total of 1 shelter at \$15,000 equals (80% federal share) Greyline 4: 	\$105,000.00	(20 % local share) \$26,250.00	\$131,250.00
I N ro au I Yiş	Extension of	. ,	\$105,000.00		\$131,250.00

		Total of 7 shelters at \$15,000 equals \$105,000.00			
"	Proposed improvement of all DOA-DPTS Transit routes for the projected increase in transit ridership	-	-	-	-
" Proposed - installation of transit bus stop signs at all transit stops			-	-	-
Total			<u>\$6,578,801.00</u>	\$1,276,060.33	\$7,854,861.33
State Administration		\$127,022.00		\$127,022.00	
Grand Total			\$6,705,823.00	\$1,276,060.33	\$7,981,883.33

The funding amount for future years will depend upon Federal and State appropriations.

THE DEPARTMENT OF ADMINISTRATION-DIVISION OF PUBLIC TRANSPORTATION SERVICES Territory of Guam

Long-Range Statewide Transportation Improvement Program Summary of the Estimated FY 2007 thru FY 2009 Federal Funds

Transit Programs	Fiscal Year 2007	Estimated Fiscal Year 2008	Estimated Fiscal Year 2009
Section 5309-New Starts (Capital Investment Grants)	-	\$297,000.00	-
Section 5310-Formula Program for Elderly Persons and Persons with Disabilities	\$167,228.00	\$170,961.00	\$173,448.00
Section 5311-Other Than Urbanized Area Formula Program	\$539,792.00	\$596,775.00	\$630,146.00
Section 5311(b) (3) Rural Transit Assistance Program (RTAP)	\$16,874.00	RTAP funding is included in Section 5311	RTAP funding is included in Section 5311
Section 5316- Job Access and Reverse Commute	\$86,742.00	\$93,984.00	\$99,105.00
Section 5317- New Freedom Program	\$22,802.00	\$24,632.00	\$26,039.00
Total Continuing Federal Grant Program	\$833,438.00	\$886,352.00	\$928,738.00
Grand Total	\$833,438.00	\$1,183,352.00 Total including Section 5309	\$928,738.00

The funding amount for future years will depend upon Federal and State appropriations.

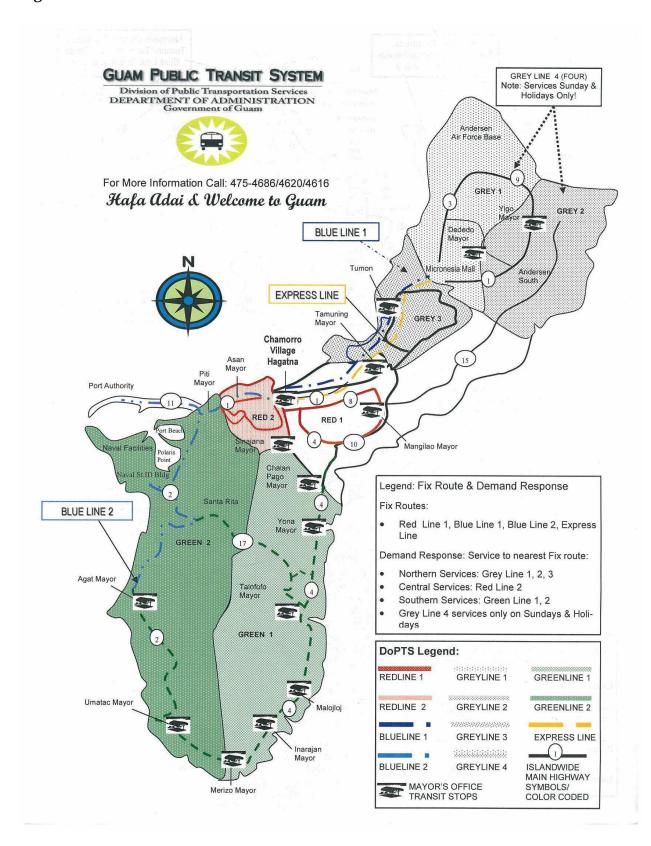


Figure 1.1: Transit Services on Guam

APPENDIX A3

THE DEPARTMENT OF ADMINISTRATION-DIVISION OF PUBLIC TRANSPORTATION SERVICES Territory of Guam

Short-Range Statewide Transportation Improvement Program FY 2008-2009 Program of Projects

Available funds means funds derived from an existing source dedicated to or historically used for transportation purposes. For Federal funds, authorized and /or appropriated funds and the extrapolation of formula and discretionary funds at historic rates of increase are considered "available." A similar approach may be used for State and local funds that are dedicated to or historically used for transportation purposes.

Agency Department of Administrati	Description Section 5309-New Starts for fy 2006-	Federal (83% federal share with	\$297,000.00	State	Total
of	Starts for fy 2006-	(83% federal share with	\$297 000 00	(170/4 - 1 - 1)	
on-Division of Public Transportatio n Services	2008 (Capital Investment Grants for the Procurement of ADA Accessible Transit Buses-4 medium size)	ADA accessible equipment) Available funds for fy 2006-2008 \$297,000.00	<i>42.11,</i> 000.00	(17% federal share with ADA accessible equipment) \$60,831.33	\$357,831.33
"	Section 5310- Formula Program for Elderly Persons and Persons with Disabilities for FY 2008	Available funds for fy 2008 \$170,961.00 minus 15% of state administration (\$25,644.15) equals \$145,316.85	\$145,316.85	Consolidated grant match free for operating assistance	\$145,316.85
"	Section 5311 & 5340-Other Than Urbanized Area Formula Program for FY 2008	Available funds for fy 2008 \$596,775.00 minus 15% of state administration (\$89,516.25) equals \$507,258.75	\$507,258.75	Consolidated grant match free for operating assistance	\$507,258.75
"	Section 5311(b)(3) Rural Transit Assistance Program (RTAP) for FY 2008	Available funds for fy 2008 RTAP funding is included in Section 5311 (15% match free state Administration)	-	Consolidated grant match free for operating assistance RTAP funding is included in Section 5311	-
"	Section 5316- Job Access and Reverse Commute for FY 2008 Section 5317- New	Available funds for fy 2008 \$93,984.00 minus 10% of state administration (\$9,398.40) equals \$84,585.60 Available funds for fy	\$84,585.60 \$22,168.80	Consolidated grant match free for operating assistance Consolidated	\$84,585.60 \$22,168.80

Department of Administration-Division of Public Transportation Services 13

	Freedom Program	2008 \$24,632.00 minus 10% of state administration (\$2,463.20) equals \$22,168.80		grant match free for operating assistance	
Total			\$1,056,330.00	\$60,831.33	\$1,117,161.33
			\$127,022.00		\$127,022.00
			Total State		Total State
			Administrati		Administrati
			on		on
Grand Total			\$1,183,352.00	\$60,831.33	\$1,244,183.33
			Including		Including
			state		state
			administratio		administratio
			n		n

The funding amount for future years will depend upon Federal and State appropriations.

APPENDIX A4

This report is authorized Failure to use this form c delay of obtaining grant f	ould result in a	NATIONAL HIGHV	ARTMENT OF TRANSPORTATION MAY TRAFFIC SAFETY ADMINISTRATION AL HIGHWAY ADMINISTRATION PROBLEM SOLUTION PLAN (PSP)			O.M.B. No. 004-R2439 (To be Revised)			
PSPTITLE ALCOHOL & OTHER I	DRUGS: Public Information & Education	PSP NO: AL07-01	-01		STATE	PAGE			
(PI&E)		PM NO: AL07-01	-01		GUAM	1 OF 1			
OBJECTIVE(S)	vareness and support of highway safety-			MILESTONES	1				
	rding alcohol and other drugs	CUI	RRENT FISCAL YE 2007	AR	т	IME FRAMES			
SUBGRANTEE	DESCRIPTIVE PROJECT	TITLE		INPU	т			OUTPUT	
DEPARTMENT OF PUBLIC WORKS	I. PERSONNEL COSTS/FRINGE BENEFIT	'S	Share costs for sal	aries for Program C	oordinators (II an	id III).		e administration a es concerning Alco rmeasures.	
OFFICE OF HIGHWAY SAFETY	II. TRAVEL/PERSONNEL DEVELOPMENT			off-island workshop to include project n			50,000 people alcohol and d	E materials island for public awarene rugs and the dange am's highways.	ess about
	III. CONTRACTUAL		attitudes on drun	Itant to develop and implement a pilot program related to nk and drugged driving. Photo processing, printing ductions, billboards, banners, walking posters, etc. by over 50,000 people throu			ons, demonstratio		
	IV. MATERIALS & SUPPLIES		Printed materials, J	oosters, stickers, ke	y chains, booklet	s, videos, etc.	and newsprin	media.	
	V. EQUIPMENT (250)		Purchase of DVD p	layer and accessori	es and demonstra	ation kits, etc.			
	VI. EQUIPMENT (450)			video equipment, i.e hance education pr		sh cam, and DVD			
Program Area Code (Impact)	CURRENT YEAR MAJOR COST ITEMS BY	PROJECT	(1) 402 Prior Year Carryover	(2) 402 To Local fr. Col. 1	(3) 402 Current Year	(4) 402 Total (1) = (3)	(5) State Share	(6) Local Share	SEE PROGRAM
	TASKI		17,908.78	0.00	41,283.14	59,191.92			MODULE
	TASK II		12,391.66	0.00	32,608.34	45,000.00			COST
	TASK III		4,081.50	0.00	30,918.85	35,000.35			SUMMARY
	TASK IV		3,083.50	0.00	6,916.50	10,000.00			FOR
	TASK V (250)		749.00	0.00	1,751.00	2,500.00			PLA NNING
	TASK VI (450)		3,517.00	0.00	1,1483.00	15,000.00			YEARS'
AL 07									COSTS
	τοτα	LS>	\$41,731.44	\$0.00	\$124,960.83	\$166,692.27	-0-	-0-	

This report is authorized Failure to use this form c delay of obtaining grant f	ould result in a	NATIONAL HIGHV	ARTMENT OF TRANSPO VAY TRAFFIC SAFETY A L HIGHWAY ADMINISTI PROBLEM SOLU	ADMINISTRATION Ration		B. No. 004-R2439 To be Revised)			
		PSP NO: AL07-01	-02		STATE	PAGE			
FT 2007 COUNTER	DRUG AND DUI PROGRAM	PM NO: AL07-01	-02		GUAM	1 OF	1		
OB JECTIVE(S)			I	MILESTONE	s				
	/ impaired drivers by providing highly It presence and effectuate DUI	CUI	RRENT FISCAL YE 2007	AR	זוד	ME FRAMES			
SUBGRANTEE	DESCRIPTIVE PROJECT	TITLE		INPL	т			OUTPUT	
Guam Police Department HIGHWAY PATROL	 PERSONNEL/OVERTIME TRAVEL/PERSONNEL DEVELOP CONTRACTUAL MATERIALS & SUPPLIES EQUIPMENT (250) EQUIPMENT (450) 	MENT	checkpoints. Send officers for and/or meetings. Photo processin contractual servi Purchase of brea supplies and acc Purchase of DRE Purchase of the testing instrume pilot program rea	g, printing service ice for I-connect i ath testing instrun	kshops, training es, billboards, p adios. nents, video tap ben lights, blood lights and sign in-dash camera arrests and LTI	g, conferences osters, etc. and e supplies, DRE d pressure, etc.) ns, and breath s to be used for	from 18 to 20 locations ide incidents of crashes. Th saturation p checkpoints Train GPD p DW/DUI arro Distribute D' island wide to public aware and the cons during check	mber of DUI che o bienially at 5 d entified as havin DWI/DUI violatic is will include vi- atrols in areas w are not feasible ersonnel in effe- ests. M/DUI enforcen to over 50,000 p eness on drinkin sequences of be (points, sobriety on the highway	ifferent g the highest ons and arious /here DUI ctuating nent materials eople for g and driving ing caught / testing, and
Program Area Code (Impact)	CURRENT YEAR MAJOR COST ITEM	S BY PROJECT	(1) 402 Prior Year Carryover	(2) 402 To Local fr. Col. 1	(3) 402 Current Year	(4) 402 Total (1) = (3)	(5) State Share	(6) Local Share	SEE
	TASK I		\$ 17,536.64	0.00	17,463.36	\$ 35,000.00			MODULE
	TASK II		\$10,000.00	0.00	6,126.93	\$16,126.93			COST
	TASK III		\$ 0.00	0.00	0.00	\$ 0.00			SUMMARY
	TASK IV		\$0.00	0.00	0.00	\$ 0.00			FOR
	TASK V (250)		\$2,205.00	0.00	0.00	\$ 2,205.00			PLANNING
	TASK VI (450)		\$ 9,481.93	0.00	22,723.07	\$ 32,205.00			YEARS'
AL07									COSTS

|--|

This report is authorized b Failure to use this form co delay of obtaining grant fu	uld result in a	NATIONAL HIGHV	ARTMENT OF TRANSPO WAY TRAFFIC SAFETY & AL HIGHWAY ADMINISTI PROBLEM SOLU	DMINISTRATION RATION		B. No. 004-R2439 'o be Revised)			
PSP TITLE		PSP NO: AL07-0)1-03		STATE	PAGE			
HIGHWAY SAFE	ETY TRAFFIC PROSECUTION	PM NO: AL07-	M NO: AL07-01-03 GUAM			1 OF ⁷	1		
OBJECTIVE(S)				MILESTONE	s	•			
	efficiency and effectiveness of traffic and vehicle W/DUI.	cu	CURRENT FISCAL YEAR 2007		ИТ	TIME FRAMES			
SUBGRANTEE	DESCRIPTIVE PROJECT	DESCRIPTIVE PROJECT TITLE		INPL	т			OUTPUT	
OFFICE OF THE ATTORNEY GENERAL	I. PERSONNEL COSTS		Salary for one fu		·		DWI/DUI offe people from	y and efficiently enders and remo our roadways to	ove these o keep
III. TRAVEL/PERSONNEL DEVELOPMENT			Fringe benefits f Send 2 personi workshops, etc., Registration fee relating to traffi	nel to attend off on traffic safety s for on-island wo	F-island training prosecution. prkshops, trainin	, conferences,		ets a safer place ng residents to	
Program Area Code (Impact)	CURRENT YEAR MAJOR COST ITEMS	BY PROJECT	(1) 402 Prior Year Carryover	(2) 402 To Local fr. Col. 1	(3) 402 Current Year	(4) 402 Total (1) = (3)	(5) State Share	(6) Local Share	SEE
	TASK I		\$62,114.00	0.00	0.00	62,114.00			MODULE
	TASK II		18,489.00	0.00	0.00	18,489.00			соят
	TASK III		5,000.00	0.00	0.00	5,000.00			SUMMARY
	TASK IV		365.41	0.00	0.00	365.41			FOR
									PLANNING
									YEARS'
AL07									COSTS

TOTALS> \$85,968.41 \$0.00 \$0.00 \$85,968.41 -00-

This report is authorized Failure to use this form c delaγ of obtaining grant f	ould result in a	NATIONAL HIGHW/ FEDERAL	EPARTMENT OF TRANSPORTATION GHWAY TRAFFIC SAFETY ADMINISTRATION ERAL HIGHWAY ADMINISTRATION PROBLEM SOLUTION PLAN (PSP) (To be Revised)						
PSP TITLE		PSP NO: OP07-0	2-01		STATE	PAGE			
	HLD PROTECTION: Public Education (PI&E)	РМ NO: ОР07-0			GUAN	Л 1ог	1		
OBJECTIVE(S)				MILESTON	ES				
To increase publ automatic crash restraint counter	lic awareness and support of protection and occupant measures.	CUR	RENT FISCAL YE 2007	AR	т	IME FRAMES			
SUBGRANTEE	DESCRIPTIVE PROJECT	TITLES INPUT				OUTPUT			
DEPARTMENT	I. PERSONNEL COSTS/FRINGE BEN	FITS	FITS Share costs for sala			tors (II/III).		n the admin	
OF PUBLIC WORKS OFFICE OF HIGHWAY SAFETY	II. TRAVEL/PERSONNEL DEVELOPM	ENT	transportation Lifesavers and addition, to con Guam to condu Conduct quant usage rates and information ar posters, billbo booklets, etc., T restraints.	safety issues Child Passenge ver the cost of ict the Standard tified formal su d produce educ d educational pards, stickers, Fo cover the cos	and the Movi er SafetyTechnic travel for instru- lized CPS Techn urveys of child ation material. F materials. Pr walking poste tof rental for CF	restraint device Printing of public inted materials, rs, key chains, 'S training on car	Occupant Pro Train person measures to proper child r nurseries, sci Establish se rates. Devel programs an	of policy issue otection. nel in proper of conduct pres estraint devices nools, and requ atbelts/safety op and produc d materials in n igh visibility car	child restraint sentations on satisland wide esting groups. device usage e educational nulti-language
	IV. MATERIALS AND SUPPLIES		Purchase information and educational materials for distribution at island wide safety activities.						
	V. EQUIPMENT (250)		Purchase of ch	ild restraint sys	tems for car seat	check-up events.			
Program Area Code (Impact)	CURRENT YEAR MAJOR COST ITEM	BY PROJECT	(1) 402 Prior Year Carryover	(2) 402 To Local fr. Col. 1	(3) 402 Current Year	(4) 402 Total (1) = (3)	(5) State Share	(6) Local Share	SEE PROGRAM
	TASKI		\$15,692.28	\$0.00	\$38,191.76	\$53,884.04			MODULE
	TASKII		18,653.50	0.00	8,600.22	27,253.72			COST
	TASK III		190.00	0.00	24,910.00	25,100.00			SUMMARY FOR
	TASKIV		4,952.63	0.00	15,047.37	20,000.00			PLANNING
OP07			114.65			11,173.86			YEARS'

Γ	TASKV		0.00	11,059.21				COSTS
	TOTALS>	\$39,603.06	\$ 0.00	\$97,808.56	\$137,411.62	-0-	-0-	

This report is authorized Failure to use this form c delay of obtaining grant	ould result in a	NATIONAL HIGHWA FEDERAL	RTMENT OF TRANSPO AY TRAFFIC SAFETY A . HIGHWAY ADMINISTI PROBLEM SOLU	ADMINISTRATION RATION		M.B. No. 004-R2439 (To be Revised)			
PSP TITLE		PSP NO: 0P07-0	2-02		STATE	PAGE			
CHILD TRAFFI	C SAFETY ENFORCEMENT	PM NO: OP07-0	им NO: ОР07-02-01			Л 1оғ [.]	1		
OBJECTIVE(S)									
To increase highway safety practices and awareness along with a decrease in traffic CUP related incidents involving youth offenders.			RENT FISCAL YEAR 2007 TIME FRAMES						
SUBGRANTEE	DESCRIPTIVE PROJECT	TITLES		IN	PUT			OUTPUT	
DEPARTMENT OF PUBLIC WORKS OFFICE OF HIGHWAY SAFETY	I. PERSONNEL/OVERTIME/FRINGE II. TRAVEL/PERSONNEL DEVELOPM III. CONTRACTUAL IV. MATERIALS AND SUPPLIES V. EQUIPMENT (250/450)	ENT	Overtime salaries for highway pa belt enforcement.			ference or Child or other child tional materials. nphlets, posters, tions at schools, onal child traffic	enforcement Occupant Pro Train person measures to proper child r nurseries, scl Establish se rates. Devel programs and	n the admin of policy issue otection. nel in proper conduct pre- estraint devices hools, and requ atbelts/safety op and produc d materials in r igh visibility car	es concerning child restraint sentations on s at island wide esting groups. device usage e educational nulti-language
Program Area Code (Impact)	CURRENT YEAR MAJOR COST ITEM	S BY PROJECT	(1) 402 Prior Year Canyover	(2) 402 To Local fr. Col. 1	(3) 402 Current Year	(4) 402 Total (1) = (3)	(5) State Share	(6) Local Share	SEE PROGRAM
	TASKI		\$19,334.09	\$0.00	\$ 5,665.91	\$25,000.00			MODULE
	TASKII		0.00	0.00	10,000.00	10,000.00			COST
	TASK III		0.63	0.00	7,959.67	7,960.30			SUMMARY FOR
	TASKIV		52.00	0.00	4,948.00	5,000.00			PLANNING
	TASK V 10 503 92 0.00 0.00 10 503			10,503.92			YEARS'		
OP07									COSTS

TOTALS>	\$29,890.64	\$0	.00	\$28,573.58	\$58,464.22	-0-	-0-

This report is authorized I Failure to use this form α delaγ of obtaining grant f	ould result in a	NATIONAL HIGHV	ARTMENT OF TRANSPO WAY TRAFFIC SAFETY A AL HIGHWAY ADMINISTI PROBLEM SOLU	ADMINISTRATION Ration		B. No. 004-R2439 To be Revised)				
	IC ENFORCEMENT PROGRAM	PSP NO: AL07-03	-01		STATE	PAGE				
(S.T.E.P.)	IC ENFORCEMENT PROGRAM	PM NO: AL07-03-01			GUAM	1 OF 1	1			
OBJECTIVE(S) To reduce serious crashes and fatalities by targeting				MILESTONE	s					
primary locations i	dentified as problem areas via the rmation management systems and	CURRENT FISCAL YEAR 2007				ME FRAMES				
SUBGRANTEE	DESCRIPTIVE PROJECT	TITLE	INPUT					OUTPUT		
Guam Police Department HIGHWAY	I. PERSONNEL/OVERTIME/FRINGE	1	Overtime salarie traffic enforceme	s for highway pat ent.	rol officers cond	ucting selective	enforcement	vertime will be provided to the nforcement and support personnel to duce traffic collisions and develop		
PATROL	II. TRAVEL/PERSONNEL DEVELOP	MENT	Send officers for off-island workshops, training, conferences				community-	ommunity-oriented traffic safety policing rategies for the island.		
	III. CONTRACTUAL		photographs, printing of posters, signs, etc., for educational bie campaigns. To contract services for off-island instructors to					ncrease speed radar checkpoints to 30 viennially. Increase DVM arrests and speeding		
	IV. MATERIALS & SUPPLIES			ind accessories a		-	citations alo	Increase DW arrests and speeding citations along with seatbelt non- compliance citations by 1,000 citations.		
	V. EQUIPMENT (250/450)			o (2) police pacl and palm pilot for		e vehicles and		tigation equipme ausative factors hes.		
Program Area Code (Impact)				(2) 402 To Local fr. Col. 1	(3) 402 Current Year	(4) 402 Total (1) = (3)	(5) State Share	(6) Local Share	SEE PROGRAM	
TASKI		\$ 12,791.61	0.00	23,208.39	\$ 36,000.00			MODULE		
TASK II		15,227.00	0.00	161.19	15,388.19			соят		
	TASK III		13,750.00	0.00	1,250.00	15,000.00			SUMMARY	
PT07 TASK IV			597.40	0.00	0.00	597.40			FOR	

TASK V (250/450)	20,032.43	0.00	0.00	20,032.43			PLANNING
							YEARS'
							COSTS
TOTALS>	\$62,398.44	\$0.00	\$24,619.58	\$87,018.02	-0-	-0-	

This report is authorized Failure to use this form c delay of obtaining grant f	ould result in a	NATIONAL HIGHW/ FEDERAL	RTMENT OF TRANSPO AY TRAFFIC SAFETY A . HIGHWAY ADMINISTI PROBLEM SOLU	ADMINISTRATION RATION	P) o.	M.B. No. 004-R2439 (To be Revised)			
PSP TITLE		PSP NO: EM07-04-01			STATE	PAGE			
	MEDICAL SERVICES (EMS) ENTION & EMT EDUCATION	РМ NO: ЕМ07-04-01				И 1оғ [.]	1		
OBJECTIVE(S)				MILESTON	ES				
related injuries Guam's EMS to administer med	ograms to prevent traffic- and fatalities, and to improve better respond and dical treatment ot individuals motor vehicle collisions.	CUR	RENT FISCAL YE 2007	AR		IME FRAMES			
SUBGRANTEE	DESCRIPTIVE PROJECT	TITLES		IPUT		OUTPUT			
DEPARTMENT OF PUBLIC HEALTH & SOCIAL SERVICES (EMS office)	I. CONTRACTUAL		Purchase essential materials and supplies to develop Highway					will conduct s to educate you ımber of fataliti otor vehicle cra	ung drivers and es and injuries
Program Area Code (Impact)	CURRENT YEAR MAJOR COST ITEMS	S BY PROJECT	(1) 402 Prior Year Carryover	(2) 402 To Local fr. Col. 1	(3) 402 Current Year	(4) 402 Total (1) = (3)	(5) State Share	(6) Local Share	SEE PROGRAM
	TASKI		\$3,308.46	\$0.00	\$0.00	\$3,308.46			MODULE
	TASKII		3,308.46		0.00	3,308.46			соят
									SUMMARY
									FOR
									PLANNING
EM07									YEARS'

							COSTS
TOTALS>	\$6,616.92	\$0.00	\$0.00	\$6,616.92	-0-	-0-	

	rized bγ 23 U.S.C. 402. form could result in a g grant funds.	U.S. DEPARTMENT OF TH NATIONAL HIGHWAY TRAFFIC SA FEDERAL HIGHWAY ADM PROBLEM SOLUTION	FETY ADMINISTRATIO MINISTRATION		O.M.B. No. 004-R2439 (To be Revised)]			
VEHICLE EXTRICATION EQUIPMENT		PSP NO: EM07-04-02		ST		PAGE					
		РМ NO: ЕМ07-04-02			GUAM 10		F1	4			
OBJECTIVE(S)			MILESTO	ONES				4			
	ash injuries and fatalities by rictim extrication time.	CURRENT FISCAL YEAR 2007			TIME FRA	MES					
SUBGRANTEE	DESCRIPTIVE PROJECT TITLES					NPUT			OUTPUT		
GUAM FIRE DEPARTMENT EMS/Rescue Bureau	I. MATERIALS & SUPPLIES		and replaceme kit.	ent items su of extrication	ated training item pporting extricat n crash kits and		time by to inclu	v procuring a Ide equipme	ash victim e: rescue extr nt, that is sp te expedient	ication truck, ecifically	
Program Area Code (Impact)	CURRENT YEAR MAJOR COST ITEM	S BY PROJECT	(1) 402 Prior Year Carryover	(2) 402 To Local fr. Col. 1	(3) 402 Current Year	To	402 ital = (3)	(5) State Share	(6) Local Share	SEE	
EM07										MODULE	

TASK I	\$ 0.00	0.00	\$9,863.16	\$9,863.16		соѕт
TASK II (250/450)	0.00	0.00	30,503.92	30,503.92		
						SUMMARY
						FOR
						PLANNING
						YEARS'
						COSTS
TOTALS>	\$0.00	0\$0.00	\$40,367.08	\$40,367.08		

	oorized bγ 23 U.S.C. 402. form could result in a g grant funds.	U.S. DEPARTMENT OF NATIONAL HIGHWAY TRAFFIC S FEDERAL HIGHWAY A PROBLEM SOLUTIO	O.M.B. No. 00 (To be Ret			
PSP TITLE		PSP NO: EM07-04-03		STATE	PAGE	
EMS/VEHICLE EXTRICATION INSTRUCTOR TRAINING		РМ NO: ЕМ07-04-03		GUAM	1 of 1	
OBJECTIVE(S)			MILESTONES			
To provide continuing vehicle extrication training on up- to-date methods and to allow for rescue personnel to obtain progressive certification levels so that the extrication of persons trapped in motor vehicles, as a result of traffic crashes, can be accomplished safely and expeditiously.		CURRENT FISCAL YEAR 2007		TIME FRA	MES	
SUBGRANTEE	DESCRIPTIVE PROJECT TITLES		INP	TUT		OUTPUT
GUAM FIRE DEPARTMENT EMS/Rescue Bureau	TMENT I. TRAVEL/PERSONNEL DEVELOPMENT		To send two GFD rescu vehicle extrication instn		nd. on up to personne levels so trapped i crashes, care-both	continuing vehicle extrication training date methods and to allow for rescue el to obtain progressive certification that the extrication of persons n motor vehicles, as a result of traffic can be accomplished with reasonable to avoid injury or aggravating njuries, safely and expeditiously.

Program Area Code (Impact)	CURRENT YEAR MAJOR COST ITEMS BY PROJECT	(1) 402 Prior Year Carryover	(2) 402 To Local fr. Col. 1	(3) 402 Current Year	(4) 402 Total (1) = (3)	(5) State Share	(6) Local Share	SEE
	7401/	* 2 * 2	* 0.00	*10.000.00	A40.000.00			MODULE
	TASK I	\$0.00	\$0.00	\$10,000.00	\$10,000.00			созт
								SUMMARY
								FOR
								PLANNING
								YEARS'
EM07								COSTS
	TOTALS>	\$0.00	\$0.00	\$10,000.00	\$10,000.00	-0-	-0-	

Failure to use this form c	This report is authorized by 23 U.S.C. 402. Failure to use this form could result in a delaγ of obtaining grant funds.		RTMENT OF TRANSPORTATION AY TRAFFIC SAFETY ADMINISTRATION HIGHWAY ADMINISTRATION PROBLEM SOLUTION PLAN (PSP)	O.M.B. No. 004-R2439 (To be Revised)			
PSP TITLE		PSP NO: TR07-0	STATE	PAGE			
	DRDS INFORMATION I SYSTEM (T.R.I.M.S.)	РМ NO: ТR07-0	GUAM	1 OF 1	I		
OBJECTIVE(S)			MILESTONES				
Territorial High crashes, injurio damages, DWI	To conduct and input statistical data of the Territorial Highway System (THS), on traffic crashes, injuries, fatalities, property damages, DWI/DUI crashes, and arrests, and speeding violations to identify problem areas.		CURRENT FISCAL YEAR 2007				
SUBGRANTEE	DESCRIPTIVE PROJECT	TITLES	INPU	Г			OUTPUT
DEPARTMENT OF PUBLIC WORKS OFFICE OF HIGHWAY SAFETY			the crash data collection and inputting into the database system. Send representatives to the Traffic Records Forum and/or conferences relating to Crash Data Collection.			 number and inputting of crash data i database system. 	
	III. CONTRACTUAL		To obtain service agreement to maintain computer link into other Traffic Records Information System. Contract consultant to provide impact (effectiveness) evaluation, and conduct data				of updated technology, implement o projects at high hazard locations to

	IV. MATERIALS AND SUPPLIES	interface with e	xisting networ mputer supplie	•	mmendations to necessary for the	monitor crash factors such as traffic controls, speed, design, visibility, etc., in seven locations with visual clocking monitors.			
Program Area Code (Impact)	CURRENT YEAR MAJOR COST ITEMS BY PROJECT	(1) 402 Prior Year Canyover	(2) 402 To Local fr. Col. 1	(3) 402 Current Year	(4) 402 Total (1) = (3)	(5) State Share	(6) Local Share	SEE PROGRAM	
	TASKI	\$13,188.37		\$6,126.74	\$19,315.11			MODULE	
	TASKII	1,596.66		18,403.34	20,000.00			COST	
	TASK III	30,000.00		0.00	30,000.00			SUMMARY	
	TASKIV	9,863.16		0.00	9,863.16			FOR	
								PLANNING	
								YEARS'	
TR07								COSTS	
	TOTALS→	\$54,648.19		\$24,530.08	\$79,178.27'	-0-	-0-		

This report is authorized Failure to use this form c delay of obtaining grant f	ould result in a	U.S. DEPAF NATIONAL HIGHW FEDERAL	O.M.B. No. 004-R2439 (To be Revised)						
PSP TITLE ROADWAY SAFETY		PSP NO: RS07-0	6-01	STATE PAGE					
		PM NO: RS06-06-01		GUAM	1 o⊧ 1	1			
OBJECTIVE(S)			MILESTONES						
To reduce the frequency and severity of traffic accidents through identification of problem areas, development of remedial action programs, and implementation of improvements.		CUR	RENT FISCAL YEAR 2007	TIME FR4	AMES				
SUBGRANTEE DESCRIPTIVE PROJECT TITLES			INPUT			OUTPUT			
DEPARTMENT OF PUBLIC WORKS	I. MATERIALS AND SUPPLIES	-	traffic paint, etc., for higher visibility. Procure regulatory and			tinue improving signs and markings on m's Highways.			
OFFICE OF HIGHWAY	II. EQUIPMENT (250/450)		Us				Use of updated technology, implement demo projects at high hazard locations to		

SAFETY		equipments and warning signs.		ountability. Procu	monitor crash factors such as traff controls, speed, design, visibility, etc., i seven locations with visual clockir monitors.			
Program Area Code (Impact)	CURRENT YEAR MAJOR COST ITEMS BY PROJECT	(1) 402 Prior Year Canyover	(2) 402 To Local fr. Col. 1	(3) 402 Current Year	(4) 402 Total (1) = (3)	(5) State Share	(6) Local Share	SEE
	TASKI	\$23,271.50		\$6,000.00	\$29,271.50			MODULE
		0.00		30,543.05	30,543.05			соѕт
	TASK II							SUMMARY
								FOR
								PLANNING
								YEARS'
RS07								соѕтѕ
	TOTALS>	\$23,271.50		\$36,543.05	\$59,814.55	-0-	-0-	

This report is authorized by 23 U.S.C. 402. Failure to use this form could result in a delay of obtaining grant funds.		NATIONAL HIGHW FEDERAL	RTMENT OF TRANSPORTATION AY TRAFFIC SAFETY ADMINISTRATION HIGHWAY ADMINISTRATION PROBLEM SOLUTION PLAN (PSP)	O.M.B. No. (To be F			
PSP TITLE PLANNING AND ADMINISTRATION (NHTSA 402)		PSP NO: PA07-07-01		STATE GUAM	PAGE 1 OF 1	1	
OBJECTIVE(S)		MILESTONES				-	
administration	the planning and of the overall Highway Safety he Territory of Guam.	CUR	RENT FISCAL YEAR 2007	TIME FI	RAMES		
SUBGRANTEE	SUBGRANTEE DESCRIPTIVE PROJECT TITLES		TITLES INPUT				OUTPUT
DEPARTMENT OF PUBLIC WORKS	I. PERSONNEL/FRINGE BENEFITS II. PERSONNEL DEVELOPMENT/TRA	VEL	Share of costs for salaries for Pro Send representatives to GHSA	-	()	feder	ffectively administer all phases of 100% rally funded highway safety programs to utilize all means for promoting

OFFICE OF HIGHWAY SAFETY	III. CONTRACTUAL IV. EQUIPMENT (250/450) V. UTILITIES	courses, etc., f DOT, TSI (e.g. Managing Fede approved by NH Printing service services, DSL s Lease to own o for daily operat	for courses s Program Ma ral Finances, e HTSA, Western es, subscriptio ervices, etc. ne photocopie ions.	orkshops, confere ponsored/sanctio nagement, Proje- etc.) And other rel- n Region. ns, postge, dues, er and office equip er modem usage,	Territory of Guam with updated technolog and highway safety priorities.			
Program Area Code (Impact)	CURRENT YEAR MAJOR COST ITEMS BY PROJECT	(1) 402 Prior Year Carryover	(2) 402 To Local fr. Col. 1	(3) 402 Current Year	(4) 402 Total (1) = (3)	(5) State Share	(6) Local Share	SEE PROGRAM
	TASKI	\$28,000.00		\$7,000.00	\$35,000.00			MODULE
	TASKII	13,844.57		30,614.21	44,458.78			соѕт
	TASK III	1,000.00		8,130.00	9,130.00			SUMMARY
	TASKIV	0.00		3,729.00	3,729.00			FOR
	TASK V	1,651.88		4,202.09	5,853.97			PLANNING
								YEARS'
PA07								COSTS
	TOTALS→	\$44,496.45		\$53,675.30	\$98,171.75	-0-	-0-	

This report is authorized by 23 U.S.C. 402. Failure to use this form could result in a delay of obtaining grant funds.		NATIONA	.S. DEPARTMENT OF TRANSPORTATION AL HIGHWAY TRAFFIC SAFETY ADMINISTRATION FEDERAL HIGHWAY ADMINISTRATION PROBLEM SOLUTION PLAN (PSP)	O.M.B. No. 00 (To be Rev			
PSP TITLE YOUTH TO YOUTH ALCOHOL/DRUG FREE		PSP NO: Y	/A07-08-01	STATE	PAGE		
		PM NO: 1	PM NO: YA07-08-01		1 OF 1		
OBJECTIVE(S)			MILESTONES				
To provide a community-based program designed to mobilize the youths in Guam to actively lead alcohol/drug free lifestyles.			CURRENT FISCAL YEAR 2007	TIME FRA	AMES		
SUBGRANTEE	DESCRIPTIVE PROJECT TIT	LES	INPUT			 ol	ITPUT

DEPARTMENT OF PUBLIC WORKS OFFICE OF HIGHWAY SAFETY	I. TRAVEL/PERSONNEL DEVELOPMENT II. CONTRACTUAL III. MATERIALS & SUPPLIES	Printing services, PSA production, ordering paraphemalia such as stickers, key chains, t- shirts, etc. Registration fees for students participating in Guam's annual Island-wide youth conference. Purchase Drug I.D. display, order easel pads, films video cassettes, slides, etc.								
Program Area Code (Impact)	CURRENT YEAR MAJOR COST ITEMS BY PROJEC	т	(1) 402 Prior Year Carryover	(2) 402 To Local fr. Col. 1	(3) 402 Current Year	(4) 40; Total (1) = (3)		(5) State Share	(6) Local Share	SEE PROGRAM
	TASK I TASK II TASKIII		\$ 0.00 13,973.85 0.00	\$0.00 0.00 0.00	\$ 0.00 790.00 443.29	14,7	0.00 63.85 43.29			MODULE COST SUMMARY FOR PLANNING YEARS'
YA07										соѕтѕ
	TOTALS>		\$13,973.85	\$0.00	\$1,233.29	\$15,2	07.14	-0-	-0-	

This report is authorized by 23 U.S.C. 402. Failure to use this form could result in a delay of obtaining grant funds.	U.S. DEPARTMENT OF TRANSPORTATION NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION FEDERAL HIGHWAY ADMINISTRATION PROBLEM SOLUTION PLAN (PSP)	O.M.B. No. 00 (To be Rev			
PSP TITLE	PSP NO: YA07-08-02	STATE	PAGE		
YOUTH TO YOUTH ALCOHOL/DRUG	PM NO: YA04-08-02	GUAM	1 OF 1		
OBJECTIVE(S)	MILESTONES	S			
To provide training and technical assistance to the Youth for Youth organization in the development, implementation, and	CURRENT FISCAL YEAR 2007	TIME FRA	AMES		

which is desigr	ne annual youth conference ned to empower Guam's rs in drug/alcohol prevention												
SUBGRANTEE	DESCRIPTIVE PROJECT TITLES	INPUT							OUTPUT				
DEPARTMENT OF MENTAL HEALTH & SUBSTANCE ABUSE	I. Contractual Services II. Materials & Supplies	Printing services for bi-monthly newsletters. Purchase of prevention and educational material and confere program supplies. To include blank video tapes, film, etc.				Purchase of prevention and educational material and conferenc				alcoho reachi Materi	ol & drugs ing about 80 ials will be ols and 5 mic	among Guan % o f them.	he effects of n's youths by o all 8 high o students
Program Area Code (Impact)	CURRENT YEAR MAJOR COST ITEMS BY PROJEC	(1) 402 Prior Year Carryover	(2) 402 To Local fr. Col. 1	(3) 402 Current Year	(4) 4(Total (1) = (3		(5) State Share	(6) Local Share	SEE PROGRAM				
YA07	TASK I TASK II		\$5,000.00 5,000.00	\$0.00 0.00	\$0.00 0.00		00.00 00.00			MODULE COST SUMMARY FOR PLANNING YEARS' COSTS			
	TOTALS>		\$10,000.00	\$0.00	\$0.00	\$10,0	00.00	-0-	-0-				

This report is authorized by 23 U.S.C. 402. Failure to use this form could result in a delay of obtaining grant funds.	U.S. DEPARTMENT OF TRANSPORTATION NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION FEDERAL HIGHWAY ADMINISTRATION PROBLEM SOLUTION PLAN (PSP)	O.M.B. No. 00 (To be Rev	
PSP TITLE	PSP NO: SA07-09-01	STATE	PAGE
SAFE COMMUNITIES	PM NO: SA07-09-01		

					GUA		1		
OBJECTIVE(S)				MILESTON	ES				
designed to ed	o provide a community-based program esigned to educate and inform the public t large in highway safety.		RENT FISCAL YE 2007	AR	-	TIME FRAMES			
SUBGRANTEE	DESCRIPTIVE PROJECT	TITLES		IN	IPUT			OUTPUT	
DEPARTMENT OF PUBLIC WORKS OFFICE OF HIGHWAY SAFETY III. CONTRACTUAL		Send represe Prevention ro workshops, or Printing servic items, such as	Send representatives to attend Safe Communities/Injury Prevention related workshops, conferences, financial workshops, or coordinator meeting. Printing services, ordering pre-printed campaign promotional items, such as stickers, key chains, etc., and framing services for highway safety posters for distribution. Dist provide printing provide and printing services				To expand and ensure the conformance of Guam's Safe Communities Program with NHTSA and other national criteria. The Guam Safe Kids Coalition will plan and launch community and school traffic crash/injury prevention campaigns. Distribute traffic safety/injury prevention promotional materials to schools island- wide, GovGuam agencies/departments, private, military and civic centers during PI&E campaigns.		
Program Area Code (Impact)	CURRENT YEAR MAJOR COST ITEMS	S BY PROJECT	(1) 402 Prior Year Carryover	(2) 402 To Local fr. Col. 1	(3) 402 Current Year	(4) 402 Total (1) - (3)	(5) State Share	(6) Local Share	SEE
	TASKI		\$32,255.70		\$0,00	\$32,255.70			MODULE
	TASKII		0.00		0.00	0.00			соят
	TASK III		0.00		0.00	0.00			SUMMARY
									FOR
									PLANNING
									YEARS'
SA07									COSTS
	Т	OTALS>	\$32,255.70		\$0.00	\$32,255.70	-0-	-0-	

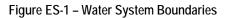
			i.
	U.S. DEPARTMENT OF TRANSPORTATION		i i
This report is authorized by 23 U.S.C. 402.	NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION		
Failure to use this form could result in a	FEDERAL HIGHWAY ADMINISTRATION	O.M.B. No. 004-R2439	i.
delay of obtaining grant funds.	PROBLEM SOLUTION PLAN (PSP)	(To be Revised)	

PSP TITLE CHILD PASSENGER PROTECTION EDUCATION (INCENTIVE)		PSP NO: J307-11-01			STATE	PAGE					
		PM NO: J307-11-01				GUAM	10)F 1			
OBJECTIVE(S)				MI	LESTONES	•	I				
To provide public education and awareness on existing occupant/child protection laws designed to reduce injuries and fatalities of people riding in motor vehicles unrestrained or improperly restrained.		CURRENT FISCAL YEAR 2007			TIME FRAMES						
SUBGRANTEE	DESCRIPTIVE PROJECT TITLES		INPUT						OUTPUT		
DEPARTMENT OF PUBLIC WORKS OFFICE OF	I. TRAVEL/PERSONNEL DEVELOPMENT			to con	ne to Guam to c	travel for CPS Instructors conduct the Standardized fety Technician Training. Train instructors will work closely with public health providers, nurseries, schoo hospitals, private clinics, and village may in promoting Child Restraint on Guam.					es, schools, llage mayors
HIGHWAY SAFETY	II. CONTRACTUAL III. CAPITAL OUTLAY (250/450)				al copies). To c raining in Septe ase of child res	clude duplication of ontract room rental for		Distribute PI&E materials island-wide a develop and produce educational prog and materials in multi-language format use in high visibility activities. To coordinate and conduct fitting stati educate the public on the proper instal of child restraint devices.		al program formats for ng stations to	
Program Area Code (Impact)			Prior	402 r Year yover	(2) 402 To Local fr. Col. 1	(3) 402 Current Year	(4) 40 Total (1) = (3		(5) State Share	(6) Local Share	SEE PROGRAM
	TASK I		\$			\$0.00	\$ 0.00				MODULE COST
	TASK II TASK III (250/450)			0.00 0.00 5,005.85 0.00		0.00 0.00 5,0		0.00 05.85			SUMMARY FOR
											PLANNING YEARS'
J307		OTALS>	\$5,	005.85	\$0.00	\$0.00	\$5,0	05.85	cos		COSTS
HS Form 57 (Rev. 7/77) This report is authorized b Failure to use this form co		f HS-57 which are obsolete. U.S. DEPARTMEN NATIONAL HIGHWAY TR				0.M.B. N	o. 004-R2439]		

delay of obtaining grant funds.		FEDERAL	P)	(To be Revised)							
PSP TITLE SCHOOL BUS SAFETY (402)		PSP NO: SB07-1	STATE		PAGE						
		РМ NO: SB04-13	GUA	м	1 OF ¹	1					
OBJECTNE(S)											
To increase public awareness about school bus safety and the danger zones around the bus during loading and unloading.		CURRENT FISCAL YEAR 2007				TIME FRAMES					
SUBGRANTEE	DESCRIPTIVE PROJECT TITLES		INPUT						OUTPUT		
DEPARTMENT OF PUBLIC WORKS OFFICE OF HIGHWAY SAFETY	I. CONTRACTUAL II. MATERIALS AND SUPPLIES III. EQUIPMENT (250)		Print color posters of bus danger zones loading/unloading, and school bus rules distribution and to produce a master TV/ra announcements. Procurement of educational materials for use orientations, and training activities. Purchase of video training tapes.			s rules for island wide by d er TV/radio public service islar safe for use in demonstrations, To c bus⊷			ontinue the public education awareness distributing school bus safety materials land wide, and implement school bus ifety education activities. o continue to reduce the number of school is-related traffic crashes and student juries for SY2006-2007.		
Program Area Code (Impact)	CURRENT YEAR MAJOR COST ITEMS BY PROJECT TASK I TASK II TASK III (250)		(1) 402 Prior Year Canyover \$ 560.19 558.60 0.00	(2) 402 To Local fr. Col. 1	(3) 402 Current Year 5,940.00 558.60 0.00	та (1) \$(402 otal = (3) 5,500.19 1,117.20 0.00	(5) State Share	(6) Local Share	SEE PROGRAM MODULE COST SUMMARY FOR PLANNING YEARS'	
SB07										COSTS	
	Т	\$1,118.79		\$6,498.60	\$	7,617.39	-0-	-0-			

This report is authorized by 23 U.S.C. 402. Failure to use this form could result in a delay of obtaining grant funds.		U.S. DEPARTMENT OF TRANSPORTATION NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION FEDERAL HIGHWAY ADMINISTRATION PROBLEM SOLUTION PLAN (PSP)			SP) o.	O.M.B. No. 004-R2439 (To be Revised)					
PSPTITLE		PSP NO: PS07-17-0	STATE	PAG	I						
PEDESTRIAN AND	BICYCLE SAFETY PROGRAM	PM NO: PS07-17-0	GUAM	1	DF 1						
OBJECTIVE(S)				MILESTON	ES						
To develop a safety program to emphasize consistent use of safety equipment and rules of the highways.		CUR	1	TIME FRAMES							
SUBGRANTEE	TEE DESCRIPTIVE PROJECT TITLES			IN	IPUT		OUTPUT				
DEPARTMENT OF PUBLIC WORKS OFFICE OF HIGHWAY SAFETY	I. TRAVEL II. CONTRACTUAL	Send representatives to the Annual Bicycle/Pedestrian Safety Coordinators Meetings/Workshops and any other related training concerning pedestrian and bicycle safety programs. Printing of educational materials concerning pedestrian and bicycle safety. To procure printed materials, posters, stickers, walking posters, etc. Contract a Outreach Consultant to conduct educational outreach and provide hands-o educational activities.					To establish new programs to provide educational information regarding bicycle safety, distribute and properly fit bicycle helmets, conduct traffic safety rodeos at the school and community levels on bicycle and pedestrian laws These projects are to decrease the number of traffic collisions involving bicyclists and pedestrians, and to				
	III. MATERIALS AND SUPPLIES		Purchase information and educational materials for distribution at island wide safety activities. Purchase of bicycle helmets, bicycle and rodeo equipments.					increase public awareness of traffic safety practices for pedestrians, bicyclists and motorists.			
Program Area Code (Impact) PS07	CURRENT YEAR MAJOR COST ITEM TASK I TASK II TASK III TASK IV (250/450)	S BY PROJECT	(1) 402 Prior Year Carryover \$ 4,809.38 2,389.94 8.00 10,632.73	(2) 402 To Local fr. Col. 1 \$0.00 0.00 0.00 0.00	(3) 402 Current Year \$4,809.38 11,567.68 4,492.00 130.80	(4) 402 Total (1) = (3) \$ 9,618 13,957 4,500 10,763	.76 .62 .00	State Share	(6) Local Share	SEE PROGRAM MODULE COST SUMMARY FOR PLANNING YEARS'	
PSU/		rotals>	\$17,840.05	\$0.00	\$20,999.86	\$38,839	.91	-0-	-0-	COSTS	
) Replaces HS-57A, HS-212 and previous editions (120,000			-	Ť		

APPENDIX A5



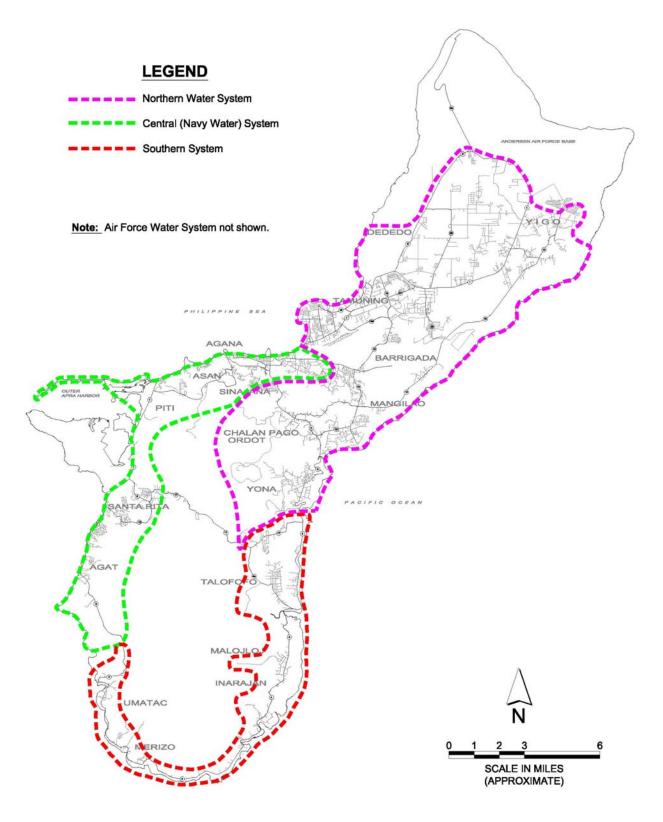


Figure ES-2 – Wastewater Basins

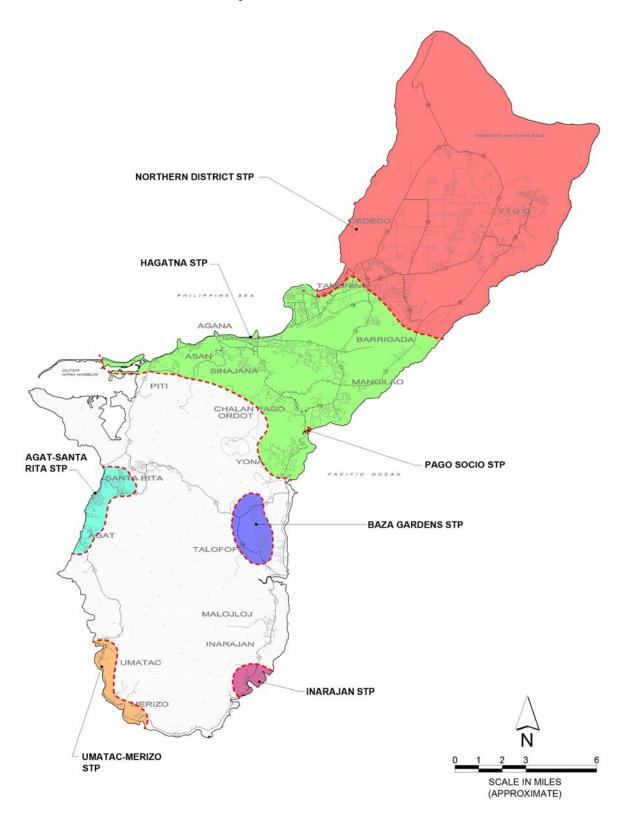
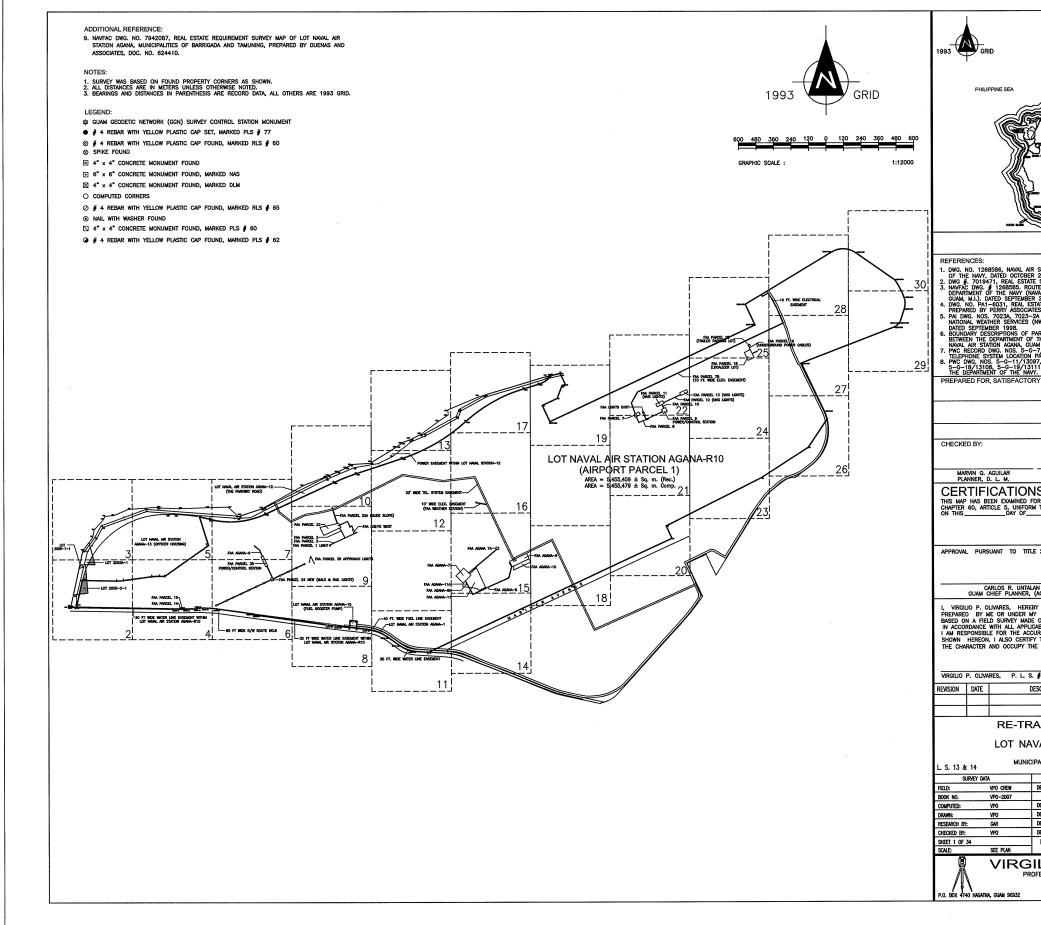


Exhibit ES-1 – Capital Improvement Program – Base Case

											Budget Yea	1,2											
Project	Project Types ³	Priority Ranking	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	Totals
Water Reservoir Internal/External Corrosion Assessment Program	LS/SR/OMR	47.6	\$125,000					vvat	er System				1										\$125,0
Water Reservoir Internal/External Corrosion Rehabilitation Program	LS/SR/OMR	47.6		\$500,000	\$500,000	\$500,000	\$500,000																\$2,000,0
Ugum Water Treatment Plant Membrane Filtration	SC/OMR	23.3	\$8,500,000		A0 700 000																		\$8,500,0
Ugum Water Treatment Plant Reservoir Replacement Ugum Water Treatment Plant Intake Modifications	LS/SR/SRED SR	49.9 16.3	\$550.000		\$8,700,000																		\$8,700,0 \$550,0
Water Distribution System Pipe Replacement	LS/SR/OMR	47.6	\$5,000,000	\$5,000,000	\$5.000.000	\$5.000.000	\$5,000,000	\$5.000.000	\$5.000.000	\$5.000.000	\$5.000.000	\$740.000	\$740.000	\$740.000	\$740.000	\$740.000	\$740.000	\$740.000	\$740.000	\$740.000	\$740.000	\$740.000	
Mechanical/Electrical Equipment Replacement	LS/SR/OMR	47.6	+=,===,===	\$930,000	\$930,000	\$930,000	\$930,000	\$930,000	\$930,000	\$930,000	\$930,000	\$930,000	\$930,000	\$930,000	\$930,000	\$930,000	\$930,000		\$930,000	\$930,000	\$930,000	\$930,000	
Southern System Water Distribution System 2005 Improvements	LS/SR	38.1		\$1,300,000	\$1,300,000	\$1,300,000	\$1,300,000	\$1,300,000	\$1,300,000	\$1,300,000	\$1,300,000	\$1,300,000	\$1,300,000							\$4,000,000		\$6,000,000	
Central System Water Distribution System 2005 Improvements	LS/SR	38.1		\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000										\$6,000,0
Northern System Water Distribution System 2005 Improvements	LS/SR LS/SR	38.1		\$2,600,000	\$2,600,000	\$2,600,000	\$2,600,000	\$2,600,000	\$2,600,000	\$2,600,000	\$2,600,000	\$2,600,000	\$2,600,000										\$26,000,0 \$8,100,0
Pressure Zone Realignment/Development 2005 Improvements Water Booster Pumping Station 2005 Improvements	LS/SR	38.1 38.1		\$2,700,000 \$700,000	\$2,700,000 \$500,000	\$2,700,000																	\$1,200,0
Water System Reservoirs 2005 Improvements	LS/SR	38.1		\$2,600,000	\$2,600,000	\$2,600,000	\$8,700,000					\$8,700,000											\$25,200,0
Northern System Raw Water Transmission Lines	LS/SR	38.1	\$4,500,000	\$4,300,000		\$18,000,000		\$19,000,000	\$20,000,000	\$20,000,000		\$19,000,000		\$15,000,000		\$4,000,000							\$123,800,0
Water System Supply Wells 2025 Improvements	SC	13.8																		\$5,000,000			\$5,000,0
Southern System Water Distribution System 2025 Improvements	LS/SR	38.1											AF 700 000	AF 700 000	AF 700 000	05 700 000	AF 700 000	AF 700 000	05 700 000	\$4,000,000		\$6,000,000	\$10,000,0
Northern System Water Distribution System 2025 Improvements	LS/SR LS/SR	38.1 38.1											\$5,700,000	\$5,700,000	\$5,700,000	\$5,700,000	\$5,700,000	\$5,700,000	\$5,700,000	\$5,700,000	\$5,700,000 \$1,600,000	\$5,700,000	\$57,000,0 \$1,600,0
Water Booster Pumping Station 2025 Improvements Water System Reservoirs 2025 Improvements	LS/SR	38.1												\$3,000,000	\$4,300,000	\$3,000,000	\$8,700,000	\$8,700,000			\$1,000,000		\$1,000,0
Northern System GWUDI Filtration Compliance ⁴	RC	17							\$14,500,000	\$14,500,000	\$14,500,000	\$14,500,000	\$14,500,000	\$14,500,000	\$14,500,000		\$14,500,000						\$145.000.0
Year Tota			\$18,675,000	\$21,230,000	\$25,430,000	\$34,230,000	\$19,630,000	\$29,430,000		\$44,930,000		\$48,370,000		\$39,870,000		\$28,870,000	\$30,570,000	\$30,570,000	\$7,370,000	\$20,370,000	\$8,970,000	\$19,370,000	\$550,285,0
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Northern District STP Rte 16 PS Overflow Study	SR/SC	30.1	\$50,000																				\$50,0
Northern District STP Eliminate Flow Split	SR/OM&R	25.8	\$50,000																				\$50,0
Northern District STP Priority 1 Sewer Upgrades	RC/LS	38.8	<u>↓</u>			\$2,400,000										\$200.000							\$2,400,0
Northern District STP Priority 2 Sewer Upgrades Northern District STP Priority 3 Sewer Upgrades	RC/SC RC/SC	30.8 30.8	+													\$280,000					\$4,500,000		\$280,0 \$4,500,0
Hagatna STP Priority 1 Sewer Upgrades	RC/SC RC/LS	38.8	+			\$4,000,000															φ 4 ,300,000		\$4,500,0
Hagatha STP Priority 2 Sewer Upgrades	RC/SC	30.8	1			÷.,500,000				+						\$17,000,000							\$17,000,0
Hagatna STP Priority 3 Sewer Upgrades	RC/SC	30.8									_										\$11,000,000		\$11,000,0
Hagatna STP Pump Station Upgrades	RC/SC	30.8				\$440,000	\$4,400,000				\$120,000	\$1,200,000					\$4,500,000		\$45,000,000				\$55,660,0
Agat-Santa Rita STP Priority 1 Sewer Upgrades	RC/SC	30.8	1 1			\$1,200,000																	\$1,200,0
Agat-Santa Rita STP Priority 3 Sewer Upgrades	SC	13.8																			\$4,500,000		\$4,500,0
Baza Gardens STP Priority 1 Sewer Upgrades	RC/SC	30.8 13.8				\$650,000										\$580,000							\$650,0 \$580,0
Baza Gardens STP Priority 2 Sewer Upgrades Inarajan STP Pressure Sewer Upgrades	SC RC/SC	30.8				\$1,200,000										\$280,000							\$580,0
Year Tota		50.0	\$100.000	\$0	\$0	\$9.890.000	\$4,400,000	\$0	\$0	\$0	\$120.000	\$1,200,000	\$0	\$0	\$0	\$17,860,000	\$4,500,000	\$0	\$45,000,000	\$0	\$20,000,000	\$0	\$103,070,0
				7-1	7-1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		water Collection	n System - Uns		¢,	<i>.</i> ,,,	7-1	7-1	7-	÷,===,===	+ .,,	<i>7</i> -		7-1	+==,===,===	<i></i>	<i>,</i> ,,.
NDSTP and Hagatna STP Unsewered Properties – Sewer Hookups ⁵	RC/Other	17						\$1,300,000	\$1,300,000	\$1,300,000	\$1,300,000	\$1,300,000											\$6,500,0
NDSTP and Hagatna STP Unsewered Properties - New Sewers 6	RC/Other	17						\$2,700,000	\$2,700,000		\$2,700,000	\$2,700,000	\$2,700,000	\$2,700,000	\$2,700,000	\$2,700,000	\$2,700,000	\$2,700,000	\$2,700,000	\$2,700,000	\$2,700,000	\$2,700,000	
NDSTP and Hagatna STP Unsewered Properties - Additional Sewer Hook-ups ⁵	SC/Other	13.8									\$1,250,000	\$1,250,000	\$1,250,000	\$1,250,000	\$1,250,000	\$1,250,000	\$1,250,000	\$1,250,000	\$1,250,000	\$1,250,000	\$1,250,000	\$1,250,000	\$15,000,0
South System Sewer Hook-ups ⁵	RC	17																\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$7,500,0
Year Tota	al		\$0	\$0	\$0	\$0	\$0	\$4,000,000	\$4,000,000	\$4,000,000	\$5,250,000	\$5,250,000	\$3,950,000	\$3,950,000	\$3,950,000	\$3,950,000	\$3,950,000	\$5,450,000	\$5,450,000	\$5,450,000	\$5,450,000	\$5,450,000	\$69,500,0
Markela Francia Ocal Decela	00/01/0	05.0	004.000		T			Vastewater Col	lection System	- Other													
Manhole Frame Seal Repair Agat Manhole Rehabilitation	SR/OMR SR/OMR	25.8 25.8	\$84,000 \$54,000																				\$84,0 \$54,0
Wastewater Collection System Recurring Inspection Program ⁷	SR/OMR	25.8	\$610,000	\$610,000	\$610,000	\$610.000	\$610,000	\$610.000	\$610.000	\$610,000	\$610,000	\$610,000	\$610.000	\$610.000	\$610,000	\$610,000	\$610,000	\$610.000	\$610,000	\$610.000	\$610,000	\$610,000	
Wastewater Collection System Replacement/Rehabilitation Program ⁷	SR/OMR	25.8	\$1,100,000	\$1.100.000	\$1,100,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000		\$2,000,000		\$2,000,000	\$2,000,000	
Year Tota		23.0			\$1,710,000	\$2,610,000	\$2,610,000	\$2,610,000		\$2,610,000	\$2,610,000	\$2,610,000	\$2,610,000	\$2,610,000		\$2,610,000	\$2,610,000		\$2,610,000		\$2,610,000	\$2,610,000	
	a/		\$1.848.000	\$1.710.000									1 1					, ,,				, ,,	<i>,,,,,,,,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	al		\$1,848,000	\$1,710,000	\$1,710,000	φ2,010,000	\$2,010,000			\$2,010,000	φ2,010,000	φ2,010,000											
Facilities Plan/Design for the Agat-Santa Rita STP Replacement	RC/SR/SRED/SC	58.9	\$1,848,000	\$1,710,000 \$600,000	\$1,710,000	\$2,600,000	\$2,810,000		ater Facilities	\$2,010,000	φ2,010,000	φ2,010,000											\$3,200,0
Agat-Santa Rita STP Replacement	RC/SR/SRED/SC RC/SR/SRED/SC	58.9					\$2,010,000			\$2,010,000	φ2,010,000	φ2,010,000											\$30,000,0
Agat-Santa Rita STP Replacement Facilities Plan/Design for the Baza Gardens STP Replacement	RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED	58.9 45.1	\$1,848,000		\$1,500,000			Wastew		φ2,010,000	φ2,010,000	φ2,010,000											\$30,000,0 \$2,000,0
Agat-Santa Rita STP Replacement Facilities Plan/Design for the Baza Gardens STP Replacement Baza Gardens STP Replacement	RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED RC/SR/SRED	58.9 45.1 45.1					\$18,000,000	Wastew	ater Facilities	φ2,010,000	ψ2,010,000	\$2,010,000											\$30,000,0 \$2,000,0 \$18,000,0
Agat-Santa Rita STP Replacement Facilities Plan/Design for the Baza Gardens STP Replacement Baza Gardens STP Replacement Facilities Plan/Design for the Hagatna STP Improvements & Effluent WWPS	RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED RC/SR/SRED SR/SRED/SC	58.9 45.1 45.1 41.9						Wastew		φ2,010,000		φ2,010,000											\$30,000,0 \$2,000,0 \$18,000,0 \$1,900,0
Agat-Santa Rita STP Replacement Facilities Plan/Design for the Baza Gardens STP Replacement Baza Gardens STP Replacement Facilities Plan/Design for the Hagatna STP Improvements & Effluent WWPS Hagatna STP Improvements & Effluent WWPS	RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED RC/SR/SRED	58.9 45.1 45.1 41.9 41.9						Wastew	ater Facilities	42,010,000	\$18,000,000												\$30,000,0 \$2,000,0 \$18,000,0 \$1,900,0 \$18,000,0
Agat-Santa Rita STP Replacement Facilities Plan/Design for the Baza Gardens STP Replacement Baza Gardens STP Replacement Facilities Plan/Design for the Hagatna STP Improvements & Effluent WWPS	RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED RC/SR/SRED SR/SRED/SC SR/SRED/SC	58.9 45.1 45.1 41.9						Wastew	ater Facilities	\$2,010,000		\$190,000		\$420,000									\$30,000,0 \$2,000,0 \$18,000,0 \$1,900,0 \$18,000,0 \$190,0 \$420,0
Agat-Santa Rita STP Replacement Facilities Plan/Design for the Baza Gardens STP Replacement Baza Gardens STP Replacement Facilities Plan/Design for the Hagatna STP Improvements & Effluent WWPS Hagatna STP Improvements & Effluent WWPS Facilities Plan/Design for Inarajan STP Expansion Inarajan STP Expansion Facilities Plan/Design for the Northern District STP – Biosolids	RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED RC/SR/SRED SR/SRED/SC SR/SRED/SC SR/OM&R SR/OM&R RC/SR	58.9 45.1 45.1 41.9 25.8 25.8 30.1			\$1,500,000			Wastew	ater Facilities	\$2,010,000				\$420,000									\$30,000,0 \$2,000,0 \$18,000,0 \$1,900,0 \$18,000,0 \$190,0 \$420,0 \$2,300,0
Agat-Santa Rita STP Replacement Facilities Plan/Design for the Baza Gardens STP Replacement Baza Gardens STP Replacement Facilities Plan/Design for the Hagatna STP Improvements & Effluent WWPS Hagatna STP Improvements & Effluent WWPS Facilities Plan/Design for Inarajan STP Expansion Inarajan STP Expansion Facilities Plan/Design for the Northern District STP – Biosolids Northern District STP Expansion - Biosolids	RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/OM&R SR/OM&R RC/SR RC/SR	58.9 45.1 41.9 41.9 25.8 25.8 30.1 30.1	\$500,000					Wastew	ster Facilities	42,010,000		\$190,000	\$16,000,000	\$420,000									\$30,000,0 \$2,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$420,0 \$2,300,0 \$21,000,0
Agat-Santa Rita STP Replacement Facilities Plan/Design for the Baza Gardens STP Replacement Baza Gardens STP Replacement Facilities Plan/Design for the Baza Gardens STP Improvements & Effluent WWPS Hagatna STP Improvements & Effluent WWPS Facilities Plan/Design for Inarajan STP Expansion Inarajan STP Expansion Facilities Plan/Design for the Northern District STP – Biosolids Northern District STP Expansion Facilities Plan/Design for the Northern District STP – Biosolids	RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED SR/SRED/SC SR/SRED/SC SR/OM&R SR/OM&R RC/SR RC/SR RC/SR SR/SRED	58.9 45.1 41.9 25.8 25.8 30.1 30.1 25.6	\$500,000		\$1,500,000			Wastew	ater Facilities	42,010,000	\$18,000,000	\$190,000	\$16,000,000	\$420,000									\$30,000,0 \$2,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$420,0 \$2,300,0 \$21,000,0 \$1,200,0
Agat-Santa Rita STP Replacement Facilities Plan/Design for the Baza Gardens STP Replacement Baza Gardens STP Replacement Facilities Plan/Design for the Hagatna STP Improvements & Effluent WWPS Hagatna STP Improvements & Effluent WWPS Facilities Plan/Design for Inarajan STP Expansion Inarajan STP Expansion Facilities Plan/Design for the Northern District STP – Biosolids Northern District STP Expansion Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion Facilities Plan/Design for the Northern District STP Expansion	RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/OM&R SR/OM&R RC/SR RC/SR RC/SR SR/SRED SR/SRED	58.9 45.1 45.1 41.9 25.8 25.8 30.1 30.1 25.6 25.6	\$500,000		\$1,500,000			Wastew \$30,000,000	ster Facilities	\$2,010,000		\$190,000	\$16,000,000	\$420,000									\$30,000,0 \$2,000,0 \$18,000,0 \$19,00,0 \$190,0 \$420,0 \$2,300,0 \$21,000,0 \$11,200,0 \$10,000,0
Agat-Santa Rita STP Replacement Facilities Plan/Design for the Baza Gardens STP Replacement Baza Gardens STP Replacement Facilities Plan/Design for the Hagatna STP Improvements & Effluent WWPS Hagatna STP Improvements & Effluent WWPS Facilities Plan/Design for Inarajan STP Expansion Inarajan STP Expansion Facilities Plan/Design for the Northern District STP – Biosolids Northern District STP Expansion Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion Facilities Plan/Design for the Northern District STP Expansion Facilities Plan/Design for the Northern District STP Expansion Facilities Plan/Design for the Umatac-Merizo STP Improvements	RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED RC/SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/OM&R RC/SR RC/SR RC/SR SR/OM&R SR/SRED SR/SRED SR/SRED SR/SRED SR/SRED	58.9 45.1 45.1 41.9 25.8 25.8 30.1 30.1 25.6 25.6 25.8	\$500,000		\$1,500,000			Wastew	st,200,000		\$18,000,000	\$190,000	\$16,000,000	\$420,000									\$30,000,0 \$2,000,0 \$18,000,0 \$190,0 \$420,0 \$2,300,0 \$2,300,0 \$1,200,0 \$1,200,0 \$10,000,0 \$140,0
Agat.Santa Rita STP Replacement Facilities Plan/Design for the Baza Gardens STP Replacement Baza Gardens STP Replacement Facilities Plan/Design for the Hagatna STP Improvements & Effluent WWPS Hagatna STP Improvements & Effluent WWPS Facilities Plan/Design for Inarajan STP Expansion Inarajan STP Expansion Facilities Plan/Design for the Northern District STP – Biosolids Northern District STP Expansion - Biosolids Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion - Biosolids Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion - Biosolids Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion Worthern District STP Expansion Worthern District STP Expansion Verthern District STP Expansion Verthern District STP Exponsion Verthern District STP Exponsion	RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/OM&R SR/OM&R RC/SR RC/SR RC/SR SR/SRED SR/SRED	58.9 45.1 45.1 41.9 25.8 25.8 30.1 25.6 25.6 25.6 25.8 25.8 25.8	\$500,000		\$1,500,000			Wastew \$30,000,000	ster Facilities		\$18,000,000	\$190,000 \$1,800,000	\$16,000,000	\$420,000									\$30,000,0 \$2,000,0 \$18,000,0 \$18,000,0 \$190,0 \$18,000,0 \$190,0 \$21,000,0 \$1,200,0 \$1,200,0 \$140,0 \$140,0 \$420,0
Agat-Santa Rita STP Replacement Facilities Plan/Design for the Baza Gardens STP Replacement Baza Gardens STP Replacement Facilities Plan/Design for the Hagatna STP Improvements & Effluent WWPS Hagatna STP Improvements & Effluent WWPS Facilities Plan/Design for Inarajan STP Expansion Inarajan STP Expansion Facilities Plan/Design for the Northern District STP – Biosolids Northern District STP Expansion Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion Facilities Plan/Design for the Northern Steriet STP Expansion Resulties Plan/Design for the Northern District STP Expansion Facilities Plan/Design for the Umatac-Merizo STP Improvements	RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED SR/SRED/SC SR/SRED/SC SR/OM&R SR/OM&R RC/SR RC/SR SR/SRED SR/SRED SR/SRED SR/SRED SR/SRED SR/SRED SR/OM&R SR/OM&R SR/OM&R	58.9 45.1 45.1 41.9 25.8 25.8 30.1 30.1 25.6 25.6 25.8	\$500,000		\$1,500,000		\$18,000,000	Wastew \$30,000,000 \$140,000	st,200,000		\$18,000,000	\$190,000 \$1,800,000 \$3,700,000	\$16,000,000	\$420,000	\$0	50	\$0	50	\$0		50	\$0	\$30,000,0 \$2,000,0 \$18,000,0 \$190,0 \$420,0 \$2,300,0 \$2,300,0 \$1,200,0 \$1,200,0 \$10,000,0 \$140,0
Agat-Santa Rita STP Replacement Facilities Plan/Design for the Baza Gardens STP Replacement Baza Gardens STP Replacement Facilities Plan/Design for the Hagatna STP Improvements & Effluent WWPS Hagatna STP Improvements & Effluent WWPS Facilities Plan/Design for Inarajan STP Expansion Inarajan STP Expansion Facilities Plan/Design for the Northern District STP – Biosolids Northern District STP Expansion Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion Facilities Plan/Design for the Umatac-Merizo STP Improvements Paga Socio STP Conversion	RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED SR/SRED/SC SR/SRED/SC SR/OM&R SR/OM&R RC/SR RC/SR SR/SRED SR/SRED SR/SRED SR/SRED SR/SRED SR/SRED SR/OM&R SR/OM&R SR/OM&R	58.9 45.1 45.1 41.9 25.8 25.8 30.1 25.6 25.6 25.6 25.8 25.8 25.8	\$500,000	\$600,000	\$1,500,000	\$2,600,000	\$18,000,000	Wastew \$30,000,000 \$140,000 \$30,140,000	\$1,900,000 \$1,200,000 \$1,200,000 \$420,000		\$18,000,000	\$190,000 \$1,800,000 \$3,700,000			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000,0 \$2,000,0 \$18,000,0 \$18,000,0 \$19,00,0 \$420,0 \$2,300,0 \$2,300,0 \$1,200,0 \$10,000,0 \$140,0 \$420,0 \$3,700,0
Agat-Santa Rita STP Replacement Facilities Plan/Design for the Baza Gardens STP Replacement Baza Gardens STP Replacement Facilities Plan/Design for the Hagatna STP Improvements & Effluent WWPS Hagatna STP Improvements & Effluent WWPS Facilities Plan/Design for Inarajan STP Expansion Inarajan STP Expansion Facilities Plan/Design for the Northern District STP – Biosolids Northern District STP Expansion Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion Facilities Plan/Design for the Worthern District STP Expansion Northern District STP Expansion Facilities Plan/Design for the Umatac-Merizo STP Improvements Umatac-Merizo STP Improvements Pago Socio STP Conversion Year Tota Electrical Upgrade - Water Booster Stations (Pago Bay, etc)	RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/OM&R RC/SR RC/SR SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R	58.9 45.1 45.1 41.9 25.8 25.8 30.1 30.1 25.6 25.6 25.6 25.8 25.8 25.8 25.8 25.8 25.8 38.1	\$500,000	\$600,000	\$1,500,000	\$2,600,000	\$18,000,000	Wastew \$30,000,000 \$140,000 \$30,140,000	xater Facilities \$1,900,000 \$1,200,000 \$420,000 \$3,520,000		\$18,000,000	\$190,000 \$1,800,000 \$3,700,000			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000,0 \$2,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$190,00 \$23,000,0 \$21,000,0 \$11,200,0 \$140,00 \$140,00 \$140,00 \$112,470,00 \$650,0 \$650,0
Agat-Santa Rita STP Replacement Facilities Plan/Design for the Baza Gardens STP Replacement Baza Gardens STP Replacement Facilities Plan/Design for the Hagatna STP Improvements & Effluent WWPS Hagatna STP Improvements & Effluent WWPS Facilities Plan/Design for the Northerm District STP – Biosolids Facilities Plan/Design for the Northerm District STP – Biosolids Northern District STP Expansion Facilities Plan/Design for the Northerm District STP expansion Northern District STP Expansion – Biosolids Facilities Plan/Design for the Northerm District STP Expansion Northern District STP Expansion – Biosolids Facilities Plan/Design for the Northerm District STP Expansion Northern District STP Expansion Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion Facilities Plan/Design for the Umatac-Merizo STP Improvements Umatac-Merizo STP Improvements Pago Socio STP Conversion Year Tota Electrical Upgrade - Water Booster Stations (Gayinero, etc)	RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/OM&R SR/OM&R SR/OM&R SR/SRED SR/SRED SR/SRED SR/SRED SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/SR	58.9 45.1 45.1 41.9 25.8 30.1 25.6 25.6 25.6 25.6 25.8 25.8 25.8 25.8 25.8 25.8 38.1 38.1	\$500,000	\$600,000	\$1,500,000 \$5,000,000 \$6,500,000	\$2,600,000	\$18,000,000	Wastew \$30,000,000 \$140,000 \$30,140,000	xater Facilities \$1,900,000 \$1,200,000 \$420,000 \$3,520,000		\$18,000,000	\$190,000 \$1,800,000 \$3,700,000			\$0	\$0	\$0	50	\$0	\$0	50	\$0	\$30,000,0 \$2,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$140,0 \$120,00 \$140,0 \$140,0 \$140,0 \$140,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,0 \$1400,
Agat-Santa Rita STP Replacement Facilities Plan/Design for the Baza Gardens STP Replacement Baza Gardens STP Replacement Facilities Plan/Design for the Hagatna STP Improvements & Effluent WWPS Hagatna STP Replacement s & Effluent WWPS Facilities Plan/Design for Inarajan STP Expansion Inarajan STP Expansion Facilities Plan/Design for the Northern District STP – Biosolids Northern District STP Expansion Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion Facilities Plan/Design for the Umatac-Merizo STP Improvements Umatac-Merizo STP Improvements Pago Socio STP Conversion Year Tota Electrical Upgrade - Water Booster Stations (Gayinero, etc.) Electrical Upgrade - Water Booster Stations (Other WBPS)	RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/OM&R SR/OM&R RC/SR RC/SR RC/SR SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/SR/SR/SR/SR/SR/SR/SR/SR/SR/SR/SR/SR/S	58.9 45.1 45.1 41.9 25.8 30.1 30.1 30.1 25.6 25.6 25.6 25.6 25.8 25.8 25.8 38.1 38.1 38.1	\$500,000 \$500,000 \$500,000 \$1,000,000 \$650,000	\$600,000	\$1,500,000	\$2,600,000	\$18,000,000	Wastew \$30,000,000 \$140,000 \$30,140,000	xater Facilities \$1,900,000 \$1,200,000 \$420,000 \$3,520,000		\$18,000,000	\$190,000 \$1,800,000 \$3,700,000			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000,0 \$2,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$190,0 \$420,0 \$2,300,0 \$1,200,0 \$1,200,0 \$1,200,0 \$1,200,0 \$1,200,0 \$140,0 \$140,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$1420,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140
Agat-Santa Rita STP Replacement Facilities Plan/Design for the Baza Gardens STP Replacement Baza Gardens STP Replacement Facilities Plan/Design for the Hagatna STP Improvements & Effluent WWPS Hagatna STP Replacement Facilities Plan/Design for the Hagatna STP Improvements & Effluent WWPS Facilities Plan/Design for Inarajan STP Expansion Inarajan STP Expansion Facilities Plan/Design for the Northern District STP – Biosolids Northern District STP Expansion Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion Facilities Plan/Design for the Umatac-Merizo STP Improvements Umatac-Merizo STP Improvements Pago Socio STP Conversion Year Tote Electrical Upgrade - Water Booster Stations (Gayinero, etc) Electrical Upgrade - Water Booster Stations (Other WBPS) Electrical Upgrade - Wet Wells	RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/OM&R RC/SR RC/SR SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/SR/SR/SR/SR/SR/SR/SR/SR/SR/SR/SR/SR/S	58.9 45.1 45.1 41.9 25.8 25.8 30.1 30.1 25.6 25.6 25.8 25.8 25.8 25.8 25.8 38.1 38.1 38.1 38.1	\$500,000 \$500,000 \$500,000 \$1,000,000 \$650,000 \$2,000,000	\$600,000	\$1,500,000 \$5,000,000 \$6,500,000	\$2,600,000	\$18,000,000	Wastew \$30,000,000 \$140,000 \$30,140,000	xater Facilities \$1,900,000 \$1,200,000 \$420,000 \$3,520,000		\$18,000,000	\$190,000 \$1,800,000 \$3,700,000			\$0	\$0	\$0	50	\$0	\$0	\$0	\$0	\$30,000,0 \$2,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$2,300,0 \$2,200,0 \$1,200,0 \$1,200,0 \$12,470,00 \$12,470,00 \$550,0 \$250,0 \$2,2000,0 \$2,2000,0
Agat-Santa Rita STP Replacement Facilities Plan/Design for the Baza Gardens STP Replacement Baza Gardens STP Replacement Facilities Plan/Design for the Hagatna STP Improvements & Effluent WWPS Hagatna STP Improvements & Effluent WWPS Facilities Plan/Design for the Northern District STP – Biosolids Facilities Plan/Design for the Northern District STP – Biosolids Facilities Plan/Design for the Northern District STP – Biosolids Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion – Biosolids Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion – Biosolids Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion – Biosolids Facilities Plan/Design for the Umatac-Merizo STP Improvements Umatac-Merizo STP Improvements Pago Socio STP Conversion – Year Tota Electrical Upgrade - Water Booster Stations (Gayinero, etc) Electrical Upgrade - Water Booster Stations (Other WBPS) Electrical Upgrade - Water Wells Electrical Upgrade - Water Senta Rata STP	RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED SR/SR/SRED SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/OM&R RC/SR RC/SR RC/SR SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SR/SRED/SC SR/SR/SRED/SC SR/SR/SR	58.9 45.1 45.1 41.9 25.8 25.8 30.1 25.6 25.6 25.6 25.6 25.8 25.8 25.8 25.8 25.8 25.8 38.1 38.1 38.1 38.1 38.1	\$500,000 \$500,000 \$500,000 \$1,000,000 \$650,000	\$600,000	\$1,500,000 \$5,000,000 \$6,500,000	\$2,600,000	\$18,000,000	Wastew \$30,000,000 \$140,000 \$30,140,000	xater Facilities \$1,900,000 \$1,200,000 \$420,000 \$3,520,000		\$18,000,000	\$190,000 \$1,800,000 \$3,700,000			\$0	\$0	\$0	50	\$0	\$0	50	\$0	\$30,000,0 \$2,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$190,00 \$420,0 \$12,000,0 \$1,200,0 \$1,200,0 \$1,200,0 \$1,200,0 \$1,200,0 \$140,0 \$140,0 \$112,4770,0 \$112,4770,0 \$350,0 \$250,0 \$250,0 \$250,0 \$240,0 \$3400,0 \$4400,0 \$3400,0 \$4400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$3400,0 \$340
Agat-Santa Rita STP Replacement Facilities Plan/Design for the Baza Gardens STP Replacement Baza Gardens STP Replacement Facilities Plan/Design for the Baza Gardens STP Improvements & Effluent WWPS Hagatna STP Improvements & Effluent WWPS Facilities Plan/Design for Inarajan STP Expansion Inarajan STP Expansion Facilities Plan/Design for the Northern District STP – Biosolids Northern District STP Expansion Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion Facilities Plan/Design for the Umatac-Merizo STP Improvements Umatac-Merizo STP Improvements Pago Socio STP Conversion Year Tota Electrical Upgrade - Water Booster Stations (Oayinero, etc) Electrical Upgrade - Water Weils Electrical Upgrade - Agat-Santa Rita STP	RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/OM&R RC/SR RC/SR SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/SR/SR/SR/SR/SR/SR/SR/SR/SR/SR/SR/SR/S	58.9 45.1 45.1 41.9 25.8 25.8 30.1 30.1 25.6 25.8 25.8 25.8 25.8 25.8 25.8 38.1 38.1 38.1 38.1 38.1 38.1	\$500,000 \$500,000 \$500,000 \$1,000,000 \$650,000 \$2,000,000	\$600,000	\$1,500,000 \$5,000,000 \$6,500,000	\$2,600,000	\$18,000,000	Wastew \$30,000,000 \$140,000 \$30,140,000	xater Facilities \$1,900,000 \$1,200,000 \$420,000 \$3,520,000		\$18,000,000	\$190,000 \$1,800,000 \$3,700,000			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000,0 \$2,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$2,300,0 \$2,300,0 \$1,200,0 \$1,200,0 \$1,12,470,00 \$420,0 \$3,700,0 \$112,470,00 \$420,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,0 \$2,50,00,00\$2,50,00\$2,50,00\$2,50,00\$2,50,00
Agat-Santa Rita STP Replacement Facilities Plan/Design for the Baza Gardens STP Replacement Baza Gardens STP Replacement Facilities Plan/Design for the Hagatna STP Improvements & Effluent WWPS Hagatna STP Improvements & Effluent WWPS Facilities Plan/Design for the Northern District STP – Biosolids Facilities Plan/Design for the Northern District STP – Biosolids Facilities Plan/Design for the Northern District STP Expansion Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion - Biosolids Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion Facilities Plan/Design for the Umatac-Merizo STP Improvements Umatac-Merizo STP Improvements Pago Socio STP Conversion Year Tota Electrical Upgrade - Water Booster Stations (Gayinero, etc) Electrical Upgrade - Water Booster Stations (Other WBPS) Electrical Upgrade - Water Wells Electrical Upgrade - Water Wells Electrical Upgrade - Water Sonta Rta STP	RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/OM&R SR/OM&R RC/SR RC/SR SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/SR LS/SR	58.9 45.1 45.1 41.9 25.8 25.8 25.8 25.8 25.6 25.6 25.6 25.6 25.8 25.8 38.1 38.1 38.1 38.1 38.1 38.1 38.1 38	\$500,000 \$500,000 \$500,000 \$1,000,000 \$650,000 \$2,000,000 \$400,000	\$600,000	\$1,500,000 \$5,000,000 \$6,500,000	\$2,600,000	\$18,000,000	Wastew \$30,000,000 \$140,000 \$30,140,000	xater Facilities \$1,900,000 \$1,200,000 \$420,000 \$3,520,000		\$18,000,000	\$190,000 \$1,800,000 \$3,700,000			\$0	\$0	\$0	\$0	\$0	\$0	50	\$0	\$30,000,0 \$2,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$140,00,0 \$140,00,0 \$112,470,00 \$112,470,00 \$112,470,00 \$2250,0,0 \$2250,0,0 \$2250,0,0 \$2200,0 \$240,0,0 \$240,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0 \$250,0,0,0 \$250,0,0 \$250,0,0,0 \$250,0,0 \$250,0,0,0 \$250,0,0,0 \$250,0,0,0 \$250,0,0,0 \$250,0,0,0,0,0,0 \$250,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
Agat-Santa Rita STP Replacement Facilities Plan/Design for the Baza Gardens STP Replacement Baza Gardens STP Replacement Facilities Plan/Design for the Hagatna STP Improvements & Effluent WWPS Hagatna STP Improvements & Effluent WWPS Facilities Plan/Design for Inarajan STP Expansion Inarajan STP Expansion Facilities Plan/Design for the Northern District STP – Biosolids Northern District STP Expansion Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion Facilities Plan/Design for the Umatac-Merizo STP Improvements Umatac-Merizo STP Improvements Umatac-Merizo STP Conversion Year Tote Electrical Upgrade - Water Booster Stations (Oayinero, etc) Electrical Upgrade - Water Booster Stations (Gayinero, etc) Electrical Upgrade - Agat-Santa Rita STP Electrical Upgrade - Agat-Santa Rita STP Electrical Upgrade - Mater Mells	RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/OM&R RC/SR RC/SR SR/SRED SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/SR LS/SR LS/SR LS/SR LS/SR LS/SR LS/SR	58.9 45.1 45.1 41.9 25.8 30.1 25.6 25.6 25.6 25.8 25.8 25.8 25.8 38.1 38.1 38.1 38.1 38.1 38.1 38.1 38	\$500,000 \$500,000 \$500,000 \$1,000,000 \$2,000,000 \$400,000 \$1,000,000	\$600,000	\$1,500,000 \$5,000,000 \$6,500,000 \$250,000	\$2,600,000	\$18,000,000	Wastew \$30,000,000 \$140,000 \$30,140,000	xater Facilities \$1,900,000 \$1,200,000 \$420,000 \$3,520,000		\$18,000,000	\$190,000 \$1,800,000 \$3,700,000			\$0	\$0	\$0	50	\$0	\$0	50	\$0	\$30,000,0 \$2,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$12,000,0 \$2,2300,0 \$12,400,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$140,0 \$150,0 \$12,470,0 \$150,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$10,0 \$
Agat-Santa Rita STP Replacement Facilities Plan/Design for the Baza Gardens STP Replacement Baza Gardens STP Replacement Facilities Plan/Design for the Hagatna STP Improvements & Effluent WWPS Facilities Plan/Design for the Hagatna STP Improvements & Effluent WWPS Facilities Plan/Design for the Northern District STP – Biosolids Facilities Plan/Design for the Northern District STP – Biosolids Facilities Plan/Design for the Northern District STP Expansion Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion – Biosolids Facilities Plan/Design for the Northern District STP Expansion Northern District STP Expansion – Biosolids Facilities Plan/Design for the Umatac-Merizo STP Improvements Umatac-Merizo STP Improvements Pago Socio STP Conversion Year Tota Electrical Upgrade - Water Booster Stations (Gaynero, etc) Electrical Upgrade - Water Booster Stations (Other WBPS) Electrical Upgrade - Water Booster Stations (Other WBPS) Electrical Upgrade - Baza Garden STP Electrical Upgrade - Baza Garden STP Electrical Upgrade - Lmatac-Merizo STP Electrical Upgrade - Umatac-Merizo STP Electrical Upgrade - Mater Booster ST Electrical Upgrade - Mater Booster	RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED SR/SR/SRED SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/OM&R RC/SR RC/SR RC/SR SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R LS/SR LS/SR LS/SR LS/SR LS/SR LS/SR LS/SR LS/SR LS/SR	58.9 45.1 45.1 41.9 25.8 25.8 30.1 25.6 25.6 25.6 25.8 25.8 25.8 25.8 25.8 38.1 38.1 38.1 38.1 38.1 38.1 38.1 38	\$500,000 \$500,000 \$500,000 \$1,000,000 \$650,000 \$2,000,000 \$400,000	\$600,000 \$600,000 \$600,000 \$350,000 \$1,900,000	\$1,500,000 \$5,000,000 \$6,500,000 \$250,000	\$2,600,000	\$18,000,000	Wastew \$30,000,000 \$140,000 \$30,140,000	xater Facilities \$1,900,000 \$1,200,000 \$420,000 \$3,520,000		\$18,000,000	\$190,000 \$1,800,000 \$3,700,000			\$0	\$0	\$0	\$0	\$0		\$0	\$0	\$30,000,0 \$2,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$19,000,0 \$190,00 \$420,0 \$12,000,0 \$1,200,0 \$1,200,0 \$1,200,0 \$1,200,0 \$1,200,0 \$1,200,0 \$1,200,0 \$1,200,0 \$1,200,0 \$1,200,0 \$1,200,0 \$1,200,0 \$1,200,0 \$1,200,0 \$1,200,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0 \$1,900,0
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Electrical Upgrade	RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R 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SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/OM&R SR/	58.9 45.1 45.1 45.1 41.9 25.8 30.1 30.1 25.6 25.8 25.8 25.8 38.1 38.1 38.1 38.1 38.1 38.1 38.1 38.1 38.1 38.1 38.1 38.1 38.1 38.1 38.1 38.1 38.1 38.1 36.3 16.3	\$500,000 \$500,000 \$500,000 \$1,000,000 \$2,000,000 \$400,000 \$1,000,000	\$600,000	\$1,500,000 \$5,000,000 \$6,500,000 \$250,000 \$300,000	\$2,600,000	\$18,000,000	Wastew \$30,000,000 \$140,000 \$30,140,000	xater Facilities \$1,900,000 \$1,200,000 \$420,000 \$3,520,000		\$18,000,000	\$190,000 \$1,800,000 \$3,700,000			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000,0 \$2,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$19,00,0 \$420,0 \$2,300,0 \$2,200,0 \$112,470,00 \$112,470,00 \$112,470,00 \$12,000,0 \$3,700,0 \$12,000,0 \$12,000,0 \$3,300,0 \$3,300,0 \$3,300,0 \$3,300,0 \$3,300,0 \$3,300,0 \$3,300,0 \$3,300,0 \$3,300,0 \$3,300,0 \$3,300,0 \$3,300,0 \$3,300,0 \$3,300,0 \$3,300,0 \$3,300,0 \$3,300,0 \$3,300,0 \$3,300,0 \$3,300,0 \$3,300,0 \$3,300,0 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Agat-Santa Rita STP Replacement Facilities Plan/Design for the Baza Gardens STP Replacement Baza Gardens STP Replacement Facilities Plan/Design for the Hagatna STP Improvements & Effluent WWPS Hagatna STP Improvements & Effluent WWPS Facilities Plan/Design for the Hagatna STP Expansion Inarajan STP Expansion Facilities Plan/Design for the Northern District STP – Biosolids Facilities Plan/Design for the Northern District STP Expansion Facilities Plan/Design for the Umatac-Merizo STP Improvements Umatac-Merizo STP Improvements Pago Socio STP Conversion Year Tote Electrical Upgrade - Water Booster Stations (Day Bay, etc) Electrical Upgrade - Water Booster Stations (Other WBPS) Electrical Upgrade - Agat-Santa Rita STP Electrical Upgrade - Agat-Santa Rita STP Electrical Upgrade - Jaca Garden STP Electrical Upgrade - Umatac-Merizo STP Wastewater Pumping Station Electrical Upgrade GWA SCADA System - Phase 1 GWA SCADA System - Phase 2	RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED/SC RC/SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED/SC SR/SRED SR/SRED SR/SRED SR/SRED SR/SRED SR/SRED SR/SRED SR/SRED SR/SRED SR/SRED SR/SRED SR/SRED SR/SRED SR/SRED SR/SRED SR/SRED SR/SRED SR/SR LS/SR LS/SR LS/SR LS/SR LS/SR LS/SR LS/SR LS/SR LS/SR LS/SR LS/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR SR/SR 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\$420,000 \$3,520,000		\$18,000,000	\$190,000 \$1,800,000 \$3,700,000			\$0	\$0	\$0	50	\$0	\$0	\$0	\$0	\$30,000,0 \$2,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$18,000,0 \$140,00 \$140,00 \$140,00 \$140,00 \$140,00 \$140,00 \$140,00 \$142,00 \$112,470,00 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 \$3,700,0 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¹ Cost based on (10% design, 5% Services during construction, 7% Construction Management, 50% Planning Level Adjustment)
 ² Costs are 2007 Dollars
 ³ Project Types: RC=Regulatory Compliance; SR=System Reliability; SRED=System Redundancy; SC=System Capacity; OMR=OM&R; LS=Life & Safety
 ⁴ Costs for design, planning, and construction of full treatment for GWUDI compliance; If filtration avoidance is allowed, total costs will be approximately \$5,000,000 after transmission lines are complete
 ⁵ Funded by Sewer Hock-up Revolving Fund
 ⁶ GWA may not be able to provide new sewers to existing customers without a connection fee. New legislation or alternative funding sources may be required.
 ⁷ Cost is an annual recurring cost to inspect and replace/rehabilitate the gravity and force main systems

APPENDIX A6



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APPENDIX A7

A Guide To Federal-Aid Programs And Projects: All Programs And Projects (Updated for SAFETEA-LU)

Section: Territorial Highway Program (THP) Updated April 20, 2007

A portion of the THP program includes Section 1103(b) of the Transportation Equity Act for the 21st Century (TEA-21, Public Law 105-178) continued the funding of the THP from the NHS funds, but provided a fixed amount of \$36.4 million each fiscal year rather than the one percent set-aside established in ISTEA.

Section 1103(b) of SAFETEA-LU amended 23 U.S.C. 104(b)(1)(A) to provide the following setaside of NHS funds for the THP for FYs 2005 through 2009:

FY	THP Authorization
2005	\$40,000,000
2006	\$40,000,000
2007	\$50,000,000
2008	\$50,000,000
2009	\$50,000,000

Under the provisions of section 1102(f) of SAFETEA-LU, the above authorized amounts will be reduced due to any obligation limitation imposed each year, as they were under TEA-21. In addition, the THP funds will continue to be allocated to the four territories using the same administrative formula that has been used since FY 1993: 1/10 each for American Samoa and the Northern Mariana Islands, and 4/10 each for Guam and the Virgin Islands.

Refer to the full guide for additional information.

APPENDIX A8

VEHICLE	SAFETY PROGRAM		
SECTION	PLAN TITLE	COVERED POLICIES AND PROCEDURES	ADDITIONAL ISSUES IN SSEP PROGRAM
	INITIAL TRAINING	 Agency Policies and Procedures Federal and State Guidelines and Regulations Pre and Post Trip Inspections Vehicle Familiarization Basic Operations and Maneuvering Special Driving Conditions Backing Bad Weather Boarding and Alighting Passengers Defensive Driving Course (DDC) Passenger Assistance Training – DRIVE Training On Road 	ADDITIONAL TRAINING TO ADDRESS SECURITY AWARENESS, REPORTING SUSPICIOUS ACTIVITY, REPORTS AND DOCUMENTATION, AND PRE AND POST TRIP INSPECTIONS
4	DRIVERS – ONGOING SUPERVISION AND TRAINING	 Training - refresher/retraining Evaluation and supervision Motor vehicle record checks Annual physical examination Safety meetings Seat-belt usage Discipline/recognition Preventable accidents/injuries 	 ADDITIONAL REFERSHER TRAINING AND "PROFICIENCY TESTS" FOR KNOWLEDGE OF EMERGENCY PROCEDURES ADDITIONAL RESPONSIBLITIES FOR SUPERVISION
5	EMERGENCY DRIVING PROCEDURES	 Emergency driving procedures Accident causes Slippery road surfaces Driving at night 	 EXPANSION OF EMERGENCY PROCEDURES TO INCLUDE ADDITIONAL SECURITY AND EMERGENCY CONDITIONS EXPANSION OF EMERGENCY PROCEDURES

VEHICLE	SAFETY PROGRAM		
SECTION	PLAN TITLE	COVERED POLICIES AND PROCEDURES	ADDITIONAL ISSUES IN SSEP PROGRAM
SECTION	IIILE	 Driving through water Driving in very hot weather Vehicle breakdowns and unavoidable stops Vehicle fire/evacuation Hold up/robbery Natural disasters Tornado Flood procedures - vehicle 	TO INCLUDE SUPPORT OF COMMUNITY RESPONSE TO A MAJOR EVENT OR EMERGENCY ➤ EMERGENCY TRAINING AND EXERCISING
6	PASSENGER SAFETY	 General guidelines Seat-belts Child safety seats Mobility device securement and passenger restraint systems Difficult passengers Medical condition First aid Bloodborne pathogens/infection control 	 EXPANSION OF PROCEDURES FOR MANAGING DIFFICULT PASSENGERS CLARIFICATIONS REGARDING FIRST AID AND BLOODBORNE PATHOGENS/INFECTION CONTROL
7	VEHICLES & EQUIPMENT	 Vehicles & equipment Preventive maintenance Program development Preventive maintenance needs Preventive maintenance program Format for preventive maintenance program for transit vehicles Master vehicle service and repair record – maintenance history 	 EXPANSION OF VEHICLE SECURITY PROCEDURES EXPANSION OF MAINTENANCE PROCEDURES FOR IDENTIFYING AND REPORTING VANDALISM, SUSPICIOUS SUBSTANCES, OR VEHICLE TAMPERING EXPANSION OF VEHICLE PROCUREMENT

VEHICLE	SAFETY PROGRAM		
SECTION	PLAN TITLE	COVERED POLICIES AND PROCEDURES	ADDITIONAL ISSUES IN SSEP PROGRAM
SECTION		 Preventive maintenance intervals A Level Inspection B Level Inspection C Level Inspection Pre & post trip inspections Emergency equipment on vehicles and usage Use of emergency equipment on vehicles Vehicle procurement Exterior Visibility Interior Vehicle safety in and around the shop or yard 	PROCEDURES TO ADDRESS SECURITY TECHNOLOGY
8	ACCIDENT MANAGEMENT	 Accident documentation packet Accident notification procedures – driver responsibility Accident investigation – management responsibility Accident investigation kit Reconstruction & analysis Drug and alcohol tests Media relations and crises communication after an accident 	 ADDITIONAL TOOLS FOR ACCIDENT DOCUMENT PACKET TO ADDRESS SECURITY ADDITIONAL TOOLS FOR MEDIA RELATIONS
9	INSURANCE CLAIMS AND	 Dealing with adjusters Dealing with attorneys – ours/theirs 	 ADDITIONAL CONSIDERATIONS FOR COVERAGE

VEHICLE	SAFETY PROGRAM PLAN	COVERED POLICIES AND PROCEDURES	ADDITIONAL ISSUES IN SSEP PROGRAM
SECTION	TITLE		
	LITIGATION MANAGEMENT		
10	DAY TO DAY OPERATIONS – MONITORING FOR SAFETY	 Record keeping Keeping informed Websites Publications 	ADDITIONAL REPORTS FOR SECURITY- RELATED INCIDENTS

APPENDIX A9

HC NO.	PROJECT TITLE	PROJECT NUMBER	DATE	STATUS	PROJECT ENGINEER
		c.	5/18/2007	Project accepted; final payment for vehicles processed. Change order being processed	
	Route 2 Agat , Emergency Installation		6/15/2007	This project has been accepted ; Final payment for the Vehicles has been processed; Documents for the Change Order is being processed.	
1	of 36" RCP Drainage Overflow Contractor: J.M.	GU-NH- 0002(103)	7/31/2007	This project is 100% completed. Pr oject Ejngineer completed the draft package documents of the C.O. # 1 (final) and forwarded to FHW Financial Coordinator.	Mary Rose Wilson
	Aquino /Tudor		8/31/2007	This project is 100% complete . A new package documents of the C.O. # 1 doc. Was resubmitted to the Director's office via Highway Division Manager for review and signature. Submitted doc. Of CO # 1 on July 30, 2007 was misplaced.	
			5/18/2007	Deductive change order approved; Contractors final payment being prepared	
	Route 4 Pago Bay		6/15/2007	Deductive change order has been approved; Contractors final payment being prepared	
2	Pavement Damage Restoration	GQ-ER- 04(006)	7/31/2007	finis piroject is 100% completed. On June 27, 2007- Constractors final payment was processed and forwarded to FHWA financial coordinator	Mary Rose Wilson
	Contractor: techni-Con Inc.		8/31/2007	This plroject is 100% completed. On June 27, 2007- Processed the constractors final payment was and forwar-ded to FHWA financial coordinator. To date, still waiting for FHWA to release the fund for the final payment.	
			5/18/2007	Project completed and accepted; final payment being prepared	
			6/15/2007	The project has been completed and accepted; Contractors final payment is being prepared.	
3	TMC Building Contractor: BCC	GU-NH- 1000(103)	7/31/2007	This plroject is 100% completed. Letter of Final acceptance is being prepared and contractor's final payment is being reviewed by t he project engineer.	Mary Rose Wilson
	N.		8/21/2007	This plroject is 100% completed. Letter of Final acceptance is being prepared and contractor's final payment was put on-hold for the remaining uncompleted punch list.	

Prepared by A. R. Deveza -HP

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Date Prepared: 09/11/07

Hanberger Huy. Drainage Isque - URP can they do Paving

HC NO.	PROJECT TITLE	PROJECT NUMBER	DATE	STATUS	PROJECT ENGINEER
			5/18/2007	100% design completed; Specifications prerpared under FP-96 and required to be upgraded (before 1 Aug)	
	Eng'g Priority # 2 Route 6 (Maina - Nimitz		6/15/2007	100% design complete; The Specifications was prerpared under FP- 96 and it's required to be upgraded to FP-03.	
4	Hill) Murray Road Embankment Restoration	GU-ER- 006A(102)	7/31/2007	This plroject is 100% design completed. July 19, 2007, contsultant submitted revised revised specification from FP-92 to FP-03. Transmittal letter for for the revised sprcification ot FHWA is be being prepared.	Mary Rose Wilson
	Contractor: GEO Engineering		8/21/2007	This plroject is 100% design complete. July 23, 2007, A copy of the revised specification was forwarded to the FHWA for review and comments Awaiting for the review/ comments of FHWA on the revised specification	
	Eng'g Priority # 2 Route 2A Emergency Restoration of Gautali Bridge and Embankment	rgency GU-NH-	5/18/2007	Consultant's contract agreement prepared, waiting for account to be established	Isidro
			6/15/2007	Consultant's contract agreement has been prepared; Just awaiting for the account # to be established	Duarosan
14			7/31/2007	6/29/07 - Ready to negotiate proposal but DBA proposed to resubmit a new fee proposal for the project;n mn07/05/07 - DBA resubmit fee proposal to DPW	Sagrado F. Bilong
			7/31/2007	Consultant's Purchase Order is being processed; 7/20/07 - NTP is expected to be issued.	
			8/21/2007	8/01/07 -NTP was issued to the consultant; 8/10/07 - DPW received dthe 60% desigh submittal; 8/15/07 - A copy of 60% dsign submittal was transmitted to FHWA for review and comments; 8/17/07 - Copies of 60% submittal were transmit-ted to GWA, GEPA, GTA & DLM for review & comments.	Dindo Orbong
10	Eng'g Priority # 2 Bile / Pigua Bridges	GU-NH- NBIS(003)	7/31/2007	Assisted design Engineers compiled field verification Assess-ments for Federal-Aid Highway Design Prjects on Field Inves-tigation, As- Built Drawings, Presentation drawings and Plan /Detail revision	Edgardo L. Tolentino
40	Bile / Pigua Bridges Temp. Rplmnt (Rte 4)	GU-NH- NBIS(004)	7/31/2007	Assisted design Engineers compiled field verification Assess-ments for Federal-Aid Highway Design Prjects on Field Inves-tigation, As- Built Drawings, Presentation drawings and Plan /Detail revision	Sagrado F. Bilong

Prepared by A. R. Deveza -HP

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Date Prepared: 09/11/07

HC NO.	PROJECT TITLE	PROJECT NUMBER	DATE	STATUS	PROJECT ENGINEER
	a.,		5/18/2007	Test Pit requirement from DPR received by DPW (FHWA mail) Construction scheduled to be advertised; Fee proposal final comments received on 05/25/07 from the DPW review committee	
			6/15/2007	Test Pit requirement from DPR was received by DPW thru FHWA mai); Construction scheduled to be advertised this month of June.	
41	Eng'g Priority # 2 Bile / Pigua Bridges Temporary	GU-NH- NBIS(004)	6/29/2007	Ready to negotiate fee proposal but DBA proposed to re-submit a new fee proposal for the project. On July 05/07, DBA resubmit fee proposal to DPW. On 7/13/07, DPW submitted SOW review comments to DBA.	Sagrado F. Bilong
	Replacement	11010(004)	7/31/2007	07/31/07 - DPW submitted SOW review comments to DBA	Direitg
	(Route 4)		8/21/2007	On 6/06/07, IFB for advertisement submitted to OOE/DPW Director for approval; 6/14/07, Advertisement at Marianas Variety Guam Edition and availability of documents; 6/21/07 was Pre-Bid conference and 7/03/07 was the Bid Opening; 7/12/07, DPW Director approved Bid Analysis and 7/12/07, DPW Director approved bid rejection letter to Maeda Pacific Corp.	
			5/18/2007	Waiting for approval of amendment #1(BBMR)	Arce
	Eng'g Priority # 2		6/15/2007	Amnedment # 1 is at the Governor's office for review and approval.	Fontbuena
	Route 4 Permanent Replacement of Agfayan Bridge		7/31/2007	7/3/07 - Amendment # 1 was approved by the Governor; 7/18/07 - NTP issued and kivkodd meeting w/ the Consultant to discuss Amendment # 1 SOW and acquiriing the entry permits for construction of the Bypass Bridge.	
46		N / A	8/21/2007	8/3/07 - DPW acknowledged receipt of the consultant 60% design submittals; 8/10/07 - Coonsultant had submitted Documentation for Categorical Excllusions; 8/20/07 - Copies of 60% design submittal were transmitted to DWA, DEPA, GPA, GTA and DLM for review and comments. Research by DPW for the Rights of Way documents to execute the required entry permit is in progress. Awaiting for the drawing from consultant to submit the design.	Dindo Orbong
	Eng'g Priority # 3 Route 4 As-Alonzo) Temporary	N/A	5/18/2007	Design awarded to DBA 03/15/2007; DBA Design fee proposal negotiation	Jeri Calaor
	9 As-Alonzo) Temporary Restoration of Pavement		6/15/2007	Design of this project awarded to DBA 03/15/2007; Awaiting for Duenas/Bordallo & Assoc. for Design fee proposal for negotiation	

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HC NO.	PROJECT TITLE	PROJECT NUMBER	DATE	STATUS	PROJECT ENGINEER
	Eng'g Priority # 3		7/31/2007	7/17/07 - The consultant csubmitted the design SOW and Fee Proposal; 7/20 - Tentative schedule for the Fee Prop. Negotiation.	
9	Route 4 As-Alonzo) Temporary Restoration of Pavement	N / A	8/21/2007	&/19/07 - DPW acknowledged receipt DBA's proposed De-sign SOW and Fee proposal; 7/23/07 - A copy of consultant design SOW w/ Fee proposal was transmitted to FHWA for review and comments; 08/07/07 - Govt. estimate was trans-mitted to FHWA for comments; To date, DPW is waiting for FHWA review and comments on the consultant's SOW and Fee Proposal; ROW research in progress by DPW; Nego-tiation and/or meeting w/ the consultant will be scheduled upon receipt of FHWA comments.	Mary Rose Wilson
			5/18/2007	Design awarded to DBA on Mar 15, 2007; Waiting for DBA design Fee Proposal negotiation	Dindo
	Eng'g Priority # 3 Route 15 (front of DOC)		6/15/2007	Design of this project was awarded to DBA on Mar 15, 2007; Awaiting for Duenas/Bordallo & Assoc. for Design fee proposal for negotiation.	Orbong
		GU-NH-	7/31/2007	7/17/07The consultant submitted the Design SOW and Fee Proposal to DPW; 7/20 - Tentative schedule for the Fee Prop. Negotiation.	
27	Damaged Roadway Restoration	0015(105)	8/21/2007	&/19/07 - DPW acknowledged receipt DBA's proposed De-sign SOW and Fee proposal; 7/23/07 - A copy of consultant design SOW w/ Fee proposal was transmitted to FHWA for review and comments; 08/07/07 - Govt. estimate was trans-mitted to FHWA for comments; To date, DPW is waiting for FHWA review and comments on the consultant's SOW and Fee Proposal; ROW research in progress by DPW; Nego-tiation and/or meeting w/ the consultant will be scheduled upon receipt of FHWA comments.	Marry rose Wilson
			5/18/2007	Pending contract documents to be re-packaged and readvertised for Invitation for Bid	
13	Eng'g Priority # 3 Islandwide School Zone	GU-NH-	6/15/2007	Pending contract documents to be re-packaged and readvertised for Invitation for Bid	Isidro
240.800	Signs	HE66(005)	7/31/2007	No reoort submitted	Duarosan
			8/21/2007	No reoort submitted	

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HC NO.	PROJECT TITLE	PROJECT NUMBER	DATE	STATUS	PROJECT ENGINEER
			5/18/2007	Design awarded to DBA 03/15/07; Waiting for DBA design fee proposal negotiation	
			6/15/2007	Design awarded to DBA 03/15/07; Waiting for DBA design fee proposal negotiation	
	Eng'g Priority # 3	GU-NH-	7/31/2007	7/17/07 - The consultant will submit the design SOW & Fee Proposal; 7/20/07 - Tentative schedule for Fee Proposal negotiation	Mark
34	Route 15 Temporary Restoration of Roadway	00015103)	8/21/2007	7/19/07 - DPW acknowledged receipt DBA's proposed design SOW and the Fee Proposal; 7/23/07 - A copy of consultant design SOW w/ Fee proposal was transmitted to FHWA for review & comments; 08/07/07 - Govt. estimate was trans-mitted to FHWA for comments; To date, DPW is waiting for FHWA review; To date, DPW is waiting for FHWA review and commentson the consultant SOW and Fee Proposal; Negotiation and/or meeting w/ consultant will be scheduled upon receipt of FHWA comments.	Abrincia
	Eng'g Priority # 3 Route 2 (Near Umatac Village) Replacement of 36" CMP to 36" RCP		5/18/2007	Design awarded to DBA 03/15/07 Waiting for DBA design fee proposal negotiation	
		GU-NH- f 0002102)	6/15/2007	Design awarded to DBA 03/15/07; Awaiting for DBA design fee proposal for negotiation	
33			8/21/2007	7/19/07 - DPW acknowledge receipt of DBA's proposed design SOW and Fee Proposal; 7/23/07 A copy of consultant's design SOW w/ Fee Proposal was transmitted to FHWA for review and comments; 8/07/07 - Government estimate was transmitted to FHWA for review; To date, DPW is waiting for FHWA review and comments on the consultants SOW and Fee Proposal; Negotiation and/or meeting with the consultant will be scheduled upon receipt of FHWA acomments	Mark Abrincia
10	Islandwide Run-Off Clean Up		5/18/2007	Pending PMT to review and finalize preliminary Scope of Work for construction prepared by DPW	
10	(Swale and Drainage Line)		6/15/2007	Pending awaiting for the PMT to review and finalize preliminary Scope of Work prepared by A/E Consultant.	Jeri Calaor
	Roadway Restoration	Ñ/A	5/18/2007	Waiting for DLM response - rights of way issues	Not
	(Design by DBA)		6/15/2007	Status Quo	Assigned

HC NO.	PROJECT TITLE	PROJECT NUMBER	DATE	STATUS	PROJECT ENGINEER
			5/18/2007	Consultant to submit 90% design by end of June 2007	
			6/15/2007	Consultant to submit 90% design submittal by the end of this month of June 2007; Awaiting for the response of DLM for rights of ways issues.	Jeri Calaor
8	Eng'g Priority # 5 Route 4 As-Alonzo area	N/A	7/31/2007	Consultant's 90% submittals were distributed to GWA,GPA, GTA, GEPA and ACOE for review and comments; ROW lissues is being coordinatd by the Land Agent Supervisor.	Dindo
			8//21/07	Awaiting for review comments from GWA, GPA, GTA, GEPA and ACOE on the Consultant 90% design submittal; 8/29/07 - A meeting w/ consultant is scheduled to discuss LM comments on the proposed Real State Survey Map and other issues.	Orbong
		GU-NH-	5/18/2007	Consultant fee proposal negotiationon hold. Awaiting for the PMT to review Scope of Work	
	Route 4 Jeff's Pirates Cove - Reconstruction and Widening Note: Highway Hazard Elimination Project		6/15/2007	Consultant fFe proposal negotiationon hold. Awaiting for the PMT to review Scope of Work	
5			7/21/2007	July 17, 2007, per DPW, followed up with the conultant for the submittal of the revised SOW and Fee Proposal.; The con-sultant elected to work with PMY if there is conflict with the AG's opinion/ recommendation for the PMT proposed Consultant Agreement.	Mary Rose Wilson
				8/21/2007	Per our telephone coversation with the consultant on 8/14/07, they are going to resubmit a revise SOW and the Fee Prosposal on the first week of September.
			5/18/2007	May-June - Consultant fee proposal negotiation on hold' Awaiting for the PMT to review Scope of Work	s.
	Route 14 Resurfacing,	GU-NH-	7/21/2007	July 17, 2007, per DPW, followed up with the conultant for the submittal of the revised SOW and Fee Proposal.	Mary Rose
6	Rehabilitation and Repaving	on and HE66(003)	8/21/2007	The consultant elected to work with PMY if there is conflict with the AG's opinion/recommendation for the PMT proposed Consultant Agreement; In 8/14/07, A lelecom meeting w/ the consultant was conducted; First week of September 2007, the consultant is scheduled to resubmit a revised SOW and Fee Proposal.	Wilson

HC NO.	PROJECT TITLE	PROJECT NUMBER	DATE	STATUS	PROJECT ENGINEER
			5/18/2007	Contractor refuses to sign deductive C.O.; Contractor's claim for additional cost rejected, Contractor to resubmit proposals for modi-fication of the median and theconstruction of parking lot drainage.	
7	Route 27A Reconstruction	GU-NH-	6/15/2007	Contractor refuses to sign deductive C.O.; Contractor's claim for additional cost rejected, Contractor to resubmit proposals for modi-fication of the median and theconstruction of parking lot drainage.	Jeri Calaor
	and Widening	027A(002)	7/21/2007	7/19/07 - Contractor submitted the Cost proposl for the raise median modification in front of Great Mart Store and correction of Lot's drainage system behind Great Mart Store; 7/23/07 - Negotiated the contractor's cost proposal for the two work items; 7/23/07 - Followed up on teh submittal of contractor's/consultant's justification for additional design cost.	
11	11Route 2 Reconstruction and Widening Route 2A to GWA Pump StationGU-NH- 0002(001)	GU-NH-	5/18/2007	Pending PMT review and finalizing of preliminary scope of work prepared by A/E consultant	
		0002(001)	6/15/2007	Pending, Awaiting for PMT to review and finalize the preli-minary design scope of work prepared by A/E consultant	Jeri Calaor
12	Inarajan North leg Bridge	GQ-ER-	5/18/2007	Waiting PMT to review and finalize preliminary Scope of Work prepared by DPW	
12	(As-Misa) Permanent Restoration	0004(110)	6/15/2007	Pending, awaiting for PMT to review and finalize preliminary Scope of Work prepared by DPW	Jeri Calaor
			5/18/2007	60% completed; continuing for the design on hold due to rights of way issues; waiting for the PMT to provide determination and direction	
45	Route 17 Reconstruction		6/15/2007	This project is 60% design complete; continuing for the design was put on hold due to rights of way issues; Awaiting for the PMT to review and provide determination and direction	Isidro
15	and Widening		7/30/2007	5/25/07-7/31/07 Still waiting for Project Mgt. Team ; 3/9/07 Met with PBS & J(Proj. Mgt. Team) and provide brief status of the project. ; 2/3/07 - Advised DPW that the PMT should continue the project. 8/8/06 - Design was on hold due to rights of ways issues; 4/3/06 - A/E Consultants submitted 60% Design.	Duarosan

HC NO.	PROJECT TITLE	PROJECT NUMBER	DATE	STATUS	PROJECT ENGINEER
			5/18/2007	Waiting for the PMT to review and finalize rpeliminary design scope of work prerpared by DPW	
		CLINIL	6/15/2007	Pending. Awaiting for the PMT to review and finalize rpeliminary design scope of work prerpared by DPW	
16	16 Ylig Bridge, Replacement of	GU-NH- 00043102)	7/30/2007	5/25/07-7/31/07 Still waiting for Project Mgt. Team ; 3/9/07 Met with PBS & J(Proj. Mgt. Team) amd provide brief status of the project. ; 2/3/07 - Advised DPW that the PMT should continue the project; 1/31/06 - Consultant submitted fee proposal, SOW for archaeological inventory and Environ-mental Baseline Study; 11/7/04 - Duenas Bordallo & Assoc. Inc was selected to do the job.	Isidro Duarosan
			5/18/2007	Waiting for the PMT to review and finalize the preliminary design scope of work	
17	17 Masso River Bridge	N /A	6/15/2007	Pending. Awaiting for the PMT to review and finalize preliminary design scope of work.	Isidro
			7/30/2007	6/29/07-7/31/2007 -Waiting fior PMT review and finalized Preliminary Design and SOW; 6/29/07 - Waitng for com-ments from FHWA; 3/27/07 Revised PS & E was sent to FHWA for comments. ; 1/16/07 - Submit PS & E to FHWA for comments.	Duarosan
		GU-NH- 003(104)	5/18/2007	Waiting for FHWA comments of the final design submittal; construction to the RRR	
18	Route 3, Reconstruction		6/15/2007	Awaiting for FHWA comments on the final design submittal; Construction to be downgraded to RRR	Isidro
10	and Widening		7/30/2007	6/29/07 -7/31/07 - Waiting for final review/comments from FHWA; 5/25/07 - Waiting for the PMT; Project design is 100% complete. DPW comments forwarded to Maeda. Waiting for final review/comments from FHWA and other agencies to be incorporated in the final design.	Duarosan
			5/18/2007	Waiting for the PMT to review and finalize preliminary scope of work preprared by DPW	
19	Aguada River Flow Restoration (Polaris		6/15/2007	Pending awaiting for PMT to review and finalize preliminary design Scope of work preprared by DPW	Rigolberto
	Point)		7/30/2007	Preliminary design SOW is being reviewed; A letter to FHWA requesting for approval to advertise is being prepared.	Diaz
			8/21/2007	On-hold Waiting for the PMT to review and finalize Preliminary design of SOW	

HC NO.	PROJECT TITLE	PROJECT NUMBER	DATE	STATUS	PROJECT ENGINEER
			5/18/2007	Comments pending from FHWA on 90% design (submitted) and from other GovGuam agencies	
20	Route 25 (Alageta Street) Reconstruction	GU-NH-	6/15/2007	Awaiting for the 90% design comments from FHWA and other gogernment agencies.	Rigolberto
20	and Widening	0025101)	7/31/2007	6/27/07 - Met with consultant and went through the review of the 35% desin submittal; 7/16/07 - DPW,GPA >A reviewed comments on the 35% design submittal were transmitted to the consultant; GEPA and GWA did not submit comments.	Diaz
			5/18/2007	Meeting (June 11, 2007) to discuss final scope of work; Army Corps of Engineers to submit to DPW, the revised SOW and the engineering cost estimate for the preparation of conceptual design, final design, and construction cost	
	Route 11 (Cabras Island) Seawall Protection	GU-NH- 0011() 7/3	6/15/2007	DPW, ACOE & PAG met on June 11, 2007 for the final SOW. Engineering cost estimate for the preparation of Conceptual Design, Final Design and Construction Cost of the projrct.	Rigolberto
21			7/31/2007	6//11/07 - DPW,ACOE & PAG met for the final SOW; ACOE submitted revised SOW and Engineering Cost Estimate for the prepartation of the Conceptual Design; Final Design and Construction cost oof the project.	Diaz
			8/21/2007	7/26/07 - Received ACOE's letter recommending the desisgn of a rock revetment for the proposed restoration; FHWA and DPW Deirector recommended the construction lof a Seawall Toe Protection not the Single/Double layer rock revetment	
N.1	Route 8-10-16 Intersec- tion Reconstruction; Traffic Signalization Up- grade and GMF Inter- section Improvement		8/21/2007	Consultant Scope of Work and Fee Proposal is being reviewed by DPW and government estimate is being prepared.	Dindo Orbong
N.2	Route 4 As-Alonzo area Roadway Resto- ration (Under Design Duena & Bordallo)		8/21/2007	Awaiting for the review/comments form GWA, GPA, GTA, GEPA and ACOE; 8/29/07 - A meeting with the consultant is scheduled to discuss LM comments on the proposed Real Estate Survey Map and other issues,	Dindo Orbong

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HC NO.	PROJECT TITLE	PROJECT NUMBER	DATE	STATUS	PROJECT ENGINEER
			5/18/2007	Bid items reconciliation prepared - 60% completed; Meeting with contractor to discuss remaining work issues and problem scheduled on June 29, 2007	
			6/15/2007	Bid items reconciliation prepared - 60% completed; Meeting with contractor to discuss remaining work issues and problem scheduled on June 29, 2007	
22	22 Roure 4 Yona, Reconstruction and Widening (Yona to Ylig Bridge)	GU-NH- 0004101)	7/31/2007	Preparation of the Bid Items Reconcilation is about 65% completed; 6/29/07 Met w/ contractor and discussed Bid Items Reconciliation, remaining work and issues; 7/3007 - Scheduled a 2nd reeting w/ the contractor to discuss the prepared Bid Items Reconciliation and remaining work.	Rigolberto Diaz
		đ	8/21/2007	Reconciliation of pay items that includes completed, uncom-pleted and deficiencies in corrdination w/ the contractor still in progress; Field verification and as-build for the pay items to be scheduled upon completion of coordination w/ the contractor.	
		GU-NH- 0001115)	5/18/2007	Waiting for the Pre-final FHWA and GEPA comments. Public hearing required to finalize design	
23	Route 1 Drainage Disposal System (Route		6/15/2007	Awaiting for the Pre-final review comments from FHWA and GEPA. Public hearing required to finalize design.	Rigolberto Diaz
23	10A to Route !6		7/31/2007	Awaiting for the Pre-final review comments from FHWA and GEPA. Public hearing required to finalize design.	
			8/21/2007	Awaiting for review comments from FHWA and GEPA on the Pre-final submittal. Public hearing required to finalize design.	
	1		5/18/2007	100% completed; Change order #2 being prepared (price adjustment due to changes in SOW. New account number to be established for CO # 2	
25	Northern Potholes Restoration - Primary	PR-5-001-TER / GU-NH-	6/15/2007	STATUA QUO	Dindo
	Roads	HE66(104)	7/31/2007	This project is 100% completed; C.O. # 2 (Final) Price Adjustment required due to the extrem reduction of pay item quantityies in the original SOW which was being prepared,	Orbong
HC NO.	PROJECT TITLE	PROJECT NUMBER	DATE	STATUS	PROJECT ENGINEER

25	Northern Potholes Restoration - Primary Roads	HE66(104)	8/21/2007	This project is 100% completed; 8/21/07 - Prepared packaged of C.O. # 2 (Fina) for price Adjustment required due to the extrem reduction of pay item quantityies in the original SOW was forwarded to the Director's Office via Highway Division Manager for review and signature	Dindo Orbong
			5/18/2007	Final inspection scheduled - June 27, 2007; Change order #2 being prepared due to changes in SOW New account number being established for CO # 2	
	Southern Potholes	PR-5-002-TER	6/15/2007	Final inspection scheduled - June 27, 2007; Change order #2 being prepared due to changes in SOW New account number being established for CO # 2	
26			7/31/2007	This project is 100% completed; C.O. # 2 (Final) Price Adjustment required due to the extrem reduction of pay item quantityies in the original SOW which was being prepared,	Dindo Orbong
		u.	8/21/2007	This project is 100% completed; 8/21/07 - Prepared packaged of C.O. # 2 (Fina) for price Adjustment required due to the extrem reduction of pay item quantityies in the original SOW was forwarded to the Director's Office via Highway Division Manager for review and signature	
	N. 19		5/18/2007	5/18/07-6/15/07 - Construction survey stake out in progress; DPW holding building permit. Construction drawings required stamp of Guam licensed engineer	
28	Seashore Protection	W9128A-06- B-0008	7/31/2007	Building permit on hold, awaiting Peals Board to issue the Guam License for two (2) Hawaii Engineers to stamp the Construction Plans; Contractor's dump truck capacity of 20 to 24 Tons have concern traversing Ylig Bridges; A letter to the contractor informing the limited capacity of the Ylig Bridge of 15 Tons per 2004 Bridge Inspection Report of FHWA is being prepared.	Dindo Orbong
			8/21/2007	8/16/07 - Building permit was issued to the contractor; ACOE was informed about Ylig Bridge 15 Tons limited capacity . A copy 9f the 2004 FHWA Engineers Bridge Inspection report was provided; ACOE instructed DPW not to mention about the limited capacity of the bridge and the alternative route.	

HC NO.	PROJECT TITLE	PROJECT NUMBER	DATE	STATUS	PROJECT ENGINEER
			5/18/2007	Prliminary design SOW to be prepared. Waiting for PMT	Danny
29	Route 2 Design and Construction for the	N/A	6/15/2007	Prliminary design SOW is being prepared.	Galiza
29	Permanent Drainage System	N/A	7/21/2007	No report submitted	Mark
			8/21/2007	On hold, awaiting fo r the PMT.	Abrincia
			5/18/2007	60% design submittal prerpared by the consultant; Land acquisition required to complete the 3 lane road design	Danny
30 Route 26 Reconstru and Widening	ж. Ж		6/15/2007 60% design submittal is being prerpared by the consultant; Land acquisition is required to complete the 3 lane road design		Galiza
	Route 26 Reconstruction and Widening		7/31/2007	7/16/07 - Follow-up on consultant 60% design submittal; 7/19/07 - Consultant to submit severance map, prepared by the ssurveyor for the property that requires Land Acquisition to coomplete the 3-Lane Road design.;	
			8/21/2007	8/6/07 - The consultant, (Serisola & Associates, Inc.) to submit their 65% submittal; 8/10/07 - DPW and consultant met and discussed the status of the design and the acqui-sition of the two private property lots; 0n 8/23/07, the con-sultant is schuled to submit the 60% design submittal.	Mark Abrincia
			5/18/2007	Waiting for the PMT to review and finalize the design SOW	Danny
			6/15/2007	Awaiting for the PMT to review and finalize the design SOW	Galiza
31	Route 4 Rehabilitation and Widening (McDonald to Rt. 10)	Widening N / A 6/3 Donald to Rt. 10)	6/30/2007	BBMR approved the contract document on 6/8/07; AG's approved Doc. Contract on 6/20/07; On 6/29/07 awaiting for Governor's approval;	Sagrado
			7/1/2007	7/21/07, Contract Document registered at DOA, Div. Of Accounts on7/11/07.	Bilong
			8/21/2007	On hold awaiting for the PMT	

HC NO.	PROJECT TITLE	PROJECT NUMBER	DATE	STATUS	PROJECT ENGINEER
			5/18/2007	Waiting for the PMT to review and finalize the design SOW prepared by DPW	
			6/15/2007	Waiting for the PMT to review and finalize the design SOW prepared by DPW	
32	Route 10A 32 Reconstruction and Widening Widening		7/30/2007	2/10/05 - Pre-Proposal Conference was conducted; 03/09/05 - E/A firm evaluation was conducted; 07/07/06 - Scoping meeting w/ E/A was conducted; 02/03/07 - FHWA advised DPW that PMT will continue the project; 03/09/07 - Met w/ PBS & J (PMT) and provide bried status of the pro-ject; 5/25/07-06/29/07, still waiting for the PMT; 7/14/07 - Email fr. the director to rejuvenate the original contract; 7/16/07 - Re-ceived revised SOW from DBA; 7/17/07 - Re-ceived email from Richelle (FHWA) to negotiate the contract w/ DBA to perform topographic survey, environmental coor-dination and documentation and conceptual design.	Danny Galiza
			5/18/2007	Waiting for PMT to review and finalize the preliminary SOW prepared by DPW	
35	Route 2 Umatac Embankment	GQ-ER-	6/15/2007	Awaiting for PMT to review and finalize the preliminary SOW prepared by DPW	Mark
	Restoration	0002(102)	7/31/2007	Preliminary SOW is being reviewed and updated.	Abrincia
			8/21/2007	On-hold . Awaiting for PMT to review and finalize the preliminary Scope of Work prepared by DPW.	
	a.		5/18/2007	ROW survey completed; Survey (ROW) reveals discrepancies; Waiting for PMT to resolve ROW issues and finalize design SOW	
			6/15/2007	ROW survey completed; Survey (ROW) shows discrepancies; Pending; Awaiting for PMT to resolve ROW issues and finalize design SOW	8
36	Route 15 Reconstruction and Widening (Route 26 to Route 29)	GU-NH- 0015(103)	7/31/2007	ROW survey completed; Survey ROW alignment shows dis-crepancey but w/in the tolerable limit to preceed w/ the pro-posed road widening; Pending for review and finalization of the design SOW.	Mark Abrincia
	* * *	2	8/21/2007	ROW survey completed; Survey ROW alignment shows dis-crepancey but w/in the tolerable limit to preceed w/ the pro-posed road widening; Pending for review and finalization of the design SOW.	

HC NO.	PROJECT TITLE	PROJECT NUMBER	DATE	STATUS	PROJECT ENGINEER
			5/18/2007	Negotiation of the consultant's fee on hold; Waiting for PMT to review and finalize SOW	
	Route 29 (Gayinero	GU-NH-	6/15/2007	The negotiation of the consultant's fee proposal was put on hold; Awaiting for the PMT to review and finalize SOW	
37	Road) Reconstruction and Widening	029(101)	7/31/2007	7/17/07 - DPW contacted the consultant to submit an updated Fee Proposal and SOW for the project.	Mark Abrincia
			8/21/2007	8/8/07 - Met w/ the consultant and discussed the updated status.; 9/6/07 - The consultant is rescheduled to resubmit the proposed SOW and Fee Proposal for review.	
	Route 4 Reconstruction and Widdening (Route 1 GU-NH-	5/18/2007	Contract forwarded to BBMR for review and signature	Sagrado F.	
38	38 to Mcdonald) Design- Build		6/15/2007	May 24, 2007, The contract Document was forwarded to BBMR for review and signature.	Bilong
	Route 4 Rehabilitation & Widdening (Fr. Mc Donald to Route 10)	N / A	8/21/2007	O n-Hold, Awaiting for PMT	Mark Abrincia
			5/18/2007	Comments from GPA, GTA, and NAVFAC received and forwarded to consultant to integrate; Consultant working on the final design submittal	
39	Route 5 and portions of Route 12 Reconstruction and Widening	CLINH	6/15/2007	Review comments from GPA, GTA, and NAVFAC were received and forwarded to consultant to integrate; The Consultant is working on the final design submittal.	Sagrado
			7/1/2007	On 6/18/07-DPW submitted 100% pre-final review comments from NSVPAC and GPA; 6/28/07- GTA transmitted100% Pre-final review comments to DPW; 6/29/07- E & A Engineers, consultant submitted sketch plan for proposed ponding basin (encroaching into navy property); 7/28/07- Awaiting review comments from EPA for 100% Pre-final submittal.	Bilong

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HC NO.	PROJECT TITLE	PROJECT NUMBER	DATE	STATUS	PROJECT ENGINEER	
			5/18/2007	Rights of Way being researched. 60 feet wide ROW not initialed		
			6/15/2007	Rights of Way being researched. 60 feet wide ROW not initialed		
42	2 Route 14B Ypao Road Reconstruction and Widening GU-NH- 0014B(001)		7/31/2007	7/01/07- DPW is still awaiting ROW certification, results of govt. rresearch for ROW ownership and prescriptive rights from Margarita Borja, DPW's Land Agent Supvr for ROW. 7/13/07 - The govt. must prove to have the five elements to acquire land by prescription accdg. to the AG's opinion such as: 1) Actual possession, 2) possession is exclusive, 3) possession is adverse, 4) possession continued fo for 20 yrs. 5) claimant has paid taxes for the last 5 yrs. Ms. Borja's research of the lots involoved is critical to the decision of the govt. whether to proceed with the road widening. It would be useless to proceed with the design if the govt. can't construct the project. The last communication with her was she believed even at the beginning of the project, the govt. does not seem to have clear possession.	Pedro Marquez III	
		GQ-ER- 022(018)	5/18/2007	FHWA concurrence to award		
43	Tinaga (Pauliloc) Bridge Permanent Restoration		6/15/2007	Bid opening conducted 05/31/07; Waiting for contractor's bid confirmation ; Bid Analysis to the forwarded to FHWA for review and concurrence	Pedro Marquez III	
			7/30/2007	DPW's acceptance of low responsive bid (issuance of Intent to Award wason 7/10/07; DPW receved the contractors performance and payment bonds on 7/24/07.		
			5/18/2007	FHWA concurrence to award	9	
44	Santa Rita (Bordallo) Bridge Permanent	GQ-ER-	6/15/2007	Bid opening conducted on 05/31/07 Waiting for FHWA's concurrence to award the project	Pedro	
	Restoration	22(020)	7/30/2007	7/3/07-DPW's acceptance of low responsive bid (issuance of Intent to Award); 7/11/07-DPW receives contractor's Performance and Payment Bond; 7/19/07- Execution of Contract by DPW Cetifying Officer.	Marquez III	

HC NO.	PROJECT TITLE	PROJECT NUMBER	DATE	STATUS	PROJECT ENGINEER
			5/18/2007	FHWA NonConcurrence to award	_
45	Route 4 Manell Channel (Barcinas Area)	GU-NH- 004(008)	6/15/2007	A re-selection of A/E Consultant is to be conducted.; Previous selection was not conducted according to FHWA requirements	Pedro Marquez III
	Led Traffic Signal Conversion Program Phase 1 (AAFB Front Gate to ITC Int.)	GU-NH- 1000(019)	7/30/2007	Assisted design Engineers compiled field verification Assess-ments for Federal-Aid Highway Design Prjects on Field Inves-tigation and Plan /Detail revision	Edgardo L. Tolentino
	Islandwide School Zone Signs- Safety Improvement Project	GU-NH- HE66(005)	7/30/2007	7/31/07 - Waiting for the return of the complete bid files; 7/16/07 - Draft cancellation letter. To wait for the complete bid files and to find out the reason for cancellation; 7/09/07 - Requested the return of the complete bid files from Ms. Liberty A. Perez Former CIP Chief Engineer; 6/29/07 - Sent a letter to the contractor notifying that project was cancelled and to have it rebidded. Bid Doc. to be revised and re-packaged.; 2/03/07 - Met with FHWA to re-package and re-bid the projjedt.; 10/06/07 Bid Opening; Two companies bid on the project (Hub Tech and Highway Safety Services.)	Isidro C. Duarosan
	Route 2, Agat - Umatac Landslide	N / A	7/31/2007	Deductive Change Order # 2 is being processed.	Dindo Orbong
	Route 2, Agat Roadway Reconstruction	N / A	8/21/2007	On hold, Awaiting fo r the PMT.	
	Route 2, Umatac 7/31/2007 Prelimina		7/31/2007	Preliminary SOW is being reviewed and updated.	N.
	Embankment Restoration (Cetti Bay)	N / A	8/21/2007	On-Hold, Awaiting for the PMT to review and finalize the Preliminary Scope of Work prepared by DPW.	Mark Abrincia

Installation of Tra	ne Signai		
Traffic Signal Construction Schedule	QTY	Days	Total
Concrete Pole Foundation			
Excavation	4	3	12
Reinforcement Bar	4	3	12
Concrete Form	4	3	12
Concrete Placement	4	1	4
Conduit	4	3	12
TOTAL:			52
Concrete Controller Foundation			
Excavation	1	2	2
Reinforcement Bar	1	2	2
Concrete Form	1	1	1
Concrete Placement	1	1	1
Conduit	1	1	1
TOTAL:			7
Wiring			
TYPE - I & 2 Traffic Pole			
Excavation	4		0
Conduit	4	2	<u>8</u> 8
Wiring	4	4	16
Concrete Encasement	4	3	10
Termination	4	2	8
TOTAL:			52
TOTAL.	· · · · · · · · · · · · · · · · · · ·		32
Loop Installation			
Cutting	8	1	8
Wiring	8	1	8
Sealant	8	1	8
Excavation	8	1	8
TOTAL:		· · · · · ·	32
Testing		<u> </u>	·····
Controller	1	4	4
TOTAL:			Sec. 4 1.
Traffic Pole			· · · · · ·
Shipping	1	30	30
Delivery	1	3	3
TOTAL:			33
		; ;	
-			
Calendar Days	7.5 Months		180

Installation of Traffic Signal

TASK	DESIGN	No.of Days
	Site Investigation & Basis of Design	
	a. Topographic	20
	b. Cadastral Surveying	15
	c. Traffic Count	10
	d. Geotechnical Investigation	15
-	Total:	60
	Department of Public Works	
	a. Review	15
	Total:	15

	(35%) Conceptual P,S & E	
	a. Title Sheet	2
	b. Typical Section	4
	c. Plan & Profiles	4
	d. Intersection Geometry and Channelization	4
	e. Drainage System upgrades	4
-	f. Geothechical Report	2
	g. Miscellaneous Detail	4
	h. CATEX	9
	Total:	36
	Department of Public Works	
	a. Review	15
	Total:	15

	(60%) Preliminary P,S, & E	
	a. Title Sheet	1
	b. Typical Section	2
	c. Plan & Profiles	. 2
	d. Intersection Geometry and Channelization	2
	e. Preliminary Control Plan	2
	f. Drainages System Upgrades	4
	g. Design Calculation	2
	h, Specification & Estimate	9
	i. Details of Utilities needing realignment	2
	i. Miscellaneous Detail	4
S.	Total:	30
	Department of Public Works	
	a. Review	15
	Total:	1

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DESIGN COST ESTIMATE EACH LOCATION \$ 250,000.00

Total:

- 4 4 4 0 0 -

a. Plans b. Special Provision c. Construction Cost Estimate d. Quantity take-offs and computation sheet e. Design Analysis & Computation f. Construction Schedule g. Design Narrative

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			UKUDU HIG	H SCHOOL				ADACAO ELE	M. SCHOOL	
ITEM	Unit	QTY	Unit Cost	Total	No.of Days	Unit	QTY	Unit Cost	Total	No.of Days
Mobilization.	LS	1	\$ 45,000.00		12	LS	. 1	\$ 25,000.00	\$ 25,000.00	12
Soil Erosion Control	LS	1	\$ 12,000.00	\$ 12,000.00	3	LS	1	\$ 6,000.00	\$ 6,000.00	3
Watering fo Dust Control.	CY	1333	\$ 3.00	\$ 3,999.00		CY	222	\$ 3.00	\$ 666.00	0
Removal of Obstruction (Guardrail, Signs, Pavement Markers/ Markings and Other Obstructions to Complete the Work).	LS	1	\$ 8,500.00	\$ 8,500.00	3	LS	0	\$ 8,500.00	s -	0
Roadway Excavation.	CY	1333	\$ 45.00	\$ 59,985.00	20	CY	222	\$ 45.00	\$ 9,990.00	7
Aggregate Base, Grading "C", 8" Depth.	SY	5066	\$ 45.00	\$ 227.970.00	10	SY	666	\$ 45.00		7
Subbase, Grading "A", 12" Depth.	SY	5066	\$ 35.00	\$ 177,310.00	10	SY	666	\$ 35.00		7
Hot Asphalt Concrete Pavement Class "A", Type II Pavement Smoothness, 3" Depth.	SY	0	\$ 65.00		0	SY	666	\$ 65.00		2
Hot Asphalt Concrete Friction Course, 3/4" Depth.	SY	5066	\$ 35.00	\$ 177.310.00	2	SY	3333	\$ 35.00	\$ 116,655.00	2
Tack Coat, Grade SS-1.	SY	5066	\$ 3.00	\$ 15,198.00	1	SY	3333	\$ 3.00	\$ 9.999.00	1
Plain Portland Cement Concrete Pavement, 8 Inches Depth	SY	5066	\$ 120.00	\$ 607,920.00	10	SY	0	\$ 120.00	\$ -	o i
Plain Portland Cement Concrete Pavement, 2 Inches Depth	SY	0	\$ 35.00	\$ -		SY	0	\$ 35.00	\$ -	0
Portland Cement Concrete Curb, 21" Depth	LF	0	\$ 45.00	\$ -		LF	0	\$ 45.00	\$-	
Guardrail System	LF	400	\$ 20.00	\$ 8,000.00	7	LF	0	\$ 20.00	\$ -	· 0
Sign Installation, Type II (Single Facing)	EA	6	\$ 850.00	\$ 5,100.00	6	EA	6	\$ 850.00	\$ 5,100.00	6
Sign Installation, Type II (Two Facing)	EA	6	\$ 850.00	\$ 5,100.00	6	EA	6	\$ 850.00	\$ 5,100.00	6
Pavement Markings Type "H", 12" Wide, White or Yellow.	EA	800	\$ 4.00	\$ 3,200.00	7	EA	800	\$ 4.00	\$ 3,200.00	7
Pavement Markings Type "H", 4" Wide, White or Yellow.	SY	222	\$ 2.00	\$ 444.00	7	SY	222	\$ 2.00	\$ 444.00	7
Raised Pavement Markers, Type "A".	EA	0	\$ 6.00	\$ -		EA	. 0	\$ 6.00	\$ -	0
Raised Pavement Markers, Type "CR".	EA	50	\$ 6.00	\$ 300.00	2	EA	50	\$ 6.00	\$ 300.00	2
Raised Pavement Markers, Type "YY".	LS	300	\$ 6.00	\$ 1,800.00	2	LS	300	\$ 6.00	\$ 1,800.00	2
Pavement Markings, Directional Arrows, Single.	EA	18	\$ 85.00	\$ 1,530.00	2	EA	22	\$ 85.00	\$ 1,870.00	2
Pavement Markings, Directional Arrows, Double.	EA	0	\$ 85.00	-		EA	0	\$ 85.00	\$-	
Barricade Type I, 8' Long.	EA		\$ 100.00	\$ -		EA		\$ 100.00	\$ -	
Barricade Type II, 8' Long.	EA		\$ 100.00	\$ -		EA		\$ 100.00	\$-	
Cone Plastic Delineator, 28" High With 2-4" Retroreflective Band.	EA .	36	\$ 15.00	\$ 540.00	7	EA	. 36	\$ 15.00	\$ 540.00	2
Construction Signs.	EA	2	\$ 1,500.00	\$ 3,000.00	7	EA	2	\$ 1,500.00	\$ 3,000.00	2
Warning Light, Flashing Type "A", Low Intensity.	EA	8	\$ 150.00	\$ 1,200.00	7	EA	8	\$ 150.00	\$ 1,200.00	2
Temporary Markers Flexible Body.	EA	100	\$ 65.00	\$ 6,500.00	7	EA	100	\$ 65.00	\$ 6,500.00	2
TRAFFIC SIGNAL Installation	LS	1	\$ 246,500.00	\$ 246,500.00	1	LS ·	· 1	\$ 246,500.00	\$ 246,500.00	1
Construction Signs, Portable Changeable Massage.	EA	8	\$ 180.00	\$ 1,440.00	7	EA	́ 8	\$ 180.00	\$ 1,440.00	2
DESIGN SERVICES	LS	1	\$ 145,000.00	\$ 145,000.00	210	LS	1	\$ 145,000.00		2
Construction Survey and Staking	LS	1	\$ 20,000.00	\$ 20,000.00	30	LS	1	\$ 20,000.00		15
Construction Testing	LS	1	\$ 15,000.00	\$ 15,000.00	30	LS	. 1	\$ 15,000.00		30
Adjust Water Valve Box	LS	1	\$ 450.00	\$ 450.00		LS	1	\$ 450.00		0
Temporary Traffic control	LS	1	\$ 15,000.00	\$ 15,000.00	7	LS	· · · 1	\$ 15,000.00	\$ 15,000.00	7
Field Office	LS	1	\$ 8,000.00	\$ 8,000.00	1	LS	- 1	\$ 8,000.00		1
GRAND TOTAL \$ 2,568,620.00	Ster 200		TOTAL	\$ 1,823,296.00	424	2.5		TOTAL	\$ 745,324.00	139

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<u>New Project</u>

- Route 17 Culvert
- Route 2 Agat Permanent fix for Emergency Installation of 36" drainage culvert
- Route 2 Agat-Umatac Cetti Bay
- Route 1 Median Extension/Fencing by Skate Park

Attempted In-house Design

- Route 2 Umatac Culvert
- Route 15 in front of DOC
- Route 15 Tan Robit
- Route 4 Merizo Shoreline Protection
- Route 1 Wusstig Road Traffic Signal Installation D/B Advertisement Cancelled

Under Design by Consultant

- Route 2A Gautali Bridge Duenas Bordallo & Associates (DBA)
- Route 4 Bile/Pigua Bridge DBA
- Route 4 Agfayan Bridge Winzler & Kelly (WK)
- Route 8/16/10 Tri Intersection WK
- Route 8 National Guard Intersection WK
- Route 10A DBA
- Rte 6A Murray Road Embankment GeoEngineering
- Route 4 As-Misa Bridge NC Macario & Associates
- Route 4 Ylig Bridge DBA

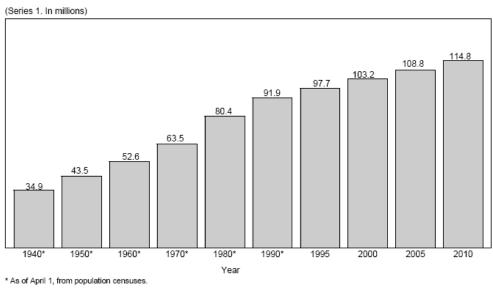
Other Needed Project

• Tiyan Parkway

Projections of the Number of Households and Families in the United States: 1995 to 2010, U.S. Bureau of the Census, Current Population Reports, P25-1129, U.S. Government Printing Office, Washington, DC, 1996. By Jennifer Cheeseman Day

Examples of U.S. Household projections

Figure 1. Number of Households: 1940 to 2010



Source: Table C.

Table D. Average Annual Percent Change in Households: 1940 to 2010 [Numbers in thousands. Reference date is July 1, except as noted]

Period	Series 1	Series 2	Series 3
CENSUS ESTIMATES			
1940-1950*	2.2	(X)	(X)
1950-1960*	1.9	(X)	ixi
1960-1970*	1.9	(X)	(X)
1970-1980*	2.4	(X)	(X)
1980-1990*	1.3	(X)	(X)
PROJECTIONS			
1990-1995	1.2	1.2	1.2
1995-1996	1.2	1.1	1.1
1996-1997	1.1	1.1	1.0
1997-1998	1.1	1.0	1.0
1998-1999	1.1	1.0	1.0
1999-2000	1.1	1.1	1.0
2000-2001	1.1	1.0	1.0
2001-2002	1.1	1.0	1.0
2002-2003	1.0	1.0	1.0
2003-2004	1.0	1.0	1.0
2004-2005	1.1	1.0	1.0
2005-2006	1.1	1.0	1.0
2006-2007	1.1	1.0	1.0
2007-2008	1.1	1.0	1.0
2008-2009	1.1	1.0	1.0
2009-2010	1.1	1.1	1.0

* As of April 1, from population censuses.

X Not applicable.

Source: Table C.

Table 1. Projections of Households by Type: 1995 to 2010Series 1, 2, and 3

[Reference date is July 1]

			Family he	ouseholds		Nor	Average of pers			
Series and year	All	-	Married	Female	family Male		Female	Male	Per house-	Pe
	households	Total	couple	householder	householder	Total	householder	householder	hold	family
SERIES 1									1	
1995		68,382,680	53,432,915	11,438,681	3,511,084	29,340,203	16,084,937	13,255,266	2.62	3.15
1996	98,856,603	69,089,808	53,893,439	11,606,809	3,589,560	29,766,795	16,269,403	13,497,392	2.61	3.14
1997	99,965,175	69,760,723	54,319,173	11,773,519	3,668,031	30,204,452	16,463,794	13,740,658	2.61	3.14
1998		70,387,012	54,707,260	11,934,856	3,744,896	30,655,852	16,670,950	13,984,902	2.60	3.13
1999	102,118,600	71,014,836	55,091,779	12,100,606	3,822,451	31,103,764	16,875,311	14,228,453	2.60	3.13
2000		71,668,930	55,495,517	12,272,004	3,901,409	31,577,033	17,094,590	14,482,443	2.59	3.12
2001	104,344,445	72,310,665	55,885,976	12,446,308	3,978,381	32,033,780	17,304,585	14,729,195	2.59	3.11
2002	105,456,124	72,917,696	56,266,221	12,599,164	4,052,311	32,538,428	17,549,113	14,989,315	2.58	3.11
2003	106,566,127	73,511,099	56,626,719	12,757,287	4,127,093	33,055,028	17,801,273	15,253,755	2.58	3.10
2004	107,672,899	74,107,904	56,988,327	12,917,753	4,201,824	33,564,995	18,048,628	15,516,367	2.57	3.09
2005	108,818,659	74,732,880	57,370,994	13,083,981	4,277,905	34,085,779	18,301,408	15,784,371	2.57	3.09
2006	109,981,970	75,361,827	57,755,561	13,251,031	4,355,235	34,620,143	18,561,511	16,058,632	2.56	3.08
2007	111,162,259	75,997,067	58,147,607	13,418,598	4,430,862	35,165,192	18,828,993	16,336,199	2.55	3.07
2008	112,362,848	76,615,834	58,527,251	13,582,132	4,506,451	35,747,014	19,119,565	16,627,449	2.55	3.07
2009	113,567,967	77,241,400	58,908,384	13,751,082	4,581,934	36,326,567	19,405,806	16,920,761	2.54	3.06
2010	114,825,428	77,894,830	59,308,021	13,926,532	4,660,277	36,930,598	19,702,084	17,228,514	2.53	3.05
SERIES 2										
1995	97,694,760	68,837,033	54,267,416	11,154,518	3,415,099	28,857,727	15,913,381	12,944,346	2.62	3.14
1996	98,801,180	69,642,938	54,926,039	11,248,424	3,468,475	29,158,242	16,053,245	13,104,997	2.62	3.14
1997	99,879,980	70,413,821	55,553,244	11,339,611	3,520,966	29,466,159	16,201,540	13,264,619	2.61	3.13
1998	100,924,490	71,140,587	56,145,060	11,424,475	3,571,052	29,783,903	16,360,945	13,422,958	2.61	3.13
1999	101,965,560	71,870,306	56,736,808	11,512,401	3,621,097	30,095,254	16,516,369	13,578,885	2.60	3.12
2000	103,057,635	72,627,721	57,350,917	11,604,767	3,672,037	30,429,914	16,686,075	13,743,839	2.60	3,12
2001	104,119,045	73,374,380	57,955,355	11,698,670	3,720,355	30,744,665	16,845,060	13,899,605	2.59	3.11
2002	105,189,833	74,089,499	58,553,140	11,771,580	3,764,779	31,100,334	17,035,496	14,064,838	2.59	3.10
2003	106,259,988	74,792,966	59,134,015	11,849,247	3,809,704	31,467,022	17,233,314	14,233,708	2.58	3.10
2004	107,324,286	75,501,804	59,720,229	11,927,775	3,853,800	31,822,482	17,424,375	14,398,107	2.58	3.09
2005		76,240,892	60.331,974	12.010.490	3,898,428	32,184,649	17,619,226	14,565,423	2.57	3.09
2006	109,542,588	76,985,707	60,948,962	12,093,094	3,943,651	32,556,881	17,820,103	14,736,778	2.57	3.08
2007		77,737,669	61,574,608	12,175,879	3,987,184	32,938,188	18.027.943	14,910,245	2.56	3.08
2008	111.833.083	78,471,219	62,183,689	12,255,980	4,031,550	33,361,864	18,262,171	15.099.693	2.56	3.07
2009	112,991,763	79,215,583	62,800,539	12,340,240	4,074,804	33,776,180	18,488,895	15,287,285	2.55	3.07
2010	114,199,622	79,990,044	63,441,719	12,428,486	4,119,839	34,209,578	18,723,493	15,486,085	2.55	3.06
SERIES 3	1534 B	1233 22		25 .93	26 39		Ki 25	2.6 2.2		
1995	97,574,189	68,872,603	54,064,426	11,336,429	3,471,748	28,701,586	15,799,625	12,901,961	2.62	3.14
1996	98,641,315	69.674.088	54,674,787	11,463,777	3,535,524	28,967,227	15,914,198	13.053.029	2.62	3.14
1997	99.680.030	70,439,696	55,252,827	11,588,373	3,598,496	29,240,334	16,037,537	13,202,797	2.62	3.13
1998	100.683,716	71,161,368	55,795,398	11,706,994	3,658,976	29,522,348	16,171,073	13,351,275	2.61	3.13
1999	101,683,469	71,885,581	56,338,766	11,827,365	3,719,450	29,797,888	16,300,363	13,497,525	2.61	3.12
2000	102,734,349	72,637,651	56,904,364	11,952,311	3,780,976	30,096,698	16,443,281	13,653,417	2.61	3.12
2001	103,754,014	73,378,966	57,461,517	12.077.637	3,839,812	30,375,048	16,574,784	13,800,264	2.60	3.11
2002	104,784,362	74,090,082	58,010,418	12,184,607	3,895,057	30,694,280	16,737,426	13,956,854	2.60	3.11
2003	105,813,805	74,789,113	58,543,186	12,295,128	3,950,799	31,024,692	16,907,152	14,117,540	2.60	3.10
2004	106,835,305	75,493,071	59,080,407	12,406,575	4,006,089	31,342,234	17,069,178	14,273,056	2.59	3.10
2005	107,892,079	76,227,200	59,642,441	12,522,567	4,062,192	31,664,879	17,233,807	14,431,072	2.59	3.09
2006	108,963,276	76,967,698	60,209,569	12,638,983	4,119,146	31,995,578	17,403,252	14,592,326	2.58	3.09
2007		77,716,383	60,784,900	12,756,689	4,174,794	32,334,681	17,579,493	14,755,188	2.58	3.08
2008		78,446,730	61,342,277	12,872,767	4,231,686	32,714,496	17,780,666	14,933,830	2.57	3.07
2009	112,270,638	79,187,519	61,906,394	12,993,258	4,287,867	33,083,119	17,973,497	15,109,622	2.57	3.07
2010	113,425,776	79,957,978	62,494,303	13,117,622	4,346,051	33,467,800	18,172,225	15,295,575	2.56	3.06

2007 Master Plan Commercial Port of Guam. Progress Report #2. By: Parsons Brinkerhoff, Jose D. Leon Guerrero October 2007

Examples of Commercial Port of Guam Cargo Data and Forecasts

Group	2004	2005	2007	%
				2007
Food and Non-Alcoholic	\$210,887,031	\$163,587,900	\$189,848,060	33%
Beverages				
Alcoholic Beverages	\$20,445,918	\$22,752,348	\$18,916,221	3%
Transportation and Parts	\$82,110,117	\$111,165,444	\$130,698,026	22%
Home Appliances, Equipment	\$11,731,590	\$9,413,220	\$10,355,204	2%
and Others				
Construction Materials	\$28,334,139	\$19,734,012	\$30,347,915	5%
Men's and Women's Apparel	\$32,188,479	\$26,132,346	\$81,147,705	14%
Plastics, Leather and Paper	\$48,733,398	\$93,249,228	\$34,736,713	6%
Other Imports	\$68,952,768	\$86,652,573	\$87,495,925	15%
Grand Total	\$503,383,440	\$532,687,071	\$583,545,769	100%

Table 3 - Guam Import Data (Current Dollars)

Note: 2006 is not available

Source: Government of Guam, Bureau of Statistics and Plans

		Lifts per Call (average)							
Group	#	Full	Full	Full	Mty	Mty	Mty	Total	
	Voyages	In	Out	Total	In	Out	Total		
USWC									
Matson	35	350	4	354	46	290	336	690	
Horizon	35	250	2	252	58	204	262	514	
Foreign									
CTS	33	122	2	123	75	77	152	275	
Kyowa	29	43	8	51	14	34	48	99	
Trans-									
shipment									
Seabridge	49	27	22	49	43	3	46	95	
Matson	17	18	171	189	177	2	179	368	

Table 6 - Vessel Call Summary for 2007 (Jan through mid-Aug)

Source: Port Authority of Guam

Figure 11	– Horizon	Service	to Guam
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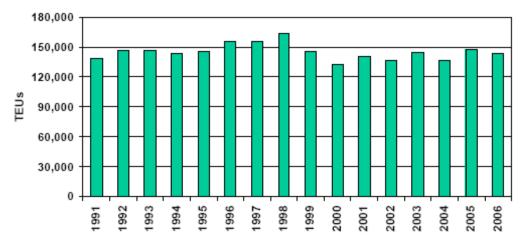


Table 8 – Guam Container Traffic Forecast – By Route (Boxes)

		ier regjie		Dy norme	
Year	CNMI	FSM/MI	Foreign	USWC	Total
2007	8,100	6,900	18,800	69,200	103,000
2008	6,500	6,900	19,500	71,800	104,700
2009	5,500	7,000	20,800	74,600	107,900
2010	4,500	7,100	28,500	88,300	128,400
2011	3,500	7,100	35,300	102,800	148,700
2012	3,500	7,200	43,000	118,300	172,000
2013	3,600	7,300	43,500	122,900	177,300
2014	3,700	7,400	42,700	128,400	182,200
2015	3,700	7,400	43,400	135,400	189,900
2016	3,800	7,500	36,800	132,500	180,600
2017	3,800	7,600	25,100	115,800	152,300
2018	3,900	7,600	22,000	111,800	145,300
2019	4,000	7,700	22,300	113,200	147,200
2020	4,000	7,800	22,700	114,500	149,000
2021	4,100	7,900	23,000	115,900	150,900
2022	4,100	7,900	23,400	117,300	152,700
2023	4,200	8,000	23,800	118,800	154,800
2024	4,200	8,100	24,100	120,200	156,600
2025	4,300	8,200	24,500	121,700	158,700
2026	4,400	8,200	24,900	123,200	160,700
2027	4,400	8,300	25,200	124,500	162,400
Compound A	Annual Growth	Rate			
2007-12	-15.4%	0.9%	18.0%	11.3%	10.8%
2012-17	1.7%	1.1%	-10.2%	-0.4%	-2.4%
2017-27	1.5%	0.9%	0.0%	0.7%	0.6%
2007-27	-3.0%	0.9%	1.5%	3.0%	2.3%
Source: DS	T Associate	a maina dat	a from D(מנ	

Source: BST Associates using data from DOD

2000			PLOYME	NT/ESTA	BLISHM	ENT COU	NT
INDUSTRY	TOTAL	1-4	5-9	10-19	20-49	50-99	100-UP
AGRICULTURE, FORESTRY, AND FISHING	24	8	9	*	4	*	*
CONSTRUCTION	385	185	84	56	47	8	5
MANUFACTURING	59	20	9	12	9	5	4
TRANSPORTATION AND PUBLIC UTILITIES	171	59	27	28	37	10	10
WHOLESALE TRADE	159	68	39	25	21	5	*
RETAIL TRADE	859	386	208	139	81	23	22
FINANCE, INSURANCE, AND REAL ESTATE	188	90	38	32	14	11	3
SERVICES	838	422	167	110	80	27	32
TOTAL PRIVATE ESTABLISHMENTS	2,683	1,238	581	404	293	90	77
TOTAL PRIVATE SECTOR EMPLOYEES	43,370	2,811	3,850	5,392	8,901	6,148	16,268

2001		EM	PLOYME	NT/ESTA	BLISHME	ENT COU	NT
INDUSTRY	TOTAL	1-4	5-9	10-19	20-49	50-99	100-UP
AGRICULTURE, FORESTRY, AND FISHING	24	11	6	3	*	*	*
CONSTRUCTION	339	152	80	55	44	4	4
MANUFACTURING	56	20	6	8	15	3	4
TRANSPORTATION AND PUBLIC UTILITIES	178	63	34	24	34	13	10
WHOLESALE TRADE	157	64	42	26	18	7	*
RETAIL TRADE	883	407	207	149	69	30	21
FINANCE, INSURANCE, AND REAL ESTATE	186	89	41	28	15	11	*
SERVICES	817	403	168	102	90	23	31
TOTAL PRIVATE ESTABLISHMENTS	2,640	1,209	584	395	287	93	72
TOTAL PRIVATE SECTOR EMPLOYEES	44,378	2,805	3,848	5,347	8,899	6,622	16,857

2002		EM	PLOYME	NT/ESTA	BLISHM	ENT COU	NT
INDUSTRY	TOTAL	1-4	5-9	10-19	20-49	50-99	100-UP
AGRICULTURE, FORESTRY, AND FISHING	19	8	5	*	*	*	*
CONSTRUCTION	296	138	75	37	35	9	*
MANUFACTURING	58	20	10	9	11	3	5
TRANSPORTATION AND PUBLIC UTILITIES	174	58	33	29	35	12	7
WHOLESALE TRADE	146	62	38	23	14	7	*
RETAIL TRADE	802	354	204	126	72	32	14
FINANCE, INSURANCE, AND REAL ESTATE	179	85	36	31	15	9	3
SERVICES	819	398	190	102	75	26	28
TOTAL PRIVATE ESTABLISHMENTS	2,493	1,123	591	359	259	100	61
TOTAL PRIVATE SECTOR EMPLOYEES	40,106	2,631	3,795	4,856	7,799	7,039	13,986

2003		EM	PLOYME	NT/ESTA	BLISHM	ENT COU	NT
INDUSTRY	TOTAL	1-4	5-9	10-19	20-49	50-99	100-UP
AGRICULTURE, FORESTRY, AND FISHING	17	7	4	3	*	*	*
CONSTRUCTION	336	157	71	57	35	12	4
MANUFACTURING	57	18	10	12	9	4	4
TRANSPORTATION AND PUBLIC UTILITIES	173	61	31	29	32	11	9
WHOLESALE TRADE	143	52	43	23	17	7	*
RETAIL TRADE	805	356	210	116	77	35	11
FINANCE, INSURANCE, AND REAL ESTATE	167	81	32	30	13	7	4
SERVICES	804	396	171	110	74	27	26
TOTAL PRIVATE ESTABLISHMENTS	2,502	1,128	572	380	258	104	60
TOTAL PRIVATE SECTOR EMPLOYEES	40,617	2,663	3,746	5,080	7,926	7,493	13,709

2004		EM	PLOYME	NT/ESTA	BLISHME	ENT COU	NT
INDUSTRY	TOTAL	1-4	5-9	10-19	20-49	50-99	100-UP
AGRICULTURE, FORESTRY, AND FISHING	15	8	*	*	*	*	*
CONSTRUCTION	353	146	87	57	42	11	10
MANUFACTURING	53	16	8	11	10	3	5
TRANSPORTATION AND PUBLIC UTILITIES	171	59	34	26	32	11	9
WHOLESALE TRADE	151	64	43	23	15	4	*
RETAIL TRADE	834	366	214	131	73	35	15
FINANCE, INSURANCE, AND REAL ESTATE	160	75	31	32	11	8	3
SERVICES	853	421	190	112	77	26	27
TOTAL PRIVATE ESTABLISHMENTS	2,590	1,155	609	393	262	100	<u>71</u>
TOTAL PRIVATE SECTOR EMPLOYEES	42,867	2,748	4,017	5,199	8,038	6,933	15,932

2005		EM	PLOYME	NT/ESTA	BLISHM	ENT COU	NT
INDUSTRY	TOTAL	1-4	5-9	10-19	20-49	50-99	100-UP
AGRICULTURE, FORESTRY, AND FISHING	16	8	4	*	*	*	*
CONSTRUCTION	319	151	66	53	30	13	6
MANUFACTURING	58	22	8	7	13	3	5
TRANSPORTATION AND PUBLIC UTILITIES	160	55	33	24	23	16	9
WHOLESALE TRADE	145	56	42	23	16	6	*
RETAIL TRADE	838	368	218	129	74	29	20
FINANCE, INSURANCE, AND REAL ESTATE	173	80	34	32	15	10	*
SERVICES	876	425	204	116	80	25	26
TOTAL PRIVATE ESTABLISHMENTS	2,585	1,165	609	384	253	104	70
TOTAL PRIVATE SECTOR EMPLOYEES	42,779	2,752	4,019	5,116	7,794	7,327	15,771

2006		EM	PLOYME	NT/ESTA	BLISHM	ENT COU	NT
INDUSTRY	TOTAL	1-4	5-9	10-19	20-49	50-99	100-UP
AGRICULTURE, FORESTRY, AND FISHING	16	7	*	3	*	*	*
CONSTRUCTION	329	149	79	46	38	10	7
MANUFACTURING	55	22	8	7	9	4	5
TRANSPORTATION AND PUBLIC UTILITIES	152	54	24	24	26	15	9
WHOLESALE TRADE	153	53	47	32	12	7	*
RETAIL TRADE	818	364	208	128	72	28	18
FINANCE, INSURANCE, AND REAL ESTATE	169	76	40	27	15	8	3
SERVICES	883	434	195	117	81	27	29
TOTAL PRIVATE ESTABLISHMENTS	2,575	1,159	603	384	255	101	73
TOTAL PRIVATE SECTOR EMPLOYEES	43,583	2,722	3,954	5,202	7,805	6,919	16,981

2007		EM	PLOYME	NT/ESTA	BLISHME	ENT COU	NT
INDUSTRY	TOTAL	1-4	5-9	10-19	20-49	50-99	100-UP
AGRICULTURE, FORESTRY, AND FISHING	18	6	7	*	*	*	*
CONSTRUCTION	350	155	71	61	45	8	10
MANUFACTURING	49	18	7	7	9	3	5
TRANSPORTATION AND PUBLIC UTILITIES	150	53	26	26	24	11	10
WHOLESALE TRADE	148	46	53	24	16	7	*
RETAIL TRADE	785	344	194	130	71	30	16
FINANCE, INSURANCE, AND REAL ESTATE	161	73	37	22	18	8	3
SERVICES	826	373	193	121	81	26	32
TOTAL PRIVATE ESTABLISHMENTS	2,487	1,068	588	392	266	94	79
TOTAL PRIVATE SECTOR EMPLOYEES	44,453	2,526	3,824	5,226	8,307	6,499	18,071

* Denotes less than 3 establishments or no establishments reporting in respective category.

Bureau of Labor Statistics, Department of Labor, Government of Guam

EMPLOYEES ON PAYR	ROLL BY OW	NERSHIP	AND INDU	JSTRY		EMPLOYME	ENT BY SEX	PRODUCTION WO	RKERS, WAGE	S, HOURS AND	EARNINGS ¹
	September ^r 2006	December ^r 2006	March ^r 2007	June ^r S 2007	September ^p 2007	Septer Male	nber 2007 Female	Production Workers	Average Hourly Earnings	Average Weekly Hours Paid	Average Weekly Earnings
PRIVATE SECTOR											
AGRICULTURE	<u>280</u>	<u>290</u>	<u>340</u>	<u>370</u>	<u>360</u>	<u>320</u>	<u>40</u>	<u>280</u>	<u>\$7.59</u>	<u>37.3</u>	<u>\$283.35</u>
CONSTRUCTION	<u>4,090</u>	<u>4,740</u>	<u>5,360</u>	<u>5,470</u>	<u>5,540</u>	<u>5,270</u>	<u>270</u>	<u>4,550</u>	<u>12.78</u>	<u>40.5</u>	<u>518.23</u>
General building contractors	3,060	3,660	4,040	4,370	4,550	4,340	210	3,840	12.41	39.5	490.83
Heavy construction, ex. building	590	600	460	380	390	370	20	300	14.92	51.4	767.11
Special trade contractors	440	480	860	720	600	560	40	410	13.41	33.4	448.05
MANUFACTURING	1,620	1,640	1,680	<u>1,610</u>	<u>1,610</u>	1,260	<u>350</u>	<u>990</u>	12.39	38.2	473.64
Food and kindred products	470	470	460	450	460	320	140	230	9.62	35.6	342.54
Printing and publishing	360	340	340	330	330	180	150	110	12.94	30.1	390.01
All other manufacturing	790	830	880	830	820	760	60	650	13.28	40.4	536.41
TRANSPORTATION & PUBLIC UTILITIES	<u>4,980</u>	<u>5,010</u>	<u>4,810</u>	<u>4,820</u>	<u>4,830</u>	<u>2,910</u>	<u>1,920</u>	<u>4,020</u>	<u>14.27</u>	<u>39.9</u>	<u>569.88</u>
WHOLESALE TRADE	<u>2,100</u>	<u>2,070</u>	<u>2,030</u>	<u>2,070</u>	<u>2,110</u>	<u>1,420</u>	<u>690</u>	<u>1,660</u>	<u>9.60</u>	<u>37.6</u>	<u>360.85</u>
RETAIL TRADE	<u>11,950</u>	<u>12,050</u>	<u>11,630</u>	<u>11,260</u>	<u>11,570</u>	<u>5,480</u>	<u>6,090</u>	<u>9,840</u>	<u>10.47</u>	<u>31.8</u>	<u>333.61</u>
FINANCE, INSURANCE & REAL ESTATE	<u>2,440</u>	<u>2,520</u>	<u>2,440</u>	<u>2,470</u>	<u>2,450</u>	<u>770</u>	<u>1,680</u>	<u>1,770</u>	<u>12.12</u>	<u>37.8</u>	<u>457.95</u>
SERVICES	<u>15,750</u>	<u>15,840</u>	<u>16,160</u>	<u>15,780</u>	<u>16,180</u>	<u>8,830</u>	7,350	<u>13,950</u>	<u>9.63</u>	<u>34.9</u>	<u>335.98</u>
Hotels and other lodging places	5,300	5,450	5,320	5,380	5,420	2,660	2,760	4,540	7.54	35.0	264.29
All other services	10,450	10,390	10,840	10,400	10,760	6,170	4,590	9,410	11.46	34.7	398.29
TOTAL PRIVATE SECTOR	<u>43,210</u>	<u>44,160</u>	<u>44,450</u>	<u>43,850</u>	44,650	<u>26,260</u>	<u>18,390</u>	<u>37.060</u>	<u>11.15</u>	<u>35.9</u>	<u>399.94</u>
PUBLIC SECTOR											
FEDERAL GOVERNMENT	<u>3,370</u>	3,460	3,420	3,410	3,540	1,780	<u>1,760</u>				
GOVERNMENT OF GUAM	11,380	11,740	11,970	10,790	11,360	5,390	5,970		18.41 ²	41.7 ²	768.34 ²
Executive branch (Includes G.P.S.S.)	7,170	7,540	7,640	6,580	7,180						
All others including autonomous	4,210	4,200	4,330	4,210	4,180						
TOTAL PUBLIC SECTOR	<u>14,750</u>	<u>15,200</u>	<u>15,390</u>	<u>14,200</u>	<u>14,900</u>	<u>7,170</u>	<u>7,730</u>				
TOTAL PAYROLL EMPLOYMENT	<u>57.960</u>	<u>59,360</u>	<u>59,840</u>	<u>58.050</u>	<u>59.550</u>	<u>33.430</u>	<u>26.120</u>				

¹ Wages, Hours, and Earnings information is reported for production (nonsupervisory) workers only. Earnings are "gross", they reflect not only changes in basic hourly wage rates, but also such factors as premium pay for overtime work and shift differentials. Average weekly hours information is different from standard or scheduled hours because of such factors as absenteism, labor turnover, part-time, overtime work, and stoppages. Due to the rounding of the Earnings and Hours Paid figures, their multiple may differ from the average weekly earnings rate shown.

² Government figures include all employees and are not directly comparable to private sector production worker estimates.

^p Figures are preliminary ^r Revised estimates ^{up} Updated preliminary figures

Table 1. General Statistics by Kind of Business for Guam: 2002

[Includes only establishments of firms with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see note at the end of the table.]

	information on confidentiality protection, sampling error, i	ionoumping error,						
2002 NAICS code	Kind of business	Estab- lishments (number)	Sales/ receipts/ revenue/ shipments ¹ (\$1,000)	Annual payroll (\$1,000)	First-quarter payroll (\$1,000)	Paid employees for pay period including March 12 (number)	Proprietors and partners ² (number)	Unpaid family workers ² (number)
00	Total for all sectors	2 926	4 591 828	846 256	210 512	43 104	980	88
22	Utilities	4	D	D	D	b	D	D
23	Construction	244	261 641	54 131	13 329	3 136	90	10
236	Construction of buildings	147	132 355	29 075	7 025	1 934	49	7
237	Heavy and civil engineering construction	15	74 815	11 330	2 785	455	2	-
238	Specialty trade contractors	82	54 471	13 726	3 519	747	39	3
31-33	Manufacturing	49	116 410	32 183	7 740	1 155	10	1
311	Food manufacturing	14	26 733	6 504	1 599	253	2	-
312	Beverage and tobacco product manufacturing	4	D	D	D	с	D	D
314	Textile product mills	2	D	D	D	b	D	D
315	Apparel manufacturing	1	D	D	D	а	D	D
321	Wood product manufacturing	1	D	D	D	а	D	D
323	Printing and related support activities	12	7 382	1 826	430	110	5	1
324	Petroleum and coal products manufacturing	1	D	D	D	с	D	D
327	Nonmetallic mineral product manufacturing	1	D	D	D	b	D	D
331	Primary metal manufacturing	2	D	D	D	b	D	D
332	Fabricated metal product manufacturing	3	4 052	1 096	261	58	-	-
333	Machinery manufacturing	1	D	D	D	а	D	D
336	Transportation equipment manufacturing	2	D	D	D	е	D	D
337	Furniture and related product manufacturing	1	D	D	D	а	D	D
339	Miscellaneous manufacturing	4	317	104	25	17	1	-
42	Wholesale trade	187	515 868	42 522	10 485	1 920	28	-
423	Durable goods merchant wholesalers	66	106 341	9 509	2 382	417	6	-
424	Nondurable goods merchant wholesalers	117	406 810	32 352	7 927	1 478	22	-
425	Wholesale electronic markets and agents and brokers	4	2 717	661	176	25	_	_
44-45	Retail trade	632	1 250 439	122 655	31 343	7 402	177	34
441 4411	Motor vehicle and parts dealers	40 7	163 832 125 611	16 210 10 755	3 935 2 462	620 350	5 2	
4412 4413	Other motor vehicle dealers Automotive parts, accessories, and tire stores	2 31	D	D	D	b	D	D
442	Furniture and home furnishings stores	19	16 051	2 821	699	193	2	2
4421 4422	Furniture stores	14	9 153 6 898	1 635 1 186	431 268	104 89	2	2
443	Electronics and appliance stores	34	50 170	8 055	2 473 2 473	351	13	3
4431 44311	Electronics and appliance stores Appliance, television, and other electronics	34	50 170	8 055	2 473	351	13	3
44312	stores Computer and software stores	16 18	28 457 21 713	4 578 3 477	1 633 840	164 187	4	3
444	Building material and garden equipment and supplies						-	
4441	dealers Building material and supplies dealers	27 18	44 256 36 787	5 729 4 977	1 411 1 219	346 306	5 1	3 1
44411 44412	Home centers	1	D	D	D	a	D D	D
44413 44419	Hardware stores	12	28 619 D	4 214 D	1 054 D	271	– D	_ _ D
4442	Lawn and garden equipment and supplies stores	2 9	7 469	752	192	a 40	4	2 D
44421 44422	Outdoor power equipment stores Nursery, garden center, and farm supply stores	4 5	D	D	D	b a	D D	D
445	Food and beverage stores	134	258 522	22 976	5 960	1 623	56	14
4451 4452	Grocery stores	117 15	251 714 D	21 392 D	5 587 D	1 493 c	50 D	12 D
4453	Beer, wine, and liquor stores	2	D	D	D	a	D	D
446 4461	Health and personal care stores	28 28	17 842 17 842	2 859 2 859	739 739	162 162	11 11	1 1
44611 44613	Pharmacies and drug stores Optical goods stores	12	11 283 2 595	1 628 605	426 154	79 28	7	_ 1
44619	Other health and personal care stores	9	3 964	626	159	55	1	-
447	Gasoline stations	32	82 931	8 406	1 979	467	5	-
448 4481	Clothing and clothing accessories stores	149 81	227 844 63 573	19 286 6 611	4 936 1 685	1 241 489	30 23	2
44811 44812	Men's clothing stores Women's clothing stores	4 28	D 31 587	D 2 837	D 745	a 190	D 4	D
44813 44814	Children's and infants' clothing stores Family clothing stores	1 22	D 10 081	D 2 068	D 510	a 175	D 7	D 1
44815 44819	Clothing accessories stores	5	D 11 093	D 1 032	D 266	b 75	, D 7	D _
4482	Shoe stores	16	28 575 135 696	2 932 9743	739	246	7 3 4	-
4483 44831 44832	Jewelry, luggage, and leather goods stores	52 32	42 502	4 093	2 512 1 133	506 231	3	-
44832	Luggage and leather goods stores	20	93 194	5 650	1 379	275	1	-

See footnotes at end of table.

2002 Economic Census of Island Areas

Table 1. General Statistics by Kind of Business for Guam: 2002-Con.

[Includes only establishments of firms with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see note at the end of the table.]

Sector Sector latence Index Barlando Index Sector Index Sector <th>0611303. 1 01</th> <th>information on confidentiality protection, sampling error, i</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	0611303. 1 01	information on confidentiality protection, sampling error, i							
aft 1 Spring poids, holds, and muse interment 44 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 <td>NAICS</td> <td>Kind of business</td> <td>lishments</td> <td>receipts/ revenue/ shipments¹</td> <td>payroll</td> <td>payroll</td> <td>employees for pay period including March 12</td> <td>and partners²</td> <td>family workers²</td>	NAICS	Kind of business	lishments	receipts/ revenue/ shipments ¹	payroll	payroll	employees for pay period including March 12	and partners ²	family workers ²
4111 Spending acts, index, and mutch index, and mutch index at a mut	44-45	Retail trade-Con.							
datii Sporting print actions. 19 16 Erg 2 400 000 200 40 0 de113 Deck in other actions. 0 1 4 5 5 1 4 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5	451 4511	Sporting goods, hobby, and musical instrument							-
		Sporting goods stores	29	16 673	2 496	600	204	8	_ D
46.12 Mode access retrainers 6 4.26 550 165 165 165 165 17 2 452 General inscription stress 35 220 03 22 73 6 6 600 121 3 453 Filter sector retains 35 220 01 6 6 600 151 40 36 453 Filter sector retains 150 6 6 001 7 600 2 611 66 60 33 453 Filter sector retains 150 36 677 5 300 7 5 30 7 5 30 7 5 30 7 5 30 7 5 30 7 5 30 7 5 30 7 5 30 7 5 30 7 5 30 7 5 30 7 5 30 7 5 30 7 5 30 7 5 30 7 5 30 7 5 30 7 5 30 7 5 30 7 5 30 7 5 30 7 5 30 7 5 30 7 5 30 7 5 </td <td>45113</td> <td>Sewing, needlework, and piece goods stores</td> <td>3</td> <td>D</td> <td>D</td> <td>D</td> <td>a</td> <td>D</td> <td>D</td>	45113	Sewing, needlework, and piece goods stores	3	D	D	D	a	D	D
desp. desp. <th< td=""><td>45121</td><td>Book stores and news dealers</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>-</td></th<>	45121	Book stores and news dealers						-	-
4833 Dependent flows 53 D B D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D <thd< th=""> D</thd<>	10122	stores			111	20	12	3	-
443 Portes 11 0 0.07 5.60 0.06 0.46 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.	4521	Department stores	2	D	D	D	f	D	3 D D
4439 4439 Chice supplices, teleforcer, and process. 67 4532 47 4533 56 4533 47 4533 57 4533 57 453 57 453 57 453 57 453 57 453 57 4533									
44332 Off, monthy, and account above	4532	Office supplies, stationery, and gift stores	57	42 797	5 460	1 456	369	20	5
4639 Other mission relations 9 10 827 1.377 286 75 4 1 464 Vacand's mission relations 4 7 8 7 6 2 7 6 2 7 4640 Transportation 4 7 181650 4 460 111348 1812 16 2 481 At ransportation 11 2 413 7 1016 1111 - - 483 Water haraportation 11 24 337 83 91 - - 484 Transportation 10 118850 4 60 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <th< td=""><td>45322</td><td>Gift, novelty, and souvenir stores</td><td>51</td><td>39 190</td><td>5 108</td><td>1 371</td><td>342</td><td>19</td><td>4</td></th<>	45322	Gift, novelty, and souvenir stores	51	39 190	5 108	1 371	342	19	4
ds3d Uverding matchine generators ds D D D D D B D B D B D D D B D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D <thd< th=""> <thd< th=""> D <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>75</td><td></td><td></td></th<></thd<></thd<>							75		
451 Air transportation ² 7 181 650 4 167 1 013 1 11 483 Water transportation 3 1 533 331 38 91 484 Truck transportation 14 24 913 7 01 1 848 92 4853 Trunt and pround passenger transportation. 6 2 461 820 1 665 238 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <t< td=""><td>4542</td><td>Vending machine operators</td><td>4</td><td>D</td><td>D</td><td>D</td><td>a</td><td>D</td><td>– D D</td></t<>	4542	Vending machine operators	4	D	D	D	a	D	– D D
483 Water transportation 31 1583 331 63 91 484 Truck transportation 14 24 913 7 001 1888 322 6 4859 Trunck transportation 14 24 913 7 001 1888 3228 1 4859 Trunck transportation 16 32 46 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	48-49	Transportation and warehousing	82	312 351	44 840	11 348	1 812	16	2
484 Track transportation 114 24 913 7 601 1 943 3222 6 4853 Trapit and ground passenger transportation 6 11 865 6.529 1 845 3260 10 4871 Senic and sightsening transportation 6 1 826 6.529 7.531 5 1 4871 Senic and sightsening transportation, water 31 82.848 21.465 5.392 7.531 5 1 4871 Senic and sightsening transportation 31 82.848 21.465 5.392 7.531 5 1 1 4881 Support achiels for water transportation 31 82.848 21.465 5.392 7.531 5 1 1 4881 Support achiels for water transportation 31 0 82.488 11.81 4.49 97 2 4.78 483 Waterbound and strange contain transportation 31 0 2 4.75 1.81 4.43 99 2 1.7 483	481	Air transportation ³	7	181 650	4 167	1 013	111	-	-
483 4893 Transit and ground passenger transportation. 1 1 1885 6 55.85 1 1885 288 1 0 4877 Scinic and sightseeing transportation. 6 3.246 688 149 61	483	Water transportation	3	1 593	331	83	91	-	-
4839 Taxi and infrousing service 4 D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D <thd< th=""> D D D D D D D D D D D D D D D D D D D D D D D <thd< th=""> <thd< th=""> D <thd< t<="" td=""><td>484</td><td>Truck transportation</td><td>14</td><td>24 913</td><td>7 601</td><td>1 848</td><td>322</td><td>6</td><td>-</td></thd<></thd<></thd<></thd<>	484	Truck transportation	14	24 913	7 601	1 848	322	6	-
desc Other transland ground passenger transportation 6 D D D C D 4871 Scenic and sightsening transportation 1 3 4845 1 6688 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Transit and ground passenger transportation							
4871 Scenic and Sightsefing transportation, water 1 D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D	4859								D
Support activities for air ransportation 10 66 8 828 1570 4 226 541 1	4871	Scenic and sightseeing transportation, land	1	D	D	D	a		
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1 Information 48 75 065 19 712 4 769 766 9 - 511 Publishing industries (except Internet) 12 27 915 7 458 1 803 302 1 - 5112 Software publishers 11 D D D B 9 B D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D <td< td=""><td>492</td><td>Couriers and messengers</td><td>7</td><td>5 644</td><td>2 237</td><td>524</td><td>97</td><td>2</td><td>-</td></td<>	492	Couriers and messengers	7	5 644	2 237	524	97	2	-
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5112 Software publishers 1 D D D D a D D 512 Motion picture and sound recording industries 8 9 490 1955 4711 1173 2 515 Broadcasting (except Internet) 8 10 557 4 717 1142 174 516 Internet publishing and broadcasting 2 D D D a D D 517 Telecommunications carriers 11 19054 3 502 848 54 3 5172 Wireless telecommunications carriers (except generic providers, web search portals, and data processing services. 2 D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D		Newspaper, periodical, book, and directory							-
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517 Telecommunications carriers 17 26 B17 5 510 1 335 112 4 - 5171 Wired telecommunications carriers 11 19 054 3 502 848 54 3 - 5172 wired telecommunications carriers 2 D D D B D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D	515	Broadcasting (except Internet)	8	10 557	4 717	1 142	174	-	-
5171 Wired telecommunications carriers 11 19 054 3 502 848 54 3 - 5172 satellite) 2 D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D <t< td=""><td>516</td><td>Internet publishing and broadcasting</td><td>2</td><td>D</td><td>D</td><td>D</td><td>a</td><td>D</td><td>D</td></t<>	516	Internet publishing and broadcasting	2	D	D	D	a	D	D
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518Internet service providers, web search portals, and data processing services1DDDaD52Finance and insurance1414657037371518900221622-522Credit intermediation and related activities7119799937579999311008-5221Commercial banking39146543285437701980452213Commercial banking2000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000		satellite)							
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5222 52221 52221Nondepository credit intermediation18 c25 429 c4 608 D1 155 D166 D6 D52229 5223Other nondepository credit intermediation17 TD DD DD DC DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD DD D<	52212	Savings institutions	2	D	D	D	a		D
5229 5223Other nondepositivy credit intermediation17 7D 4 902D 1 508D 378C 555D 2D D523Securities, commodity contracts, other financial investments, and related activities1223 0571 542503862-5231Securities and commodity contracts intermediation and brokerage1223 0571 542503862-5239Other financial investment activities774117849102-5241Insurance carriers and related activities58244 64734 5949 1041 00012-52411Direct insurance (except life, health, and medical) carriers12151 56918 4185 1944982-5242Agencies, brokerages, and other insurance carriers659 4402 73472071	5222	Nondepository credit intermediation	18	25 429	4 608	1 155	156	6	_
523 Securities, commodity contracts, other financial investments, and related activities 12 23 057 1 542 503 86 2 - 5231 Securities and commodity contracts intermediation and brokerage	52229	Other nondepository credit intermediation	17	D	D	D	с	D	D
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5241 Insurance carriers 18 211 009 21 152 5 914 569 2 - 52411 Direct life, health, and medical insurance 12 151 569 18 418 5 194 498 2 - 52412 Direct insurance (except life, health, and medical) 6 59 440 2 734 720 71 - - 5242 Agencies, brokerages, and other insurance related 6 59 440 2 734 720 71 - -		and brokerage						-2	
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52412 Direct insurance (except life, health, and medical) carriers 6 59 440 2 734 720 71 - - 5242 Agencies, brokerages, and other insurance related 6 59 440 2 734 720 71 - -		Direct life, health, and medical insurance							
5242 Agencies, brokerages, and other insurance related		Direct insurance (except life, health, and medical)						-	_
	5242	Agencies, brokerages, and other insurance related	40	33 638	13 442	3 190	431	10	_

See footnotes at end of table.

Table 1. General Statistics by Kind of Business for Guam: 2002-Con.

[Includes only establishments of firms with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see note at the end of the table.]

001100001 1 01	information on confidentiality protection, sampling error, i	ionioamping orror,						
2002 NAICS code	Kind of business	Estab- lishments (number)	Sales/ receipts/ revenue/ shipments ¹ (\$1,000)	Annual payroll (\$1,000)	First-quarter payroll (\$1,000)	Paid employees for pay period including March 12 (number)	Proprietors and partners ² (number)	Unpaid family workers ² (number)
53	Real estate and rental and leasing	256	179 682	34 079	8 670	1 843	88	5
531	-	160	129 986	21 040	5 436	1 013	50	2
5311	Real estate Lessors of real estate	130	101 077	15 861	4 130	827	42	1
5312 5313	Offices of real estate agents and brokers Activities related to real estate	19	20 427 8 482	3 364 1 815	867 439	130 56	5 3	- 1
532	Rental and leasing services	94	D	D			D	D
5321	Automotive equipment rental and leasing	42	21 277	5 605	1 416	341	14	
5322 53221	Consumer goods rental Consumer electronics and appliances rental	35	14 851 D	4 052 D	944 D	304 a	19 D	- 3 D D
53222 53223	Formal wear and costume rental Video tape and disc rental	2 24	D 7 641	D 1 132	D 271	b 114	D 12	D 2
53229	Other consumer goods rental	8	6 038	2 346	552	162	4	1
5323 5324	General rental centers Commercial and industrial machinery and	7	D	D	D	b	D	D
	equipment rental and leasing	10	D	D	D	b	D	D
533	Lessors of nonfinancial intangible assets (except	2	D	D	D	b	D	D
54	copyrighted works) Professional, scientific, and technical	2	D		U	d	U	D
54	services	230	121 351	44 318	10 684	1 508	118	1
541	Professional, scientific, and technical services	230	121 351	44 318	10 684	1 508	118	1
5411 5412	Accounting, tax preparation, bookkeeping, and	53	33 848	12 536	3 010	317	51	1
	payroll services	41	16 735	6 539	1 583	248	22	-
5413 54131	Architectural, engineering, and related services Architectural services	48 13	24 149 5 586	8 233 2 240	1 994 545	290 71	18 9	
54133 54135	Engineering services Building inspection services	29 2	16 469 D	5 313 D	1 284 D	189 a	7 D	_ D
54136	Geophysical surveying and mapping services	1	Ď	Ď	Ď	a	Ď	Ď
54137	Surveying and mapping (except geophysical) services	3	738	220	54	14	1	-
5414 5415	Specialized design services Computer systems design and related services	7	3 890 13 003	732 6 609	177 1 588	52 191	1	
5416	Management, scientific, and technical consulting		17 197			208	10	
5417	Scientific research and development services	32	458	5 147 271	1 262 66	11	10 1	-
5418 54181	Advertising and related services	17 15	7 214 D	2 691 D	649 D	92 b	10 D	_ D
54185	Display advertising	1	D	D	D	a	D	D
54189 5419	Other services related to advertising Other professional, scientific, and technical	1	D	D	D	а	D	D
54191	Marketing research and public opinion polling	17	4 857 D	1 560 D	355 D	99 a	5 D	_ D
54192	Photographic services	8	1 387	418	81	33	2 D	-
54193 54194	Translation and interpretation sevices	1	D 2 078	D 595	D 143	a 37	D 2	D –
54199	All other professional, scientific, and technical services	2	D	D	D	а	D	D
55	Management of companies and	2				α	D	
55	enterprises	7	D	D	D	е	D	D
56	Administrative and support and waste management and remediation services	180	169 344	63 039	15 333	4 002	66	3
504								
561 5611	Administrative and support services Office administrative services	170 6	159 044 3 808	59 385 1 211	14 472 324	3 797 58	62 3	3
5613 5614	Employment services	2	D 3 669	D 1 097	D 271	с 61	D 4	D
56141	Business support services Document preparation services	1	D	D	D	a	D	
56143 56144	Business service centers Collection agencies	35	D	D	D	b	D	D D D
56145 56149	Credit bureaus	1	D	D	D	a	D	D
56149 5615	Travel arrangement and reservation services	89	98 833	31 911	7 809	1 329	17	-
56151 56152	Travel agencies	32 49	20 702 57 477	4 204 23 842	1 090 5 680	174 1 016	13	
56159	Other travel arrangement and reservation services	8	20 654	3 865	1 039	139	4	_
5616	Investigation and security services	10	15 063	8 590	2 076	747	2	1
56161 56162	Investigation, guard, and armored car services Security systems services	6	7 468 7 595	4 693 3 897	1 089 987	495 252	- 2	- 1
5617 5619	Services to buildings and dwellings Other support services	49 3	33 424 D	14 184 D	3 535 D	1 471 b	33 D	2 D
		10	10 300	3 654	861		4	
562	Waste management and remediation services Educational services	22	D	D	D	205	+ D	
61						С		_
611	Educational services	22	D	D	D	С	D	D
62	Health care and social assistance	169	233 640	76 087	18 805	2 807	98	10
621 6211	Ambulatory health care services Offices of physicians	118 50	129 224 82 819	31 781 17 661	8 810 5 434	1 200 617	69 31	4
6212	Offices of dentists	25	22 469 10 246	6 511	1 621	239	13	1
6213 6214	Offices of other health practitioners Outpatient care centers	26 7	9 424	3 739 2 267	910 509	162 70	14 6	1 –
6215 6216	Medical and diagnostic laboratories Home health care services	4	1 998 2 268	502 1 101	87 249	14 98	2	
622	Hospitals	1	2 200 D	D	D	f	D	D
			D				D	D
623	Nursing and residential care facilities	6		D	D	b		
624 6241	Social assistance Individual and family services	44	D 9 652	D 4 164	D 971	f 285	D 2	D _
6242	Community food and housing, and emergency and other relief services	2	D	D	D	а	D	D
6244	Child day care services	35	5 322	2 079	533	252	25	6
See f	ootnotes at end of table.							

See footnotes at end of table.

2002 Economic Census of Island Areas

Table 1. General Statistics by Kind of Business for Guam: 2002-Con.

[Includes only establishments of firms with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see note at the end of the table.]

2002 NAICS code	Kind of business	Estab- lishments (number)	Sales/ receipts/ revenue/ shipments ¹ (\$1,000)	Annual payroll (\$1,000)	First-quarter payroll (\$1,000)	Paid employees for pay period including March 12 (number)	Proprietors and partners ² (number)	Unpaid family workers ² (number)
71	Arts, entertainment, and recreation	51	D	D	D	f	D	D
711	Performing arts, spectator sports, and related industries	8	D	D	D	е	D	D
713 7131 7132 7139	Amusement, gambling, and recreation industries Amusement parks and arcades Gambling industries. Other amusement and recreation services	43 15 3 25	39 904 12 976 235 26 693	10 601 3 088 93 7 420	2 638 742 23 1 873	654 225 9 420	9 4 1 4	1 - - 1
72	Accommodation and food services	392	629 672	168 623	40 560	11 199	145	14
721	Accommodation	42	356 096	90 961	21 830	5 463	9	-
722 7221 7222 7223 7224	Food services and drinking places Full-service restaurants Limited-service eating places Special food services Drinking places (alcoholic beverages)	350 140 109 19 82	273 576 89 372 69 892 99 454 14 858	77 662 24 794 17 916 31 316 3 636	18 730 6 238 4 309 7 310 873	5 736 2 262 1 806 1 276 392	136 49 35 9 43	14 6 4 1 3
81	Other services (except public administration)	232	167 628	37 667	8 905	1 963	93	7
811 8111 81111	Repair and maintenance Automotive repair and maintenance Automotive mechanical and electrical repair and	116 69	98 815 51 637	20 823 10 156	4 883 2 552	937 540	49 35	3 2
81112 81119 8112	Automotive body, paint, interior, and glass repair. Other automotive repair and maintenance Electronic and precision equipment repair and	42 16 11	24 450 4 523 22 664	4 862 1 345 3 949	1 192 326 1 034	275 73 192	22 8 5	1 - 1
8113	maintenance Commercial and industrial machinery and equipment (except automotive and electronic)	15	11 532	2 567	629	101	6	-
8114	repair and maintenance Personal and household goods repair and	17	19 765	5 661	1 156	191	1	-
81141	maintenance Home and garden equipment and appliance	15	15 881	2 439	546	105	7	1
81142 81149	repair and maintenance Reupholstery and furniture repair Other personal and household goods repair and	12 1	15 189 D	2 216 D	502 D	96 a	6 D	1 D
	maintenance	2	D	D	D	а	D	D
812 8121 8122 8123 8129	Personal and laundry services Personal care services Death care services Drycleaning and laundry services Other personal services	93 49 9 14 21	56 417 10 283 8 865 10 720 26 549	13 807 4 389 2 152 2 961 4 305	3 314 1 069 542 734 969	874 329 131 196 218	38 24 - 7 7	4 1 - 3
813 8132 8133 8134 8139	Religious, grantmaking, civic, professional, and similar organizations	23 1 5 6	12 396 D 6 093 D	3 037 D 1 396 D	708 D 330 D	152 a 65 b	6 D 2 D	_ D _ D
	organizations	11	4 650	1 244	279	65	2	

¹For explanation of terms and problems of duplication for construction and manufacturing, see Appendix A.
²Includes only those who worked 15 hours or more during week including March 12.
³Data do not include large certified passenger carriers that report to the Office of Airline Information, U.S. Department of Transportation.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau supresses data to protect the identity of any business or individual. The census results in this table contain nonsampling error. Data users who create their own estimates using data from this table should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For the full technical documentation, see Appendix C.

Represents zero or rounds to zero
Source: U.S. Bureau of the Census, "Population and Housing Profile: 2000 Guam"

Subject	Guam	Agana Heights	Agat	Asan - Maina	Barrigada	СРО	Dededo	Hagâtña	Inarajan	Mangilao	Merizo	MTM	Piti	Santa Rita	Sinajana	Talofofo	Tamuning	Umatac	Yigo	Yona
RELATIONSHIP Total population In households Householder Spouse Child Own child under 18 years Other relatives Under 18 years Nonrelatives Unmarried partner In group quarters Institutionalized population Noninstitutionalized population	154,805 150,928 38,769 22,693 58,982 42,353 24,258 11,767 6,226 2,702 3,877 976 2,901	3,940 3,862 1,058 543 1,414 946 670 342 177 86 78 771	5,656 5,633 1,298 707 2,304 1,582 1,044 582 280 122 23	2,090 2,089 552 287 835 581 318 161 97 50 - 1	8,652 8,481 2,097 1,269 3,278 2,225 1,503 791 334 145 171 60 111	5,923 5,846 1,573 2,322 1,594 886 464 272 140 77 - 77	42,980 42,635 10,016 6,343 17,158 11,933 7,681 3,492 1,437 613 345 27 318	1,100 822 268 116 263 183 183 119 43 56 277 278 278 278 209 69	3,052 3,036 644 389 1,286 872 586 364 131 65 16	13,313 12,474 3,190 1,750 4,872 3,549 2,054 953 608 280 839 673 166	2,163 2,163 471 268 880 625 450 285 94 51 -	5,845 5,833 1,633 760 2,363 1,779 813 398 264 146 12	1,666 1,613 474 253 529 372 261 125 96 41 53	7,500 6,512 1,780 1,296 2,565 1,965 704 350 167 65 988 - 988	2,853 2,850 742 372 1,077 683 511 270 148 68 3 - 3	3,215 3,192 738 434 1,348 970 519 290 153 86 23	18,012 17,619 5,953 2,872 5,602 4,237 2,088 773 1,104 347 393	887 887 162 88 371 228 215 142 51 19 -	19,474 18,947 4,634 3,247 7,711 6,059 2,818 1,305 537 239 527	6,484 6,434 1,486 2,804 1,970 1,018 637 220 112 50
HOUSEHOLDS BY TYPE Total households Family households (families) With own children under 18 years Married-couple families With own children under 18 years Female householder, no husband present With own children under 18 years Nonfamily households Householder living alone Householder 65 years and over	38,769 32,367 19,678 22,693 13,964 6,84 3,753 6,402 5,082 659	1,058 858 471 543 302 229 114 200 158 28	1,298 1,119 655 707 410 289 170 179 149 37	552 464 259 287 168 109 55 88 74 13	2,097 1,820 1,049 1,269 754 354 192 277 224 27	1,573 1,248 764 793 471 289 185 325 265 21	10,016 8,874 5,405 6,343 3,949 1,661 970 1,142 906 138	268 184 94 116 60 41 21 84 60 9	644 587 362 389 246 125 69 57 44 16	3,190 2,653 1,642 1,750 1,074 584 378 537 393 31	471 417 247 268 160 92 54 54 54 40 13	1,633 1,248 763 760 455 329 205 385 325 43	474 366 199 253 148 64 30 108 87 10	1,780 1,557 1,006 1,296 858 168 89 223 190 24	742 612 317 372 188 163 88 130 102 21	738 653 417 434 276 141 91 85 60 17	5,953 4,031 2,260 2,872 1,596 755 452 1,922 1,518 136	162 150 95 88 57 36 20 12 11 2	4,634 4,202 2,844 3,247 2,225 579 390 432 357 59	1,486 1,324 829 906 567 276 180 162 119 14
Households with individuals under 18 years Households with individuals 65 years and over	23,346 6,247	603 209	823 295	315 104	1,297 377	913 193	6,495 1,935	111 48	457 99	1,928 433	327 95	911 262	246 72	1,115 229	419 153	500 107	2,542 796	129 22	3,217 618	998 200
Average household size Average family size	3.89 4.27	3.65 4.06	4.34 4.62	3.78 4.10	4.04 4.32	3.72 4.21	4.26 4.51	3.07 3.71	4.71 4.85	3.91 4.27	4.59 4.83	3.57 4.15	3.40 3.85	3.66 3.93	3.84 4.20	4.33 4.52	2.96 3.62	5.48 5.49	4.09 4.28	4.33 4.57
SCHOOL ENROLLMENT Population 3 years and over enrolled in school Nursery school, preschool Kindergarten Elementary school (grades 1-8) High school (grades 9-12) College or graduate school	46,828 1,782 3,134 23,969 10,664 7,279	1,141 51 89 555 252 194	1,846 81 127 997 411 230	672 35 49 359 133 96	2,736 125 179 1,327 632 473	1,883 67 125 929 466 296	12,867 437 851 6,854 2,929 1,796	217 8 10 93 58 48	1,067 37 72 568 268 122	4,034 132 256 1,941 970 735	723 19 49 400 194 61	1,915 54 124 960 511 266	488 24 19 245 106 94	2,127 103 121 1,044 415 444	858 36 59 430 198 135	1,086 43 70 559 262 152	4,394 217 310 2,114 938 815	285 9 16 159 82 19	6,174 223 459 3,261 1,235 996	2,315 81 149 1,174 604 307
EDUCATIONAL ATTAINMENT Population 25 years and over Less than 9 th grade 9 th to 12 th grade, no diploma High school graduate (includes equivalency) Some college, no degree Associate degree Bachelor's degree Graduate or professional degree	83,281 7,843 11,862 26,544 16,611 3,787 12,774 3,860	2,215 166 264 699 473 109 371 133	2,853 276 543 970 512 119 346 87	1,169 75 166 413 236 45 159 75	4,774 421 610 1,625 919 191 719 289	3,163 230 492 1,162 589 129 379 182	22,778 2,718 3,483 6,893 4,393 979 3,686 626	708 70 132 229 130 22 83 42	1,443 152 311 593 228 37 90 32	7,230 717 1,257 2,241 1,348 295 1,037 335	1,023 89 186 450 182 26 68 22	3,101 277 482 1,082 589 129 398 144	984 69 119 282 207 37 176 94	3,920 198 302 1,222 1,035 263 713 187	1,604 115 250 565 312 57 201 104	1,600 139 236 607 272 54 187 105	11,397 1,029 1,271 3,336 2,217 535 2,262 747	407 20 95 213 56 5 14 4	9,734 892 1,131 2,820 2,385 626 1,477 403	3,178 190 532 1,142 528 129 408 249
Percent high school graduate or higher Percent bachelor's degree or higher	76.3 20.0	80.6 22.8	71.3 15.2	79.4 20.0	78.4 21.1	77.2 17.7	72.8 18.9	71.5 17.7	67.9 8.5	72.7 19.0	73.1 8.8	75.5 17.5	80.9 27.4	87.2 23.0	77.2 19.0	76.6 18.3	79.8 26.4	71.7 4.4	79.2 19.3	77.3 20.7
) = Chalan f	

- Represents zero or rounds to zero

Source: U.S. Bureau of the Census, "Population and Housing Profile: 2000 Guam"

Prepared by: Bureau of Planning

CPO = Chalan Pago-Ordot MTM = Mongmong-Toto-Maite

Subject	Guam	Agana Heights	Agat	Asan - Maina	Barrigada	CPO	Dededo	Hagåtña	Inarajan	Mangilao	Merizo	MTM	Piti	Santa Rita	Sinajana	Talofofo	Tamuning	Umatac	Yigo	Yona
MARITAL STATUS Males 15 years and over Never married Now married, except separated Separated Widowed Divorced	54,872 20,570 29,829 608 804 3,061	1,381 586 676 13 17 89	1,876 812 890 15 44 115	742 314 345 13 12 58	3,005 1,170 1,592 27 41 175	2,073 868 993 32 41 139	14,692 5,155 8,495 143 222 677	568 242 235 17 11 63	980 436 468 13 15 48	5,007 2,031 2,547 55 64 310	671 298 328 4 7 34	1,957 827 944 22 41 123	669 274 323 4 14 54	2,973 1,038 1,733 34 29 139	998 423 455 11 24 85	1,079 465 506 13 22 73	7,145 2,389 4,093 114 72 477	294 154 123 3 5 9	6,638 2,204 3,990 54 89 301	2,124 884 1,093 21 34 92
Females 15 years and over Never married Now married, except separated Separated Widowed Divorced	52,777 17,141 27,676 845 3,449 3,666	1,446 529 648 21 126 122	1,864 683 876 26 152 127	699 209 351 11 58 70	3,062 1,041 1,538 39 229 215	2,045 773 962 39 124 147	14,853 4,641 8,071 255 1,020 866	331 131 142 5 19 34	997 389 463 13 75 57	4,465 1,606 2,211 76 256 316	704 280 314 11 47 52	2,016 716 903 41 147 209	571 183 287 10 43 48	2,458 728 1,469 24 122 115	1,019 374 446 13 89 97	1,052 379 505 16 74 78	6,449 1,837 3,458 137 394 623	276 122 113 7 18 16	6,316 1,724 3,863 68 325 336	2,154 796 1,056 33 131 138
FERTILITY Women 15 to 24 years Children ever born Per 1,000 women Women ever married Children ever born Per 1,000 women	11,955 5,568 466 1,867 2,104 1,127	306 139 454 50 51 1,020	443 276 623 48 64 1,333	126 54 429 18 19 1,056	668 306 458 76 110 1,447	476 227 477 58 66 1,138	3,401 1,562 459 518 609 1,176	67 40 597 13 23 1,769	262 152 580 33 38 1,152	1,094 505 462 157 189 1,204	185 121 654 20 29 1,450	438 225 514 45 70 1,556	116 40 345 15 12 800	676 197 291 139 112 806	214 116 542 26 39 1,500	254 163 642 36 56 1,556	1,070 389 364 162 161 994	79 59 747 8 10 1,250	1,528 703 460 375 351 936	552 294 533 70 95 1,357
Women 25 to 34 years Children ever born Per 1,000 women Women ever married Children ever born Per 1,000 women	12,539 22,342 1,782 8,176 16,317 1,996	353 536 1,518 193 359 1,860	404 906 2,243 221 556 2,516	158 301 1,905 98 200 2,041	641 1,133 1,768 377 787 2,088	475 841 1,771 267 548 2,052	3,314 6,099 1,840 2,204 4,586 2,081	67 82 1,224 37 66 1,784	215 496 2,307 120 299 2,492	1,077 1,961 1,821 632 1,303 2,062	154 389 2,526 81 221 2,728	469 880 1,876 271 606 2,236	129 191 1,481 68 121 1,779	650 1,042 1,603 523 883 1,688	213 353 1,657 111 232 2,090	245 461 1,882 148 333 2,250	1,702 2,253 1,324 1,151 1,770 1,538	70 165 2,357 34 104 3,059	1,714 3,160 1,844 1,350 2,605 1,930	489 1,093 2,235 290 738 2,545
Women 35 to 44 years Children ever born Per 1,000 women No children 1 child 2 children 3 children 4 children 5 or more children Women ever married Children ever born Per 1,000 women	11,105 27,286 2,457 1,688 1,653 2,741 2,390 1,360 1,273 9,461 24,637 2,604	274 648 2,365 53 33 66 56 38 28 217 557 2,567	342 963 2,816 41 48 76 62 56 59 283 834 2,947	154 398 2,584 20 24 33 37 20 20 131 364 2,779	636 1,548 2,434 96 94 155 138 87 66 529 1,398 2,643	455 1,088 2,391 82 79 98 76 64 56 372 934 2,511	3,055 7,851 2,570 396 435 757 716 367 384 2,632 7,128 2,708	71 153 2,155 18 13 15 10 7 8 48 121 2,521	210 636 3,029 26 24 35 50 34 41 169 543 3,213	927 2,361 2,547 137 114 206 212 154 104 779 2,134 2,739	159 485 3,050 19 16 27 39 26 32 129 434 3,364	444 1,151 2,592 87 56 93 69 64 75 366 1,030 2,814	99 214 2,162 11 22 24 29 10 3 87 205 2,356	506 1,124 2,221 68 74 161 127 53 23 467 1,076 2,304	201 473 2,353 38 36 35 47 20 25 145 390 2,690	230 687 22987 22 28 47 53 38 42 197 601 3,051	1,482 2,671 1,802 362 300 417 218 97 88 1,247 2,459 1,972	51 156 3,059 7 4 9 12 8 11 41 125 3,049	1,383 3,461 2,503 157 203 397 337 142 1,256 3,226 2,568	426 1,218 2,859 48 50 90 102 75 61 366 1,078 2,945
GRANDPARENTS AS CAREGIVERS Grandparents living in households with one or more grandchild under 18 years Grandparent responsible for grandchild Less than 6 months 6 to 11 months 1 or 2 years 3 or 4 years 5 years or more	9,145 3,709 334 299 834 636 1,606	255 115 14 5 20 19 57	383 157 11 9 27 32 78	117 48 4 3 7 15 19	572 223 15 17 32 48 111	327 138 8 13 37 24 56	2,940 1,091 101 90 221 200 479	36 15 2 - 1 7 5	222 126 11 9 30 19 57	743 297 22 23 77 56 119	186 106 9 7 24 15 51	294 130 7 8 25 20 70	94 40 1 3 6 24	305 136 15 11 38 24 48	193 91 4 7 17 20 43	226 121 11 22 35 9 44	670 217 24 22 60 24 87	103 53 8 5 15 7 18	1,036 394 41 26 100 65 162	443 211 26 19 62 26 78
VETERAN STATUS Civilian population 18 years and over Civilian veterans	95,510 8,962	2,537 332	3,419 387	1,312 153	5,573 551	3,767 363	26,671 1,680	859 78	1,792 191	8,661 733	1,230 169	3,612 315	1,112 190	3,849 922	1,846 250	1,916 254	12,661 784	506 52	10,369 1,069	3,818 489

Represents zero or rounds to zero
Source: U.S. Bureau of the Census, "Population and Housing Profile: 2000 Guam"

CPO = Chalan Pago-Ordot MTM = Mongmong-Toto-Maite

DISABILITY STATUS OF THE CIVILIAN NONINSTITUTIONALIZED POPULATION 44,52 Population 5 to 20 years 44,53 With a disability 2,33 Population 21 to 64 years 79,93 With a disability 17,44 Percent employed 62 No disability 62,55 Population 65 years and over 8,11 With a disability 3,60 RESIDENCE IN 1995 138,00 Population 5 years and over 138,00 Same house 73,12	70 4 30 2,11 05 36 2.7 56 25 1,7 5.9 71 56 2 65 14 20 3,5 20 2,0 2,0	19 85 17 2,782 19 594 18 2,186 1 58.9 12 372 14 202	37 1,097 342 66.7 755 65.8 144	66.3 510	1,805 82 3,207 639 62.4 2,568 65.0	12,721 708 22,176 5,170 63.9 17,006	206 7 538 130 62.3	1,057 72 1,517 414	3,763 198 6,878 1,294	739 30 1,024 193	1,795 99 3,007 788	441 26 957 134	1,845 72 3,262	809 31 1,545	1,040 45 1,640	3,967 251 11,022	307 10 435	5,784 289	2,224 136
With a disability 17,44 Percent employed 62 No disability 62,53 Percent employed 65 Population 65 years and over 8,11 With a disability 3,60 RESIDENCE IN 1995 138,02 Population 5 years and over 138,02 Same house 73,12	05 33 2.7 56 25 1,74 5.9 71 56 2 65 14 20 3,54 20 2,0	59 594 8 45.8 8 2,188 1 58.9 72 372 14 202	342 66.7 755 65.8 144	1,182 62.5 3,463 66.3 510	639 62.4 2,568	5,170 63.9	130	414								11,022	435	0.001	0.00-
With a disability 3,66 RESIDENCE IN 1995 Population 5 years and over Same house 73,12	65 14 20 3,54 20 2,0	4 202				66.7	408 63.2	55.1 1,103 55.2	62.7 5,584 65.2	49.2 831 56.6	64.1 2,219 65.2	60.4 823 74.4	507 59.8 2,755 64.8	293 54.6 1,252 65.4	227 44.1 1,413 64.2	2,612 72.3 8,410 71.0		8,831 1,679 63.2 7,152 64.2	3,260 760 54.5 2,500 62.8
Population 5 years and over138,02Same house73,12	20 2,0			241	246 123	2,563 1,062	68 30	124 64	560 239	118 71	347 167	89 48	306 137	189 93	144 69	1,032 403	23 13	803 346	246 129
Different house in Guam40,9-Same district15,00Different district225,81Outside Guam220,91Commonwealth of the Northern Mariana Islands90Federated States of Micronesia1,8Palau22Other Pacific Island14Asia8,12China1,22Japan1,11Korea66Philippines4,82United States11,73California2,99Elsewhere90	93 19 52 80 55 4 55 4 17 4 67 41 44 4 05 99 47 22 22 4 67 5	76 2,993 77 1,525 90 722 93 468 95 23 93 468 95 23 93 468 95 23 93 468 95 23 90 190 30 190 30 190 30 190 30 190 46 166	1,144 541 97 444 199 10 5 6 6 26 26 3 8 2 10 138 50	43 149 13 5 284 41 14 26 190 338	5,310 3,178 1,609 319 1,290 523 34 60 2 2 2 168 10 28 19 90 250 68 7	38,152 21,626 11,183 5,571 5,343 197 441 2,515 153 191 73 2,072 2,020 613 95	1,023 440 373 11 362 210 13 31 2 1 109 37 2 6 58 51 14 3	2,709 1,977 649 284 365 83 7 4 - - - - - 4 4 4 51 18 8 6	11,958 6,389 3,743 933 2,810 1,826 100 231 65 8 884 388 66 27 369 503 121 35	1,890 1,249 541 318 223 100 - 5 - 4 22 - 5 - - 5 - - 17 69 21 -	5,185 2,767 1,834 388 1,446 584 41 114 6 24 162 111 16 18 103 228 65 9	1,536 900 385 44 341 251 10 13 - 3 62 10 13 13 1 37 152 40 11	6,724 2,635 1,247 487 760 2,842 14 15 47 2 2900 7 7 112 11 142 2,372 740 102	2,572 1,570 766 236 226 34 3 3 - 46 100 7 7 4 22 121 32 10	2,838 1,785 829 277 552 224 11 27 6 6 28 8 8 10 5 146 29 6	16,301 6,415 5,689 2,659 3,030 4,197 249 352 23 2,082 469 371 376 805 1,308 349 148	767 548 191 66 125 28 - 2 2 - 5 - 5 - 1 20 2 2 -	17,093 7,108 4,902 1,528 3,374 5,083 83 219 29 26 1,081 292 292 57 654 3,261 476 384	5,764 3,645 1,690 618 1,072 429 22 32 2 2 2 2 3 94 24 20 12 31 255 80 21
NATIVITY, CITIZENSHIP STATUS, AND YEAR OF ENTRY Total population154,80Native105,11Born in Guam80,73Born in United States19,00Born in Puerto Rico or other U.S. Island Area2,33Born abroad of U.S. parent(s)29,93Foreign born49,63Entered 1990 to 200028,93Entered before 199020,63Naturalized citizen21,63Entered 1990 to 20007,22Entered 1990 to 20007,23Not a citizen27,94Entered 1990 to 200021,77Entered 1990 to 200021,77Entered before 19906,23	86 3,33 37 2,66 96 50 77 5 76 4 89 30 300 22 75 29 84 10 91 19 44 30 005 24	22 4,539 33 3,970 38 413 37 77 88 1,117 32 464 36 653 36 651 36 652 36 653 36 653 36 653 36 653 36 653 36 653 36 653 36 653 36 653 36 653 36 653 36 653 36 653 36 653 37 72	1,831 1,453 320 27 31 259 153 106 121 45 76 138 108	6,393 5,379 755 131 128 2,259 1,213 1,046 999 275 724 1,260 938	5,923 4,724 3,906 610 108 100 1,199 741 458 439 166 273 760 575 185	42,980 24,617 19,919 3,106 759 8,33 18,363 9,749 8,614 9,175 2,720 6,455 9,188 7,029 2,159	1,100 703 574 93 17 19 397 90 75 300 75 300 45 322 277 45	3,052 2,904 2,619 2111 40 34 148 68 53 8 8 45 95 72 23	13,313 8,924 7,361 1,123 247 193 4,389 2,685 1,704 1,564 4695 2,825 2,216 609	2,163 2,088 1,859 191 13 25 75 45 30 31 15 16 44 30 14	5,845 4,228 3,529 494 119 86 1,617 949 668 591 212 379 1,026 737 289	1,666 1,426 997 370 19 40 240 172 68 78 35 43 162 137 25	7,500 6,022 2,860 2,887 64 2111 1,478 980 498 959 541 418 519 439 80	2,853 2,432 2,085 280 36 31 421 266 155 166 60 106 255 206 49	3,215 2,972 2,972 399 47 31 243 146 97 80 23 57 163 123 40	18,012 8,273 5,616 2,053 235 3,69 9,739 6,444 3,295 3,172 1,209 1,963 6,567 5,235 1,332	887 866 806 52 4 4 21 11 10 11 3 8 10 8 2	19,474 13,078 7,697 4,478 303 6,396 3,847 2,549 2,965 1,161 1,804 3,431 2,686 745	6,484 5,844 4,919 753 94 78 640 355 285 285 289 89 200 351 266 85

Source: U.S. Bureau of the Census, "Population and Housing Profile: 2000 Guam"

Subject	Guam	Agana Heights	Agat	Asan - Maina	Barrigada	CPO	Dededo	Hagåtña	Inarajan	Mangilao	Merizo	МТМ	Piti	Santa Rita	Sinajana	Talofofo	Tamuning	Umatac	Yigo	Yona
PLACE OF BIRTH Total population Born in Guam Born outside Guam Commonwealth of the Northern Mariana Islands Federated States of Micronesia Palau Other Pacific Island Asia China Japan Korea Philippines United States California Hawaii Elsewhere	154,805 80,737 74,068 2,183 6,983 1,334 426 42,121 2,711 2,454 3,250 32,625 19,096 4,388 1,445 1,925	3,940 2,693 1,247 35 164 28 13 442 10 37 28 351 508 141 60 57	5,656 3,970 1,686 75 88 16 10 1,047 1 1 24 18 998 413 142 53 37	2,090 1,453 637 25 555 24 2 185 13 127 320 111 25 26	8,652 5,379 3,273 112 407 53 12 1,802 164 80 233 1,264 755 172 100 132	5,923 3,906 2,017 106 289 32 5 934 71 670 670 670 670 179 55 41	42,980 19,919 23,061 709 1,983 403 91 16,488 464 354 15,010 3,106 8000 311 281	1,100 574 526 16 135 14 2 258 51 11 11 31 31 33 266 12 8	3,052 2,619 433 37 53 3 3 3 3 3 3 3 3 3 3 7 62 211 62 211 9 19 33	13,313 7,361 5,952 232 733 3366 42 3,367 496 1766 168 2,389 1,123 284 141 119	2,163 1,859 304 12 26 9 5 50 3 7 2 36 191 63 21 11	5,845 3,529 2,316 114 417 566 48 1,126 59 54 195 770 494 158 50 61	1,666 997 669 15 41 669 22 22 25 111 370 93 22 45	7,500 2,860 4,640 47 35 13 6 1,421 8 99 19 1,265 2,887 567 101 231	2,853 2,085 768 33 1211 116 31 36 311 43 162 280 707 28 25	3,215 2,495 720 44 96 244 6 132 10 28 12 73 399 114 27 19	18,012 5,616 12,396 211 1,161 1,94 1,055 1,840 4,008 2,053 4,79 1,822 2,81	887 806 81 2 4 3 1 1 4 3 2 2 5 25 25 25 4 5 2 5 2 5 5 2 5	19,474 7,697 11,777 272 1,019 87 63 5,437 47 250 135 4,893 4,478 699 99 171 421	6,484 4,919 1,565 86 156 17 6 455 63 53 28 274 753 189 63 92
MOTHER'S PLACE OF BIRTH Total population Born in Guam Born in the United States Born in Puerto Rico or other U.S. Island Area Born elsewhere	154,805 62,804 17,067 4,112 70,822	3,940 2,468 447 70 955	5,656 3,506 347 155 1,648	2,090 1,368 275 55 392	8,652 4,461 692 233 3,266	5,923 3,511 616 186 1,610	42,980 12,564 2,612 1,390 26,414	1,100 503 76 21 500	3,052 2,564 161 68 259	13,313 5,846 965 401 6,101	2,163 1,822 147 50 144	5,845 2,866 434 196 2,349	1,666 912 325 34 395	7,500 2,410 2,594 136 2,360	2,853 1,953 217 55 628	3,215 2,349 353 97 416	18,012 3,265 1,780 275 12,692	887 795 42 6 44	19,474 5,073 4,241 481 9,679	6,484 4,568 743 203 970
FATHER'S PLACE OF BIRTH Total population Born in Guam Born in the United States Born in Puerto Rico or other U.S. Island Area Born elsewhere	154,805 59,445 20,111 4,081 71,168	3,940 2,323 534 70 1,013	5,656 3,186 454 159 1,857	2,090 1,276 320 68 426	8,652 4,346 776 219 3,311	5,923 3,354 668 266 1,635	42,980 11,750 3,341 1,223 26,666	1,100 454 110 30 506	3,052 2,530 154 79 289	13,313 5,576 1,162 420 6,155	2,163 1,796 177 35 155	5,845 2,749 529 205 2,362	1,666 821 442 41 362	7,500 2,291 2,793 128 2,288	2,853 1,827 274 81 671	3,215 2,259 394 99 463	18,012 2,925 2,211 273 12,603	887 770 65 10 42	19,474 4,828 4,886 462 9,298	6,484 4,384 821 213 1,066
LANGUAGE SPOKEN AT HOME Population 5 years and over English only Language other than English Speak other language Less frequently than English Equally often with English More frequently than English	138,020 52,831 85,189 21,114 31,503 31,654	3,546 1,572 1,974 761 693 519	4,986 2,050 2,936 911 1,207 816 2	1,884 929 955 327 371 253	7,782 2,976 4,806 1,416 1,759 1,592	5,310 2,221 3,089 964 1,242 869	38,152 12,505 25,647 5,191 9,389 10,926	1,023 318 705 167 234 282	2,709 874 1,835 651 739 437	11,958 4,340 7,618 1,874 2,596 2,860	1,890 690 1,200 482 465 251 2	5,185 2,021 3,164 815 1,263 1,074	1,536 804 732 299 253 167	6,724 3,848 2,876 954 1,091 828	2,572 1,107 1,465 497 528 436 436	2,838 1,362 1,476 549 580 344 3	16,301 4,491 11,810 1,872 3,545 6,102	767 291 476 196 207 73	17,093 7,817 9,276 2,083 3,982 3,162	5,764 2,615 3,149 1,105 1,359 663
Does not speak English Chamorro Philippine languages Other Pacific Island languages Asian languages	918 30,708 30,588 9,416 9,624	1 1,303 319 209 89	2 1,796 938 124 40	4 687 102 77 49	39 2,393 1,206 475 563	14 1,607 507 294 225	141 5,569 14,477 2,865 1,608	22 288 144 143 109	8 1,617 46 62 44	288 2,883 2,226 1,166 1,020	2 1,103 26 36 21	12 1,418 701 540 392	13 447 93 53 66	3 1,150 1,115 49 105	4 1,039 131 136 126	3 1,211 67 110 50	291 1,307 3,730 1,554 4,478	453 8 8 5	49 2,185 4,505 1,303 483	22 2,252 247 212 151
Represents zero or rounds to zero																			D = Chalan	

- Represents zero or rounds to zero

Source: U.S. Bureau of the Census, "Population and Housing Profile: 2000 Guam"

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Geography: Guam and Election District (Village) Subject	Guam	Agana Heights	Agat	Asan - Maina	Barrigada	СРО	Dededo	Hagåtña	Inarajan	Mangilao	Merizo	МТМ	Piti	Santa Rita	Sinajana	Talofofo	Tamuning	Umatac	Yigo	Yona
EMPLOYMENT STATUS Population 16 years and over In labor force Civilian labor force Employed Also did subsistence activity Unemployed Percent of civilian labor force Armed forces Not in labor force Subsistence activity only	105,014 68,894 64,452 57,053 4,480 7,399 11.5 4,442 36,120 2,382	2,762 1,848 1,747 1,575 101 172 9.8 101 914 68	3,638 2,108 2,082 1,728 109 354 17.0 26 1,530 87	1,400 890 864 781 96 83 9.6 26 510 30	5,904 3,719 3,692 3,293 279 399 10.8 27 2,185 170	4,026 2,603 2,551 2,273 168 278 10.9 52 1,423 92	28,787 19,168 18,494 16,278 1,165 2,216 12.0 674 9,619 616	884 451 449 378 27 71 15.8 2 433 17	1,918 1,091 1,080 902 100 178 16.5 11 827 68	9,239 5,550 5,466 4,847 335 619 11.3 84 3,689 257	1,332 729 720 607 77 113 15.7 9 603 49	3,853 2,474 2,438 2,135 184 303 12.4 36 1,379 86	1,214 852 803 746 53 57 7.1 49 362 35	5,339 3,838 2,527 2,293 183 234 9,3 1,311 1,501 99	1,965 1,235 1,206 1,073 86 133 11.0 29 730 42	2,063 1,270 1,256 1,072 108 184 14.6 14 793 82	13,368 9,513 9,233 8,495 641 738 8.0 280 3,855 219	552 360 358 259 27 99 27.7 2 192 13	12,633 8,671 6,996 6,181 532 815 11.6 1,675 3,962 255	4,137 2,524 2,490 2,137 209 353 14.2 34 1,613 97
Females 16 years and over In labor force Civilian labor force Employed Also did subsistence activity Not in labor force Subsistence activity only	51,478 29,751 28,746 25,444 1,600 21,727 1,125	1,408 850 826 752 28 558 22	1,817 941 939 781 38 876 34	682 384 380 348 37 298 12	2,978 1,641 1,633 1,445 80 1,337 77	2,003 1,136 1,125 1,007 54 867 36	14,493 8,688 8,500 7,556 464 5,805 313	324 184 184 157 6 140 9	970 470 461 387 30 500 25	4,346 2,428 2,405 2,131 119 1,918 140	684 322 320 267 25 362 18	1,961 1,094 1,088 938 59 867 51	559 334 324 293 10 225 16	2,413 1,433 1,090 974 70 980 42	992 541 533 480 24 451 19	1,016 572 569 490 30 444 27	6,331 3,812 3,768 3,426 240 2,519 110	270 145 145 105 5 125 7	6,144 3,633 3,321 2,929 212 2,511 124	2,087 1,143 1,135 978 69 944 43
Own children under 6 years All parents in family in labor force	17,359 9,751	407 295	644 317	217 138	909 581	633 384	4,900 2,813	76 37	332 181	1,400 770	277 132	701 371	129 82	838 360	285 165	387 236	1,813 1,030	103 58	2,567 1,424	741 377
Own children 6 to 17 years All parents in family in labor force	31,144 19,351	714 492	1,229 663	448 287	1,750 1,100	1,198 741	8,870 5,616	122 72	731 381	2,607 1,657	506 283	1,283 787	306 216	1,312 731	553 358	739 478	2,804 1,759	201 128	4,171 2,621	1,600 981
Population 16 to 19 years Not enrolled in school and not high school graduate Unemployed or not in labor force	9,744 1,361 994	228 22 16	374 57 46	114 13 9	553 73 62	404 53 33	2,796 440 288	61 11 9	219 25 24	902 141 104	156 20 14	370 69 51	90 16 13	490 34 23	169 20 14	222 31 31	844 116 83	71 13 12	1,181 137 104	500 70 58
PLACE OF WORK Workers 16 years and over Worked in Guam Same district Different district Worked outside Guam	60,607 60,335 16,808 43,527 272	1,654 1,645 179 1,466 9	1,738 1,730 343 1,387 8	797 794 192 602 3	3,253 3,245 456 2,789 8	2,296 2,287 152 2,135 9	16,671 16,615 3,112 13,503 56	378 377 31 346 1	896 895 194 701 1	4,853 4,837 722 4,115 16	601 599 138 461 2	2,148 2,140 268 1,872 8	791 788 164 624 3	3,582 3,560 1,572 1,988 22	1,084 1,079 90 989 5	1,071 1,067 132 935 4	8,647 8,602 5,812 2,790 45	259 258 29 229 1	7,743 7,680 3,029 4,651 63	2,145 2,137 193 1,944 8
COMMUTING TO WORK Workers 16 years and over Car, truck, or van drove alone Car, truck, or van carpooled Public transportation Public van/bus Boat Taxicab Motorcycle Bicycle Walked Other means Worked at home Mean travel time to work (minutes)	60,607 42,327 14,087 425 278 24 123 86 202 1,483 1,208 789 19.2	1,654 1,158 358 5 4 1 1 - 3 3 60 34 33 33 15.5	1,738 1,210 425 13 12 1 2 5 29 39 15 22.3	797 628 135 2 - 2 - 2 11 3 16 17.5	3,253 2,351 727 7 5 - 2 - 1 1 82 30 55 17.1	2,296 1,660 527 5 2 3 2 30 31 39 19.5	16,671 11,689 4,180 110 60 4 4 46 10 111 184 336 151 20.3	378 230 97 4 3 - 2 30 5 10 15.0	896 618 224 1 - - - 7 26 20 29.3	4,853 3,455 1,130 17 14 1 2 5 5 68 110 63 19.7	601 401 157 8 3 5 - 1 8 14 12 31.6	2,148 1,531 491 14 14 3 3 3 3 8 34 30 15.6	791 547 141 4 3 1 37 43 15 16.6	3,582 2,102 975 70 69 1 1 56 302 36 26 16.8	1,084 812 219 5 3 - 2 - 1 7 7 16 24 16.5	1,071 759 276 7 - 2 6 3 3 18 28.2	76 25 1 50 7 25 352	259 180 66 2 - 2 - 6 1 4 30.3	7,743 5,418 1,588 63 49 2 12 35 82 218 237 102 20.5	2,145 1,582 509 8 7 1 - 1 8 15 22 24.7
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Source: U.S. Bureau of the Census, "Population and Housing Profile: 2000 Guam"

Subject	Guam	Agana Heights	Agat	Asan - Maina	Barrigada	CPO	Dededo	Hagåtña	Inarajan	Mangilao	Merizo	МТМ	Piti	Santa Rita	Sinajana	Talofofo	Tamuning	Umatac	Yigo	Yona
OCCUPATION Employed civilian pop. 16 years and over Management, professional, related occupations Service occupations Sales and office occupations Farming, fishing, and forestry occupations Construction, extraction, maintenance Production, transportation, and material moving	57,053 15,852 12,654 16,027 212 6,771 5,537	1,575 557 268 455 3 167 125	1,728 450 334 500 6 197 241	781 261 130 241 5 76 68	3,293 1,021 654 941 6 355 316	2,273 628 488 653 13 251 240	16,278 3,612 3,997 4,962 29 2,035 1,643	378 109 87 98 1 51 32	902 248 225 220 15 101 93	4,847 1,384 1,033 1,304 25 619 482	607 162 157 164 5 71 48	2,135 660 383 641 5 240 206	746 292 93 178 40 81 62	2,293 811 443 538 2 277 222	1,073 364 160 327 2 87 133	1,072 367 212 292 12 79 110		259 57 63 81 1 31 26	6,181 1,515 1,562 1,722 16 769 597	2,137 751 349 580 5 225 227
INDUSTRY Employed civilian population 16 years and over Agriculture, forestry, fishing and hunting, mining Construction Manufacturing Wholesale trade Retail trade Transportation and warehousing, and utilities Information Finance, insurance, real estate and rental and leasing Professional, scientific, management, administrative, and waste management services Educational, health, and social services Arts, entertainment, recreation, accommodation and food services Other services (except public administration)	57,053 296 5,532 1,155 1,948 7,558 4,319 1,540 3,053 4,277 8,412 10,278 2,158	1,575 6 93 34 355 126 48 109 137 276 177 73	1,728 21 148 35 52 223 146 52 62 108 318 318 178 60	781 6 50 19 300 84 75 29 51 65 125 82 31	3,293 12 296 57 115 404 261 111 205 254 638 464 117	2,273 17 162 57 76 268 222 71 137 182 378 294 91	16,278 42 1,771 344 604 2,612 1,168 369 842 1,113 1,891 3,733 530	378 1 38 7 111 43 30 11 21 32 53 53 67 33	902 9 49 10 62 82 30 35 73 234 87 28	4,847 33 519 124 137 576 396 141 273 368 780 843 172	607 6 35 9 21 55 43 21 37 57 127 88 88 13	2,135 20 186 41 93 251 194 78 145 144 323 301 114	746 11 46 40 200 74 44 33 60 72 119 69 29	2,293 9 124 35 62 270 122 64 70 123 398 205 78	1,073 6 64 20 31 137 84 37 69 78 210 106 52	1,072 16 58 14 400 97 95 30 56 87 254 98 38	1,106 147 347 1,121 619 190 472 761 839 2,047 387	259 2 14 3 7 37 22 7 6 9 54 26 9	6,181 21 601 129 190 902 393 147 279 449 907 1,203 234	2,137 9 172 30 67 187 197 71 124 165 488 210 69
Public administration CLASS OF WORKER Employed civilian population 16 years and over Private wage and salary workers Employees in own incorporated business Government workers Self-employed in own not incorporated business Unpaid family workers	6,527 57,053 39,382 1,141 15,122 2,403 146	306 1,575 893 35 599 75 8	325 1,728 989 18 710 25 4	134 781 448 18 299 32 2	359 3,293 2,239 116 910 131 13	318 2,273 1,431 32 713 118 11	1,259 16,278 12,420 257 3,213 617 28	31 378 274 11 81 23 -	193 902 398 5 478 24 2	485 4,847 3,287 82 1,326 217 17	95 607 339 6 246 20 2	245 2,135 1,421 54 513 115 6	129 746 440 26 249 55 2	733 2,293 1,006 33 1,215 70 2	1,073 621 28 403 48 1	189 1,072 559 18 468 42 3	8,495 6,998 290 969	63 259 96 1 158 5 -	726 6,181 4,325 81 1,623 218 15	348 2,137 1,198 30 869 64 6

Subject	Guam	Agana Heights	Agat	Asan - Maina	Barrigada	CPO	Dededo	Hagåtña	Inarajan	Mangilao	Merizo	MTM	Piti	Santa Rita	Sinajana	Talofofo	Tamuning	Umatac	Yigo	Yona
NCOME IN 1999 Households Less than \$2,500 \$2,500 to \$4,999 \$5,000 to \$9,999 \$15,000 to \$14,999 \$15,000 to \$14,999 \$25,000 to \$24,999 \$35,000 to \$74,999 \$75,000 to \$74,999 \$75,000 to \$79,999 \$100,000 or more Median household income (dollars)	38,769 3,110 698 1,768 2,128 4,758 4,842 6,357 7,175 3,982 3,951 39,317 49,617	1,058 31 13 45 122 126 171 204 139 158 47,396 57,723	1,298 65 35 78 110 174 140 223 252 117 104 37,398 45,306	552 37 8 31 18 51 63 73 102 74 95 48,611 62,476	2,097 121 24 77 93 186 209 339 412 275 361 49,974 62,234	1,573 267 38 80 77 155 146 205 259 174 172 36,506 46,943	10,016 679 185 472 608 1,350 1,330 1,737 1,904 1,005 746 37,654 45,872	268 31 9 11 19 48 27 43 39 17 24 31,136 42,129	644 53 15 26 38 77 64 108 126 69 68 42,361 51,861	3,190 311 70 158 360 360 495 597 358 314 39,754 48,207	471 35 8 20 34 49 48 81 106 51 39 39,940 48,347	1,633 241 34 105 118 210 161 221 248 137 158 31,134 46,866	474 17 9 18 17 50 51 57 89 60 106 54,167 71,191	1,780 56 11 33 56 219 320 371 370 177 41,928 51,521	742 48 21 32 31 67 67 114 146 93 123 48,750 59,090	738 50 18 34 31 74 81 92 149 98 111 47,885 56,255	291 358 781 754 949	162 9 6 10 12 23 23 16 24 17 22 34,286 51,748	4,634 316 66 172 229 634 729 883 892 422 291 37,415 44,848	1,48 9 1 6 7 12 14 17 30 21 26 52,95 62,16
Households With earnings Mean earnings (dollars) With Social Security income Mean Social Security income (dollars) With Supplemental Security Income Mean Supplemental Security Income (dollars) With public assistance income Mean public assistance income Mean retirement income Mean retirement income (dollars)	38,769 32,821 49,337 4,147 7,758 248 6,067 4,211 5,291 6,889 21,750	1,058 934 52,507 139 8,099 10 9,617 98 6,438 279 23,563	1,298 1,045 42,679 204 7,033 20 5,160 281 7,010 409 19,587	552 457 61,256 72 7,510 6 3,646 63 5,120 139 24,243	2,097 1,845	1,573 1,108 54,371 107 6,866 9 8,679 165 5,093 361 24,149	10,016 8,676 45,768 1,327 7,680 63 5,198 1,208 5,513 1,465 18,930	268 212 40,365 32 6,669 - 29 4,219 48 28,988	644 534 49,087 76 5,874 4 3,684 119 4,230 222 23,413	3,190 2,651 49,002 291 8,017 11 8,729 351 5,303 582 22,297	471 379 44,524 59 6,572 3 7,676 86 8,271 151 22,222	1,633 1,233 49,648 174 8,941 9 4,950 219 4,152 272 24,619	474 428 67,143 60 6,407 2 6,636 32 5,251 107 23,045	1,780 1,637 47,563 138 7,884 7 4,617 90 5,693 375 22,332	742 620 56,045 92 8,745 7 5,725 91 4,074 212 23,025	738 613 55,604 57 7,776 5,662 107 6,225 192 23,555	5,953 5,006 50,610 498	162 128 52,720 15 6,210 3 2,215 51 5,718 60 17,406	4,634 4,049 44,498 418 7,488 25 7,240 411 5,199 605 19,605	1,48(1,26(59,03(59,03(13) 8,022 13) 5,901 5,901 5,381 42(24,71)
Families Less than \$2,500 \$2,500 to \$4,999 \$5,000 to \$9,999 \$10,000 to \$14,999 \$25,000 to \$24,999 \$25,000 to \$49,999 \$35,000 to \$49,999 \$50,000 to \$74,999 \$50,000 to \$74,999 \$60,000 to \$74,999 \$60,	32,367 1,982 512 1,461 1,734 3,923 4,082 5,400 6,267 3,536 3,470 41,229 51,674	858 22 12 35 40 92 139 169 118 139 49,625 60,034	1,119 50 21 68 94 152 114 192 227 107 94 39,107 46,716	464 23 5 27 17 35 55 70 87 62 83 50,000 64,164	1,820 79 22 62 71 159 295 370 254 329 51,991 64,065	1,248 151 29 73 55 125 119 172 225 150 149 40,583 51,000	8,874 440 139 421 530 1,185 1,217 1,561 1,758 930 693 39,336 47,443	184 15 6 7 10 28 22 31 13 20 36,111 47,701	587 46 15 22 29 70 62 95 124 63 61 43,365 52,605	2,653 220 57 149 134 296 299 405 502 316 275 40,839 49,667	417 26 8 14 27 47 47 44 75 100 39 37 41,477 49,187	1,248 129 26 83 86 167 126 165 204 126 136 35,473 51,959	366 14 6 15 17 30 32 40 66 51 95 61,500 76,588	1,557 39 22 44 178 277 331 339 161 157 43,794 53,450	612 33 12 24 26 58 50 94 128 84 103 51,500 61,608	653 50 11 31 35 63 67 79 124 93 100 48,304 56,247	4,031 314 63 185 233 537 510 667 679 365 478 38,011 52,937	150 8 6 11 13 19 17 16 25 18 17 36,250 50,722	4,202 248 50 149 203 567 683 812 829 392 269 38,190 45,542	1,324 75 15 63 700 115 117 160 280 194 235 53,704 62,606
Nonfamily households Median nonfamily income (dollars) Mean nonfamily income (dollars)	6,402 22,712 31,264	200 32,083 39,906	179 17,917 23,936	88 25,000 40,546	277 24,821 36,480	325 12,153 23,619	1,142 17,035 23,564	84 19,167 27,867	57 14,063 24,657	537 26,302 32,165	54 14,167 26,917	385 14,955 23,128	108 32,500 45,382	223 26,938 31,393	130 29,000 36,515	85 31,964 37,820	1,922 26,146 35,646	12 15,000 25,403	432 20,208 28,426	162 33,000 45,017
Per capita income (dollars)	12,722	15,803	10,471	16,507	15,210	13,052	10,791	11,514	10,959	11,768	10,528	13,124	20,359	14,474	15,374	12,977	16,328	9,451	11,018	14,389
Median earnings (dollars): Male full-time, year-round workers Female full-time, year-round workers	28,125 24,118	31,711 28,786	29,907 24,844	33,295 29,423	31,706 28,023	30,556 27,230	25,056 21,122	25,625 22,250	27,232 25,852	27,975 25,951	33,125 23,333	29,712 25,851	35,139 27,417	27,854 21,558	34,917 28,250	32,197 28,580	30,765 24,575	26,750 23,750	25,635 22,011	35,152 29,167
Represents zero or rounds to zero ource: U.S. Bureau of the Census, "Population and Housing F	Profile: 2000 (Guam"																	O = Chalan Mongmong	

Familes 6,66 13 254 79 250 320 1,802 44 144 637 80 3372 47 116 144 672 49 672 221 With related childre under 18 years 3,180 61 140 35 12 37 162 51 178 171 62 58 181 388 33 370 130 Pamiles with maine baussholder, no hunder dhien under 5 years 2,44 69 133 27 186 144 647 48 224 415 44 43 50 124 42 42 42 43 51 46 48 43 121 127 50 140 43 43 143 131 121 157 456 48 59 513 447 145 432 43 137 43 332 38 1377 143 143 145 143 53 53 141 131	Subject	Guam	Agana Heights	Agat	Asan - Maina	Barrigada	CPO	Dededo	Hagåtña	Inarajan	Mangilao	Merizo	MTM	Piti	Santa Rita	Sinajana	Talofofo	Tamuning	Umatac	Yigo	Yona
POVERTY STATUS NI 1999 Families distance in the state of		<u>Below</u> Poverty	Below Poverty	Below Poverty	Below Poverty	Below Poverty	Below Poverty	Below Poverty	<u>Below</u> Poverty	Below Poverty	Below Poverty	Below Poverty	Below Poverty	Below Poverty	<u>Below</u> Poverty	Below Poverty	Below Poverty	<u>Below</u> Poverty	Below Poverty	Below Poverty	Below Poverty
no buschend present 2,434 59 133 27 96 134 640 15 44 280 37 162 164 45 50 64 282 20 221 112 With related chiften under 5 years 1,287 29 81 12 55 61 340 474 220 144 32 38 145 65 52 71 53 175 540 42 238 377 175 56 61 320 466 200 4000 402 14.23 175 340 477 1715 63 377 144 215 76 64 893 183 224 243 340 375 144 215 76 84 70 201 1459 253 300 85 124 243 343 1,373 1,33 1,33 163 145 1,33 1,33 1,33 1,33 1,33 1,33 1,33	With related children under 18 years	5,420	97	224	79 67	260 213	320 265	1,802 1,528	44 32	134 110	637 540	90 81	357 312	48 37	124 104	116 96	144 127	872 664	49 45	762 644	261 234
18 years and over 19 years 13 year 32 year 68 years 99 year 18 years 18 years 13 year 18 years	no husband present With related children under 18 years	2,189	48	123	25	87	115	584	12	42	238	35	145	14	43	50	61	240	19	201	107
HOUSING COCUPANCY Total housing units 38,769 1,093 1,499 660 2,307 1,920 12,119 395 701 3,926 535 2,102 576 2,517 747 742 738 5,553 162 4,643 1,483 Occupied housing units 88,769 1,058 1,298 552 2,007 1,210 347 1,332 474 1,780 742 738 5,553 162 4,643 1,465 Yearn housing units 89,069 1,58 1,298 0,3 2,0 1,3 - - 1,1 1,1 1,6 0,4 2,1 - 4,4 1,6 6 8,6 2,82 9,5 9,2 2,62 1,83 - - 1,1 1,1 1,6 0,4 - 1,00 4,2 1,0 4,4 1,6 6,4 1,0 0,4 2,1 - 4,4 1,6 6,4 1,0 7,8 5,50 8,5 1,16 1,16 1,13 1,10 1,13 1,10 1,10 1,10 3,2 2,1	18 years and over 65 years and over Related children under 18 years	19,143 1,302 15,509 10,247	332 29 266 177	682 51 711 463	216 23 203 151	884 65 633 427	957 52 676 456	5,158 392 4,545 3,002	207 16 87 54	392 29 320 224	1,831 89 1,459 945	221 18 253 162	983 63 930 633	179 10 85 58	348 29 264 174	332 25 283 198	396 36 384 249	3,078 191 1,575 968	144 8 135 83	2,151 141 1,933 1,295	652 35 767 528
Rental vacancy rate (percent) 19.3 15.8 14.7 8.4 12.5 14.6 16.2 36.1 7.7 25.2 18.2 24.3 29.1 4.2 19.8 8.6 28.2 9.5 9.2 26.7 HOUSING TENURE Orcupied housing units 38,769 1,058 1,298 552 2,097 1,573 10,016 268 644 3,190 471 1,633 474 1,780 742 738 5,953 162 4,634 1,463 Owene-occupied housing units 38,769 1,058 1,298 552 2,097 1,573 10,016 268 6644 3,190 471 1,633 474 1,780 742 738 5,953 162 4,634 1,052 2,014 1,005 2,011 1,007 205 1,120 332 254 4,439 57 2,620 481 Average household size of owner-occupied units 3,89 3,65 4,34 3,78 4,04 3,72 4,26 3,07 4,71 3,91 4,29 3,37 3,40 3,66 3,84 4,33 </td <td>Occupied housing units Vacant housing units</td> <td>47,677 38,769 8,908</td> <td>1,193 1,058 135</td> <td>1,499 1,298 201</td> <td>660 552</td> <td>2,307 2,097</td> <td>1,920 1,573 347</td> <td>12,119 10,016 2,103</td> <td>395 268</td> <td>701 644</td> <td>3,926 3,190 736</td> <td>535 471 64</td> <td>2,102 1,633 469</td> <td>576 474</td> <td>2,517 1,780 737</td> <td>857 742</td> <td>849 738</td> <td>8,108 5,953 2,155</td> <td>179 162</td> <td>5,489 4,634 855</td> <td>1,745 1,486 259</td>	Occupied housing units Vacant housing units	47,677 38,769 8,908	1,193 1,058 135	1,499 1,298 201	660 552	2,307 2,097	1,920 1,573 347	12,119 10,016 2,103	395 268	701 644	3,926 3,190 736	535 471 64	2,102 1,633 469	576 474	2,517 1,780 737	857 742	849 738	8,108 5,953 2,155	179 162	5,489 4,634 855	1,745 1,486 259
Occupied housing units 38,769 1,058 1,298 552 2,097 1,573 10,016 268 644 3,190 471 1,633 474 1,780 742 738 5,553 162 4,664 1,460 Owner-occupied housing units 20,022 531 657 218 793 5,550 82 465 1,601 278 626 269 660 410 484 1,514 105 2,014 1,005 Average household size of occupied units 3,89 3,65 4,34 3,78 4,466 186 179 1,589 13.57 3,40 3,66 3,84 4,33 2.96 5,48 4,09 4,33 Average household size of owner-occupied units 4,32 4,21 4,59 3,57 3,40 3,66 3,84 4,33 2.96 5,48 4,53 4,20 Verage household size of owner-occupied units 4,30 3,09 4,11 4,22 4,09 4,23 3,32 3,31 3,89	Homeowner vacancy rate (percent) Rental vacancy rate (percent)								۔ 36.1	- 7.7					- 4.2				- 9.5		
Average household size of owner-occupied units 4.32 4.21 4.59 4.11 4.22 4.09 4.51 3.27 4.90 4.28 4.82 4.01 3.87 4.23 4.27 4.55 3.35 5.84 4.53 4.39 Average household size of renter-occupied units 3.50 3.09 4.10 3.28 3.76 3.24 3.94 2.98 4.23 3.53 4.26 3.30 2.80 3.31 3.89 2.82 4.81 3.75 4.20 UNITS IN STRUCTURE 643 1.499 660 2.307 1.920 12.119 395 701 3.926 535 2.102 576 2.517 857 849 8.108 1.745 3.690 1.367 1-unit, dtached 8.505 189 207 116 243 268 3.299 24 76 368 50 261 37 950 76 71 554 16 1.572 137 2 units 1.634 57 611 35 125 64 306 222 16 163	HOUSING TENURE Occupied housing units Owner-occupied housing units Renter-occupied housing units	18,747	527	641	334	1,304	878	5,550	82	465	1,601	278	626	269	660	410	484	1,514	105	2,014	1,005
Total housing units47,6771,1931,4996602,3071,92012,1193957013,9265352,1025762,5178578498,1081795,4891,7451-unit, detached24,4706439644481,6011,2196,980985831,9954078163491,3695366831,1641583,0901,3671-unit, attached8,5051892071162432683,299247636850261379507671545161,5721372 units1,63457613512564306221616320896750551515212343 or 4 units2,2927911340884445753526391261667419636-212345 to 9 units2,3067165141189327270-214113381420131,108-682410 to 19 units2,44677414473264104115113224111227-1,408-58120 or more units5,344682-3718737920-6972548 <td>Average household size of occupied units Average household size of owner-occupied units Average household size of renter-occupied units</td> <td>4.32</td> <td>4.21</td> <td>4.59</td> <td>4.11</td> <td>4.22</td> <td>4.09</td> <td>4.51</td> <td>3.27</td> <td>4.90</td> <td>4.28</td> <td>4.82</td> <td>4.01</td> <td>3.87</td> <td>4.23</td> <td>4.27</td> <td>4.55</td> <td>3.35</td> <td>5.84</td> <td>4.53</td> <td>4.39</td>	Average household size of occupied units Average household size of owner-occupied units Average household size of renter-occupied units	4.32	4.21	4.59	4.11	4.22	4.09	4.51	3.27	4.90	4.28	4.82	4.01	3.87	4.23	4.27	4.55	3.35	5.84	4.53	4.39
	UNITS IN STRUCTURE Total housing units 1-unit, detached 1-unit, attached 2 units 3 or 4 units 5 to 9 units 10 to 19 units 20 or more units Mobile home Container Boat, RV, van, etc.	24,470 8,505 1,634 2,292 2,306 2,446 5,344 395 198	643 189 57 79 71 77 68	964 207 61 113 65 41 2 21 4	448 116 35 40	1,601 243 125 88 118 47 37 38	1,219 268 64 44 93 3 187 24	6,980 3,299 306 457 272 264 379 86 62	98 24 22 53 70 104 20	583 76 16 5 - 1 - 8	1,995 368 163 263 214 151 697 42	407 50 20 9 1 13 25 4	816 261 89 126 133 224 435 9	349 37 16 8 11	1,369 950 76 67 14 12 5 10 2	536 76 50 41 20 27	683 71 58 9 13 - 7	1,164 545 151 636 1,108 1,408 3,020	158 16	3,090 1,572 297 212 68 58 110 46	1,367 137 33 34 24 1 123 17

- Represents zero or rounds to zero

Geography: Guam and Election District (Village) Subject	Guam	Agana Heights	Agat	Asan - Maina	Barrigada	CPO	Dededo	Hagåtña	Inarajan	Mangilao	Merizo	MTM	Piti	Santa Rita	Sinajana	Talofofo	Tamuning	Umatac	Yigo	Yona
YEAR STRUCTURE BUILT Total housing units 1999 to March 2000 1995 to 1998 1990 to 1994 1980 to 1989 1970 to 1979 1960 to 1969 1950 to 1959 1940 to 1949 1939 or earlier	47,677 1,960 5,990 8,696 10,486 14,557 4,771 979 154 84	1,193 15 75 150 161 461 264 55 8 4	1,499 70 129 244 364 468 177 26 9 12	660 66 73 91 217 103 21 12 12	2,307 103 254 449 489 783 198 25 3 3 3	1,920 113 291 567 426 388 122 12 12 1	12,119 567 1,926 2,420 2,414 3,148 1,457 164 16 7	395 9 37 23 59 170 73 18 3 3	701 31 97 171 138 179 51 16 5 13	3,926 203 559 975 999 961 188 38 - 3	535 13 56 119 136 158 42 7 3 1	2,102 56 171 318 575 681 204 86 5 6	576 54 39 57 68 274 67 14 2 1	2,517 46 319 176 248 1,334 296 79 17 2	857 13 55 91 108 437 129 21 3 -	849 65 145 175 151 203 92 13 4	8,108 67 560 1,551 2,592 2,550 648 121 12 7	179 11 18 27 57 45 14 4 2 1	5,489 403 939 864 1,064 1,388 524 249 41 17	1,745 55 244 246 346 712 122 10 8 2
ROOMS Total housing units 1 room 2 rooms 3 rooms 4 rooms 5 rooms 5 rooms 6 rooms 7 rooms 8 rooms 9 or more rooms Median (rooms)	47,677 2,449 5,979 9,641 10,039 5,917 2,238 909 613 4.1	1,193 60 92 2266 253 278 146 74 39 25 4.4	1,499 79 249 331 268 316 155 61 20 20 3.8	660 17 53 94 124 196 92 37 20 27 4.7	2,307 79 276 544 365 449 314 138 74 68 4.2	1,920 89 207 411 412 427 224 82 33 35 4.1	12,119 629 1,307 2,644 2,357 2,937 1,475 491 171 108 4.1	395 34 119 42 124 27 22 11 8 8 3.5	701 33 91 138 136 143 90 34 25 11 4.2	3,926 212 561 839 915 696 419 172 76 36 3.9	535 25 67 104 103 123 62 31 8 12 4.2	2,102 87 293 398 539 372 210 116 59 28 4.0	576 26 30 56 124 153 107 45 23 12 4.8	2,517 47 158 277 423 700 651 183 50 28 5.0	857 29 67 177 150 197 123 66 24 24 24	849 36 89 184 136 195 108 54 31 16 4.3	8,108 672 1,567 2,075 1,858 1,085 521 191 76 63 3.4	179 5 19 30 25 55 30 7 5 3 3 4.7	5,489 227 585 1,026 1,022 1,287 841 321 123 57 4.4	1,745 63 149 296 307 403 327 124 44 32 4.6
BEDROOMS Total housing units No bedroom 1 bedroom 2 bedrooms 3 bedrooms 4 bedrooms 5 or more bedrooms	47,677 3,860 7,685 15,311 14,443 4,945 1,433	1,193 67 182 396 377 130 41	1,499 123 286 484 422 149 35	660 28 94 181 270 65 22	2,307 148 407 630 724 310 88	1,920 112 323 601 649 179 56	12,119 1,038 1,680 3,670 3,774 1,470 487	395 37 132 147 52 15 12	701 49 119 227 217 57 32	3,926 323 705 1,348 1,041 395 114	535 47 112 140 168 43 25	2,102 93 493 709 519 210 78	576 31 51 142 207 125 20	2,517 148 171 691 1,044 422 41	857 38 112 248 312 94 53	849 55 137 248 297 83 29	8,108 1,090 1,647 3,124 1,742 363 142	179 9 31 44 68 19 8	5,489 334 753 1,850 1,969 483 100	1,745 90 250 431 591 333 50
SOURCE OF WATER Total housing units Public system only Public system and catchment Individual well Catchment, tanks, or drums only Some other source	47,677 46,734 586 35 118 204	1,193 1,176 14 - 3	1,499 1,458 11 3 11 16	660 650 7 1 1	2,307 2,256 41 1 2 7	1,920 1,889 21 - 2 8	12,119 11,859 124 5 58 73	395 393 1 - 1	701 678 9 1 1	3,926 3,820 81 7 8 10	535 524 5 - 1 5	2,102 2,078 16 1 3 4	576 562 10 - 4	2,517 2,462 43 - - 12	857 847 7 1 - 2	849 827 14 - 2 6	8,108 7,991 95 3 7 12	179 176 1 1 - 1	5,489 5,381 61 10 18 19	1,745 1,707 25 1 4 8
SEWAGE DISPOSAL Total housing units Public sewer Septic tank or cesspool Other means	47,677 34,055 12,381 1,241	1,193 1,008 183 2	1,499 1,237 173 89	660 390 259 11	2,307 1,209 1,058 40	1,920 778 1,048 94	12,119 8,986 2,706 427	395 367 26 2	701 153 509 39	3,926 2,271 1,544 111	535 383 135 17	2,102 1,577 485 40	576 469 88 19	2,517 2,009 460 48	857 766 87 4	849 217 585 47	8,108 7,712 350 46	179 114 56 9	5,489 3,514 1,825 150	1,745 895 804 46
MATERIAL USED FOR OUTSIDE WALLS Total housing units Poured concrete Concrete blocks Metal Wood Other	47,677 12,996 29,661 2,541 1,930 549	1,193 163 989 15 19 7	1,499 140 1,115 119 70 55	660 139 487 12 19 3	2,307 480 1,639 58 110 20	1,920 404 1,215 142 145 14	12,119 3,799 6,607 939 639 135	395 113 262 9 10 1	701 90 442 111 31 27	3,926 803 2,617 274 183 49	535 61 355 72 35 12	2,102 394 1,573 69 57 9	576 253 258 23 26 16	2,517 795 1,549 60 53 60	857 209 618 20 7 3	849 101 630 67 37 14	8,108 3,030 4,818 97 144 19	179 30 103 24 7 15	5,489 1,540 3,272 313 297 67	1,745 452 1,112 117 41 23
- Represents zero or rounds to zero) = Chalan F	

- Represents zero or rounds to zero

Subject	Guam	Agana Heights	Agat	Asan - Maina	Barrigada	СРО	Dededo	Hagåtña	Inarajan	Mangilao	Merizo	MTM	Piti	Santa Rita	Sinajana	Talofofo	Tamuning	Umatac	Yigo	Yona
MATERIAL USED FOR ROOF Total housing units Poured concrete Metal Wood Other	47,677 39,889 6,036 681 1,071	1,193 1,082 88 11 12	1,499 1,110 288 26 75	660 590 52 10 8	2,307 1,985 242 33 47	1,920 1,486 355 45 34	12,119 9,629 2,037 195 258	395 342 46 3 4	701 454 191 20 36	3,926 3,226 560 48 92	535 369 137 7 22	2,102 1,852 184 33 33	576 481 71 9 15	2,517 2,193 186 38 100	857 789 54 6 8	849 649 169 9 22	8,108 7,641 340 46 81	179 118 44 2 15	5,489 4,406 791 123 169	1,745 1,487 201 17 40
MATERIAL USED FOR FOUNDATION Total housing units Concrete Wood pier or pilings Other	47,677 46,471 962 244	1,193 1,180 10 3	1,499 1,424 39 36	660 652 7 1	2,307 2,234 68 5	1,920 1,827 87 6	12,119 11,802 248 69	395 391 4 -	701 667 22 12	3,926 3,801 105 20	535 513 16 6	2,102 2,055 45 2	576 555 14 7	2,517 2,473 23 21	857 853 3 1	849 820 25 4	8,108 8,014 77 17	179 167 2 10	5,489 5,326 144 19	1,745 1,717 23 5
SELECTED CHARACTERISTICS Total housing units Lacking complete plumbing facilities Lacking complete kitchen facilities Without air conditioning	47,677 3,732 4,400 8,320	1,193 81 57 140	1,499 233 230 415	660 41 49 68	2,307 211 198 304	1,920 186 236 387	12,119 1,147 1,437 2,733	395 13 38 94	701 131 159 147	3,926 329 378 732	535 75 89 112	2,102 161 183 414	576 47 64 62	2,517 123 111 173	857 53 59 127	849 114 101 157	8,108 202 303 707	179 32 42 60	5,489 368 504 1,126	1,745 185 162 362
YEAR HOUSEHOLDER MOVED INTO UNIT Occupied housing units 1999 to March 2000 1995 to 1998 1990 to 1994 1980 to 1989 1970 to 1979 1969 or earlier	38,769 10,635 11,250 5,786 5,199 4,728 1,171	1,058 263 242 147 150 179 77	1,298 287 338 205 187 217 64	552 140 124 71 80 84 53	2,097 416 545 344 320 375 97	1,573 391 474 256 219 179 54	10,016 2,395 2,847 1,582 1,588 1,379 225	268 88 74 30 21 31 24	644 77 164 149 93 127 34	3,190 855 891 562 482 340 60	471 87 117 99 83 67 18	1,633 440 459 246 199 214 75	474 99 121 86 61 83 24	1,780 599 587 150 146 243 55	742 156 165 89 102 181 49	738 163 185 155 99 99 37	5,953 2,236 1,963 734 569 314 137	162 28 37 29 38 20 10	4,634 1,626 1,543 602 501 325 37	1,486 289 374 250 261 271 41
VEHICLES AVAILABLE Occupied housing units None 1 2 3 or more Vehicles per household	38,769 2,996 14,180 13,237 8,356 1.8	1,058 61 404 370 223 1.8	1,298 173 470 365 290 1.7	552 35 185 203 129 1.9	2,097 133 641 748 575 2.0	1,573 107 582 549 335 1.8	10,016 670 3,353 3,458 2,535 1.9	268 32 117 84 35 1.5	644 82 180 224 158 1.8	3,190 250 1,139 1,080 721 1.8	471 61 158 136 116 1.8	1,633 193 679 482 279 1.6	474 22 166 161 125 1.9	1,780 52 664 730 334 1.9	742 61 261 252 168 1.9	738 57 214 274 193 1.9	5,953 566 2,773 1,882 732 1.5	162 24 47 42 49 1.9	4,634 313 1,713 1,658 950 1.8	1,486 104 434 539 409 2.0
OCCUPANTS PER ROOM Occupied housing units 1.00 or less 1.01 to 1.50 1.51 or more	38,769 25,462 5,902 7,405	1,058 793 139 126	1,298 737 232 329	552 408 79 65	2,097 1,368 295 434	1,573 1,086 221 266	10,016 5,896 1,855 2,265	268 194 28 46	644 348 109 187	3,190 2,017 510 663	471 274 82 115	1,633 1,171 243 219	474 391 43 40	1,780 1,375 208 197	742 547 88 107	738 451 123 164	5,953 4,368 672 913		4,634 3,002 686 946	1,486 957 258 271
VALUE Specified owner-occupied units Less than \$10,000 \$10,000 to \$19,999 \$20,000 to \$29,999 \$30,000 to \$29,999 \$40,000 to \$59,999 \$60,000 to \$79,999 \$80,000 to \$99,999 \$100,000 to \$149,999 \$150,000 to \$199,999 \$200,000 to \$499,999 \$300,000 to \$499,999 \$500,000 or \$499,999 \$500,000 or more Median (dollars)	16,467 133 178 126 362 574 591 2,969 5,702 3,783 1,256 667 171,869	482 - - - - 4 14 10 73 155 150 51 22 194,231	584 4 5 5 7 20 25 37 119 204 115 22 21 162,681	314 3 2 2 2 2 52 75 75 78 47 209,756	1,185 7 5 8 6 12 24 36 163 378 319 162 65 190,918	757 4 7 6 8 13 33 25 141 235 141 78 26 175,902	5,083 62 49 34 127 183 189 1,095 2,090 915 195 62 163,071	59 - - - 4 3 10 22 14 6 266,071	437 7 8 5 8 9 28 15 75 116 119 26 21 172,679	1,396 18 19 10 17 28 47 31 173 496 417 84 56 182,721	256 - 2 9 10 13 57 63 57 63 29 17 171,795	552 4 1 6 4 11 18 22 77 195 147 38 29 179,870	6 29 42 70	603 5 4 22 27 94 224 144 47 21 174,018	370 2 5 2 3 3 6 8 11 54 118 32 11 189,831	458 2 6 5 6 18 17 21 88 133 109 27 26 170,370	792 3 1 3 2 8 14 11 73 126 220 178 153 273,577	1 1 7 9 10 8 15	1,840 8 17 18 62 81 78 429 620 367 73 25 161,813	944 2 7 4 7 17 29 40 159 349 215 69 46 173,103

Represents zero or rounds to zero
Source: U.S. Bureau of the Census, "Population and Housing Profile: 2000 Guam"

Prepared by: Bureau of Planning

CPO = Chalan Pago-Ordot MTM = Mongmong-Toto-Maite

Subject	Guam	Agana Heights	Agat	Asan - Maina	Barrigada	CPO	Dededo	Hagåtña	Inarajan	Mangilao	Merizo	МТМ	Piti	Santa Rita	Sinajana	Talofofo	Tamuning	Umatac	Yigo	Yona
SELECTED CHARACTERISTICS Occupied housing units Without telephone service Without a battery operated radio	38,769 2,587 3,953	1,058 42 68	1,298 113 129	552 25 59	2,097 94 185	1,573 122 120	10,016 806 1,161	268 24 33	644 58 69	3,190 258 284	471 33 37	1,633 132 159	474 26 25	1,780 38 143	742 30 50	738 42 55	5,953 287 759	162 15 29	4,634 349 473	1,486 93 115
MORTGAGE STATUS AND SELECTED MONTHLY OWNER COSTS Specified owner-occupied units	16,467	482	584 378	314 216	1,185	757	5,083	59 30	437 277	1,396	256 144	552	251 185	603	370	458 334	792 505	104 71	1,840	944
With a mortgage Less than \$200 \$200 to \$299	11,226 6 68	342 -	378 - 3	216	857 - 5	526 1 5	3,403 2 26	- 30	277	958 - 6	144	366 - 4	185 - 1	431	245 - 1	- 334 - 1	- 505	-	1,286 - 8	672 2 1
\$300 to \$399 \$400 to \$499 \$500 to \$599	202 375 506	7 8 18	3 18 18	- 4 5	12 20 33 74	14 15 21	79 143 183	- 3 1	9 16 11	13 15 23	3 4 3 22	3 14 10	- 1 5	8 24 17	4 8 17	3 8 19	7 5 10	-	33 51 78	3 14
\$600 to \$799 \$800 to \$999 \$1,000 or more	1,299 1,406 7,364	44 35 108	61 48 131	17 33 65	89 266	43 57 182 188	445 504 1,130	3 4 10	33 32 88	104 115 335 347	22 19 54 37	48 42 106	16 21 46	54 43 133	30 31 67	23 33 115	40 50 150 242	6 13 16 26	184 164 429 339	29 52 73 233 265
Median (dollars) Not mortgaged Median (dollars)	1,239 5,241 251	122 1,264 140 294	96 1,134 206 236	90 1,333 98 280	358 1,383 328 291	1,269 231 268	891 1,141 1,680 232	9 1,313 29 338	86 1,193 160 250	1,319 438 259	1,190 112 260	139 1,271 186 259	95 1,531 66 295	151 1,266 172 260	87 1,202 125 318	132 1,335 124 203	1,466 287 346	1,148 33	1,145 554 215	205 1,356 272 263
SELECTED MONTHLY OWNER COSTS AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1999																				
Specified owner-occupied units Less than 10.0 percent 10.0 to 14.9 percent	16,467 4,044 2,204	482 119 81	584 165 90	314 75 38	1,185 284 153	757 176 80	5,083 1,244 662	59 12 11	437 116 59	1,396 307 177	256 83 34	552 157 67	251 65 33	603 150 95	370 109 49	458 97 69	792 209 122	104 25 13	1,840 431 229	944 220 142
15.0 to 19.9 percent 20.0 to 24.9 percent 25.0 to 29.9 percent	2,123 1,847 1,438	82 57 39	64 62 56	43 36 32	170 135 115	96 74 80	669 565 450	10 4 7	54 41 37	200 171 123	25 26 17	64 61 38	32 23 27	68 83 51	48 44 28	50 58 42	81 71 47	16 14 6	226 212 158	125 110 85
30.0 to 34.9 percent 35.0 percent or more Not computed	979 3,293 539	27 70 7	34 104 9	14 64 12	71 235 22	40 155 56	295 1,047 151	5 5 5	24 95 11	87 287 44	13 46 12	32 102 31	14 54 3	38 109 9	26 60 6	25 92 25	45 194 23	4 24 2	127 369 88	58 181 23
GROSS RENT Renter-occupied units	20,022	531	657	218	793	695	4,466	186	179	1,589	193	1,007	205	1,120	332	254	4,439	57	2,620	481
Less than \$200 \$200 to \$299 \$300 to \$399	236 567 869	8 17 24 75	24 50 52	2 5 9	23	17 11 30	66 163 266	- 4 8	1 4 7	15 41 76	6 11 13	12 42 78	- 2 1	2 15 13 35	8 10 16	5 13 13	37 84 96		19 55 87	5 13 47
\$400 to \$599 \$600 to \$799 \$800 to \$999	2,577 3,670 2.871	75 115 76	115 102 61	25 41 34	98 145 148	83 84 124	713 858 531	48 43 33	18 20 21	257 366 246	13 23 22 23	171 221 208	14 24 34	35 74 47	37 53 46	33 29 36	470 1,054 969	6 5 3	268 345 189	88 69 42
\$1,000 or more No cash rent Median (dollars)	4,030 5,202 774	86 130 718	65 188 585	54 48 814	207 141 837	193 153 884	639 1,230 695	21 29 665	20 88 768	293 295 741	23 72 679	154 121 732	87 43 1,025	190 744 1,006	100 62 852	56 69 797	1,395 334 855	2 26 413	317 1,340 719	128 89 724
GROSS RENT AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1999																				
Renter-occupied units Less than 10.0 percent	20,022 748	531 30 58	657 24 68	218 9 25	793 39 79	695 27 50	4,466 172 368	186 9 15	179 7 7	1,589 68 119	193 8 14	1,007 41 76	205 8 21	1,120 15 43	332 18 34	254 11 17	4,439 165 332		2,620 71 161	481 23 44
10.0 to 14.9 percent 15.0 to 19.9 percent 20.0 to 24.9 percent	1,532 1,846 1,661	58 49	70 47	29 12	80 82	46 33	463 369	18 19	15 10	155 142	17 18	91 96	22 15	46 50	24 32	23 31	470 462	3	162 153	54 36
25.0 to 29.9 percent 30.0 to 34.9 percent 35.0 percent or more	1,289 1,003 5,431	38 24 132	56 32 163	17 6 58	61 55 212	31 22 210	280 204 1,116	11 13 58	8 1 37	108 85 474	13 6 39	61 54 358	15 8 69	48 30 129	19 14 115	11 17 66	349 318 1,596	- 3 15	131 83 431	32 28 153
Not computed	6,512	142	197	62	185	276	1,494	43	94	438	78	230	47	759	76	78	747	27	1,428	111

Represents zero or rounds to zero
Source: U.S. Bureau of the Census, "Population and Housing Profile: 2000 Guam"

CPO = Chalan Pago-Ordot MTM = Mongmong-Toto-Maite

U.S. Bureau of the Census, International Data Base Table 001. Total Midyear Population

Country: Guam

Year	Population	Year	Population	Year	Population
1950	59900	1984	117296	2018	198942
1951	63400	1985	120615	2019	201095
1952	63600	1986	122880	2020	203216
1953	68700	1987	125724	2021	205312
1954	67100	1988	127545	2022	207380
1955	68700	1989	130947	2023	209409
1956	69200	1990	134125	2024	211394
1957	66500	1991	138159	2025	213329
1958	66700	1992	142326	2026	215212
1959	67800	1993	143825	2027	217043
1960	66900	1994	143157	2028	218816
1961	66400	1995	144190	2029	220526
1962	69100	1996	145324	2030	222166
1963	72000	1997	146799	2031	223736
1964	72500	1998	149724	2032	225245
1965	74100	1999	152590	2033	226697
1966	79200	2000	155324	2034	228089
1967	81400	2001	158330	2035	229417
1968	83800	2002	161057	2036	230677
1969	83700	2003	163593	2037	231875
1970	86470	2004	166090	2038	233018
1971	92287	2005	168564	2039	234106
1972	96755	2006	171019	2040	235135
1973	105550	2007	173456	2041	236105
1974	101302	2008	175877	2042	237020
1975	102110	2009	178287	2043	237886
1976	102478	2010	180692	2044	238703
1977	101167	2011	183081	2045	239472
1978	101960	2012	185435	2046	240194
1979	103941	2013	187754	2047	240874
1980	106869	2014	190042	2048	241518
1981	109166	2015	192302	2049	242124
1982	109275	2016	194541	2050	242692
1983	114080	2017	196757		

Source: U.S. Bureau of the Census, International Data Base.

-90 90-00 28% 1.51% 1.05% 0.78% 2.15% 1.31% 0.18% 0.10% 1.31% -0.22% 3.55% 2.86% 2.94% 3.04% 2.40% -0.35% 1.82% 2.12% 4.27% 2.39% 0.46% 2.16% 1.08% 0.00% -4.50% -0.92% 2.56% -4.58% 0.67% 0.71% 1.41% 3.31% 2.05% 0.77% 2.03% -0.11% 3.16% 3.15% 2.33% 1.94%
28% 1.51% 1.05% 0.78% 2.15% 1.31% 0.18% 0.10% 1.31% -0.22% 2.94% 3.04% 2.40% -0.35% 1.82% 2.12% 4.27% 2.39% 0.46% 2.16% 1.08% 0.00% -4.50% -0.92% 2.56% -4.58% 0.67% 0.71% 2.05% 0.77% 2.03% -0.11% 3.16% 3.15%
$\begin{array}{ccccccc} 2.15\% & 1.31\% & 0.10\% \\ 0.18\% & 0.10\% \\ 1.31\% & -0.22\% \\ 3.55\% & 2.86\% \\ 2.94\% & 3.04\% \\ 2.40\% & -0.35\% \\ 1.82\% & 2.12\% \\ 4.27\% & 2.39\% \\ 0.46\% & 2.16\% \\ 1.08\% & 0.00\% \\ -4.50\% & -0.92\% \\ 2.56\% & -4.58\% \\ 0.67\% & 0.71\% \\ 1.41\% & 3.31\% \\ 2.05\% & 0.77\% \\ 2.03\% & -0.11\% \\ 3.16\% & 3.15\% \end{array}$
$\begin{array}{ccccccc} 2.15\% & 1.31\% & 0.10\% \\ 0.18\% & 0.10\% \\ 1.31\% & -0.22\% \\ 3.55\% & 2.86\% \\ 2.94\% & 3.04\% \\ 2.40\% & -0.35\% \\ 1.82\% & 2.12\% \\ 4.27\% & 2.39\% \\ 0.46\% & 2.16\% \\ 1.08\% & 0.00\% \\ -4.50\% & -0.92\% \\ 2.56\% & -4.58\% \\ 0.67\% & 0.71\% \\ 1.41\% & 3.31\% \\ 2.05\% & 0.77\% \\ 2.03\% & -0.11\% \\ 3.16\% & 3.15\% \end{array}$
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3.55% 2.86% 2.94% 3.04% 2.40% -0.35% 1.82% 2.12% 4.27% 2.39% 0.46% 2.16% 1.08% 0.00% -4.50% -0.92% 0.67% 0.71% 1.41% 3.31% 2.05% 0.77% 2.03% -0.11% 3.16% 3.15%
3.55% 2.86% 2.94% 3.04% 2.40% -0.35% 1.82% 2.12% 4.27% 2.39% 0.46% 2.16% 1.08% 0.00% -4.50% -0.92% 0.67% 0.71% 1.41% 3.31% 2.05% 0.77% 2.03% -0.11% 3.16% 3.15%
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1.82% 2.12% 4.27% 2.39% 0.46% 2.16% 1.08% 0.00% -4.50% -0.92% 2.56% -4.58% 0.67% 0.71% 1.41% 3.31% 2.05% 0.77% 2.03% -0.11% 3.16% 3.15%
4.27% 2.39% 0.46% 2.16% 1.08% 0.00% -4.50% -0.92% 2.56% -4.58% 0.67% 0.71% 1.41% 3.31% 2.05% 0.77% 2.03% -0.11% 3.16% 3.15%
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2.33% 1.94%
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2.94% 3.04%
2.05% 0.77%
3.16% 3.15%
1.71% 1.02%
1.05% 0.78%
0.18% 0.10%
1.31% -0.22%
3.55% 2.86%
2.40% -0.35%
4.27% 2.39%
1.08% 0.00%
-4.50% -0.92%
0.67% 0.71%
2.14% -0.21%
2.15% 1.31%
1.82% 2.12%
0.46% 2.16%
2.56% -4.58%
1.41% 3.31%
2.03% -0.11%
2.33% 1.94%
-

Guam Census of Population and Housing - Population: 1970, 1980, 1990 and 2000

Source: Bureau of the Census, U.S. Department of Commerce

*: Average annual (exponential) growth rate

Prepared by: OP&E, DPHSS and Commerce

July 2, 2001

Modified by: Bureau of Planning

July 5, 2001

GUAM	Housing	Units: 1970	, 1980, 1990 a	nd 2000	Nu	meric Chang	е	Pe	rcent Chang	e	Ann	ual Growth F	late *
GOAM	01-Apr-70	01-Apr-80	01-Apr-90	01-Apr-00	70-80	80-90	90-00	70-80	80-90	90-00	70-80	80-90	90-00
Total Housing Units	16,680	28,249	35,223	47,677	11,569	6,974	12,454	69.36%	24.69%	35.36%	5.41%	2.23%	3.07%
VILLAGE													
Agana Heights	669	971	1,008	1,193	302	37	185	45.14%	3.81%	18.35%	3.80%	0.37%	1.70%
Ăgat	819	990	1,300	1,499	171	310	199	20.88%	31.31%	15.31%	1.91%	2.76%	1.43%
Asan-Maina	581	589	620	660	8	31	40	1.38%	5.26%	6.45%	0.14%	0.51%	0.63%
Barrigada	1,307	1,930	2,140	2,307	623	210	167	47.67%	10.88%	7.80%	3.97%	1.04%	0.75%
Chalan Pago-Ördot	526	738	1,047	1,920	212	309	873	40.30%	41.87%	83.38%	3.44%	3.56%	6.25%
Dededo	2,295	5,558	7,541	12,119	3,263	1,983	4,578	142.18%	35.68%	60.71%	9.25%	3.10%	4.86%
Hagåtña	515	384	416	395	-131	32	-21	-25.44%	8.33%	-5.05%	-2.89%	0.80%	-0.52%
Inarajan	321	455	553	701	134	98	148	41.74%	21.54%	26.76%	3.55%	1.97%	2.40%
Mangilao	740	2,067	2,699	3,926	1,327	632	1,227	179.32%	30.58%	45.46%	10.82%	2.70%	3.82%
Merizo	271	398	469	535	127	71	66	46.86%	17.84%	14.07%	3.92%	1.66%	1.33%
Mongmong-Toto-Maite	896	1,490	1,742	2,102	594	252	360	66.29%	16.91%	20.67%	5.22%	1.57%	1.90%
Piti	239	503	554	576	264	51	22	110.46%	10.14%	3.97%	7.73%	0.97%	0.39%
Santa Rita	1,610	2,253	2,343	2,517	643	90	174	39.94%	3.99%	7.43%	3.42%	0.39%	0.72%
Sinajana	680	619	712	857	-61	93	145	-8.97%	15.02%	20.37%	-0.94%	1.41%	1.87%
Talofofo	350	445	548	849	95	103	301	27.14%	23.15%	54.93%	2.43%	2.10%	4.48%
Tamuning	2,208	4,788	6,296	8,108	2,580	1,508	1,812	116.85%	31.50%	28.78%	2.43 % 8.05%	2.78%	2.56%
Umatac	130	4,788	188	179	2,580	41	-9	13.08%	27.89%	-4.79%	1.24%	2.49%	-0.49%
Yigo	2,056	2,898	3,686	-		788	-9 1,803	40.95%	27.89%	-4.79% 48.91%	3.49%	2.49%	-0.49% 4.06%
Yona	2,056 467	2,090	3,000	5,489 1,745	842 559	335	384	40.95%	27.19% 32.65%	48.91% 28.21%	3.49% 8.19%	2.43%	
fona	407	1,020	1,301	1,745		333	304	119.70%	32.03%	20.21%	0.19%	2.01%	2.52%
NORTH	6,559	13,244	17,523	25,716	6,685	4,279	8,193	101.92%	32.31%	46.76%	7.28%	2.84%	3.91%
Dededo	2,295	5,558	7,541	12,119	3,263	1,983	4,578	142.18%	35.68%	60.71%	9.25%	3.10%	4.86%
Tamuning	2,208	4,788	6,296	8,108	2,580	1,508	1,812	116.85%	31.50%	28.78%	8.05%	2.78%	2.56%
Yigo	2,056	2,898	3,686	5,489	842	788	1,803	40.95%	27.19%	48.91%	3.49%	2.43%	4.06%
1190	2,000	2,000	0,000	0,100	0.12	, 66	1,000	10.0070	27.1070	10.0170	0.1070	2.1070	1.0070
CENTRAL	6,153	9,291	10,938	13,936	3,138	1,647	2,998	51.00%	17.73%	27.41%	4.21%	1.65%	2.45%
Agana Heights	669	971	1,008	1,193	302	37	185	45.14%	3.81%	18.35%	3.80%	0.37%	1.70%
Asan-Maina	581	589	620	660	8	31	40	1.38%	5.26%	6.45%	0.14%	0.51%	0.63%
Barrigada	1,307	1,930	2,140	2,307	623	210	167	47.67%	10.88%	7.80%	3.97%	1.04%	0.75%
Chalan-Pago-Ordot	526	738	1,047	1,920	212	309	873	40.30%	41.87%	83.38%	3.44%	3.56%	6.25%
Hagåtña	515	384	416	395	-131	32	-21	-25.44%	8.33%	-5.05%	-2.89%	0.80%	-0.52%
Mangilao	740	2,067	2,699	3,926	1,327	632	1,227	179.32%	30.58%	45.46%	10.82%	2.70%	3.82%
Mongmong-Toto-Maite	896	1,490	1,742	2,102	594	252	360	66.29%	16.91%	20.67%	5.22%	1.57%	1.90%
Piti	239	503	554	576	264	51	22	110.46%	10.14%	3.97%	7.73%	0.97%	0.39%
Sinajana	680	619	712	857	-61	93	145	-8.97%	15.02%	20.37%	-0.94%	1.41%	1.87%
Ginajana	000	010	712	007	01	50	145	0.07 /0	10.02 /0	20.07 /0	0.0470	1.4170	1.07 /0
SOUTH	3,968	5,714	6,762	8,025	1,746	1,048	1,263	44.00%	18.34%	18.68%	3.71%	1.70%	1.73%
Agat	819	990	1,300	1,499	171	310	199	20.88%	31.31%	15.31%	1.91%	2.76%	1.43%
Inarajan	321	455	553	701	134	98	148	41.74%	21.54%	26.76%	3.55%	1.97%	2.40%
Merizo	271	398	469	535	127	71	66	46.86%	17.84%	14.07%	3.92%	1.66%	1.33%
Santa Rita	1,610	2,253	2,343	2,517	643	90	174	39.94%	3.99%	7.43%	3.42%	0.39%	0.72%
Talofofo	350	2,255	2,343	849	95	103	301	27.14%	23.15%	54.93%	2.43%	2.10%	4.48%
Umatac	130	445 147	188	179	95 17	41	-9	13.08%	23.15%	-4.79%	1.24%	2.10%	-0.49%
Yona	467	1,026	1,361	1,745	559	335	-9 384	119.70%	32.65%	-4.79% 28.21%	8.19%	2.49%	-0.49%
folia	407	1,020	1,301	1,743	559	335	304	119.70%	32.03%	20.21%	0.19%	2.01%	2.02%

Guam Census of Population and Housing - Housing Units: 1970, 1980, 1990 and 2000

Source: Bureau of the Census, U.S. Department of Commerce

* Average annual (geometric) growth rate

Layout by: OP&E, DPHSS Created by: Bureau of Planning Modified by: Bureau of Planning

July 2, 2001 August 9, 2001

February 18, 2002

TRACT	Population	Sq. Miles	Density
9501	2,866	8.43	340
9502	1,612	10.99	147
9503	1,759	14.08	125
9504	9,080	3.41	2,664
9505	6,985	4.81	1,451
9506	8,011	9.39	853
9507	8,615	4.74	1,819
9508	8,296	3.60	2,302
9509	6,338	0.73	8,693
9510	2,599	0.27	9,755
9511	6,293	1.94	3,243
9512	0	1.69	0
9513	15	0.52	29
9514	5,463	4.39	1,246
9515	29	0.87	33
9516	0	2.99	0
9517	2,219	1.10	2,024
9518	19	2.72	7
9519	7,179	3.30	2,174
9520	1,781	0.50	3,582
9521	1,056	0.20	5,369
9522	3,885	0.36	10,895
9523	2,695	0.76	3,557
9524	1,416	0.53	2,681
9525	0	0.33	2,001
9526	2,044	0.58	3,523
9520	4,965	1.27	3,899
9528	4,903	0.80	10
9529	4,799	2.54	1,889
9530	2,999	1.07	2,811
9531	5,923	5.67	1,045
9532	2,853	0.85	3,375
9533	3,801	0.85	3,844
9534	1,100	0.99	1,225
9535	208	0.90	965
9536	3,732		4,580
9537	2,046	0.81 4.28	4,580
9538	2,040	1.25	35
9539	44 4,375	1.25	308
9539	2,109	6.00	308
9540	2,109	6.50	0
9541	4,153	3.76	1,103
9542	1,528		
9543	1,520	1.07	1,422 22
9544	2,767	6.33	559
		4.95	
9546 9547	580	0.90	642
9547 9548	2,692 2,964	0.68	3,944
	-	5.03	589
9549	0	4.75	0
9550	0	2.11	0
9551	3,215	15.52	207
9552	3,052	18.78	162
9553	2,163	6.31	343
9554	887	6.40	139
9555	0	1.66	0
9556	1,449	0.37	3,955
TOTAL	154,805	209.13	740

2000 Census of Population and Housing - GUAM Population Density by Tract



GUAM DEPARTMENT OF LABOR

BUREAU OF LABOR STATISTICS

CURRENT LABOR FORCE SURVEY

UNEMPLOYMENT SITUATION OF GUAM: 1974 - 2006

		TOTAL CIV	TOTAL		ABOR FORCE	% OF	NOT IN
YEAR	MONTH	NONINST'L		EMPLOYED	UNEMPLOYED	LF	LABOR
		POPULATION		NUMBER	NUMBER	UNEMPLOYED	FORCE
2006	Mar	104,830	65,940	61,390	4,550	6.9	38,890
2005	Dec	104,980 99,780	64,130	59,630	4,500	7.0	40,850
2004 2002	Mar Mar	99,780 99,500	61,520 62,050	56,810 54,980	4,710 7,070	7.7 11.4	38,260 37,450
2002	Mar	104,320	69,560	60,520	9,040	13.0	34,760
2001	Sept	100,470	64,800	56,040	8,760	13.5	35,670
2000	Jul	104,480	70,800	59,950	10,850	15.3	33,680
1999	Mar	105,320	72,460	62,350	10,110	14.0	32,860
1999	Jun	105,270	72,700	61,640	11,060	15.2	32,570
1998	Mar	71,930	48,060	44,340	3,720	7.7	23,870
1997	Mar	71,150	48,190	43,530	4,660	9.7	22,960
1997	Jun	71,400	49,820	44,830	4,990	10.0	21,580
1997	Sept	71,420	49,540	44,990	4,550	9.2	21,880
1996 1996	Mar Jun	71,520 71,600	47,330 49,030	44,000 44,870	3,330	7.0 8.5	24,190 22,570
1996	Sept	71,800	49,030 48,850	44,870 44,640	4,160 4,210	8.6	22,570 21,920
1996	Dec	70,770	49,180	44,040	4,410	9.0	21,320
1995	Mar	71,190	48,590	44,530	4,060	8.4	22,600
1995	Jun	71,380	50,100	44,650	4,450	8.9	21,280
1995	Sept	71,510	48,120	44,950	3,170	6.6	23,390
1995	Dec	71,500	47,890	44,150	3,740	7.8	23,610
1994	Mar	69,880	46,970	43,800	3,170	6.7	22,910
1994	Jun	70,280	48,700	44,140	4,560	9.4	21,580
1994	Sept	70,400	47,930	44,690	3,240	6.8	22,470
1994	Dec	70,630	47,930	44,430	3,500	7.3	22,700
1993 1993	Mar Jun	69,090 70,090	47,350 48,180	45,200 45,760	2,150 2,420	4.5 5.0	21,740 21,900
1993	Sept	69,970	40,100	44,640	3,130	6.6	21,900
1993	Dec	69,810	47,030	44,210	2,820	6.0	22,200
1992	Mar	68,830	47,500	46,140	1,360	2.9	21,330
1992	Jun	68,800	48,540	46,720	1,820	3.7	20,260
1992	Sept	70,070	47,020	44,870	2,150	4.6	23,050
1992	Dec	70,470	47,500	46,710	2,030	4.2	21,730
1991	Mar	67,300	46,680	45,230	1,450	3.1	20,620
1991	Jun	67,390	48,030	46,070	1,960	4.1	19,360
1991	Sept	67,670	46,970	45,260	1,710	3.6	20,700
1991	Dec	67,680	46,960	45,460	1,500	3.2	20,710
1990 1990	Mar Jun	61,490 68,090	40,560 46,750	39,800 44,940	760 1,810	1.9 3.9	20,930 21,340
1990	Sept	67,590	40,750	44,940	1,300	2.9	21,340
1990	Dec	67,980	46,930	45,710	1,220	2.6	21,050
1989	Mar	61,240	38,410	37,400	1,010	2.6	22,830
1989	Jun	61,280	39,940	38,260	1,680	4.2	21,340
1989	Sept	61,230	39,340	38,420	920	2.3	21,890
1989	Dec	61,370	40,050	39,230	820	2.1	21,320
1988	Mar	60,120	37,440	35,740	1,700	4.5	22,680
1988	Jun	59,970	38,280	36,240	2,040	5.3	21,690
1988	Sept	60,530	37,960	36,520	1,440	3.8	20,570
1988 1987	Dec	61,010 59,660	38,240	37,060 34,270	1,770 1,970	3.1 5.4	22,770 23,420
1987	Mar Jun	59,660 59,650	36,250 36,320	34,270 34,300	2,020	5.4 5.6	23,420 23,320
1987	Sept	59,690	36,230	34,300	1,090	3.0	23,320
1987	Dec	59,920	36,540	35,190	1,350	3.7	23,380
1986	Mar	58,930	35,590	33,460	2,130	6.0	23,340
1986	Jun	59,020	36,880	33,870	3,010	8.2	22,140
1986	Sept	59,640	35,830	33,930	1,900	5.3	23,800
1986	Dec	59,710	35,990	34,230	1,760	4.9	23,720
1985	Mar	56,660	33,440	31,270	2,170	6.5	23,220
1985	Jun	56,840	36,280	32,260	4,020	11.1	20,560
1985	Oct	57,340	34,260	31,900	2,360	6.9	23,080
1985	Dec	58,320	34,400	32,190	2,210	6.4	23,920



GUAM DEPARTMENT OF LABOR

BUREAU OF LABOR STATISTICS

CURRENT LABOR FORCE SURVEY

UNEMPLOYMENT SITUATION OF GUAM: 1974 - 2006

		TOTAL CIV	TOTAL		ABOR FORCE	% OF	NOT IN
YEAR	MONTH	NONINST'L		EMPLOYED	UNEMPLOYED	LF	LABOR
		POPULATION		NUMBER	NUMBER	UNEMPLOYED	FORCE
1984	Mar	56,360	33,490	30,670	2,820	8.4	22,870
1984	Jul	56,280	34,960	31,740	3,220	9.2	21,320
1984	Oct	56,390	33,640	30,740	2,900	8.6	22,750
1984	Dec	56,660	33,880	31,200	2,680	7.9	22,780
1983	Mar	56,320	33,860	30,830	3,040	9.0	22,460
1983	Jul	56,330	36,380	32,700	3,680	10.1	19,950
1983	Nov	56,410	34,310	31,020	3,290	9.6	22,100
1982	Mar	56,210	33,000	30,120	2,880	8.7	23,210
1982	Jul	56,040	36,080	31,700	4,380	12.2	19,960
1982	Nov	56,150	34,850	31,720	3,130	9.0	21,290
1981	Mar	56,030	34,470	32,230	2,240	6.5	21,560
1981	Jul	56,060	36,480	32,700	3,770	10.4	19,570
1981	Nov	56,200	34,980	31,800	3,180	9.1	21,220
1980	Mar	55,080	33,800	30,890	2,910	8.6	21,280
1980	Jun	55,290	36,690	31,980	4,710	12.8	18,600
1980	Sept	55,280	35,050	31,600	3,450	9.8	20,770
1980	Dec	56,010	35,010	32,060	2,950	8.4	21,000
1979	Mar	54,020	33,840	31,470	2,380	7.0	20,180
1979	Jun	54,260	36,500	32,370	4,130	11.3	17,760
1979	Sept	54,970	34,870	32,430	2,440	7.0	19,100
1979	Dec	54,830	34,960	32,700	2,260	6.5	19,870
1978	Mar	49,830	30,020	27,990	2,030	6.8	19,810
1978	Jun	50,110	33,450	29,380	4,070	12.2	16,660
1978	Sept	50,300	32,000	29,560	2,440	7.6	18,300
1978	Dec	50,570	31,420	29,490	1,930	6.1	19,150
1977	Mar	44,430	26,760	24,850	1,910	7.2	17,660
1977	Sept	47,370	29,090	26,840	2,260	7.8	18,280
1977	Dec	46,820	28,420	26,460	1,960	6.9	18,400
1976	May	46,140	27,270	23,640	3,630	13.3	18,870
1976	Sept	43,680	26,910	24,600	2,320	8.6	16,770
1976	Dec	43,830	27,080	25,100	1,980	7.3	16,750
1975	May	44,800	28,570	26,210	2,360	8.3	16,230
1975	Sept	45,130	28,090	25,390	2,700	9.6	17,040
1974	Sept		29,960	27,090	2,860	9.6	

HH-4. Households by Size: 1960 to Present (Numbers in thousands)

2006 114,384 30,453 37,775 18,924 15,998 7,306 2,562	1,366 1,430 1,388	Persons per household 2.57
	1,430	2.57
	1,430	2.57
	1,430	2.57
2005 113,343 30,137 37,446 18,285 16,382 7,166 2,497	1,388	2.57
2004 112,000 29,586 37,366 17,968 16,066 7,150 2,476		2.57
2003 111,278 29,431 37,078 17,889 15,967 7,029 2,521	1,364	2.57
2002 109,297 28,775 36,240 17,742 15,794 6,948 2,438	1,360	2.58
2001 108,209 28,207 35,917 17,444 15,692 6,978 2,555	1,415	2.58
2000 104,705 26,724 34,666 17,172 15,309 6,981 2,445	1,428	2.62
1999 103,874 26,606 34,262 17,386 15,030 6,962 2,367	1,261	2.61
1998 102,528 26,327 32,965 17,331 15,358 7,048 2,232	1,267	2.62
1997 101,018 25,402 32,736 17,065 15,396 6,774 2,311	1,334	2.64
1996 99,627 24,900 32,526 16,724 15,118 6,631 2,357	1,372	2.65
1995 98,990 24,732 31,834 16,827 15,321 6,616 2,279	1,382	2.65
1994 97,107 23,611 31,211 16,898 15,073 6,749 2,186	1,379	2.67
1993r 96,426 23,558 31,041 16,964 14,997 6,404 2,217	1,244	2.66
1993 96,391 23,642 31,175 16,895 14,926 6,357 2,180	1,215	2.63
1992 95,669 23,974 30,734 16,398 14,710 6,389 2,126	1,338	2.62
1991 94,312 23,590 30,181 16,082 14,556 6,206 2,237	1,459	2.63
1990 93,347 22,999 30,114 16,128 14,456 6,213 2,143	1,295	2.63
1989 92,830 22,708 29,976 16,276 14,550 6,232 2,003	1,084	2.62
1988 91,066 21,889 29,295 16,163 14,143 6,081 2,176	1,320	2.64
1987 89,479 21,128 28,602 16,159 13,984 6,162 2,176	1,268	2.66
1986 88,458 21,178 27,732 16,088 13,774 6,276 2,138	1,272	2.67
1985 86,789 20,602 27,389 15,465 13,631 6,108 2,299 1004 10054 26,000 15,124 12,502 6,070 2,279	1,296	2.69
1984 85,407 19,954 26,890 15,134 13,593 6,070 2,372 1002 010 10,050 26,420 14,702 12,202 6,105 2,460	1,394	2.71
198383,91819,25026,43914,79313,3036,1052,460198283,52719,35426,48614,61712,8686,1032,480	1,568	2.73 2.72
1982 83,527 19,354 26,486 14,617 12,868 6,103 2,480 1981 82,368 18,936 25,787 14,569 12,768 6,117 2,549	1,619 1,643	2.72
1981 82,388 18,936 23,787 14,389 12,788 6,117 2,349 1980 80,776 18,296 25,327 14,130 12,666 6,059 2,519	1,778	2.73
1900 00,770 10,290 23,327 14,130 12,000 0,035 2,515 1979 77,330 17,201 23,928 13,392 12,274 6,187 2,573	1,774	2.78
1978 76,030 16,715 23,334 13,040 11,955 6,356 2,723	1,906	2.81
1977 74,142 15,532 22,775 12,794 11,630 6,285 2,864	2,263	2.86
1976 72,867 14,983 22,321 12,520 11,407 6,268 3,001	2,367	2.89
1975 71,120 13,939 21,753 12,384 11,103 6,399 3,059	2,484	2.94
1974 69,859 13,368 21,495 11,913 10,900 6,469 3,063	2,651	2.97
1973 68,251 12,635 20,632 11,804 10,739 6,426 3,245	2,769	3.01
1972 66,676 12,189 19,482 11,542 10,679 6,431 3,374	2,979	3.06
1971 64,778 11,446 18,892 11,071 10,059 6,640 3,435	3,234	3.11
1970 63,401 10,851 18,333 10,949 9,991 6,548 3,534	3,195	3.14
1969 62,214 10,401 18,034 10,769 9,778 6,387 3,557	3,288	3.19
1968 60,813 9,802 17,377 10,577 9,623 6,319 3,627	3,488	3.23
1967 59,236 9,200 16,770 10,403 9,559 6,276 3,491	3,550	3.28
1966 58,406 9,093 16,679 9,993 9,465 6,257 3,465	3,465	3.30
1965 57,436 8,631 16,119 10,263 9,269 6,313 3,327	3,514	3.31
1964 56,149 7,821 15,622 10,034 9,565 6,328 3,373	3,405	3.33
1963 55,270 7,501 15,279 9,989 9,445 6,240 3,473	3,342	3.33
1962 54,764 7,473 15,461 10,077 9,347 6,016 3,368 1061 52,557 7,413 15,461 0,077 9,347 6,016 3,368	3,022	3.31
1961 53,557 7,112 15,185 9,780 9,390 6,052 3,085 1060 52,700 6,017 14,670 0,070 0,202 6,072 2,010	2,953	3.36
1960 52,799 6,917 14,678 9,979 9,293 6,072 3,010	2,851	3.33

 ${\tt r}$ $\;$ Revised based on population from the decennial census for that year $\;$

Source: U.S. Census Bureau, Current Population Survey, March and Annual Social and Economic Supplements, 2006 and earlier.

FOR FURTHER INFORMATION contact: Fertility and Family Statistics Branch 301-763-2416

Demographic Indicators

(Figures refer to calendar years.)

Indicators	2007	1995	2005	2015	2025
Population					
Midyear population	173,456	144,190	168,564	192,302	213,329
Growth rate (percent)	1.4	1.5	1.5	1.2	0.9
Fertility					
Total fertility rate (births per woman)	2.6	3.8	2.6	2.3	2.1
Crude birth rate (per 1,000 population)	19	29	19	17	15
Births	3,219	4,200	3,208	3,248	3,221
Mortality					
Life expectancy at birth (years)	79	76	78	80	81
Infant mortality rate (per 1,000 births)	7	9	7	6	5
Under 5 mortality rate (per 1,000 births)	8	10	8	7	6
Crude death rate (per 1,000 population)	5	4	4	5	6
Deaths	791	627	743	1,002	1,312
Migration					
Net migration rate (per 1,000 population)	-	-10	-	-	-
Net number of migrants	-	-1,391	-	-	-
- Represents or rounds to zero.					
Source: U.S. Census Bureau, International Data H	Base.				

3.19 Department of the Interior US Geological Survey Guam Quad Maps (2000)



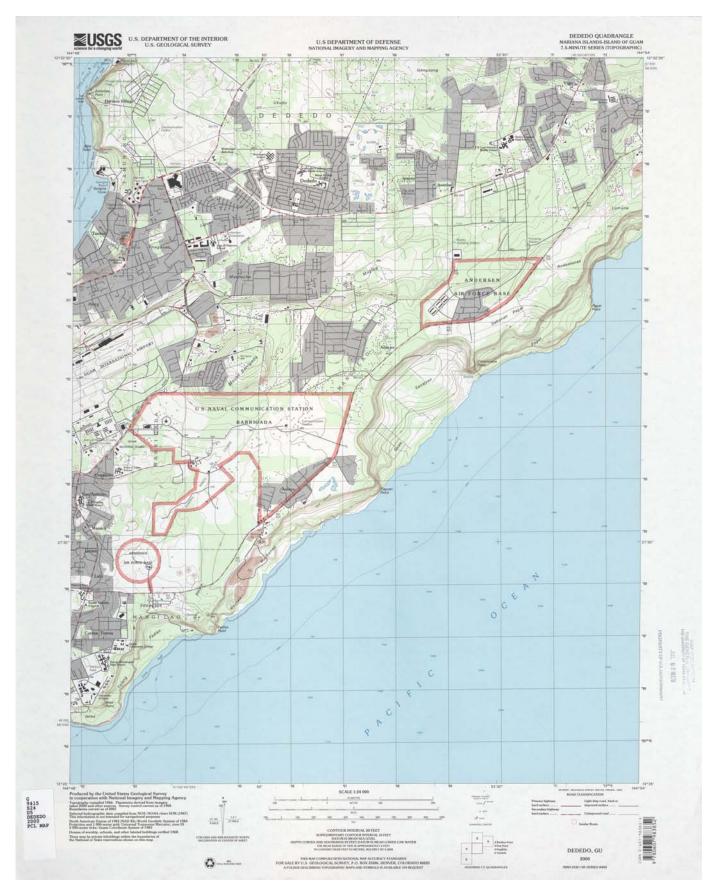




Apra Harbor



Dededo



Hagatna



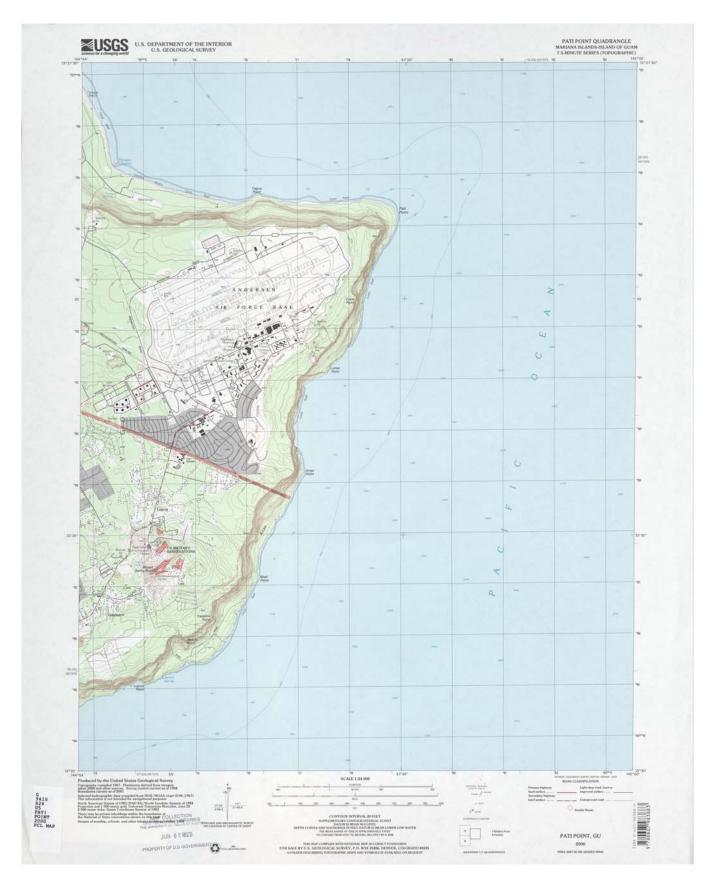
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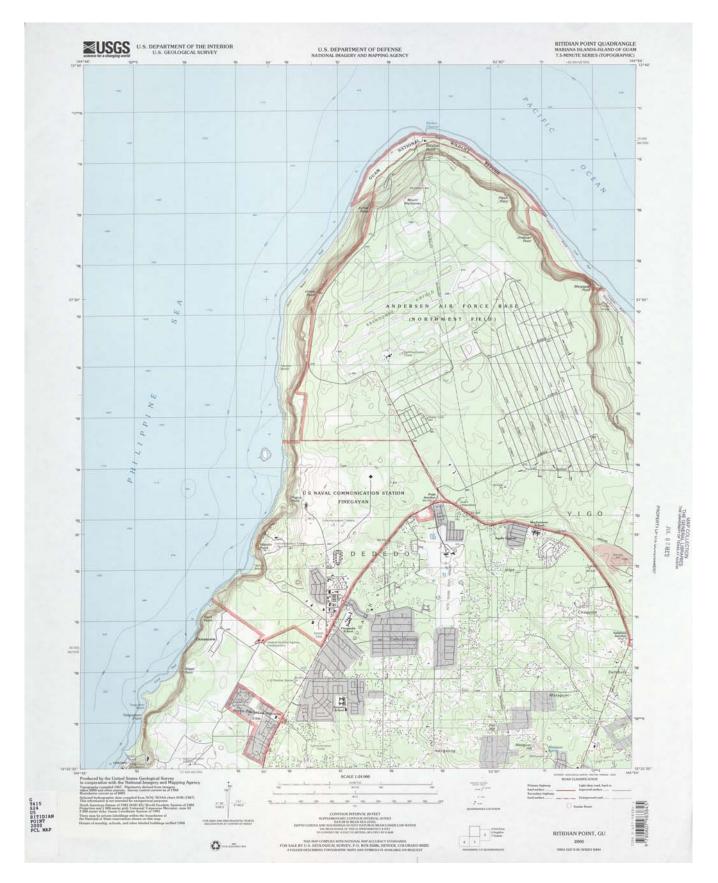
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Piti Point



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APPENDIX A23

Guam Police Department	
Summary of Crash Statistics (2001 - 2007)	

	2001	2002	2003	2004	2005	2006	2007
Total Number of Traffic Crashes	6729	6615	6760	6561	6587	6250	
Total Number of DUI Crashes	203	163	139	61	103	233	
Total Number of Fatalities	19	10	25	15	24	13	16
Total Number of DUI Related Fatalities	11	6	7	6	11	5	7
Total Number of DUI Arrests	900	972	743	538	817	836	
Total Number of Crashes w/Injuries					908*	913*	
Total Number of Speed/Imprudent Driving Related Crashes							
Total Number youth arrested for DUI							
Total Number of Auto-Ped Crashes					47		
Total Number of DUI Auto-Ped Fatalities					7	2	2
Total Number of Auto-Ped Fatalities					11	4	6**
Number of Victims (Violators)			10	5	5		
Number of Victims (Not Violators)			6	5	6		
Number of Violators (Not Victim)			8	4	7		

Crash Type (Fatalities)	2001	2002	2003	2004	2005	2006	2007
Auto-Auto	5	1	8	3	4	2	2
Auto Ran Off Roadway	7	4	5	3	6	3	6
Auto-Pedestrian	2	4	3	5	10	2	6
Motorcycle Crash	1	0	3	3	0	0	2
Auto Object	1	0	1	1	1	1	0
Auto-Bicycle	0	0	1	0	0	1	0
Other	3	1	4	0	3	4	0
ΤΟΤΑ	L: 19	10	25	15	24	13	16

* Does not include Fatalities

** As of Sept. 5, 2007 Note: Request from OHS Refer to PDF file.

APPENDIX A24

Guam Visitors Arrivals 2002-2006

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	FY2002	FY2003	FY2004	FY2005	FY 2006
OCTOBER	47,213	88,712	83,254	86,057	93,680
NOVEMBER	56,659	95,441	97,489	91,155	99,441
DECEMBER	73,563	37,949	93,934	101,147	102,678
JANUARY	84,361	57,826	101,809	114,446	119,562
FEBRUARY	91,749	84,739	112,053	109,628	106,924
MARCH	100,077	68,269	97,433	103,785	114,075
APRIL	75,597	57,325	79,556	88,602	87,016
MAY	94,004	61,175	86,704	92,472	92,459
JUNE	88,233	50,872	87,298	97,951	88,919
JULY	88,188	73,150	102,463	115,136	109,723
AUGUST	111,182	86,577	113,6111	09,465	114,982
SEPTEMBER	103,211	94,896	100,595	100,303	87,652
TOTAL	1,014,037	856,931	1,156,199	1,210,147	1,217,111
Country of Origin	FY2002	FY2003	FY2004	FY2005	FY 2006
Japan	751,506	606,100	897,046	938,731	962,007
Korea	121,185	94,429	92,559	104,844	114,471
Taiwan, R.O.C.	21,317	17,576	24,471	23,048	17,018
US Mainland	31,669	33,870	35,885	38,035	34,651
Hawaii	8,423	8,008	8,907	9,115	8,850
CNMI	20,280	17,817	18,978	18,622	18,070
Palau	3,334	3,109	3,353	3,530	3,121
FSM	7,802	9,500	8,715	8,334	8,173
RMI	752	681	818	912	997
Philippines	6,427	6,381	7,135	6,598	7,980
Australia	1,703	1,900	2,663	2,741	2,380
Canada	1,424	547	582	514	579
Europe	1,361	1,361	1,432	1,737	1,421
Hong Kong	8,893	5,054	5,150	4,293	5,455
Nauru	14	6	14	5	10
Thailand	242	219	272	161	217
China, PRC	1,284	733	827	867	1,068
Vietnam	53	27	38	31	24
Other	2,941	2,832	3,386	3,031	3,399
Total Air	990,610	810,150	1,112,231	1,165,149	1,189,891
Total Sea	23,427	46,781	43,968	44,998	27,220
Total Air & Sea	1,014,037	856,931	1,156,199	1,210,147	1,217,111

Source: Customs Declaration Forms, Customs & Quarantine Agency Compiled by the GVB Research Department

APPENDIX A25

Notes	Active	Phase	Consultant OR In-house OR ACOE	PROJ NO		DESCRIPTION	PE_DT	CONST_DT	PGM_CD	Funding Type	OBLIGATED TOTAL COST	EXPEND AMT	UNEXPEND BAL
JC Tenorio - Ponding Basin Design	Active	PE	Consultant	0001113-00	GU-NH-0001(113)	MARINE DR: AIRPORT RD TO Y-SENGSONG RD, CON FOR RECON & WIDEN 6-LN DIV HWY		9/1/1999	QT10	NHS- Territories- TEA21	14,103,366.00	13,688,143.46	415,222.54
Winzler Kelly - decide scope	Active	PE	Consultant	0002101-00	GU-NH-0002(101)	ROUTE 2, NAMO RIVER BRIDGE TO SANTA ANA CHAPEL, PE FOR RECONSTRUCTION AND WIDENING.	6/27/2002		QT10	NHS- Territories- TEA21	350,000.00	6,000.00	344,000.00
DPW negotiating settlement with Contractor	Active	D/B cancel after PE		0003104-00	GU-NH-0003(104)	ROUTE 3 RECONSTRUCTION AND WIDENING, DESIGN/BUILD		10/21/2005	QT10	NHS- Territories- TEA21	6,120,000.00	218,898.90	5,901,101.10
In final design phase	Active	D/B		0004108-00	GU-NH-0004(108)	ROUTE 4, REHABILITATION AND WIDENING (ROUTE 1 TO ROUTE 10)		8/30/2005	QT10	NHS- Territories- TEA21	10,251,823.00	0.00	10,251,823.00
NC. Macario - wetland issue	Active	PE	Consultant	0004110-00	GQ-ER-0004(110)	ROUTE 4 AS-MISA BRIDGE (INARAJAN NORTH LEG), WINGFALL, ABUTMENT AND APPROACH RESTORATION, TYPHOON PONGSONA (DEC. 8, 2002)	9/9/2003	9/9/2003	09V0	ER	200,000.00	0.00	200,000.00
Winzler Kelly - 60% design	Active	PE	Consultant	0004113-00	GQ-ER-0004(113)	ROUTE 4, AGFAYAN BRIDGE (PERMANENT REPAIR), TYPHOON CHATA'AN (JULY 5, 2002); PE	8/28/2003		09V0	ER	540,000.00	173,115.50	366,884.50
E&A Engineers	Active	PE	Consultant	0005003-00	GU-NH-0005(003)	ROUTE 5 AND PORTION OF ROUTE 12, RECONSTRUCTION AND WIDENING (DESIGN); PRELIMINARY ENGINEERING	8/5/2004		HT10	NHS Territories STEA3	300,000.00	160,219.02	139,780.98
selection cancelled violation of procurement law	Active	PE	Consultant	0005101-00	GU-NH-0005(101)	ROUTE 5, ROUTE 2A TO ROUTE 17; PE FOR RECONSTRUCTION AND WIDENING.	6/27/2002		QT10	NHS- Territories- TEA21	120,000.00	0.00	120,000.00
Winzler Kelly	Active	PE	Consultant	0008003-00	GU-NH-0008(003)	ROUTE 8/ROUTE 10 (RADIO BARRIGADA ROAD) TRAFFIC SIGNAL INSTALLATION	7/13/2005		HT10	NHS Territories STEA3	120,000.00	0.00	120,000.00
EMPSCO on-hold for Tiyan	Active	PE	Consultant	0010001-00	GU-NH-0010(001)	ROUTE 10/SABANA MAGAS ROAD AND ROUTE 8/NORTH BIANG STREETS INTERSECTIONS	7/13/2005		HT10	NHS Territories STEA3	110,000.00	0.00	110,000.00
T.G. Engineers Only ROW maps generated. PE cancelled for D/B	Active	PE (ROW only)		0015102-00	GU-NH-0015(102)	ROUTE 15, ROUTE 26 TO ROUTE 29; PE FOR RECONSTRUCTION AND WIDENING.	6/27/2002		QT10	NHS- Territories- TEA21	500,000.00	87,677.00	412,323.00
Cancelled; potholes fixed SOW determine after military build-up	Active	D/B on-hold		0015103-00	GU-NH-0015(103)	ROUTE 15, RECONSTRUCTION, PHASE I (ROUTE 26 TO ROUTE 29), DESIGN/BUILD		8/30/2005	HT10	NHS Territories STEA3	2,900,000.00	0.00	2,900,000.00
DBA	Active	PE	Consultant	0017102-00	GU-NH-0017(102)	ROUTE 17, ROUTE 5 TO ROUTE 4; PE FOR RECONSTRUCTION AND WIDENING.	6/27/2002		QT10	NHS- Territories- TEA21	430,652.00	231,259.00	199,393.00
TG Engineers	Active	PE	Consultant	0025101-00	GU-NH-0025(101)	ROUTE 25; ALAGETA ROAD (ROUTE 26 TO BELLO ROAD); PE FOR RECONSTRUCTION & WIDENING.	6/27/2002		QT10	NHS- Territories- TEA21	254,273.00	114,474.50	139,798.50
Serisola & Associates	Active	PE	Consultant	0026004-00	GU-NH-0026(004)	ROUTE 26 (MACHETE ROAD) RECONSTRUCTION AND WIDENING (ROUTE 1 TO ROUTE 15)	8/22/2005		HT10	NHS Territories STEA3	192,839.00	51,390.90	141,448.10
Not sure	Active	PE	Consultant	0026102-00	GU-NH-0026(102)	ROUTE 26, INTERSECTION OF ROUTE 26 AND ROUTE 25; PE FOR PHASE I, TRAFFIC SIGNAL INSTALLATION AT THE INTERSECTION.	6/27/2002		QT10	NHS- Territories- TEA21	35,000.00	31,657.50	3,342.50
Not sure	Active	CON?		0026103-00	GU-NH-0026(103)	ROUTE 26, INTERSECTION OF ROUTE 26 AND ROUTE 25; CON FOR PHASE I, TRAFFIC SIGNAL INSTALLATION AT THE INTERSECTION.		9/10/2002	QT10	NHS- Territories- TEA21	1,007,000.00	0.00	1,007,000.00
No consultant selected	Active	PE		0027004-00	GU-NH-0027(004)	ROUTE 27 (FINEGAYAN ROAD) RECONSTRUCTION (ROUTE 1 TO ROUTE 16)	7/13/2005		HT10	NHS Territories STEA3	230,000.00	0.00	230,000.00

Notes	Active	Phase	Consultant OR In-house OR ACOE	PROJ NO		DESCRIPTION	PE_DT	CONST_DT	PGM_CD	Funding Type	OBLIGATED TOTAL COST	EXPEND AMT	UNEXPEND BAL
TG Engineers	Active	PE	Consultant	0029001-00	GU-NH-0029(001)	ROUTE 29 RECONSTRUCTION AND WIDENING (ROUTE 1 TO ROUTE 15)	7/13/2005		HT10	NHS Territories STEA3	249,000.00	0.00	249,000.00
DBA 90% design	Active	PE	Consultant	002A001-00	GU-NH-002A(001)	1) ROUTE 2A, TEMPORARY RESTORATION OF GUATALI BRIDGE AND EMBANKMENT			QT10	NHS- Territories- TEA21	20,000.00	0.00	20,000.00
Geo 100% design	Active	PE	Consultant	006A102-00	GQ-ER-006A(102)	ROUTE 6A, MURRAY ROAD SCOUR TEMPORARY TRAFFIC CONTROL; PERMANENT RESTORATION, TYPHOON PONGSONA		8/18/2003	09V0	ER	285,820.00	9,788.00	276,032.00
J.C. Tenorio selected no SOW waiting for Conceptual Design	Active	PE	Consultant	00TP001-00		TIYAN PARKWAY, DESIGN	9/15/2006		LT10	NHS- Territories (FY06+)	300,000.00	0.00	300,000.00
DBA fee negotiated	Active	PE	Consultant	010A001-00	GU-NH-010A(001)	ROUTE 10A (AIRPORT ROAD) PORTION REHABILITATION (DESIGN); PRELIMINARY ENGINEERING	8/5/2004		HT10	NHS Territories STEA3	300,000.00	0.00	300,000.00
EM Chen ROW needed	Active	PE	Consultant	014B001-00	GU-NH-014B(001)	ROUTE 14B (IPAO ROAD) RECONSTRUCTION AND WIDENING (DESIGN); PRELIMINARY ENGINEERING	8/5/2004		HT10	NHS Territories STEA3	300,000.00	100,231.20	199,768.80
	Active	CON	ACOE	0981015-00	GQ-ER-098-1(015)	RT 1 MARINE DR, ADELUP SHORE PROTECTION; PE AND CON FOR SHORELINE REVETMENT AND ROADWAY SHOULDR IMPROVEMENTS	4/1/2001		0980	ER	150,000.00	150,000.00	0.00
	Active	CON	ACOE	0981016-00	GQ-ER-098-1(016)	RT 4 TALOFOFO SHORE PROTECTION FROM SOUTH, PE/CON FOR SHORELINE REVETMENT/RDWY	4/1/2001	4/1/2001	09V0	ER	312,167.00	312,167.20	-0.20
	Active	CON	ACOE	0981016-00	GQ-ER-098-1(016)	RT 4 TALOFOFO SHORE PROTECTION FROM SOUTH, PE/CON FOR SHORELINE REVETMENT/RDWY	4/1/2001	4/1/2001	0980	ER	446,162.00	446,161.88	0.12
	Active	CON	ACOE	0981016-00	GQ-ER-098-1(016)	RT 4 TALOFOFO SHORE PROTECTION FROM SOUTH, PE/CON FOR SHORELINE REVETMENT/RDWY	4/1/2001	4/1/2001	09Q0	ER	2,268,672.00	2,268,670.92	1.08
	Active	PE	ACOE	0981017-00	GQ-ER-098-1(017)	RT 11 COMMERCIAL PORT RD, PITI POWER PLANT, CON FOR SHORELINE REVETMENT AND SHOULDER IMPROVEMENTS		4/1/2001	09Q0	ER	1,743,917.00	1,743,916.64	0.36
	Active	PE	ACOE	0981018-00	GQ-ER-098-1(018)	RT 11 COMMERCIAL PORT RD, CABRAS ISLAND SECTI, CON FOR SHORELINE REVETMENT/RDWY SH	10/29/2007		09V0	ER	549,000.00	0.00	549,000.00
	Active	PE	ACOE	0981018-00	GQ-ER-098-1(018)	RT 11 COMMERCIAL PORT RD, CABRAS ISLAND SECTI, CON FOR SHORELINE REVETMENT/RDWY SH	10/29/2007		09Q0	ER	0.00	0.00	0.00
	Active	CON	ACOE	0981020-00	GQ-ER-098-1(020)	ROUTE 4, INARAJAN BAY; PE FOR SHORELINE REVETMENT AND ROADWAY SHOULDER IMPROVEMENTS (850 L.F.)	9/4/2002		0980	ER	1,520,000.00	1,520,000.00	0.00
	Active	CON	ACOE	0981020-00	GQ-ER-098-1(020)	ROUTE 4, INARAJAN BAY; PE FOR SHORELINE REVETMENT AND ROADWAY SHOULDER IMPROVEMENTS (850 L.F.)	9/4/2002		09Q0	ER	286,000.00	286,000.00	0.00
0% design	Active	PE	In-house	0ADA001-00	GU-NH-OADA(001)	ADA COMPLIANCE PROJECT, ROUTE 1 (ROUTE 30 TO ROUTE 16)		8/29/2005	HT10	NHS Territories STEA3	400,000.00	0.00	400,000.00
0% design	Active	PE	In-house	0ADA002-00	GU-NH-OADA(002)	ADA COMPLIANCE PROJECT, ROUTE 30, ROUTE 30A AND ROUTE 16 (ROUTE 1 TO ROUTE 10A)	8/29/2005		HT10	NHS Territories STEA3	146,000.00	0.00	146,000.00
DBA	Active	PE	Consultant	0PES001-00	GU-NH-OPES(001)	PROFESSIONAL ENGINEERING SERVICES			LT10	NHS- Territories (FY06+)	49,000.00	0.00	49,000.00
Fibert component under PBI	Active	PE/CON	In-house	1000002-00	GU-NH-1000(002)	GUAM TERR FA SYS, CON TMC CTR & TRAFFIC CONTROL SYS; EMERGENCY/PERMANENT REPAIRS TO TRAFFIC SYS DAMAGED BY SUPER TYPHOON PONGSONA		9/1/1996	QT10	NHS- Territories- TEA21	6,868,214.00	6,599,998.03	268,215.97
Fibert component under PBI	Active	PE/CON	In-house	1000002-00	GU-NH-1000(002)	GUAM TERR FA SYS, CON TMC CTR & TRAFFIC CONTROL SYS; EMERGENCY/PERMANENT REPAIRS TO TRAFFIC SYS DAMAGED BY SUPER TYPHOON PONGSONA		9/1/1996	09V0	ER	994,000.00	929,968.81	64,031.19
Fibert component under PBI	Active	PE/CON	In-house	1000002-00	GU-NH-1000(002)	GUAM TERR FA SYS, CON TMC CTR & TRAFFIC CONTROL SYS; EMERGENCY/PERMANENT REPAIRS TO TRAFFIC SYS DAMAGED BY SUPER TYPHOON PONGSONA		9/1/1996	31E0	NHS Allocation to Territories	3,500,000.00	3,362,208.32	137,791.68

Notes	Active	Phase	Consultant OR In-house OR ACOE	PROJ NO		DESCRIPTION	PE_DT	CONST_DT	PGM_CD	Funding Type	OBLIGATED TOTAL COST	EXPEND AMT	UNEXPEND BAL
No action	Active	ROW	In-house	1000008-00	GU-NH-1000(008)	ISLANDWIDE GUAM TERR FED-AID HWY SYSTEM, DEVELOP GUAM ROW OPERATIONS MANUAL			QT10	NHS- Territories- TEA21	60,000.00	0.00	60,000.00
No action	Active	PE		1000013-00	GU-NH-1000(013)	DEVELOPMENT OF GUAM DPW STANDARD PLANS AND SPECIFICATIONS (DESIGN); PRELIMINARY ENGINEERING	8/5/2004		HT10	NHS Territories STEA3	100,000.00	0.00	100,000.00
No action	Active	PE	In-house	1000014-00	GU-NH-1000(014)	ADOPT-A-TRAFFIC SIGNAL PROGRAM, UPGRADE AND NEW INSTALLATION (DESIGN), GUAM		9/8/2004	HT10	NHS Territories STEA3	54,768.00	0.00	54,768.00
No action	Active	PE	In-house	1000014-00	GU-NH-1000(014)	ADOPT-A-TRAFFIC SIGNAL PROGRAM, UPGRADE AND NEW INSTALLATION (DESIGN), GUAM		9/8/2004	QT10	NHS- Territories- TEA21	245,232.00	0.00	245,232.00
	Active	CON Advertised		1000015-00	GU-NH-1000(015)	TRAFFIC SIGNAL OPTICOM EMITTER SYSTEM EQUIPMENT			HT10	NHS Territories STEA3	300,000.00	103,305.48	196,694.52
	Active	CON Advertised		1000016-00	GU-NH-1000(016)	COMPLETION OF THE TRAFFIC MANAGEMENT CENTER BUILDING, DESIGN/BUILD		8/29/2005	HT10	NHS Territories STEA3	764,400.00	558,531.00	205,869.00
	Active	CON Advertised		1000017-00	GU-NH-1000(017)	GUAM ISLAND-WIDE TRAFFIC SIGNAL SYSTEM, LOOP DETECTOR REPLACEMENT AND PAVEMENT SPOT REPAIR		9/7/2004	QT10	NHS- Territories- TEA21	120,691.00	80,132.29	40,558.71
	Active	CON Advertised		1000017-00	GU-NH-1000(017)	GUAM ISLAND-WIDE TRAFFIC SIGNAL SYSTEM, LOOP DETECTOR REPLACEMENT AND PAVEMENT SPOT REPAIR		9/7/2004	HT10	NHS Territories STEA3	242,772.00	242,771.66	0.34
EMCE Consulting Engineers	Active	PE	Consultant	1000018-00	GU-NH-1000(018)	TRAFFIC SIGNAL SYSTEM UPGRADE, ISLAND-WIDE	7/13/2005		HT10	NHS Territories STEA3	360,000.00	0.00	360,000.00
DBA - 60% design	Active	PE	Consultant	ER22016-00	GQ-ER22(016)	ROUTE 4 AS-ALONSO AREA, TERRITORY OF GUAM; PERMANENT RESTORATION AT AS- ALONSO AREA, TYPHOON CHATA'AN JULY 5, 2002.	7/24/2002		09V0	ER	522,000.00	209,162.00	312,838.00
DBA - 60% design	Active	PE	Consultant	ER22016-00	GQ-ER22(016)	ROUTE 4 AS-ALONSO AREA, TERRITORY OF GUAM; PERMANENT RESTORATION AT AS- ALONSO AREA, TYPHOON CHATA'AN JULY 5, 2002.	7/24/2002		QT10	NHS- Territories- TEA21	522,000.00	0.00	522,000.00
Winzler Kelly - 60% design	Active	PE	Consultant	ER22017-00	GQ-ER22(017)	ROUTE 4 AGFAYAN BRIDGE (BRIDGE #12), TERRITORY OF GURAM; PERMANENT RESTORATION OF APPROACHES - TYPHOON CHATA'AN JULY 5, 2002.	7/24/2002		09V0	ER	180,000.00	73,458.87	106,541.13
Winzler Kelly - 60% design	Active	PE	Consultant	ER22017-00	GQ-ER22(017)	ROUTE 4 AGFAYAN BRIDGE (BRIDGE #12), TERRITORY OF GURAM; PERMANENT RESTORATION OF APPROACHES - TYPHOON CHATA'AN JULY 5, 2002.	7/24/2002		QT10	NHS- Territories- TEA21	0.00	0.00	0.00
	Active	CON Advertised		ER22018-00	GQ-ER22(018)	ROUTE 4 TINAGA BRIDGE (BRIDGE 31A), TERRITORY OF GUAM; PERMANENT RESTORATION OF APPROACHES, TYPHOON CHATA'AN JULY 5, 2002.	7/24/2002	9/17/2006	09J0	ER	220,000.00	0.00	220,000.00
	Active	CON Advertised		ER22018-00	GQ-ER22(018)	ROUTE 4 TINAGA BRIDGE (BRIDGE 31A), TERRITORY OF GUAM; PERMANENT RESTORATION OF APPROACHES, TYPHOON CHATA'AN JULY 5, 2002.	7/24/2002	9/17/2006	09V0	ER	55,000.00	49,800.00	5,200.00
	Active	CON Advertised		ER22018-00	GQ-ER22(018)	ROUTE 4 TINAGA BRIDGE (BRIDGE 31A), TERRITORY OF GUAM; PERMANENT RESTORATION OF APPROACHES, TYPHOON CHATA'AN JULY 5, 2002.	7/24/2002	9/17/2006	QT10	NHS- Territories- TEA21	0.00	0.00	0.00
	Active	CON Advertised		ER22020-00	GQ-ER22(020)	ROUTE 12 SANTA RITA BRIDGE (BRIDGE #26), TERRITORY OF GUAM; PERANENT RESTORATION OF APPROACHES, TYPHOON CHATA'AN JULY 5, 2002.	7/24/2002	9/17/2006	09J0	ER	165,000.00	0.00	165,000.00
	Active	CON Advertised		ER22020-00	GQ-ER22(020)	ROUTE 12 SANTA RITA BRIDGE (BRIDGE #26), TERRITORY OF GUAM; PERANENT RESTORATION OF APPROACHES, TYPHOON CHATA'AN JULY 5, 2002.	7/24/2002	9/17/2006	09V0	ER	24,500.00	24,500.00	0.00
	Active	CON Advertised		ER22020-00	GQ-ER22(020)	ROUTE 12 SANTA RITA BRIDGE (BRIDGE #26), TERRITORY OF GUAM; PERANENT RESTORATION OF APPROACHES, TYPHOON CHATA'AN JULY 5, 2002.	7/24/2002	9/17/2006	QT10	NHS- Territories- TEA21	0.00	0.00	0.00
DBA - 60% design	Active	PE	Consultant	GQ02001-00	GU-ER-GQ-2(001)	ROUTE 4, AS-ALSONSO AREA; PE FOR EARTHQUAKE REPAIR	6/27/2002		09V0	ER	60,734.00	0.00	60,734.00

Notes	Active	Phase	Consultant OR In-house OR ACOE	PROJ NO		DESCRIPTION	PE_DT	CONST_DT	PGM_CD	Funding Type	OBLIGATED TOTAL COST	EXPEND AMT	UNEXPEND BAL
Jess T. Lizama & Associates	Active	PE	Consultant	HE66003-00	GU-NH-HE66(003)	HIGHWAY HAZARD ELIMINATION PROJECT: ROUTE 1 (DEAD MAN'S CURVE) & ROUTE 4 (JEFF'S PIRATE COVE)	7/13/2005		HT10	NHS Territories STEA3	150,000.00	0.00	150,000.00
PE in-house Advertisment Cancelled	Active	CON		HE66004-00	GU-NH-HE66(004)	SAFETY IMPROVEMENT PROJECT ON PRIMARY ROADS (PAVEMENT MARKERS AND MARKINGS REPLACEMENT, ISLAND-WIDE)		5/19/2006	HT10	NHS Territories STEA3	4,560,000.00	0.00	4,560,000.00
PE in-house Advertisment Cancelled	Active	CON		HE66005-00	GU-NH-HE66(005)	SAFETY IMPROVEMENT PROJECT, ISLAND-WIDE SCHOOL ZONE SIGNS		9/15/2006	HT10	NHS Territories STEA3	261,708.00	0.00	261,708.00
PE in-house Advertisment Cancelled	Active	CON		HE66006-00	GU-NH-HE66(006)	VILLAGE STREET RESTORATION, TRAFFIC SIGNS, ISLAND-WIDE		9/15/2006	HT10	NHS Territories STEA3	281,130.00	0.00	281,130.00
EMPSCO	Active	PE	Consultant	HE66101-00	GU-NH-HE66(101)	ISLANDWIDE; PE FOR HIGHWAY HAZARD ELIMINATION	6/27/2002		QT10	NHS- Territories- TEA21	44,872.00	28,946.34	15,925.66
Jess T. Lizama & Associates	Active	PE	Consultant	HE66102-00	GU-NH-HE66(102)	GUAM ISALND-WIDE, HIGHWAY HAZARD ELIMINATION PROGRAM		9/7/2004	HT10	NHS Territories STEA3	1,406,786.00	106,601.00	1,300,185.00
	Active	CON Advertised		HE66104-00	GU-NH-HE66(104)	ISLANDWIDE POTHOLES REPAIR (PRIMARY ROADS, NORTHERN REGION)		2/9/2006	HT10	NHS Territories STEA3	1,000,278.00	0.00	1,000,278.00
	Active	CON Advertised		HE66105-00	GU-NH-HE66(105)	ISLANDWIDE POTHOLES REPAIR (PRIMARY ROADS, SOUTHERN REGION)		2/9/2006	HT10	NHS Territories STEA3	692,000.00	0.00	692,000.00
PBI/PTG	Active	PE	Consultant	IPMS002-00	GU-NH-IPMS(002)	ISLANDWIDE PROGRAM MANAGEMENT SERVICES			HT10	NHS Territories STEA3	4,000,000.00	0.00	4,000,000.00
PBI/PTG	Active	PE		IPMS002-00	GU-NH-IPMS(002)	ISLANDWIDE PROGRAM MANAGEMENT SERVICES			31E0	NHS Allocation to Territories	5,000,000.00	0.00	5,000,000.00
PBI/PTG	Active	PE		IPMS002-00	GU-NH-IPMS(002)	ISLANDWIDE PROGRAM MANAGEMENT SERVICES			LT10	NHS- Territories (FY06+)	1,107,497.00	0.00	1,107,497.00
Advertised not selected	Active	PE	Consultant	IRLS001-00	GU-NH-IRLS(001)	ISLAND-WIDE, REGISTERED LAND SURVEYOR SERVICES			LT10	NHS- Territories (FY06+)	49,000.00	0.00	49,000.00
DBA - 30% design	Active	PE	Consultant	NBIS003-00	GU-NH-NBIS(003)	PIGUA BRIDGE REPLACEMENT AND ROAD APPROACHES IMPROVEMENTS	8/29/2005		HT10	NHS Territories STEA3	400,000.00	49,750.00	350,250.00

Appendix C

Model Assumptions Report

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General Overview

The purpose of this paper is to present the assumptions that were made in the development of the 2013 Construction Peak travel demand scenario and the 2015 Military Build-up scenario. The modeling procedure consists of using an existing 3-step gravity model to forecast travel demand (i.e. produce trip tables) for local residents and then develop additional trip tables for military travel using information provided by the military. The combined trip tables are then assigned to the existing, plus committed highway network, using a standard equilibrium-based assignment technique provided by the TransCAD software application. The 2013 Construction Peak scenario and the 2015 Military Build-up scenario are used to understand the impact of the construction and military build-up on traffic volumes and congestion.

The military information was sent by NavFacPac on February 1, 2008. This information was given in the form of a spreadsheet referred to in this document as the "Data Needs Worksheet" (DNW) (**Appendix A**).

According to the Census Bureau's population projections, Guam's population in 2013 is expected to be 187,753 persons. This represents an approximate 1.5% annual growth rate from year 2000 levels. However, in the 2013 Construction Peak scenario, off-island workers (construction and others) forecasted to fill the construction and indirect jobs created due to the increased military presence are added to the local population, resulting in a total population of 215,000. By 2015 a majority of the construction workers have left and the indirect worker population is smaller as well; however, the Marine and Army personnel have arrived and thus the population will be approximately 225,000 people. The off-island workers, the construction and indirect employment, and the assumptions related to their locations are discussed below, followed by a discussion of the military trip table development.

Number of Off-island Workers

According to the DNW, the number of direct new civilian construction jobs expected from the military build-up in 2013 is 15,913. In addition, the number of indirect jobs expected in 2013 is 20,095, with 15,545 workers coming from off-island to fill them. In 2015 the number of construction jobs is expected to drop to 6,240 and the number of indirect jobs is expected to be 14,354 (9,804 filled by off-island workers). There will also be approximately 5,000 direct Department of Defense (DOD) civilian jobs by 2015.

	· · · ·	•	· · ·	
Year	Total Construction	Total Indirect	DoD Civilian Jobs filled	Total
real	Jobs Expected	Jobs Expected	by Guam residents	Jobs
2013	15,913	20,095	250	36,258
2015	6,240	14,354	2500	23,094

Table 1: Number of jobs expected during Construction Peak (2013) and Military Build-up (2015)

Source: Data Needs Worksheet – February 1, 2008

Applying the year 2000 labor participation rate to the 2013 population gives a labor pool of approximately 86,000 workers. Assuming the military does not increase troop levels, an unemployment rate of 15% was forecasted (12,900 people in the labor force will not have a job). However, assuming the planned military relocation, the unemployment rate is assumed to drop to 4% (3,400 unemployed persons). This implies that 9,400 existing residents become available to fill military and construction related jobs, and thus 26,800 workers will be needed from off-island to fill the remaining positions. The same calculations were done for 2015 to estimate the off-island workforce.

Model Assumptions

Year	Population	Labor Force	Number unemployed – no military build-up	Number unemployed – with military build-up	Number of unemployed who become employed due to military build-up	Off-island labor force	Total Workers
2013	187,753	85,868	12,880	3,435	9,445	26,812	36,257
2015	192,302	87,949	13,192	3,517	9,674	13,419	23,093

Table 2: Number of workers expected during Construction Peak and Military Build-up

Because the DNW stated that 15,545 workers will come from off-island to fill the indirect jobs in 2013, it was assumed that the remaining 11,267 workers will fill the construction jobs. In 2015, 9,804 off-island workers will fill indirect jobs (3,615 workers are filling construction jobs).

Assumptions	Consequences	Comments
250 DoD jobs need to be filled by 2013.	250 jobs will need to be filled which adds to the number of workers coming from off-island.	The jobs are located at NCTS.
Labor force participation rate in 2000 applies to 2013 and 2015.	Number of workers coming from off-island can go up or down depending on this assumption.	2000 was used because there was a census population count and an official employment number for that year.
Unemployment rate will be 15% without military and will drop to 4% with the military.	Number of workers coming from off-island can go up or down depending on this assumption.	Based on an official Guam unemployment history document, an unemployment rate of 15% is not unreasonable (current unemployment is around 11%). The drop to 4% also is consistent with other periods of high military presence in Guam.

Home Locations of Off-island Workers

The off-island indirect workers were added to the Traffic Analysis Zones (TAZs) around the construction sites and were assumed to have travel characteristics similar to other Guam residents. The first step in the 3-step gravity model is to generate four types of auto trips: home-based work, home-based other, non-home-based, and commercial vehicle trips. The trip generation rates are based on the trip type and the household size; typically the larger the household, the more trips it generates and in general households make more home-based other and non-home-based trips than work trips. It should be noted that Guam has an above average household size, and therefore most of these workers are anticipated to live in households with at least two to three other workers.

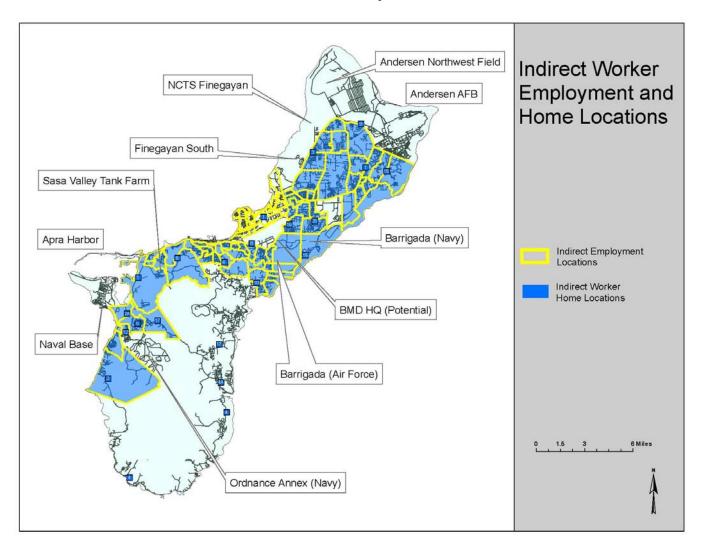
	Daily Vehicle Trips Per Household					
	HH Size 1-2	HH Size 3-4	HH Size 5+			
Home-based Work Trips(HBW)	1.298	2.175	3.004			
Home-based Other Trips (HBO)	1.873	3.983	6.561			
Non-Home-Based Trips (NHB)	The NHB productions are equal to the NHB attractions (see table below)					
Commercial Vehicle Trips (CV)	The CV productions are equal to the CV attractions (see table below)					

Table 3: Trip Production Rates in the Model

Source: PTG – Rebased Model – July 2008

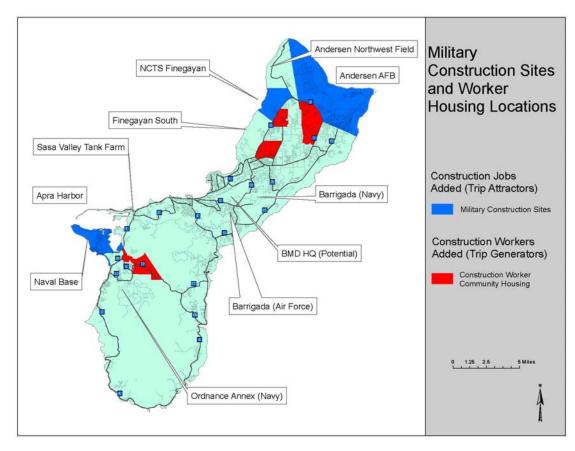
Indirect Workers

The off-island workers coming to Guam to fill the indirect jobs were distributed to TAZs near the construction sites based on the 2013 forecasted population distribution. It was assumed that these workers will not bring additional members of their families, but that they will actually live together forming households of various sizes (based on 2013 distribution in each TAZ) in order to economize. As noted above, it was assumed that they will be responsible for their own transportation to and from their work locations and that they will make home-based other and non-home-based trips at the same rates as other Guam residents. The presence of these households contributes to the number of commercial vehicle trips produced as well. The map below shows the location of the indirect workers as well as where the indirect jobs were located.



Construction Workers

The construction workers coming from off-island were assumed to live in community housing in TAZs located adjacent to the major construction areas (see map below). They will be transported to the worksites using a fleet of 10-passenger vans, 20-passenger shuttles, and 40-passenger buses during off-peak hours.



Assumptions	Consequences	Comments
Off-island construction workers live in community housing near the work sites and do not own personal vehicles.	Very little impact on the road system.	The only construction worker travel that was modeled was going to and from work sites.
Construction workers make no trips on the island other than work trips.	Very little impact.	Given the assumption that con- struction workers don't own ve- hicles, the model does not account for any trips other than work trips using the vans, shuttles, and buses.
The off-island indirect worker Population only accounts for workers, not non-workers	The population only grows by 15,545 but in theory there could be some additional dependents that are not accounted for in the population estimates	School enrollment was adjusted to account for the increase in households. However, none of the indirect worker data was included in the DAR eligibility analysis.
Off-island workers live together and form households of all sizes, not just households of size 1.	The number of trips increases with household size so the overall number of trips is greater than it would be if everyone lived in a single- person household.	For the purposes of DAR eligibility, the indirect worker assumptions are not relevant.

Indirect and Construction Jobs

In a gravity model the number of jobs in each TAZ is an important factor for determining trip distribution. Above it was discussed how the indirect workers impacted trip production (the number of trips being made and their origin zone) but it is the location, magnitude, and type of employment that is an important factor in determining where these trips end up (i.e. their destination zone). This model considers three types of employment: retail, hotel, and other. Each type of trip (home-based work, home-based other, non-home-based, and commercial vehicle) weights the employment types in a TAZ to come up with an "attraction" factor. As the name implies, the "gravity" model distributes trips based on the gravitational pull of each zone.

Trip Purpose	Total Employment	Retail Employment	Hotel Employment	Other Employment	School Enrollment	Total Households
HBW	1.00					
HBO		2.180	0.703	0.703	0.600	0.403
NHB		6.672	3.400	1.290	0.137	0.709
CV		0.202	0.062	0.062		0.105

Table 4:	Frip Attraction	Variables	and Weights
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Source: Guam 2020 Highway Master Plan Report; October 26, 2005; prepared by Duenas Bordello and Associates.

Indirect Jobs

The DNW gave a total of indirect jobs but did not break the jobs into the model categories. Because retail employment has a greater weight than hotel or other employment, 30% of the indirect jobs were assigned to the "retail" category and the rest were classified as "other." The split was based on historical proportions. These new jobs were distributed to TAZs in the Northern and Central part of the island based on the 2013 forecasted employment locations. (See map above.)

Construction Jobs

The 15,000+ construction jobs were classified as "other." Since the majority of those jobs are filled by the offisland workers whose work trips are being accounted for explicitly, only the jobs filled by Guam residents were added to four main construction sites: Andersen (TAZs 1 and 2), NCTS Finegayan (TAZ 16), and Apra Harbor (TAZ 135). The resident jobs were proportioned based on the total construction dollars spent at each site.

TAZ	Location	Total Construction Dollars (in billions)	Total Number of Construction Jobs in 2013	Number of Construction Jobs Filled by Residents
1	AAFB	1.0	1958	572
2	AAFB – air field	0.5	979	286
16	NCTS Finegayan	6.0	11485	3353
135	Apra Harbor	1.0	1492	435
	Total	8.5	15913	

Source: PB construction job distribution based on dollar figures given to PB by Tom McLemore in June 2008.

The amount of "other" employment added to NCTS Finegayan makes that zone very attractive in the trip distribution step of the model and therefore that zone attracts a large number of trips.

Assumptions	Consequences	Comments
Construction jobs are	The jobs are concentrated in the northern	In particular the roads around NCTS
distributed to only four	part of the island which leads to heavy	Finegayan are congested in the AM and
sites.	congestion in this area.	PM peak periods.

Fixed Military Trip Tables

In addition to the residential trips, additional trips based on specific information in the same Data Needs Worksheet (DNW) discussed above were added before the trips were assigned to the network. The original information was based on the AIP+ alternative which had 13,235 Marines and 10,653 dependents. In a subsequent phone call after the IGIA meetings in Washington DC, it was determined that we should be using the AIP numbers (8,000 Marines – 9,000 Dependents) instead. However the underlying assumptions were never updated, nor was the other information changed to reflect this change in personnel levels.

From the DNW, the following trip tables were produced:

- Construction cargo trips (peak and off-peak).
- Miscellaneous cargo trips (peak and off-peak).
- Construction worker trips (off-peak).
- CVN port call trips (peak and off-peak).
- Miscellaneous privately owned vehicle (POV) trips (off-peak).
- Marine work trips (peak and off-peak) 2015 only.
- Marine/Army and dependent home-based other trips (peak and off-peak) 2015 only.
- Marine/Army dependent DoD work trips (peak) 2015 only.
- Off-base training trips (peak and off-peak) 2015 only.
- School trips (peak and off-peak) 2015 only.
- Marine/Army dependent civilian work trips (peak and off-peak) 2015 only.
- Marine/Army dependent university trips (off-peak) 2015 only.

In order to develop the two scenarios, some basic assumptions were made since most of the data was relevant only to the 2030 timeframe.

Main Assumptions:

- In 2013, 400 Marines will be relocated to Guam but there will be no dependents.
- All Marines in 2013 will live and work at NCTS Finegayan so there will be no work trips.
- In 2015 all 8,000 Marines and the 9,000 dependants along with the Army forces will be relocated.
- 25% of the 3,520 family housing units will be at South Finegayan; the rest at NCTS Finegayan.
- Any personnel not living in family housing will live in BEQ at NCTS Finegayan.
- No build-up would occur in the other service branches current levels were carried forward.
- 1 bus = 2 passenger cars.
- 1 cargo truck = 4 passenger cars.
- When in doubt, model the "worst case."
- The PM Peak trip table is the transpose of the AM Peak trip table unless otherwise noted.

To develop each trip table listed above, additional assumptions were made which will be outlined as each trip table is discussed below.

Trip Table: On-base Construction and Military Supply Truck Trips From the Port Data Needs Worksheet Cell: 2

Excel Worksheet Name: Construction Cargo Trips

Assume 3-axle tractor-trailer with 60,000-gross weight. Distribution:

- Port-Naval Base (random times 0600-1800): X trips/day
- Naval Base-NCTS Finegayan (random times 0600-1800): X trips/day
- NCTS Finegayan to following locations (random times 0600-1800): AAFB (via new gate) X trips/day, Andersen South X trips/day, Barrigadas (Navy/AF) X trips/day, Ordnance Annex X trips/day

Existing Ordnance Transport:

- Trailer trucks (2-axle) Naval Base to Ordnance Annex: X trips/month, weekday, (random times)
- Trailer trucks (2-axle) Naval Base to AAFB: X trips/month, weekday, (random times)

Proposed Ordnance Transport:

- Trailer trucks (2-axle) Naval Base to Ordnance Annex: X% of existing frequency
- Trailer trucks (2-axle) Naval Base to AAFB: X% of existing frequency
- Trailer trucks (2-axle) Naval Base to Andersen South (Alt. A1): X trips/month, weekday, (random times)

The construction truck estimates were developed by PTG after analyzing the amounts of materials needed to replicate the facilities in Okinawa. The materials needed for island road construction was also included in the estimates. The following table was provided by PTG showing the number of trucks and their origins and destinations. For the "Quarry to Roads" entry, the trucks were distributed to the TAZ nearest to the predicted road construction site. In 2013 all of the trucks below were assigned (approximately 400 to the peak periods and the rest to off-peak), whereas in 2015 only 40% of the trucks were assigned.

						1,460 days	
			100% Payload	30% Payload		<u>Average</u>	Peak @ 170%
1 Port to NTSC	9,000.000 tons	25 Miles	450,000 trucks	375,000 trucks	825,000 trucks	570 trucks	970 trucks
2 Apra to NTSC	5,000.000 tons	25 Miles	250,000 trucks	208,333 trucks	458,333 trucks	320 trucks	550 trucks
3 Port to Anderson	3,000.000 tons	27 Miles	150,000 trucks	125,000 trucks	275,000 trucks	190 trucks	330 trucks
4 Apra to Anderson	1,000.000 tons	27 Miles	50,000 trucks	41,667 trucks	91,667 trucks	70 trucks	120 trucks
5 NTSC to Anderson	1,000.000 tons	29 Miles		208,333 trucks	208,333 trucks	150 trucks	260 trucks
6 Pit to Anderson	500,000 tons	1 Miles	31,250 trucks		31,250 trucks	30 trucks	60 trucks
7 Quarry to Anderson	500,000 tons	4 Miles	31,250 trucks		31,250 trucks	30 trucks	60 trucks
8 Quarry to NTSC	4,500.000 tons	6 Miles	281,250 trucks		281,250 trucks	200 trucks	340 trucks
9 Quarry to Roads	9,108.000 tons	18 Miles	569,250 trucks		569,250 trucks	390 trucks	670 trucks

Source: PTG – Colman Mullin 6/24/08

Assumptions	Consequences	Comments
2015 still had construction cargo since the DNW showed 6000+ construction workers in 2015.	The 2015 scenario still includes some construction related traffic.	
The Peak levels were used in the model.	The peak is higher than the "average" and so potentially too many trucks are being assigned.	
All tonnage is loaded onto 48,000 lbs trucks and the trucks are assumed to be of legal weight	There may be a variety of truck sizes; therefore there could be more or less trucks depending on the truck types.	More information from the military and/or the construction companies is needed to refine the truck forecast.

Trip Table: Miscellaneous Cargo From the Port

Excel Worksheet Name: Cargo Trips

In both 2013 and 2015 construction activities will be occurring on the island due to the military build-up. This includes worker housing (off-base) and other infrastructure. The Port of Guam Master Plan was used to estimate the additional amount of cargo coming into the port in support of these activities. The port plan forecasted cargo assuming that the military would be increasing their force levels on the island – at the time the estimate was 12,510 active duty personnel and 11,450 dependents. The plan forecasted three types of cargo: break-bulk (which includes construction materials), containers, and bulk cement. Below is a summary of the existing and forecasted annual amounts of each type.

Year	Break-bulk Containers (revenue tons) (boxes)		Bulk Cement (tons)
2007	150,000	100,000	100,000
2011	270,000	150,000	500,000
2012	325,000	170,000	480,000
2013	310,000	175,000	450,000
2015	175,000	180,000	140,000

Source: Port of Guam Report (Draft) - PAG-Report-PartI&2-Draft_Public-Review_Rev-0.pdf

Assuming worst case, the peak amounts during the construction years were used for the truck calculations, not just the 2013 values. It was further assumed that all cargo above the 2007 level was material related to construction on sites outside the gates. The annual tonnage was converted to pounds; 48,000 pounds were assigned to a truck and the number of annual trucks was calculated. In the case of the containers, it was assumed that 1 container = 1 truck. The annual trucks were converted into daily trucks by dividing by 260 annual work days. This resulted in 400 trucks per day during peak construction coming from the Port in 2013 and 200 trucks per day in 2015.

The trucks were distributed to various sites around the island such as the Construction Worker community housing areas and the main road construction sites. 6% of the outbound and 6% of the inbound daily trucks (approximately 30 trucks) were assigned to each peak hour, while the rest (88%) were assigned to the network during the off-peak.

Assumptions	Consequences	Comments
Cargo amounts above the 2007 levels are military build-up related.	More trucks are forecasted than the "actual" number.	More information regarding the amount of construction materials imported would allow for better forecasting.
All tonnage is loaded onto 60,000 lbs trucks (48,000 lb load).	There may be a variety of truck sizes, and therefore there could be more or less trucks depending on the truck types.	More information from the military is needed to refine the truck forecast.

Trip Table: Construction Worker Trips

No Data Needs Worksheet Cell

Excel Worksheet Name: ConstructionWorkersV2

The transportation of the construction workers to the construction sites was assumed to occur using a fleet of vans, shuttles and buses that will be located at each community housing site. It was assumed that there will be a limited number of buses since they require a special license to operate. Therefore the majority of the workers will be transported in a van or a shuttle. It was also assumed that there will be two work shifts – 6AM to 3PM and 3PM to 12AM. This implies that the work trips will take place in the off-peak time period.

Off PEAK		AAFB	Housing Site	Housing Site	NCTS Fin	Housing Site	Housing Site	Naval Base	Housing Site	Total
		1	3	4	16	18	23	135	136	
AAFB	1		45	45						90
AAFB	2									
Housing Site	3	45								45
Housing Site	4	45								45
NCTS Fin	16					350	350			700
Housing Site	18				350					350
Housing Site	23				350					350
Naval Base	135								45	45
Housing Site	136							45		45
	Total	90	45	45	700	350	350	45	45	

Assumptions	Consequences	Comments
Construction workers will live in community housing near the construction sites.	Less traffic as construction workers will not have access to personal vehicles and will be relatively self- contained in the community housing area.	There has not been formal consensus on this issue between JGPO and NavFacPac. There is considerable impact if this assumptions turns out to be false.
Construction workers will be transported to work using vans, shuttles and buses during off peak.	Peak congestion around the military bases is reduced considerably by this assumption.	More information from the military is needed as no information was given as to the actual hours of work.

Trip Table: Marine Non-Home-Based (NHB) Work Trips

Data Needs Worksheet Cell: 1

Miscellaneous daily POV trips from NCTS Finegayan, random days/times:

- South Finegayan 10
- AAFB 30
- Andersen South 10
- AF/Navy Barrigada 10
- Ordnance Annex 5
- Naval Hospital 5
- Naval Base 30

Excel Worksheet Name: MarineNHBWork

These trips were assumed to depart and return during the off-peak; therefore there are no AM or PM peak trips associated with this data. The off-peak trip table is shown below:

Off PEAK		AAFB	AAFB	Anderson South	NW Field	NCTS Fin	South Fin	Andersen South	Barrigada Navy	Andersen South	Barrigada AF	Naval Hospital	Naval Base	Ordnance Annex	Naval Base	Total
		1	2	14	15	16	20	36	77	79	83	106	135	140	155	
AAFB	1					30										
AAFB	2															
Andersen South	14					5										
NW Field	15															
NCTS Fin	16	30		5			10	5	5		5	5	15	5	15	100
South Fin	20					10										
Andersen South	36					5										
Barrigada Navy	77					5										
Andersen South	79															
Barrigada AF	83					5										
Naval Hospital	106					5										
Naval Base	135					15										
Ordnance Annex	140					5										
Naval Base	155					15										
	Total					100										

Assumptions	Consequences	Comments	
All trips were assigned to the	None of these trips will be	Need more specific information	
off-peak.	considered in the overall military	from the military about the timing	
	impact.	of these trips.	

Trip Table: USMC Work Trips (applies to year 2015 ONLY)

Data Needs Worksheet Cell: 1

Work commute POV trips, South Finegayan or NCTS Finegayan-AAFB North Ramp:

- Weekday, peak a.m.: 633 trips
- Weekday, peak p.m.: 633 trips
- Weekday, off hours (round trips): 106
- Weekend (round trips): 106

Excel Worksheet Name: MarineWork

In addition to the 633 trips from Finegayan to Andersen, work trips from South Finegayan to NCTS Finegayan and intrazonal trips from the housing area at NCTS Finegayan to the work area of NCTS Finegayan are accounted for.

From	To Zone	AAFB	AAFB	NCTS Finegayan	Total
	Zone	1	2	16	
NCTS Finegayan	16	316		5189	5505
South Finegayan	20	317		343	660
	Total	633		5532	6165

The resulting AM Peak trip table is shown below:

Out of the 633 trips, 316 went from NCTS Finegayan (zone 16) to the front Andersen Air Force Base Gate (AAFB, zone 1), and 317 went from South Finegayan (zone 20) to AAFB. According to the DNW, 75% of Marines have a regular weekday work schedule. Therefore, 343 trips go from South Finegayan to NCTS Finegayan and the other 5,189 stay within the NCTS Finegayan area. These intrazonal trips do not actually get assigned to the network and are not included in the volume numbers that are produced by the model.

Assumptions Consequences		Comments
Army work trips are	Given the small number of Army	Information regarding housing and
not modeled.	personnel assumed to be on the island,	workplace locations for Army is needed if
	their impact is assumed to be negligible.	their work trips are to be included.

Trip Table: Military Home-Based Other (HBO) Trips (APPLIES TO 2015 ONLY)

Data Needs Worksheet Cell: 13

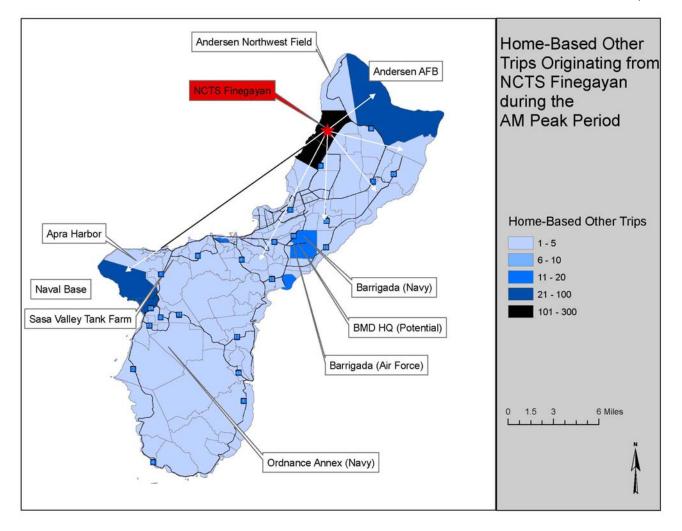
Other:

Unknown

Excel Worksheet Name: MarineHBOPATable, 8000Marines_HBOPA, 8000Marines_HBOTripTable

It was assumed that the military personnel and their dependents (11,148 people in total) will make trips off-base for recreation, doctor's appointments, shopping, etc. These trips are characterized as home-based other. Neither the question in DNW cell 13 nor the answer really helped to provide an estimate of the number of these types of trips or their destinations. It was assumed that the majority (75%) of these trips will be to military facilities, whereas the other 25% will be to other locations. For large households, the number of home-based other trips can be significant. In general the HBO production rates were applied to the military households, and the military zone attractions were weighted more heavily than non-military zones. The results showed that the 11,148 persons generated approximately 2,000 HBO trips in the AM Peak and approximately 1,800 HBO trips in the PM Peak. The following maps show the distribution of trips in the AM Peak.

Model Assumptions



Assumptions	Consequences	Comments
The HBO trip production rates that apply to residents of Guam also apply to	These trips are included in the impacts.	Will these trips be accepted by DDC in their impact evaluation?
military households.		If yes, we need more specific information regarding number of households by size and trip production/attraction rates.
75% of the HBO trips are distributed to military zones.	The majority of these trips impact military access points.	While these trips might not be considered by the DAR process, they should somehow be incorporated in the Impact Analysis. The military will need to provide better trip production rates if the resident model numbers are not approved.

Trip Table: Marine Dependent DoD Work Trips (APPLIES TO 2015 ONLY)

Data Needs Worksheet Cell: 7

Direct DoD civilian jobs:

- USMC: 5,000
- Army: unknown
- Assume 75% live offbase, 25% are dependents living onbase

Data Needs Worksheet Cell: 1

DoD civilian work commute POV trips from offbase (unknown locations) to onbase:

- Weekday, peak a.m.: 141 South Finegayan, 2,391 NCTS Finegayan, 281 AAFB
- Weekday, peak p.m.: 141 South Finegayan, 2,391 NCTS Finegayan, 281 AAFB
- Weekday, off hours (round trips): 23 South Finegayan, 398 NCTS Finegayan, 47 AAFB

• Weekend (round trips): 23 South Finegayan, 398 NCTS Finegayan, 47 AAFB

Excel Worksheet Name: MarineDepWork

In 2015 approximately 800 families will be living at South Finegayan, and the other 2,700 families will be living at NCTS Finegayan. It was assumed that the 1,250 DoD jobs filled by dependents will be located at South Finegayan, NCTS Finegayan, and Andersen Air Force Base proportional to the work commute trips listed above. It was also assumed that 300 of the dependents filling the DoD jobs will live at South Finegayan, and the rest will live at NCTS Finegayan.

The resulting AM Peak trip table is shown below:

	То	AAFB	AAFB	NCTS Finegayan	South Finegayan	
From	Zone	1	2	16	20	Total
NCTS Finegayan	16	62		888	0	950
South Finegayan	20	63		174	63	300
	Total	125		1062	63	1250

Assumptions	Consequences	Comments
5% of the jobs are located at	174 trips are assigned to Route 3	Need more specific information from the
South Finegayan, 85% at	from South Finegayan to NCTS	military about where the dependents are
NCTS Finegayan and 10% at	Finegayan.	coming from to fill the jobs and where the
Andersen.		jobs are located.

Trip Table: Military Training Trips (APPLIES ONLY TO 2015) Data Needs Worksheet Cell: 3b

AAV Training - 4 times/year, 3 weeks each, weekday training:

- NCTS Finegayan-Naval Base (Polaris Point): 4 bus trips and 30 POV trips per day, peak a.m./p.m.
- NCTS Finegayan-Naval Base (Polaris Point): 4 bus trips and 30 POV trips per day, peak a.m./p.m.
- NCTS Finegayan-Naval Base (Polaris Point): 12 tractor trailer trips per event, first trip weekday, pre-peak a.m., return trip weekday post-peak p.m.
- Tractor trailer weight = 70,000 lbs. approx. (tractor 12,000 + AAV 46,000 + trailer 10,000)

LCAC Training - 2 times/year, 3 weeks each, weekday training:

- NCTS Finegayan-Naval Base (Polaris Point): 2 bus trips and 0 POV trips per day, peak a.m./p.m.
- NCTS Finegayan-Naval Base (Polaris Point): 0 tractor trailer trips per event (LCACs transported via ship to Apra Harbor)

MOUT Training - each week, weekday training:

- NCTS Finegayan-Andersen South (Bivouac stay for 5 days): 23 bus trips (Monday, peak a.m.), 23 bus trips (Friday, peak p.m.), and 20 POV trips per day, (peak a.m./p.m.)
- NCTS Finegayan-Andersen South (OPFOR stay for 5 days): 1 bus trip (Monday, peak a.m.), 1 bus trip (Friday, peak p.m.), and 10 POV trips per day, (peak a.m./p.m.)

General Training at Andersen South - each week, weekday training:

- NCTS Finegayan-Andersen South (Shooters): 12 bus trips and 100 POV trips per day, (peak a.m./p.m.)
- NCTS Finegayan-Andersen South (Coaches): 0 bus trips and 15 POV trips per day, (peak a.m./p.m.)
- NCTS Finegayan-Andersen South (Range Management): 0 bus trips and 40 POV trips per day, (peak a.m./p.m.)
- NCTS Finegayan-Andersen South (Maneuver Training): 5 bus trips and 10 POV trips per day, (peak a.m./p.m.)

Excel Worksheet Name: Off-base Training

Because of the "worst case" assumption, all of the training was assumed to occur simultaneously on the model day, with most movement happening during the AM and PM peak time frame. The only exception to that is the 12 70,000 lb tractor trailer movements associated with the AAV training – these trips were assigned to the off-peak period.

AM Peak – Auto	То	Andersen South	Andersen South	Naval Base	Total
From	Zone	14	36	135	
NCTS Finegayan	16	30 ¹	165 ²	30 ³	225

Model Assumptions

AM Peak – Bus	То	Andersen South	Andersen South	Naval Base	Total
From	Zone	14	36	135	
NCTS Finegayan	16	24 ¹	17 ²	$4 + 2^4$	47

1. MOUT Training 2. General Training 3. AAV Training 4. LCAC Training

Trip Table: Dependent School Trips (APPLIES ONLY TO 2015)

Data Needs Worksheet Cell: 1

School trips (weekdays unless otherwise noted):

- Finegayan South NCTS Finegayan: 3 bus trips peak a.m., 3 bus trips peak p.m.
- Finegayan South NCTS Finegayan: 170 car trips peak a.m., 170 car trips peak p.m.
- Finegayan South NCTS Finegayan: 20 car trips between peak, 20 car trips off peak
- Finegayan South NCTS Finegayan: 10 car trips per weekend day

Excel Worksheet Name: DepSchoolTrips

The information from the DNW was used directly.

AM Peak - Auto	То	NCTS Finegayan	Total
From	Zone	16	
South Finegayan	20	170	170

AM Peak - Bus	То	NCTS Finegayan	Total
From	Zone	16	
South Finegayan	20	3	3

The remaining trips tables (CVN Port Call, Military Dependent Work Trips, and the Military Dependent University trips) are not discussed as they contribute less than 0.5% of AM or PM peak trips and are therefore of little consequence.