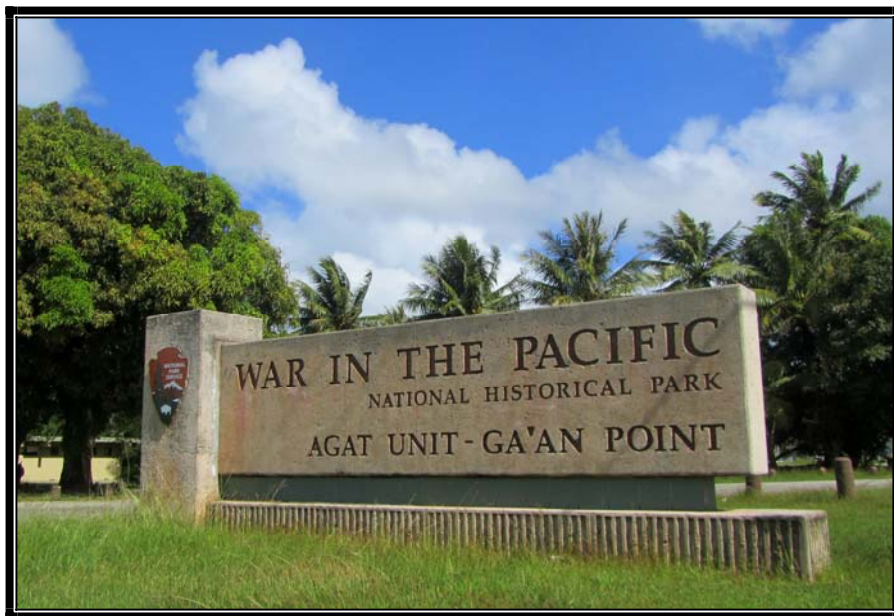




Federal Lands Highway Road Inventory Program

Road Inventory and Condition Assessment



War in the Pacific National Historical Park WAPA - 8790

Cycle 5 Report

Prepared By: Federal Highway Administration
Road Inventory Program (RIP)
Data Collection Date: 01/2012
Report Date: 03/2012

War in the Pacific National Historical Park in Territory of Guam





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Section 1 Introduction



War in the Pacific National Historical Park



INTRODUCTION

The Federal Highway Administration, (FHWA), in the mid 1970s, was charged with the task of identifying surface condition deficiencies and corrective priorities on National Park Service (NPS) roads and parkways. Additionally, FHWA was tasked with establishing an integrated maintenance features inventory, locating features such as culverts, guardrails, and signs, among others, along NPS roads and parkways. As a result, in 1976 the NPS and FHWA entered into an MOA (Memorandum Of Agreement) which established the RIP (Road Inventory Program). This MOA was terminated and revised in 1980 to establish a new MOA aiming to update RIP data and develop a long-range program to improve and maintain NPS roads to designated condition standards and establish a maintenance management program.

The FHWA completed this initial phase of the RIP in the early 1980s. As a result of this effort, each NPS site included in the study received a RIP Report known as the “Brown Book” which included the information collected during this first RIP phase.

In the 1990s, the effort was again renewed to update and maintain the RIP data. By this time the computer age was upon us and a process was employed that relied heavily on electronic data collection and computer technology. A cyclical program was developed and the RIP completed two cycles of data collection from 1994 to 2001. Cycle 1, starting in 1994, was conducted in 44 “large parks” (parks containing 10 or more paved route miles). Cycle 2 began in 1997 and comprised 79 large parks and 5 small parks totaling 4,874 paved route miles. Each of these parks received a RIP Report known as the “Blue Book”. Cycle 3, from 2001 to 2004, was conducted in all parks, large and small, that contained any paved routes, including parking areas and, again, each park received a RIP Report and associated electronic files.

Cycle 4 was initiated in the spring of 2006 covering 86 large parks and several associated small parks consisting of 5,553 paved route miles and 6,232 paved parking areas. Data collection has been completed for Cycle 4 and all data has been delivered to the NPS.

In 2005, the FHWA began implementing the use of a Pavement Management System (PMS) to assist the NPS in prioritizing Pavement Maintenance and Rehabilitation activities. The PMS used by FHWA is the Highway Pavement Management Application (HPMA) and this software has the ability to store inventory and condition data from RIP and forecast future performance using prediction models. Outputs include performance and condition reports at the National, Regional, Park, or Route level. A regional prioritized list and optimization have been produced for most regions and the Federal Highway Deferred Maintenance is calculated via the HPMA.

In an effort to improve the accuracy of treatment recommendations and pavement condition descriptions, an extensive study was completed throughout 2010 that has resulted in changes to the RIP condition reporting method, specifically the distresses and indexes that comprise the Pavement Condition Rating (PCR). It was determined that a better representation of PCR could

be achieved by modifying the relative impact certain distresses would have on the overall rating. The changes that were implemented were endorsed by management at both the FHWA and NPS in October 2010. These changes will allow greater use of RIP and HPMA data for not simply condition data reporting, but also as a reliable tool for project identification and selection. Because of these changes, the PCR Condition ratings reported in Cycle 5 do not directly relate to the condition ratings reported in previous cycle RIP Reports. For more detailed information about the changes, see Section 3 and Section 10 in this RIP Report.

Cycle 5 has launched in the summer of 2010 and will again comprise all parks, large and small, that are served by paved roads and/or parking areas. For Cycle 5, the decision was made to collect condition data in large parks on Functional Class 1, 2, and 7 paved routes only, as well as any new routes that were previously not collected. In small parks, all paved routes and parking areas will be collected. As a result, this will include 81 large parks with 4,459 paved route miles and 168 small parks with 529 paved route miles and associated paved parking areas.

Since 1984, the Road Inventory Program has been funded through the Federal Lands Highway Park Roads and Parkways (PRP) Program. Currently, coordination of the RIP with FLH is under the NPS Washington Headquarters Park Facility Management Division. The FLH Washington office coordinates policy and prepares national reports and needs assessment studies for Congress.

In 1998, the Transportation Equity Act for the 21st Century (TEA-21) amended Title 23 U.S.C., and inserted Section 204(a)(6) requiring the FHWA and NPS, to develop by rule, a Pavement Management System (PMS) applied to park roads and parkways serving the National Park System.

FLH is responsible for the accuracy of all data presented in this report. Any questions or comments concerning the contents of this report should be directed to the national RIP Coordinator located in Sterling, Virginia.

Respectfully,

FHWA RIP Team

FHWA/Eastern Federal Lands
21400 Ridgetop Circle
Sterling, VA 20166
(703) 404-6371

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12300 West Dakota Ave
Lakewood, CO 80228
(720) 963-3560

Section 2

Park Route Inventory



War in the Pacific National Historical Park



Federal Lands Highway
Road Inventory Program

Cycle 5 NPS/RIP Route ID Report

Road Inventory Program 03/25/2012

(Numerical By Route #)

Page 1 of 3

Shading Color Key:

White = Paved Routes, DCV Driven

Yellow = Unpaved Routes, DCV not Driven

Blue = All Paved Parking Areas

Green = All Unpaved Parking Areas

Red text denotes approx. mileage

Grey = Paved Routes, DCV not Driven

Black = State, Local or Private non-NPS Routes

■ = Concession Route Flag ON

*Unpaved route data was obtained from NPS and was not inventoried by the Road Inventory Program (RIP).

** DCV - Data Collection Vehicle NC - Not Collected

WAPA

WAR IN THE PACIFIC NATIONAL HISTORICAL PARK

Rte. No.	Cycle Collected	FMSS No.	Concess Route	Route Name	Route Description From To	Maint. District	Paved Miles	Un-Paved Miles	Total Route Length	Func. Class	Manual Rated SQ/FT	Surf. Type	Area Maps
0101	5	80928		RIZAL POINT ROAD (CLOSED TO PUBLIC)	FROM GUAM ROUTE 2 TO ROUTE 0910 (RIZAL POINT PARKING (CLOSED TO PUBLIC))	AGAT UNIT	0.04	0.06	0.10	6	2,724	AS	2
0400	5	71226		RONALD D. WILSON LANE MAINTENANCE ACCESS	FROM GUAM ROUTE 1 (MARINE CORPS DRIVE) TO ROUTE 0901B (MAINTENANCE SHOP PAVED PARKING)	ASAN INLAND UNIT	0.08	0.00	0.08	6	8,712	AS	1
0900	5	104854		HALODA PARKING	FROM GUAM ROUTE 1 (MARINE CORPS DRIVE) TO PARKING	ASAN BEACH UNIT	0.00	0.00	0.00		10,037	AS	1
0901A	3	104855		MAINTENANCE UNPAVED EMPLOYEE PARKING	FROM ROUTE 0400 (RONALD D. WILSON LANE MAINTENANCE ACCESS) TO PARKING	ASAN INLAND UNIT	0.00	0.00	0.00		2,343	GR	
0901B	5	104847		MAINTENANCE SHOP PAVED PARKING	FROM END OF ROUTE 0400 (RONALD D. WILSON LANE MAINTENANCE ACCESS) TO PARKING	ASAN INLAND UNIT	0.00	0.00	0.00		12,728	AS	1
0901C	NC	238773		MAINTENANCE SHOP UNPAVED PARKING	FROM ROUTE 0901B (MAINTENANCE SHOP PAVED PARKING) TO PARKING	ASAN INLAND UNIT	0.00	0.00	0.00		6,424	GR	
0902	5	71219		ASAN BEACH PARKING	FROM GUAM ROUTE 1 (MARINE CORPS DRIVE) TO GUAM ROUTE 1 (MARINE CORPS DRIVE)	ASAN BEACH UNIT	0.00	0.00	0.00		183,159	AS	1
0903	3	71228		FONTE PATEAU UNPAVED PARKING	ADJACENT TO GUAM ROUTE 6 (SPRUANCE DRIVE)	FONTE PATEAU UNIT	0.00	0.00	0.00		13,837	NV	
0904	5	71234		ASAN BAY OVERLOOK PARKING	FROM GUAM ROUTE 6 (SPRUANCE DRIVE) TO PARKING	ASAN INLAND UNIT	0.00	0.00	0.00		36,527	AS	1
0906A	3	104856		APACA POINT PARKING	FROM GUAM ROUTE 2 TO GUAM ROUTE 2	AGAT UNIT	0.00	0.00	0.00		8,137	GR	
0906B	5	86904		APACA POINT HANDICAPPED PARKING	ADJACENT TO ROUTE 0906A (APACA POINT PARKING)	AGAT UNIT	0.00	0.00	0.00		1,294	CO	2
0907	5	80935		GA'AN POINT PARKING	FROM GUAM ROUTE 2 TO GUAM ROUTE 2	AGAT UNIT	0.00	0.00	0.00		15,908	AS	2
0910	3	86905		RIZAL POINT PARKING (CLOSED TO PUBLIC)	FROM END OF ROUTE 0101 (RIZAL POINT ROAD (CLOSED TO PUBLIC)) TO PARKING	AGAT UNIT	0.00	0.00	0.00		4,724	GR	

Cycle 5 NPS/RIP Route ID Report

Shading Color Key:
Red text denotes approx. mileage

White = Paved Routes, DCV Driven
Grey = Paved Routes, DCV not Driven

Yellow = Unpaved Routes, DCV not Driven
Black = State, Local or Private non-NPS Routes

Blue = All Paved Parking Areas
■ = Concession Route Flag ON

Green = All Unpaved Parking Areas

*Unpaved route data was obtained from NPS and was not inventoried by the Road Inventory Program (RIP).

** DCV - Data Collection Vehicle NC - Not Collected

CYCLE 5 SUMMARY TOTALS FOR WAR IN THE PACIFIC NATIONAL HISTORICAL PARK

CYCLE 5 ROUTE TOTALS	
DCV Driven Route Miles	0.00
Manually Rated Route Miles	0.12
TOTAL PARK ROUTE MILES COLLECTED IN CYCLE 5	0.12
Manually Rated Routes (SQFT)	11,436
TOTAL UNPAVED PARK ROUTE MILES	0.06

CYCLE 5 CONCESSION TOTALS	
Concession Paved Route Miles	0.00
Concession Unpaved Route Miles	0.00
TOTAL CONCESSION ROUTE MILES	0.00
Concession Paved Parking Area SQFT	0
Concession Unpaved Parking Area SQFT	0
TOTAL CONCESSION PARKING AREA SQFT	0
Concession Manually Rated Rotes SQFT	0

* CYCLE 5 PARKING AREA TOTALS	
Paved Parking (SQFT)	259,653
Unpaved Parking (SQFT)	35,465
TOTAL PARKING (SQFT)	295,118

CYCLE 5 WEIGHTED AVERAGE PARK VALUES	
DCV Driven PCR	N/A
**Manually Rated Routes PCR	66
**Parking PCR	74
***Total Equivalent Lane Miles	4.67

* - The Parking Area Totals SQFT value represents all parking areas collected in Cycle 5, both park and concessionaire.

** - Parking and Manually Rated Routes are assigned the following PCR values based on their observed condition: Construction=-1, Excellent=97, Good=90, Fair=73, and Poor=45.

*** - Equivalent Lane Miles are calculated by route using the following equations : DCV and Manually Rated Lines Routes=(PAVE_WIDTHxPAVED_MI)/11 foot lane. Parking Areas=SQ_FEET/5280/11. Manually Rated Polygons=SQ_FEET/5280/11.

Cycle 5 NPS/RIP Route ID Report

Shading Color Key:
Red text denotes approx. mileage

White = Paved Routes, DCV Driven
Grey = Paved Routes, DCV not Driven

Yellow = Unpaved Routes, DCV not Driven
Black = State, Local or Private non-NPS Routes

Blue = All Paved Parking Areas
■ = Concession Route Flag ON

Green = All Unpaved Parking Areas

*Unpaved route data was obtained from NPS and was not inventoried by the Road Inventory Program (RIP).

** DCV - Data Collection Vehicle NC - Not Collected

General Park Road Functional Classification Table

- Class 1** Principal Park Road/Rural Parkway (Public Roads) Roads which constitute the main access route, circulatory tour, or thoroughfare for park visitors. Route Numbers 1 - 99. Note: Rural parkways (e.g. Natchez Trace) are numbered 1 - 9. State Routes Inventoried for Park. Route Numbers 5000-5999
- Class 2** Connector Park Road (Public Roads) - Roads which provide access within a park to areas of scenic, scientific, recreational or cultural interest, such as overlooks, campgrounds, etc. Route Numbers 100-199.
- Class 3** Special Purpose Park Road (Public Roads) - Roads which provide circulation within public areas, such as campgrounds, picnic areas, visitor center complexes, concessionaire facilities, etc. These roads generally serve low-speed traffic and are often designed for one-way circulation. Route Numbers 200-299.
- Class 4** Primitive Park Roads (Public Roads) - Roads which provide circulation through remote areas and/or access to primitive campgrounds and undeveloped areas. These roads frequently have no minimum design standards and their use may be limited to specially equipped vehicles. Route Numbers 200-299. Note: Functional Classes 3 and 4 have the same route numbers because, historically, they were numbered similarly.
- Class 5** Administrative Access Road (Administrative Roads) - All public roads intended for access to administrative developments or structures such as park offices, employee quarters, or utility areas. Route Numbers 400-499.
- Class 6** Restricted Road (Administrative Roads) - All roads normally closed to the public, including patrol roads, truck trails, and other similar roads. Route Numbers 400-499. Note: Functional Classes 5 and 6 have the same route numbers because historically they were numbered similarly and often there is little distinction between these routes. For example, because utility areas and employee housing are often closed to the public, this restriction would result in classification of FC 6 rather than FC 5.
- Class 7** Urban Parkway (Urban Parkways and City Streets) - These facilities serve high volumes of park and non-park related traffic and are restricted, limited-access facilities in an urban area. This category of roads primarily encompasses the major parkways which serve as gateways to our nation's capital. Other major park roads or portions thereof, however, may be included in this category. Route Numbers 1-9.
- Class 8** City Streets (Urban Parkways and City Streets) - City streets are usually extensions of the adjoining street system that are owned and maintained by the National Park Service. The construction and/or reconstruction should conform with accepted local engineering practice and local conditions. Route Numbers 600-699.

A park road system contains those roads within or giving access to a park or other unit of the NPS which are administered by the NPS, or by the Service in cooperation with other agencies. The assignment of a functional classification (FC) to a park road is not based on traffic volumes or design speed, but on the intended use or function of that road or route.

The historic route numbering system also included a 300 number series for interpretive roads, and a 500 series for one-way roads. There are approximately 250 roads nationwide which are designated by the 300 and 500 series. The numbers for these roads will be maintained for reporting consistency. However, since these interpretive and one-way routes are not as clearly tied to a specific functional class, the 300 and 500 series will be discontinued for future use.

5000 route numbers are assigned to Non-NPS Routes that are State, County or City owned which border, traverse, or provide access to Park Facilities or Assets. 5000 Routes are driven for GPS and Video Log only.

Surface Type Abbreviations:

- AS - Asphaltic Concrete Pavement**
- CO - Portland Cement Concrete Pavement**
- BR - Brick or Pavers Road Bed**
- CB - Cobble Stone Road Bed**
- GR - Gravel Road Bed**
- SA - Sand Road Bed**
- NV - Native or Dirt Material Road Bed**
- OT - Other Materials Road Bed**

ROUTE IDENTIFICATION CHANGES TO ROUTES FROM PREVIOUS CYCLE - WAPA

ROUTES MODIFIED FROM PREVIOUS INVENTORY:			
Route #	Route Name	Type of Modification	Comments
0101	RIZAL POINT ROAD (CLOSED TO PUBLIC)	FUNCTIONAL CLASS CHANGE	FUNCTIONAL CLASS (FC) CHANGED FROM FC 5 TO FC 6 BECAUSE THIS IS AN ADMINISTRATIVE, RESTRICTED ACCESS ROAD. ROUTE NAME CHANGED FROM "APACA POINT ROAD" TO "RIZAL POINT ROAD"
0400	RONALD D. WILSON LANE MAINTENANCE ACCESS	FUNCTIONAL CLASS CHANGE	FUNCTIONAL CLASS (FC) CHANGED FROM FC 5 TO FC 6 BECAUSE THIS IS AN ADMINISTRATIVE, RESTRICTED ACCESS ROAD.
0903	FONTE PLATEAU UNPAVED PARKING	SURFACE TYPE CHANGE	ROUTE 0903 HAD IT'S SURFACE TYPE CHANGED FROM ASPHALT IN CYCLE 3 TO NATIVE VEGETATION IN CYCLE 5.
0906B	APACA POINT HANDICAPPED PARKING	SQ FEET CHANGE	ROUTE AREA CHANGED FROM 1,514 SQ. FT. TO 1,294 SQ. FT. DUE TO BETTER GPS. ROUTE NAME CHANGED FROM "AGAT PICNIC AREA HANDICAPPED PARKING" TO "APACA POINT HANDICAPPED PARKING"
0907	GA'AN POINT PARKING	RECONSTRUCTED	ROUTE HAS BEEN RECONSTRUCTED SINCE CYCLE 3 DATA COLLECTION.

ROUTE IDENTIFICATION CHANGES TO ROUTES FROM PREVIOUS CYCLE - WAPA

ROUTES REMOVED FROM PREVIOUS INVENTORY:			
Route #	Route Name	Reason for Removal	Comments
0100	PITI GUN PARKING ACCESS ROAD	OTHER	ROUTE REMOVED. THIS ROUTE IS AN UNPAVED ROAD THAT WAS COLLECTED IN CYCLE 3 BUT IS NOT PARK PROPERTY; ROUTE BELONGS TO A CHURCH.
0200	MT. TENJO MT. CHACHAO ROAD	OTHER	ROUTE REMOVED. THIS ROUTE IS UNPAVED, WAS COLLECTED IN CYCLE 3, BUT IS MANAGED AS A CULTURAL FEATURE (LANDSCAPE) IN FMSS.
0201	MT. ALUTOM ROAD	OTHER	ROUTE REMOVED. THIS ROUTE IS UNPAVED, WAS NEVER COLLECTED BY RIP, AND IS MANAGED AS A CULTURAL FEATURE (LANDSCAPE) IN FMSS.
0401	MAINTENANCE EQUIPMENT LOADING ROAD	OTHER	ROUTE REMOVED. THIS UNPAVED ROUTE WAS COLLECTED IN CYCLE 3 BUT IS NOT MANAGED AS A ROAD OR PARKING AREA IN FMSS AND IS NOT MAINTAINED BY THE PARK.
0402	ASAN BEACH MONUMENT ROAD	OTHER	ROUTE REMOVED. THIS ROUTE IS NOT A ROAD OR PARKING LOCATION IN FMSS; IT IS MANAGED AS A TRAIL.
0403	ASAN BEACH COAST ROAD	OTHER	ROUTE REMOVED. THIS ROUTE IS NOT A ROAD OR PARKING LOCATION IN FMSS; IT IS MANAGED AS A TRAIL.
0404	ASAN BEACH ACCESS ROAD	OTHER	ROUTE REMOVED. THIS ROUTE IS PAVED AND MANAGED AS A TRAIL IN FMSS.
0405A	ASAN BEACH SCENIC VIEW ROAD A	OTHER	ROUTE REMOVED. THIS ROUTE IS AN UNPAVED TRAIL THAT WAS COLLECTED IN CYCLE 3.
0405B	ASAN BEACH SCENIC VIEW ROAD B	OTHER	ROUTE REMOVED. THIS ROUTE IS AN UNPAVED TRAIL THAT WAS COLLECTED IN CYCLE 3.
0905	PITI GUN TRAIL PARKING	OTHER	ROUTE REMOVED. THIS ROUTE IS AN UNPAVED PARKING AREA THAT WAS COLLECTED IN CYCLE 3 BUT IS NOT PARK PROPERTY; ROUTE BELONGS TO A CHURCH.

Section 3

Park Summary Information



War in the Pacific National Historical Park



Federal Lands Highway
Road Inventory Program

Note: This park is classified as a Small Park. No Data Collection Vehicle routes exist in this park at the time of data collection. Therefore, there is no data to report for this section.

Section 4

Park Route Location Maps

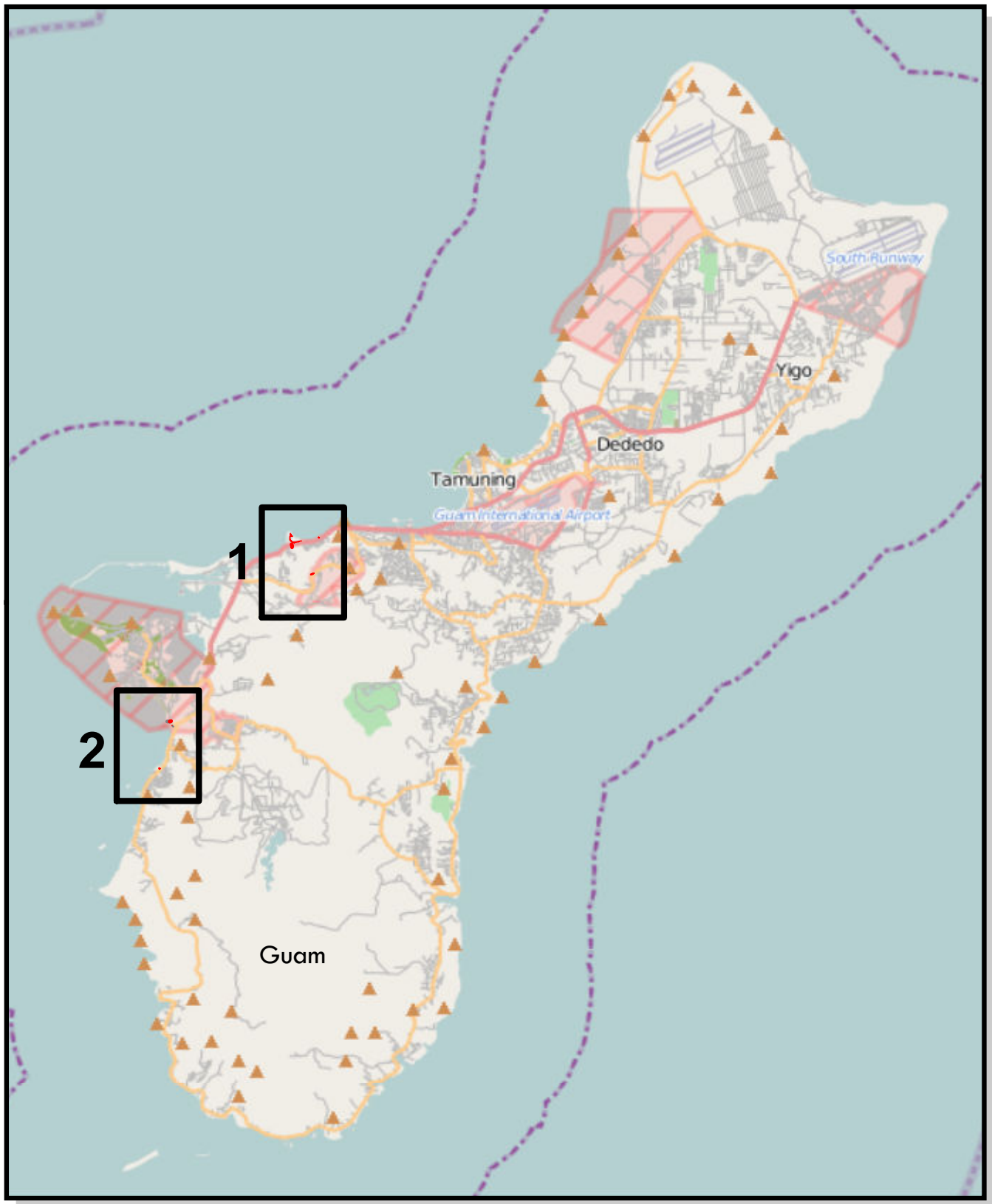




War in the Pacific National Historical Park

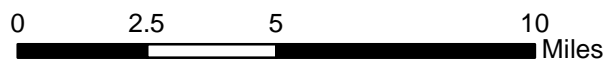


Federal Lands Highway
Road Inventory Program

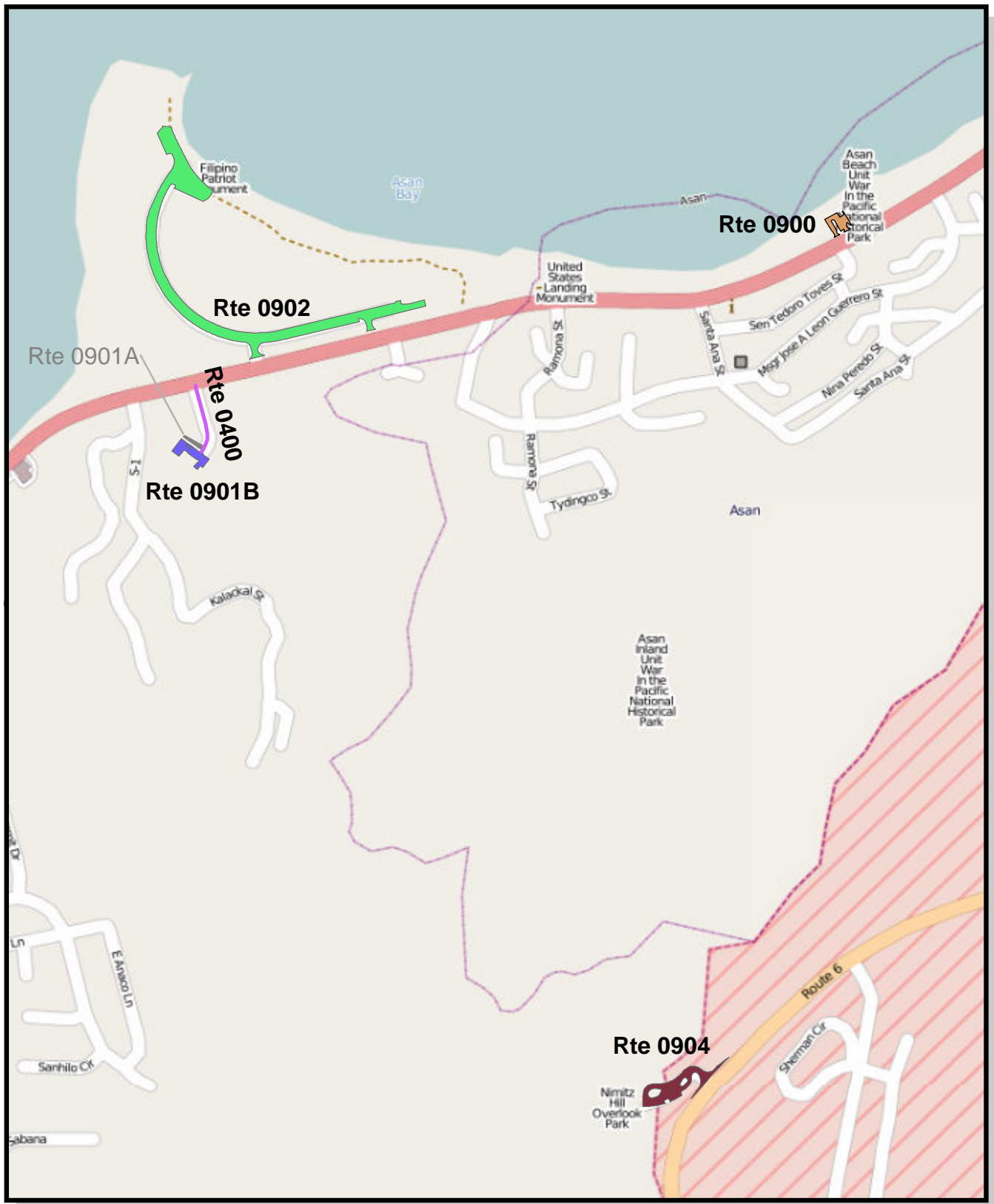
War in the Pacific National Historical Park
Route Location Map
Key Map



-  Cycle 5 Collected Routes
-  Unpaved Routes



War in the Pacific National Historical Park Route Location Map Area 1



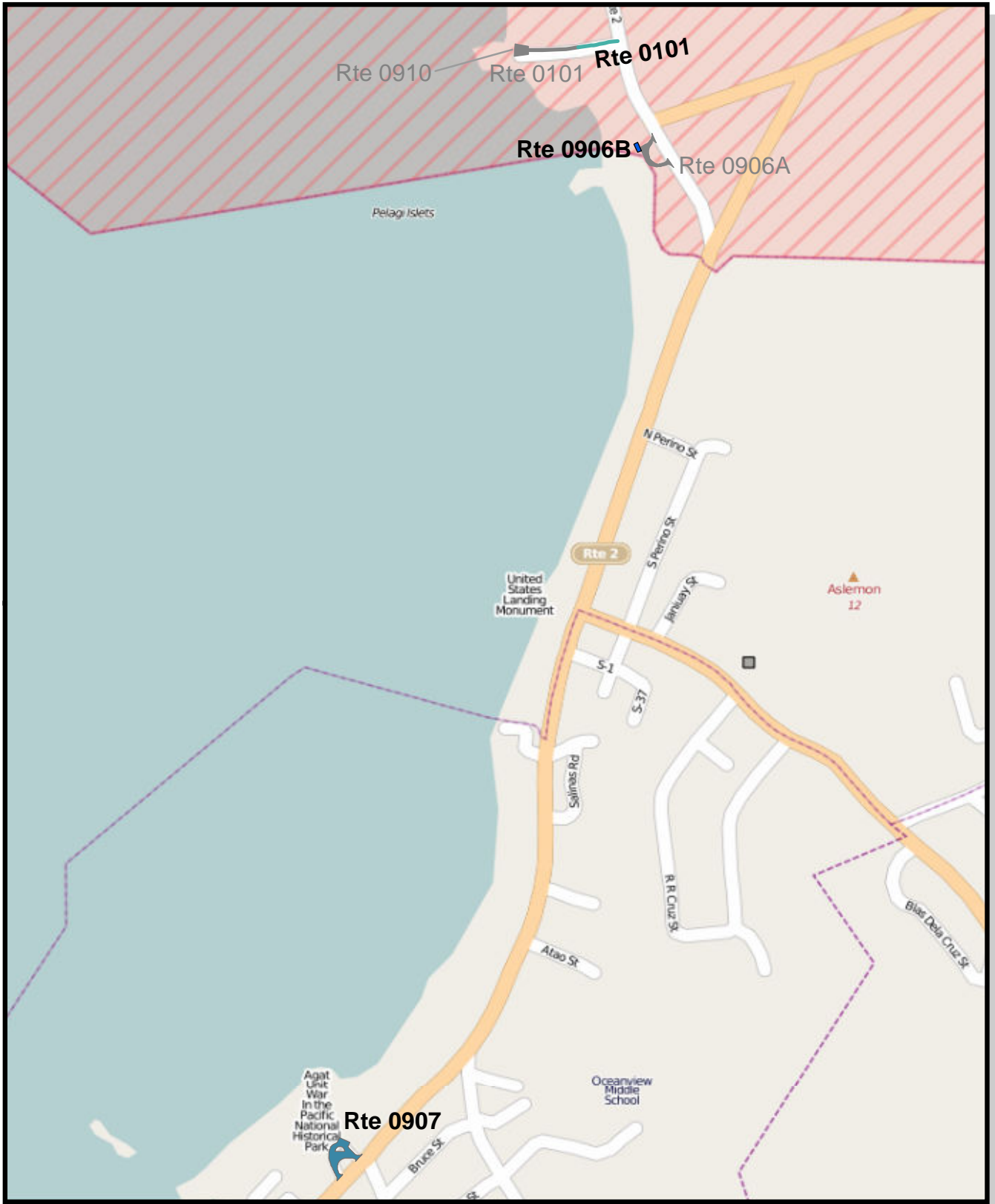
Unique colors used to differentiate routes

— Unpaved Routes

0 0.05 0.1 0.2 Miles

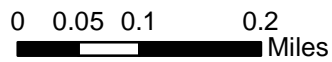


War in the Pacific National Historical Park Route Location Map Area 2



Unique colors used to differentiate routes

— Unpaved Routes



Section 5
Paved Route
Condition Rating Sheets



War in the Pacific
National Historical Park



Federal Lands Highway
Road Inventory Program

Note: This park is classified as a Small Park. No Data Collection Vehicle routes exist in this park at the time of data collection. Therefore, there is no data to report for this section.

Section 6
Manually Rated Paved Route
Condition Rating Sheets



War in the Pacific
National Historical Park



WAR IN THE PACIFIC NATIONAL HISTORICAL PARK

Route 0101

RIZAL POINT ROAD (CLOSED TO PUBLIC)

FROM GUAM ROUTE 2

TO ROUTE 0910 (RIZAL POINT PARKING (CLOSED TO PUBLIC))

Route Number	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	MRL	
					Length (mi)	Width (ft)
0101	NONPUBLIC	1/9/2012	2,724	0.05	0.04	12
Culverts	Drop Inlets	Gates	Curb & Gutter	Curb	PCR	Surface Type
0	0	1	NO CURB AND GUTTER	NO CURB	POOR/45	AS

* Lane miles are based on 11' lane widths



Rte 0101



0

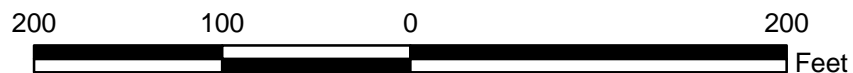
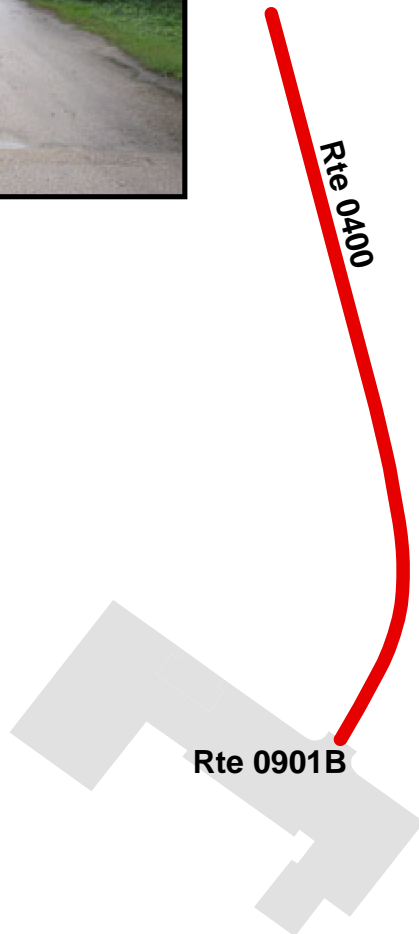
WAR IN THE PACIFIC NATIONAL HISTORICAL PARK

Route 0400

RONALD D. WILSON LANE MAINTENANCE ACCESS
 FROM GUAM ROUTE 1 (MARINE CORPS DRIVE)
 TO ROUTE 0901B (MAINTENANCE SHOP PAVED PARKING)

Route Number	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	MRL	
					Length (mi)	Width (ft)
0400	NONPUBLIC	1/9/2012	8,712	0.15	0.08	22
Culverts	Drop Inlets	Gates	Curb & Gutter	Curb	PCR	Surface Type
0	0	1	NO CURB AND GUTTER	NO CURB	FAIR/73	AS

* Lane miles are based on 11' lane widths



0

Section 7
Parking Area
Condition Rating Sheets



War in the Pacific
National Historical Park



Federal Lands Highway
Road Inventory Program

WAR IN THE PACIFIC NATIONAL HISTORICAL PARK

Route 0900

HALODA PARKING
 FROM GUAM ROUTE 1 (MARINE CORPS DRIVE)
 TO PARKING

Route Number	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type
0900	PUBLIC	1/9/2012	10,037	0.17	AS
Culverts	Drop Inlets	Gates	Curb & Gutter	Curb	PCR
0	0	0	NO CURB AND GUTTER	NO CURB	FAIR/73

* Lane miles are based on 11' lane widths



WAR IN THE PACIFIC NATIONAL HISTORICAL PARK

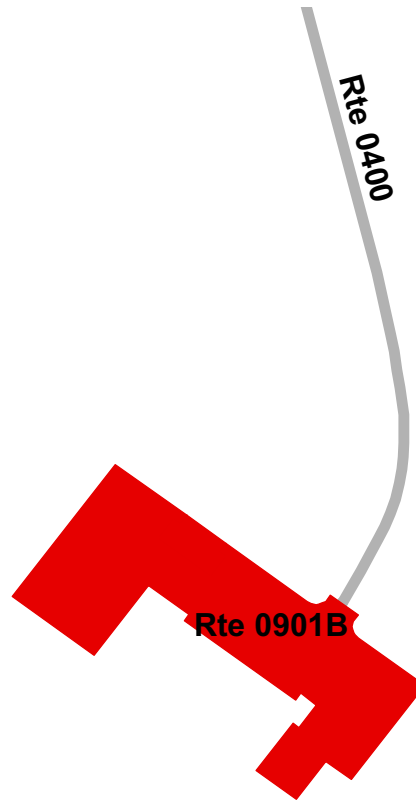
Route 0901B

MAINTENANCE SHOP PAVED PARKING

FROM END OF ROUTE 0400 (RONALD D. WILSON LANE MAINTENANCE ACCESS)
TO PARKING

Route Number	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type
0901B	NONPUBLIC	1/9/2012	12,728	0.22	AS
Culverts	Drop Inlets	Gates	Curb & Gutter	Curb	PCR
0	0	1	NO CURB AND GUTTER	NO CURB	FAIR/73

* Lane miles are based on 11' lane widths



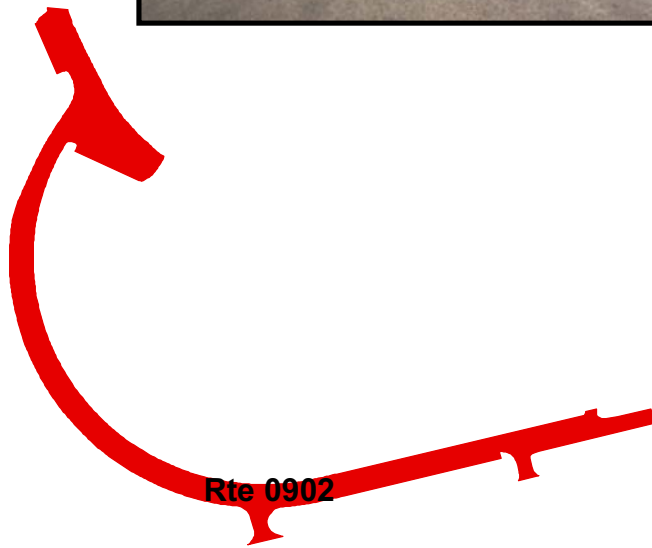
WAR IN THE PACIFIC NATIONAL HISTORICAL PARK

Route 0902

ASAN BEACH PARKING
 FROM GUAM ROUTE 1 (MARINE CORPS DRIVE)
 TO GUAM ROUTE 1 (MARINE CORPS DRIVE)

Route Number	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type
0902	PUBLIC	1/9/2012	183,159	3.15	AS
Culverts	Drop Inlets	Gates	Curb & Gutter	Curb	PCR
0	3	4	CONCRETE CURB AND GUTTER	CONCRETE CURB	FAIR/73

* Lane miles are based on 11' lane widths



WAR IN THE PACIFIC NATIONAL HISTORICAL PARK

Route 0904

ASAN BAY OVERLOOK PARKING
 FROM GUAM ROUTE 6 (SPRUANCE DRIVE)
 TO PARKING

Route Number	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type
0904	PUBLIC	1/9/2012	36,527	0.63	AS
Culverts	Drop Inlets	Gates	Curb & Gutter	Curb	PCR
0	0	1	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

* Lane miles are based on 11' lane widths



WAR IN THE PACIFIC NATIONAL HISTORICAL PARK

Route 0906B

APACA POINT HANDICAPPED PARKING
 ADJACENT TO ROUTE 0906A (APACA POINT PARKING)

Route Number	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type
0906B	PUBLIC	1/9/2012	1,294	0.02	CO
Culverts	Drop Inlets	Gates	Curb & Gutter	Curb	PCR
0	0	0	NO CURB AND GUTTER	NO CURB	FAIR/73

* Lane miles are based on 11' lane widths



WAR IN THE PACIFIC NATIONAL HISTORICAL PARK

Route 0907

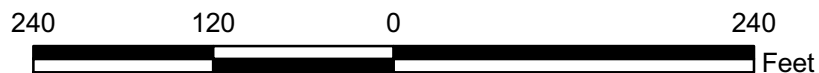
GA'AN POINT PARKING

FROM GUAM ROUTE 2

TO GUAM ROUTE 2

Route Number	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type
0907	PUBLIC	1/9/2012	15,908	0.27	AS
Culverts	Drop Inlets	Gates	Curb & Gutter	Curb	PCR
0	0	0	NO CURB AND GUTTER	NO CURB	POOR/45

* Lane miles are based on 11' lane widths



Section 8
Parkwide/Route
Maintenance Features Summaries



War in the Pacific
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Federal Lands Highway
Road Inventory Program

WAPA: PARKWIDE MAINTENANCE FEATURES SUMMARY

Notice: Only culverts, drop inlets, and gates were collected in parking areas.

FEATURE	LINEAR FEET	COUNT
BRIDGE	--	0
CATTLE GUARD	--	0
CULVERT	--	0
CURB	0	--
DROP INLET	--	3
GATE	--	8
GUARD/GUIDE RAIL	0	--
CABLE	0	--
NON-CABLE	0	--
GUARD/GUIDE WALL	0	--
BOLLARD	0	--
TEMPORARY BARRIER	0	--
NON TEMP/BOLLARD	0	--
INTERSECTION	--	7
LOW WATER CROSSING	0	0
MILE MARKER	--	0
OVERPASS	--	0
PARK BOUNDARY	--	0
PAVED DITCH	0	--
PULLOUT	0	0
RAILROAD CROSSING	--	0
RETAINING WALL	0	0
SIGN	--	2
STATE BOUNDARY	--	0
TRAFFIC LIGHT	--	0
TUNNEL	0	0

WAPA: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0101 RIZAL POINT ROAD (CLOSED TO PUBLIC)	ROUTE 0400 RONALD D. WILSON LANE MAINTENANCE ACCESS	UNIT
BRIDGE	0	0	EACH
CATTLE GUARD	0	0	EACH
CULVERT	0	0	EACH
CURB	0	0	LINEAR FEET
DROP INLET	0	0	EACH
GATE	1	1	EACH
GUARD/GUIDE RAIL	0	0	LINEAR FEET
CABLE	0	0	LINEAR FEET
NON-CABLE	0	0	LINEAR FEET
GUARD/GUIDE WALL	0	0	LINEAR FEET
BOLLARD	0	0	LINEAR FEET
TEMPORARY BARRIER	0	0	LINEAR FEET
NON TEMP/BOLLARD	0	0	LINEAR FEET
INTERSECTION	3	4	EACH
LOW WATER CROSSING	0	0	EACH
LOW WATER CROSSING	0	0	LINEAR FEET
MILE MARKER	0	0	EACH
OVERPASS	0	0	EACH
PARK BOUNDARY	0	0	EACH
PAVED DITCH	0	0	LINEAR FEET
PULLOUT	0	0	EACH
PULLOUT	0	0	LINEAR FEET
RAILROAD CROSSING	0	0	EACH
RETAINING WALL	0	0	EACH
RETAINING WALL	0	0	LINEAR FEET
SIGN	0	2	EACH
STATE BOUNDARY	0	0	EACH
TRAFFIC LIGHT	0	0	EACH
TUNNEL	0	0	EACH
TUNNEL	0	0	LINEAR FEET

WAPA: STRUCTURE LIST

No data available for this section.

Section 9
Route Maintenance Features
Road Logs



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WAPA: ROUTE MAINTENANCE FEATURES ROAD LOG
ROUTE 0101: RIZAL POINT ROAD (CLOSED TO PUBLIC)

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM GUAM ROUTE 2
0.000	0.000	INTERSECTION	LEFT	PAVED ROUTE (GUAM ROUTE 2 (NON/NPS))
0.000	0.000	INTERSECTION	RIGHT	PAVED ROUTE (GUAM ROUTE 2 (NON/NPS))
0.003	0.003	GATE	N/A	GATE
0.043	0.043	INTERSECTION	N/A	ROUTE 0101 (RIZAL POINT ROAD (CLOSED TO PUBLIC)) UNPAVED SECTION
0.043	0.043	ROUTE END	N/A	TO ROUTE 0101 (RIZAL POINT ROAD (CLOSED TO PUBLIC)) UNPAVED SECTION

WAPA: ROUTE MAINTENANCE FEATURES ROAD LOG
ROUTE 0400: RONALD D. WILSON LANE MAINTENANCE ACCESS

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM GUAM ROUTE 1
0.000	0.000	INTERSECTION	LEFT	PAVED ROUTE (GUAM ROUTE 1 (MARINE CORPS DRIVE))
0.000	0.000	INTERSECTION	RIGHT	PAVED ROUTE (GUAM ROUTE 1 (MARINE CORPS DRIVE))
0.003	0.003	SIGN	RIGHT	GUIDE, RONALD D. WILSON LN.
0.003	0.003	SIGN	RIGHT	GUIDE, MAINT. SHOP
0.009	0.009	GATE	N/A	GATE
0.068	0.068	INTERSECTION	RIGHT	ROUTE 0901A (MAINTENANCE UNPAVED EMPLOYEE PARKING)
0.075	0.075	INTERSECTION	N/A	ROUTE 0901B (MAINTENANCE SHOP PAVED PARKING)
0.075	0.075	ROUTE END	N/A	TO ROUTE 0901B (MAINTENANCE SHOP PAVED PARKING)

Section 10 Appendix



War in the Pacific National Historical Park



Federal Lands Highway
Road Inventory Program

GLOSSARY OF TERMS AND ABBREVIATIONS

<u>TERM OR ABBREVIATION</u>	<u>DESCRIPTION OR DEFINITION</u>
Excellent	Excellent rating with an index value of 97
Fair	Fair rating with an index value of 73
Func. Class	Functional Classification (see Route ID, Section 2)
Good	Good rating with an index value of 90
MRR	Manually Rated Route
MRL	Manually Rated Line
MRP	Manually Rated Polygon
N/A	Not Applicable
NC	Not Collected
PKG	Parking Area
Poor	Poor rating with an index value of 45

GPS on Manually Rated Roads (MRR)

Parking areas, some roads, and other paved areas that are not fully drivable with the RIP Data Collection Vehicle are collected manually by field technicians. GPS is collected for these routes using portable Trimble GPS backpack units.

Geodatabase – Background and Metadata

In addition to this park report, a *geodatabase* containing both tabular and spatial data specific to this park has been provided. All data disseminated in the preceding report has been obtained from the tables and fields within said geodatabase. The geodatabase can be referenced for tabular data via Microsoft Access or for both tabular and spatial data via ESRI's ArcGIS Suite of software which consists of; ArcMap, ArcCatalog and ArcExplorer. Consolidating the RIP data into one database creates a seamless relationship of tables and geographic data. It will allow RIP to facilitate easier updates and enhancements in the future.

A geodatabase can be thought of as simply a database containing spatial data. Many different tables are contained with the park's geodatabase. A complete and thorough description of the tables and fields contained within this geodatabase can be found in the *metadata*. The metadata is attached directly within the geodatabase and can be accessed via ESRI's ArcCatalog.