national park service

The Road Inventory
of
Big Cypress National Preserve
BICY – 5120
Cycle 4

Prepared By:
Federal Highway Administration
Road Inventory Program
Cycle 4

Big Cypress National Preserve
in
Florida

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Big Cypress National Preserve

Section 1
Introduction

INTRODUCTION

Background: In 1976, the National Park Service (NPS) and the Federal Highway Administration (FHWA) entered into a Memorandum of Agreement (MOA), establishing the Road Inventory Program (RIP). In 1980, the NPS and the FHWA terminated the 1976 MOA and entered into a new MOA that provided for the completion of the initial phase of the RIP. The purpose of the RIP, per the 1980 MOA was to maintain and update RIP data in order to develop long-range costs and programs to bring National Park Service (NPS) roads up to, or to maintain, designated standards, and establish a maintenance management program.

The FHWA's Federal Lands Highway (FLH) was assigned the task of identifying condition deficiencies and corrective priorities along with associated corrective costs, inventorying maintenance features (e.g., culverts, signs, guardrail, etc.), summarizing the data and findings in a report and providing a photographic record of the road system.

The FLH completed the initial phase of the RIP in the early 1980's. As a result of this effort, each park received a RIP book, also known as the "Brown Book," that included the information collected during this initial RIP phase.

In an effort to maintain and update the RIP data, a cyclical data collection and reporting process was reestablished in the 1990's. The FLH completed two cycles of RIP data collection between 1994 and 2001. Cycle 1 was collected in 44 large parks from 1994 to 1996. This data was found to be unusable for comparison to future cycles. Cycle 2 data was collected from March 1997 to January 2001 in 79 large parks and 5 small parks containing 4,874 route miles. Each park received a copy of a Cycle 2 RIP Report, also known as the "Blue Book". Cycle 3 was completed from 2001 through 2004, and included data collection in all parks that contain pavement.

Since 1984, the RIP Program has been funded through the Federal Lands Highway Program's Park Roads and Parkways (PRP) Program. Currently, the NPS Washington Headquarters' Park Facility Management Division is responsible for coordinating the RIP program with the FLH. 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) which requires the Federal Highway Administration and the National Park Service, to develop, by rule, a Pavement Management System (PMS) for the park roads and parkways serving the National Park System. As a result of the requirements in TEA-21, the NPS and FHWA are in the process of developing a PMS. The PMS will assist the decision-makers in effectively spending limited PRP Program funds. The PMS

will provide information for planning and programming road maintenance, rehabilitation, and reconstruction activities. RIP data will provide the basic information for this system.

Key information included in the RIP is the mileage inventory and condition assessments accomplished by the RIP Program. The mileage and condition data are used in the current allocation formula of PRP Program funds.

RIP Cycle 4: Cycle 4 data collection was initiated in spring 2006, where 86 large parks, consisting of 5,553 route miles and 6,232 paved parking areas, were selected as a representative sample of the entire NPS paved road network. Cycle 4 is scheduled for completion in spring 2009 and will serve the PMS in further development of its pavement preservation techniques.

In the Cycle 4 Reports, a general condition rating of excellent, good, fair and poor is ascribed to each one-mile section of paved roadway, and to each paved parking area. This condition rating system provides a realistic means of assessing the general funding needs for road improvements. Along with these descriptive condition ratings, a numerical rating between 0 and 100 is ascribed to each mile of road and to each parking area. This numerical rating is called a Pavement Condition Rating (PCR). The PCR rating system is described in Section 10 of this report.

All of the fieldwork required for obtaining inventory, condition, and maintenance feature information is coordinated with each park and the regional offices to ensure that the information in the RIP reports is accurate.

The FLH is responsible for all the data presented in this report. Anyone having questions or comments regarding the contents of this report is encouraged to contact the FHWA RIP Coordinator. It is our aim to provide exceptional customer satisfaction in our delivery of the RIP program.

The FHWA RIP Team

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Big Cypress National Preserve

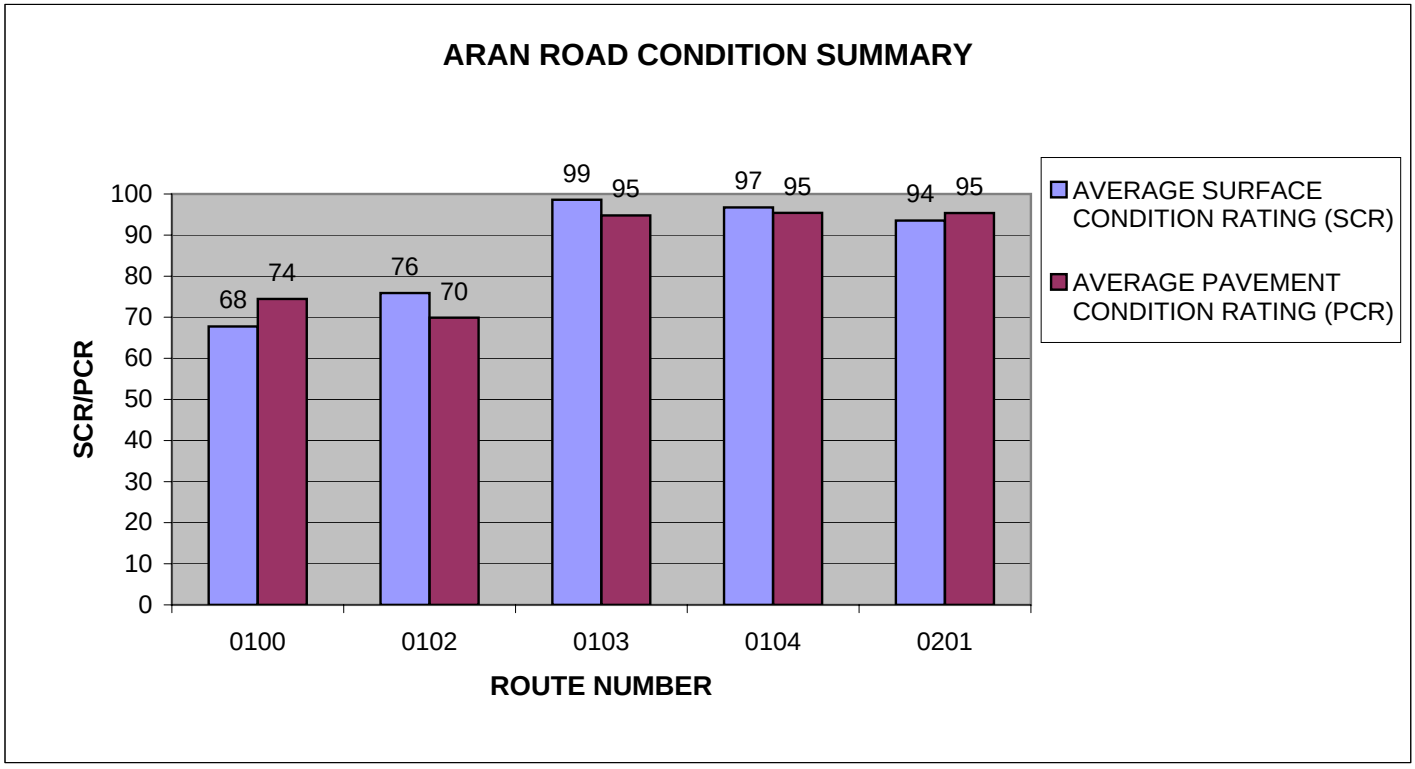
Section 2
Park Summary Information

BICY: PAVED ROUTE MILES AND PERCENTAGES BY FUNCTIONAL CLASS AND PCR

F.C.	Pavement Condition Rating (PCR)								TOTAL MILES
	Poor (<=60)		Fair (61-84)		Good (85-94)		Excellent (95-100)		
	MILES	%	MILES	%	MILES	%	MILES	%	
1									
2	1.69	18.29%	2.50	27.06%	1.42	15.37%	0.96	10.39%	**6.57**
3			0.29	3.14%	0.64	6.93%	0.77	8.33%	**1.70**
4									
5			0.32	3.46%	0.26	2.81%	0.39	4.22%	**0.97**
6									
7									
8									
Totals	**1.69**	**18.29%**	**3.11**	**33.66%**	**2.32**	**25.11%**	**2.12**	**22.94%**	**9.24**

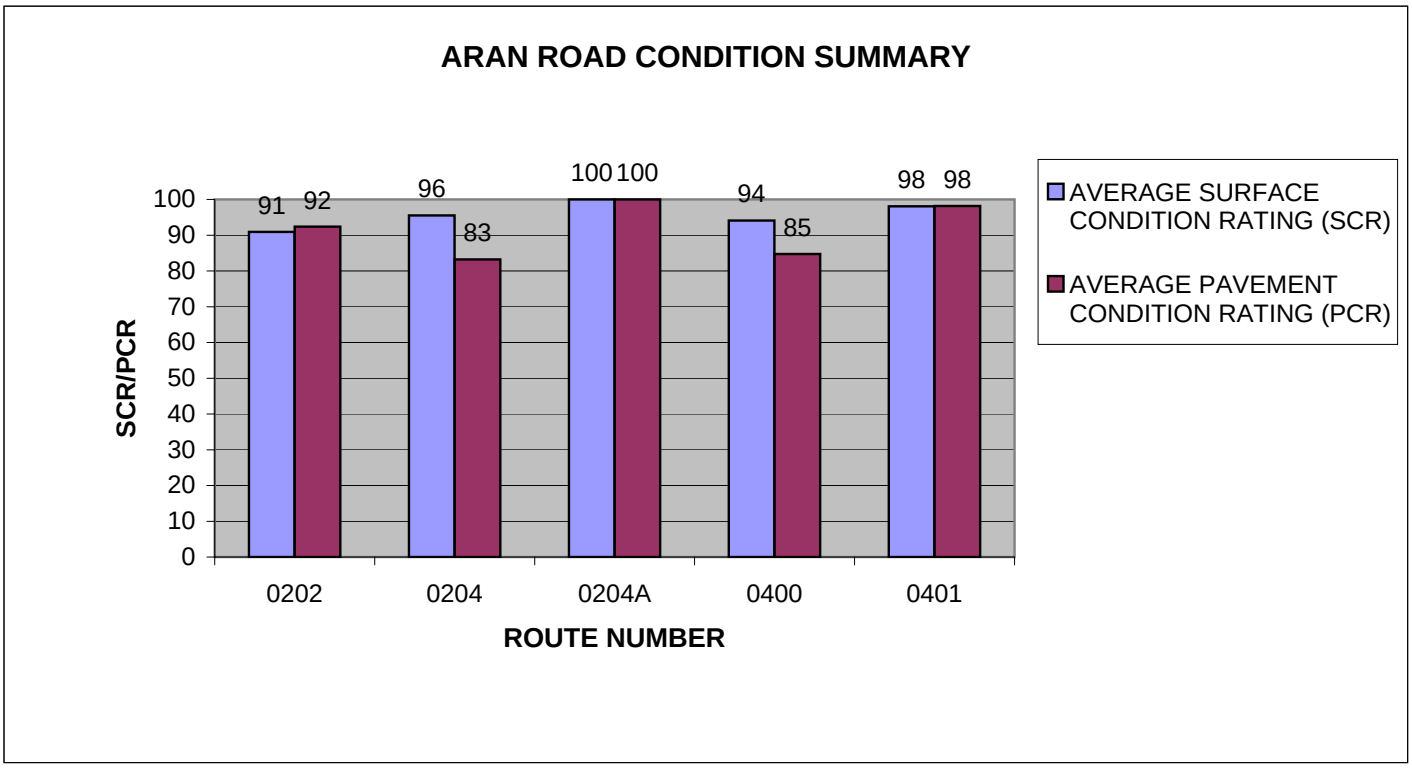
BICY: ARAN ROAD CONDITION SUMMARY

ROUTE NUMBER	ROUTE NAME	FUNCT CLASS	ROUTE LENGTH	SURFACE TYPE	AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0100	DONA DRIVE	2	0.72	ASPHALT	68	74
0102	LOOP ROAD	2	5.21	ASPHALT	76	70
0103	MIDWAY CAMPGROUND ROAD	2	0.10	ASPHALT	99	95
0104	SEAGRAPE DRIVE	2	0.59	ASPHALT	97	95
0201	SOUTH REST AREA ACCESS ROAD	3	0.60	ASPHALT	94	95



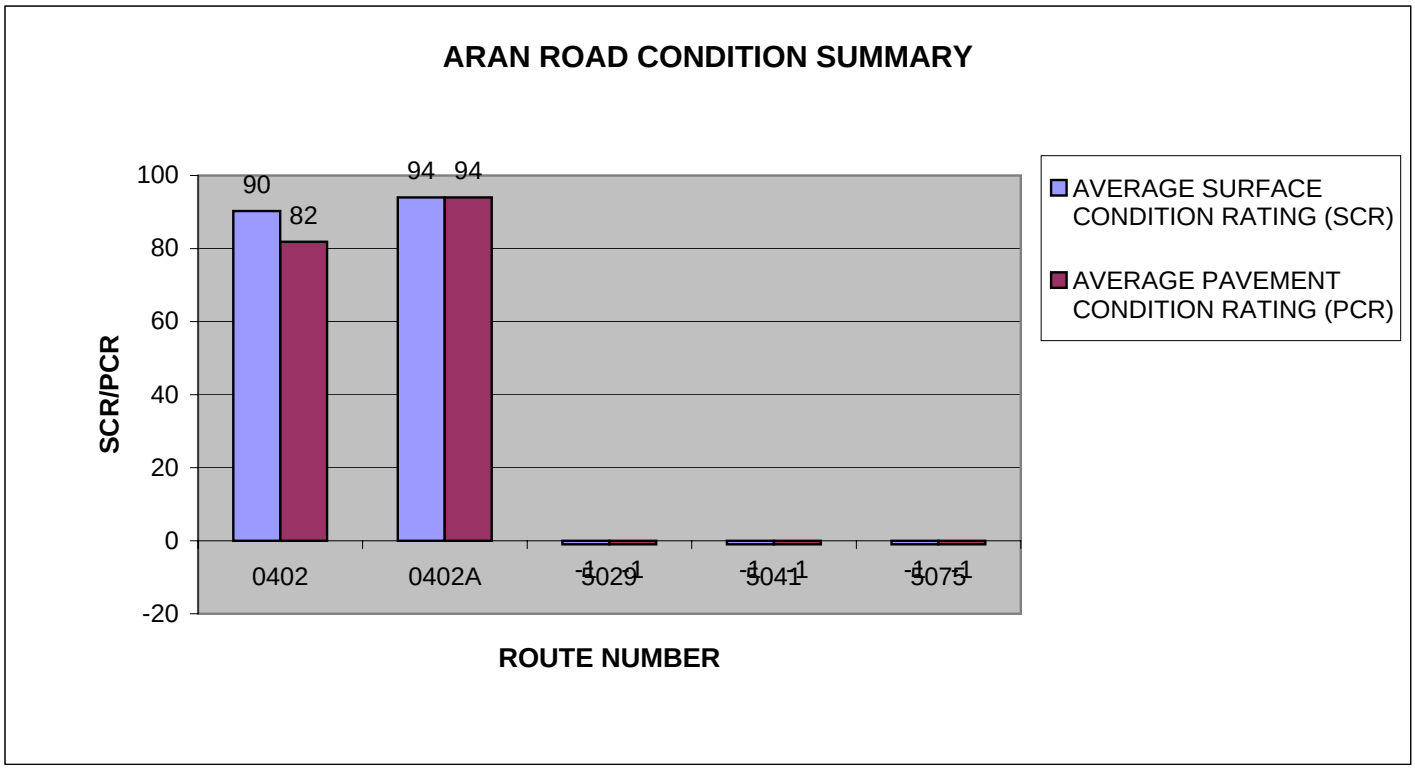
BICY: ARAN ROAD CONDITION SUMMARY

ROUTE NUMBER	ROUTE NAME	FUNCT CLASS	ROUTE LENGTH	SURFACE TYPE	AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0202	NORTH REST AREA ACCESS ROAD	3	0.72	ASPHALT	91	92
0204	MIDWAY CAMPGROUND LOOP	3	0.35	ASPHALT	96	83
0204A	MIDWAY CAMPGROUND LOOP SPUR	3	0.03	ASPHALT	100	100
0400	SATINWOOD DRIVE	5	0.55	ASPHALT	94	85
0401	MAHOGANY DRIVE	5	0.23	ASPHALT	98	98



BICY: ARAN ROAD CONDITION SUMMARY

ROUTE NUMBER	ROUTE NAME	FUNCT CLASS	ROUTE LENGTH	SURFACE TYPE	AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0402	OCHOPEE MAINTENANCE FACILITY ROAD	5	0.14	ASPHALT	90	82
0402A	OCHOPEE MAINTENANCE FACILITY ROAD SPUR	5	0.05	ASPHALT	94	94
5029	STATE HIGHWAY 29	1	24.55	ASPHALT	-1	-1
5041	HIGHWAY 41 (TAMIAMI TRAIL)	1	36.32	ASPHALT	-1	-1
5075	I-75	1	28.97	ASPHALT	-1	-1

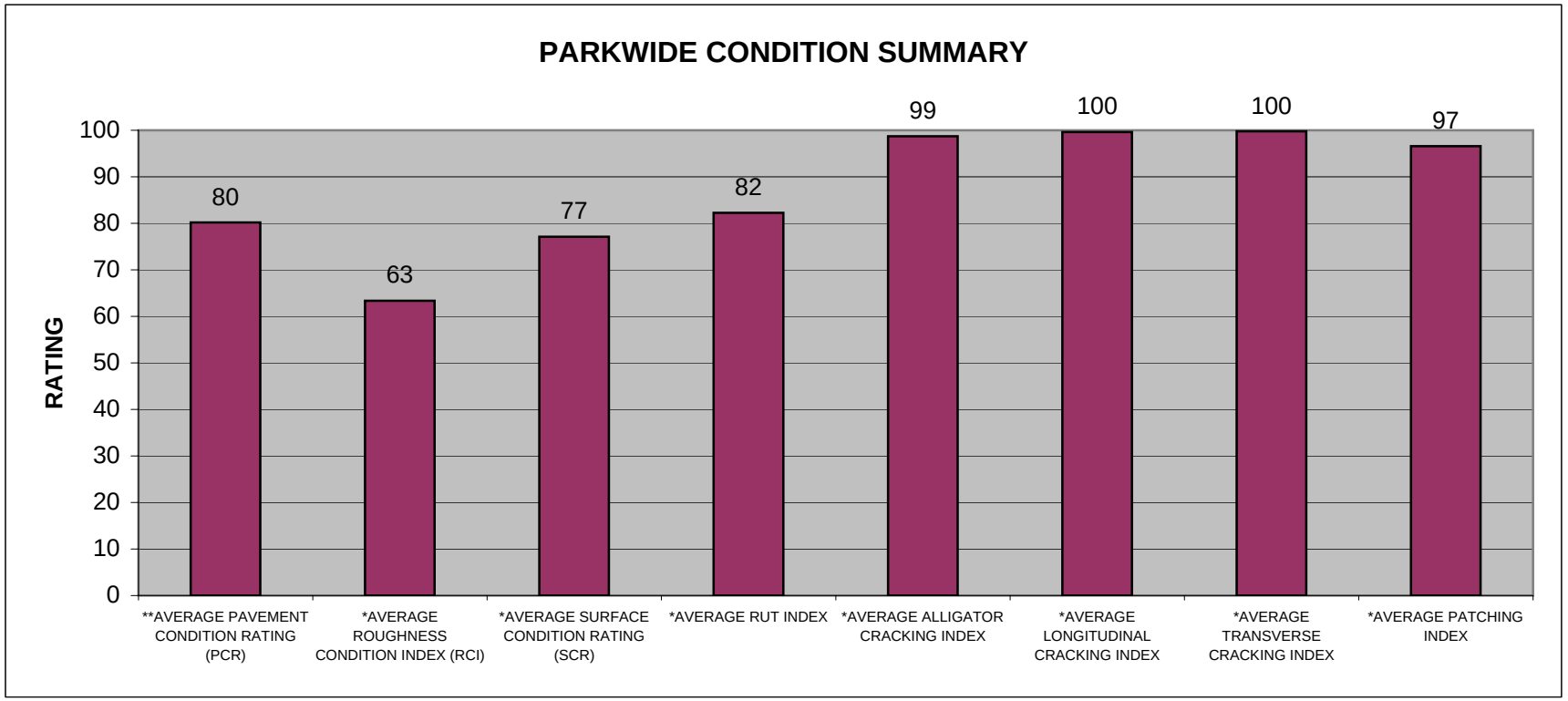


BICY: PARKWIDE CONDITION SUMMARY

**AVERAGE PAVEMENT CONDITION RATING (PCR)	*AVERAGE ROUGHNESS CONDITION INDEX (RCI)	*AVERAGE SURFACE CONDITION RATING (SCR)	*AVERAGE RUT INDEX	*AVERAGE ALLIGATOR CRACKING INDEX	*AVERAGE LONGITUDINAL CRACKING INDEX	*AVERAGE TRANSVERSE CRACKING INDEX	*AVERAGE PATCHING INDEX
80	63	77	82	99	100	100	97

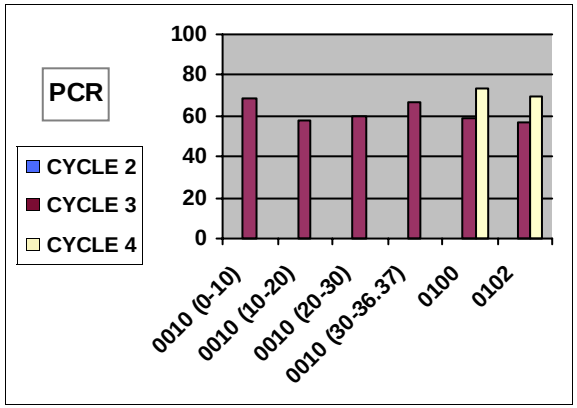
*** PCR Index is based on all ARAN-driven roads, parking areas, and manually rated routes.*

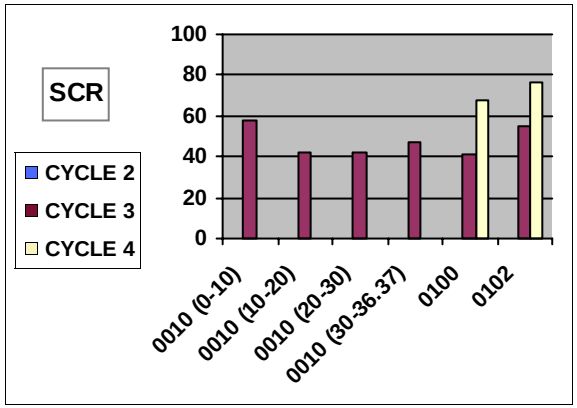
** Index values are based on ARAN-driven roads only.*

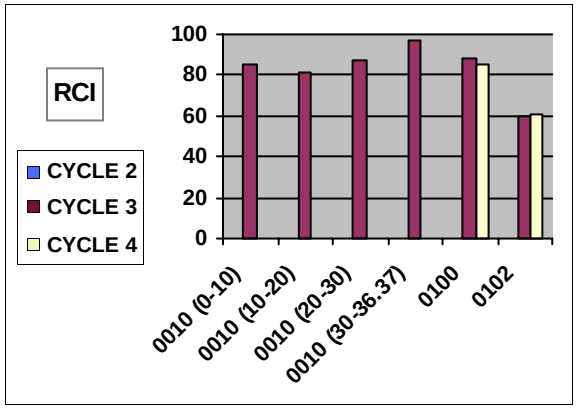


BICY : CYCLE 2 vs CYCLE 3 vs CYCLE 4 CONDITION COMPARISONS

ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	PAVEMENT CONDTION RATING (PCR)				SURFACE CONDITION RATING (SCR)				ROUGHNESS CONDITION INDEX (RCI)				COMMENT
				CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	
0010	10.00	0.00	10.00	N/A	69	N/A	N/A	N/A	58	N/A	N/A	N/A	85	N/A	N/A	Converted to Route 5041 in Cycle 4.
0010	10.00	10.00	20.00	N/A	58	N/A	N/A	N/A	42	N/A	N/A	N/A	81	N/A	N/A	Converted to Route 5041 in Cycle 4.
0010	10.00	20.00	30.00	N/A	60	N/A	N/A	N/A	42	N/A	N/A	N/A	87	N/A	N/A	Converted to Route 5041 in Cycle 4.
0010	6.37	30.00	36.37	N/A	67	N/A	N/A	N/A	47	N/A	N/A	N/A	97	N/A	N/A	Converted to Route 5041 in Cycle 4.
0100	0.67	0.00	0.67	N/A	59	74	+25%	N/A	41	68	+66%	N/A	88	85	-3%	
0102	5.21	0.00	5.21	N/A	57	70	+23%	N/A	55	76	+38%	N/A	60	61	+2%	

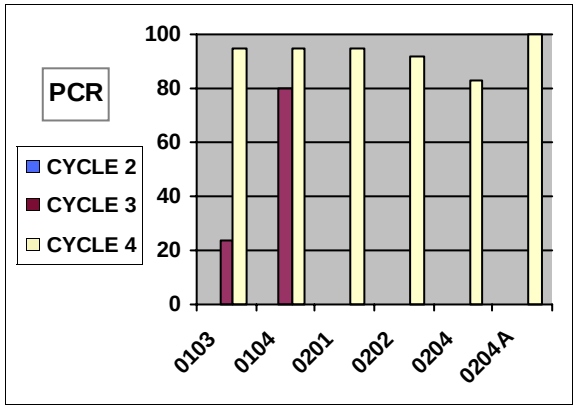


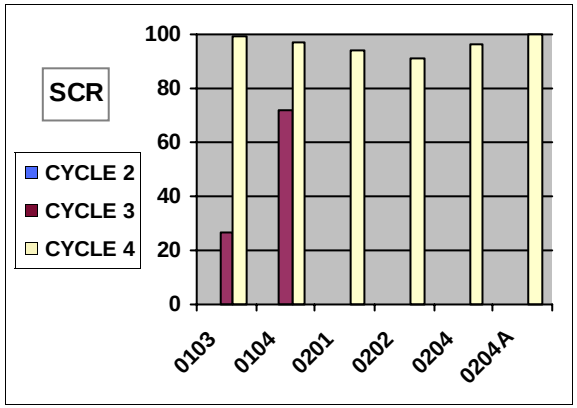


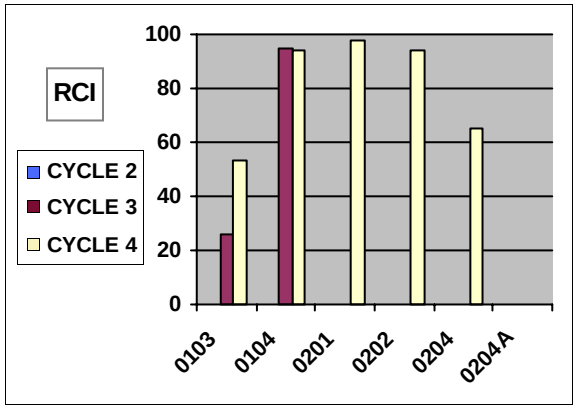


BICY : CYCLE 2 vs CYCLE 3 vs CYCLE 4 CONDITION COMPARISONS

ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	PAVEMENT CONDTION RATING (PCR) CYCLE 2	PCR CYCLE 3	PCR CYCLE 4	PCR PERCENT CHANGE	SURFACE CONDITION RATING (SCR) CYCLE 2	SCR CYCLE 3	SCR CYCLE 4	SCR PERCENT CHANGE	ROUGHNESS CONDITION INDEX (RCI) CYCLE 2	RCI CYCLE 3	RCI CYCLE 4	RCI PERCENT CHANGE	COMMENT
0103	0.10	0.00	0.10	N/A	24	95	+296%	N/A	27	99	+267%	N/A	26	53	+104%	
0104	0.60	0.00	0.60	N/A	80	95	+19%	N/A	72	97	+35%	N/A	95	94	-1%	
0201	0.60	0.00	0.60	N/A	N/A	95	N/A	N/A	N/A	94	N/A	N/A	N/A	98	N/A	Route added in Cycle 4.
0202	0.72	0.00	0.72	N/A	N/A	92	N/A	N/A	N/A	91	N/A	N/A	N/A	94	N/A	Route added in Cycle 4.
0204	0.35	0.00	0.35	N/A	N/A	83	N/A	N/A	N/A	96	N/A	N/A	N/A	65	N/A	Route added in Cycle 4.
0204A	0.03	0.00	0.03	N/A	N/A	100	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	Route added in Cycle 4. No RCI collected.



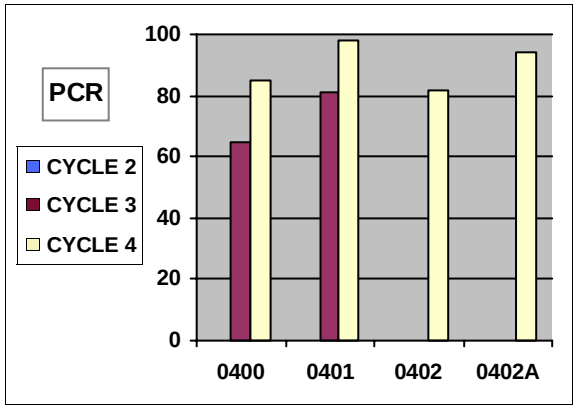


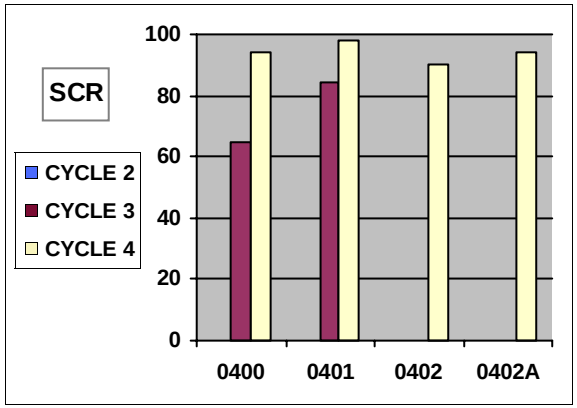


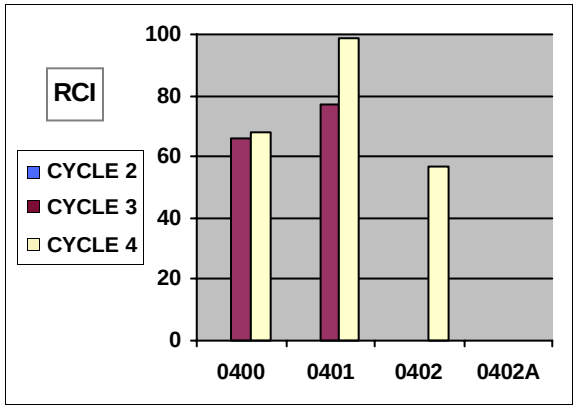
Cycle 4 Data Collected 4/16/2007 - 4/18/2007

BICY : CYCLE 2 vs CYCLE 3 vs CYCLE 4 CONDITION COMPARISONS

ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	PAVEMENT CONDTION RATING (PCR)				SURFACE CONDITION RATING (SCR)				ROUGHNESS CONDITION INDEX (RCI)				COMMENT
				CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	
0400	0.55	0.00	0.55	N/A	65	85	+31%	N/A	65	94	+45%	N/A	66	68	+3%	
0401	0.23	0.00	0.23	N/A	81	98	+21%	N/A	84	98	+17%	N/A	77	99	+29%	
0402	0.14	0.00	0.14	N/A	N/A	82	N/A	N/A	N/A	90	N/A	N/A	N/A	57	N/A	Route added in Cycle 4.
0402A	0.05	0.00	0.05	N/A	N/A	94	N/A	N/A	N/A	94	N/A	N/A	N/A	N/A	N/A	Route added in Cycle 4. No RCI collected.





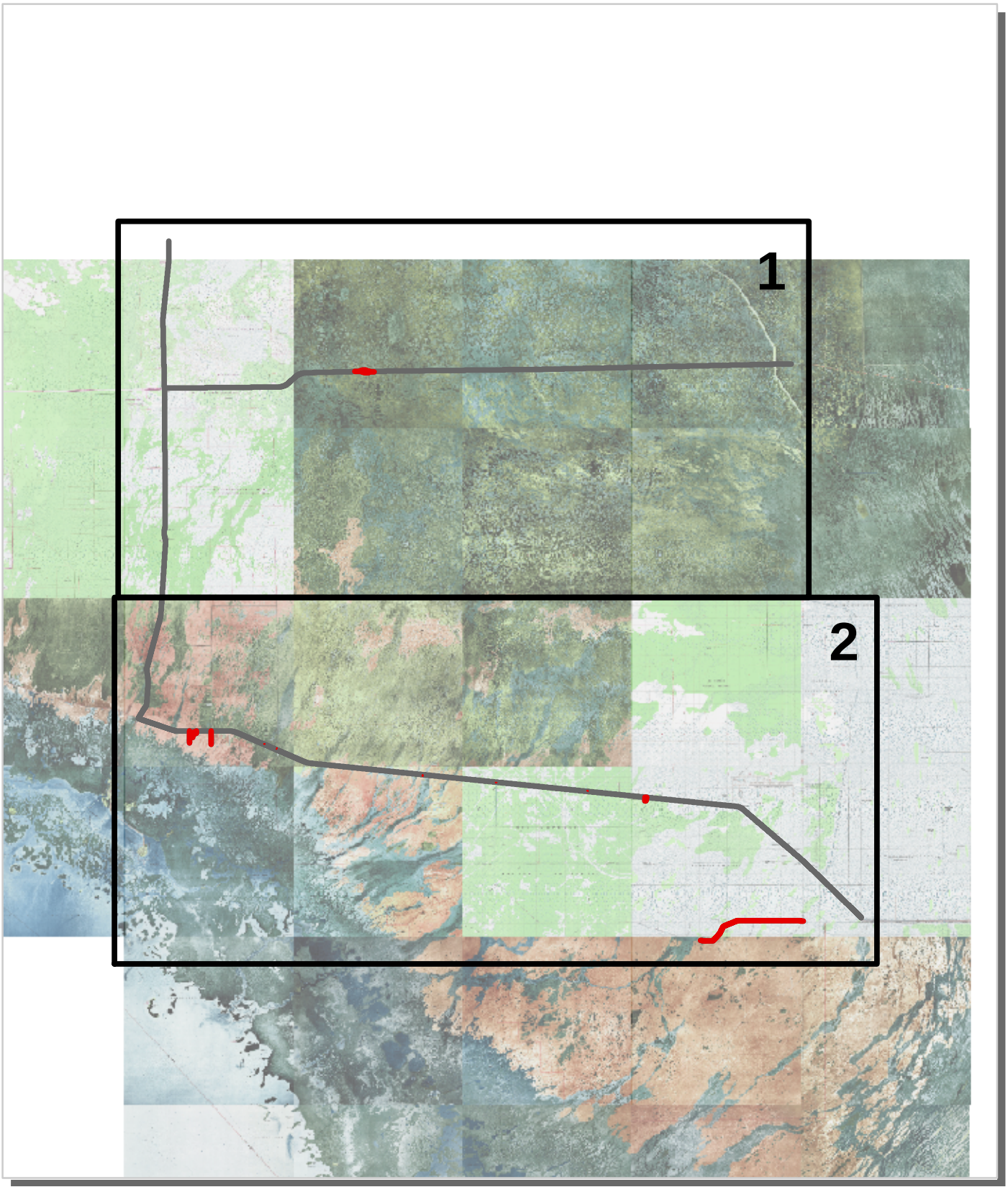


Cycle 4 Data Collected 4/16/2007 - 4/18/2007

Big Cypress National Preserve

Section 3
Park Route Location / Condition Maps

Big Cypress National Preserve
Route Location Map
Key Map



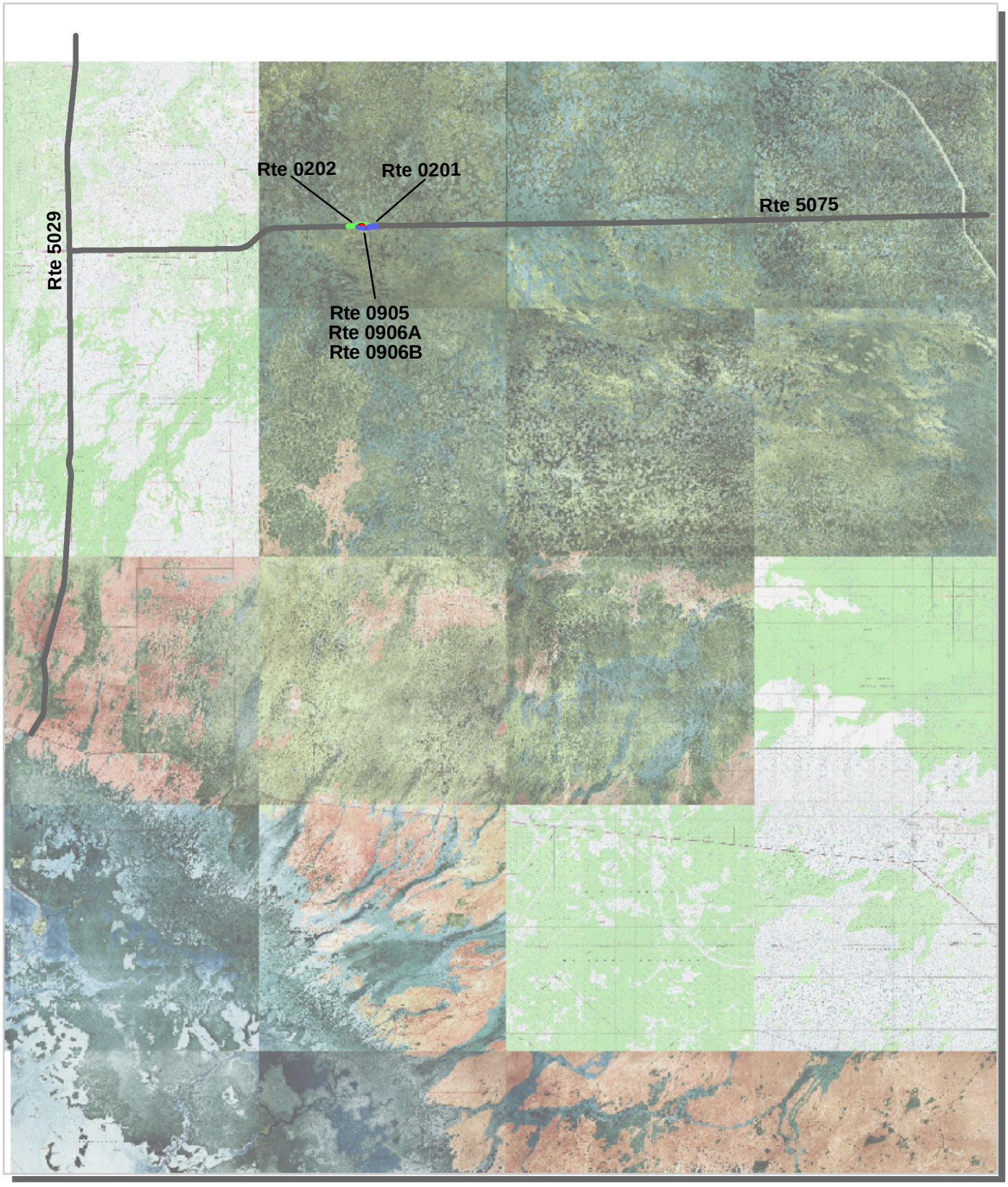
Park Owned Routes

0

6 3 0 6

Miles

Big Cypress National Preserve
Route Location Map
Area 1



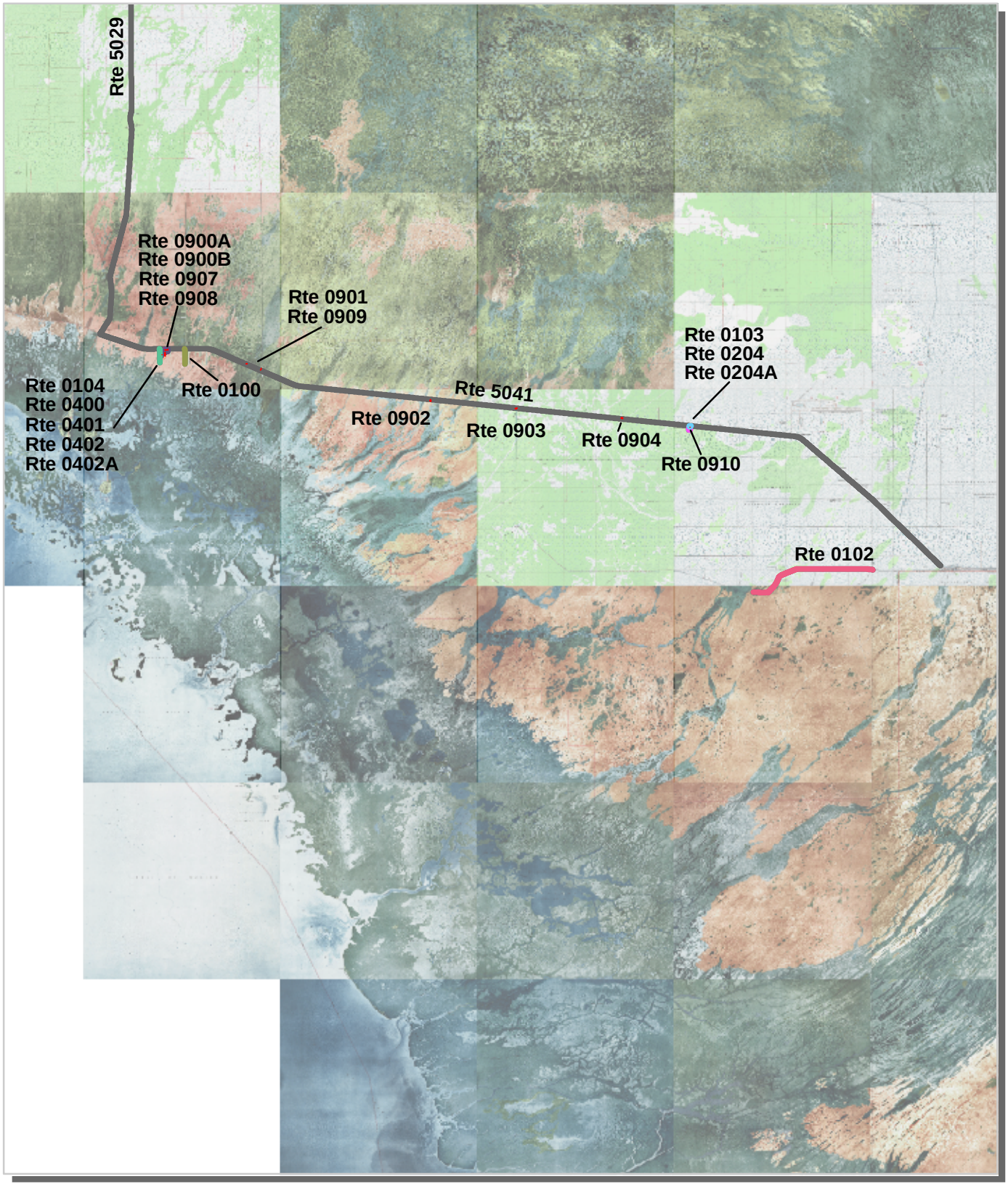
Unique colors used to differentiate routes

0

4 2 0 4

Miles

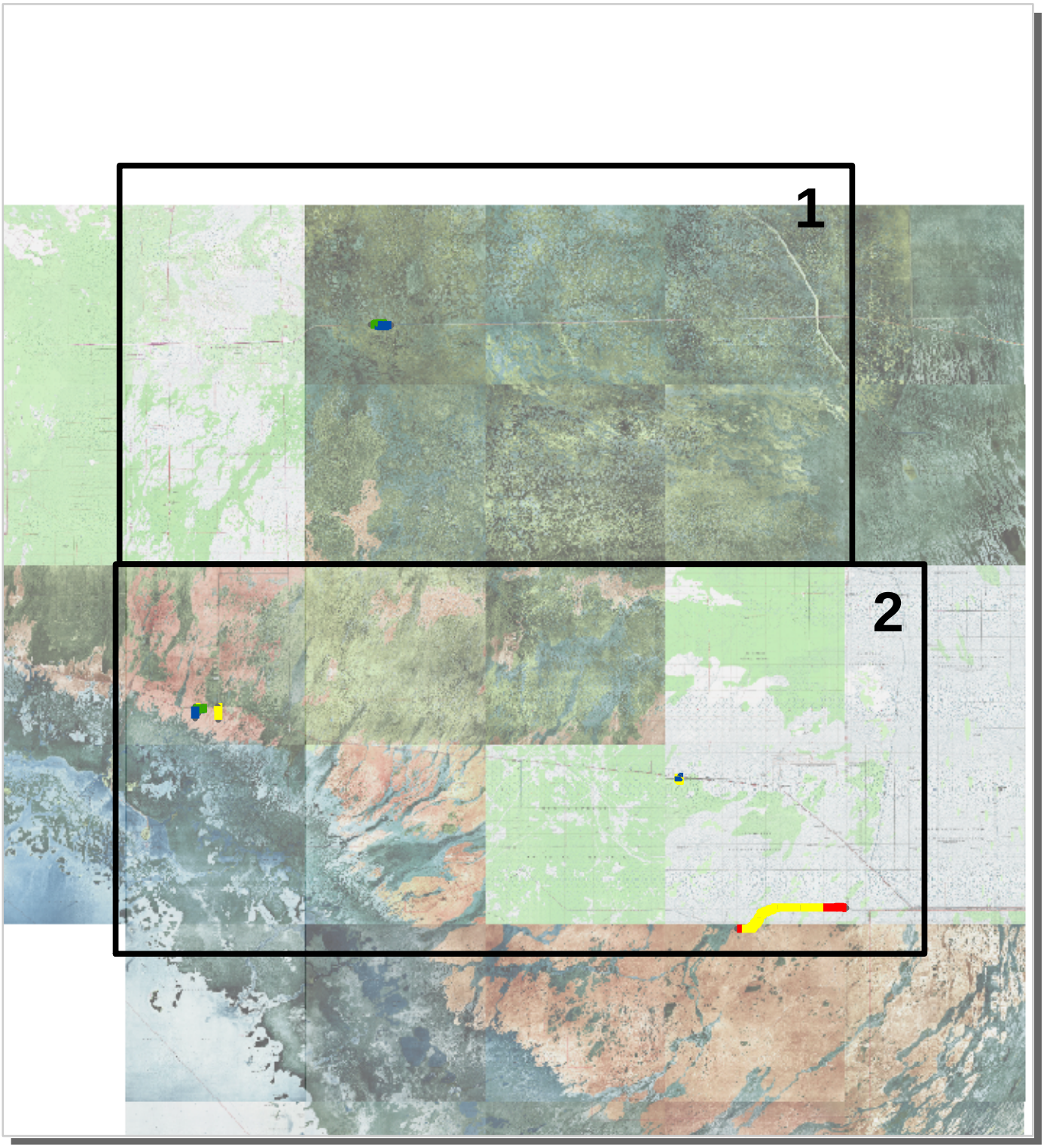
Big Cypress National Preserve
Route Location Map
Area 2



Unique colors used to differentiate routes

4 2 0 4
Miles

Big Cypress National Preserve
Route Condition Map
PCR - Mile by Mile
Key Map

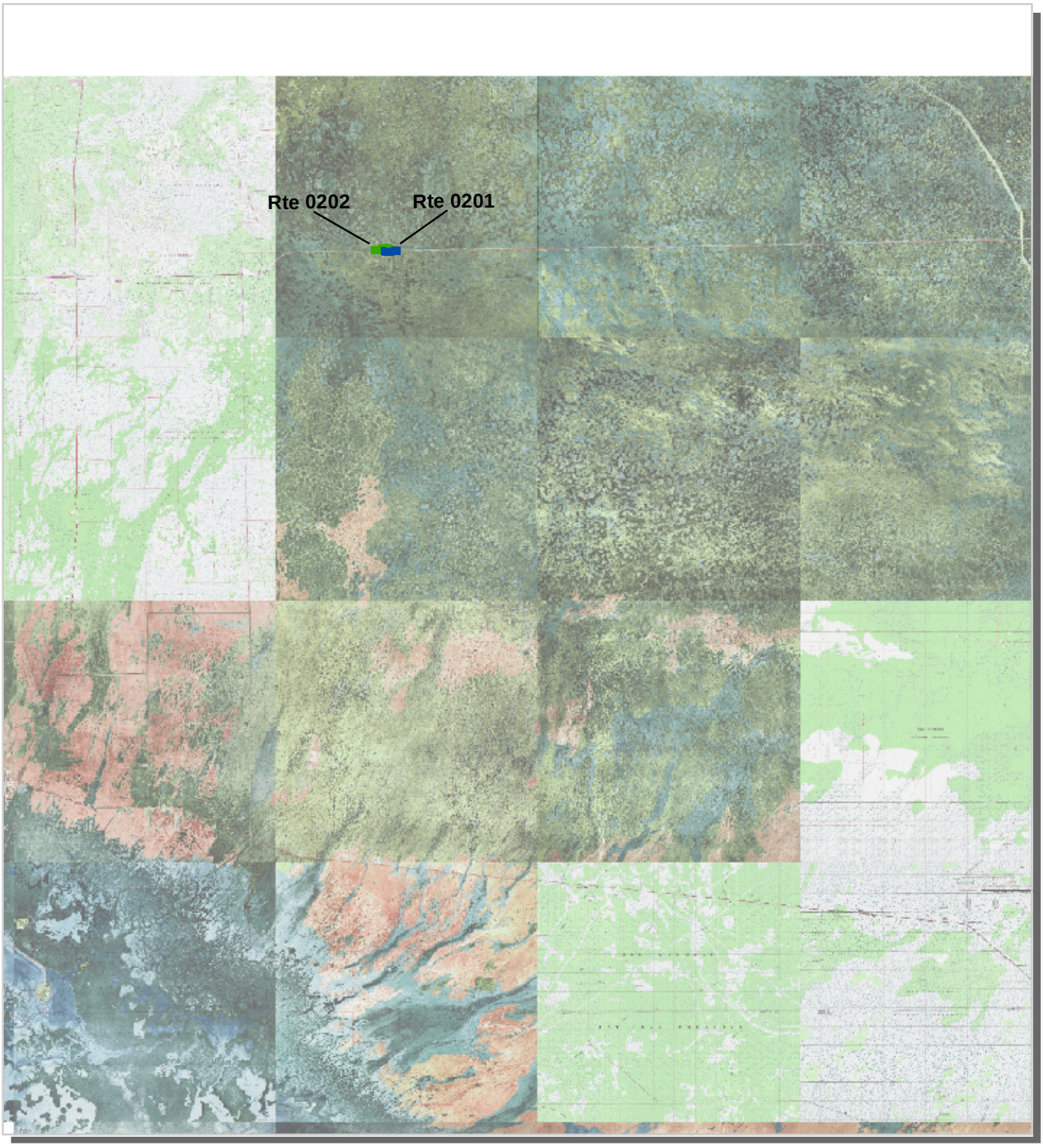


PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

6 3 0 6 Miles

Big Cypress National Preserve
Route Condition Map
PCR - Mile by Mile
Area Map 1

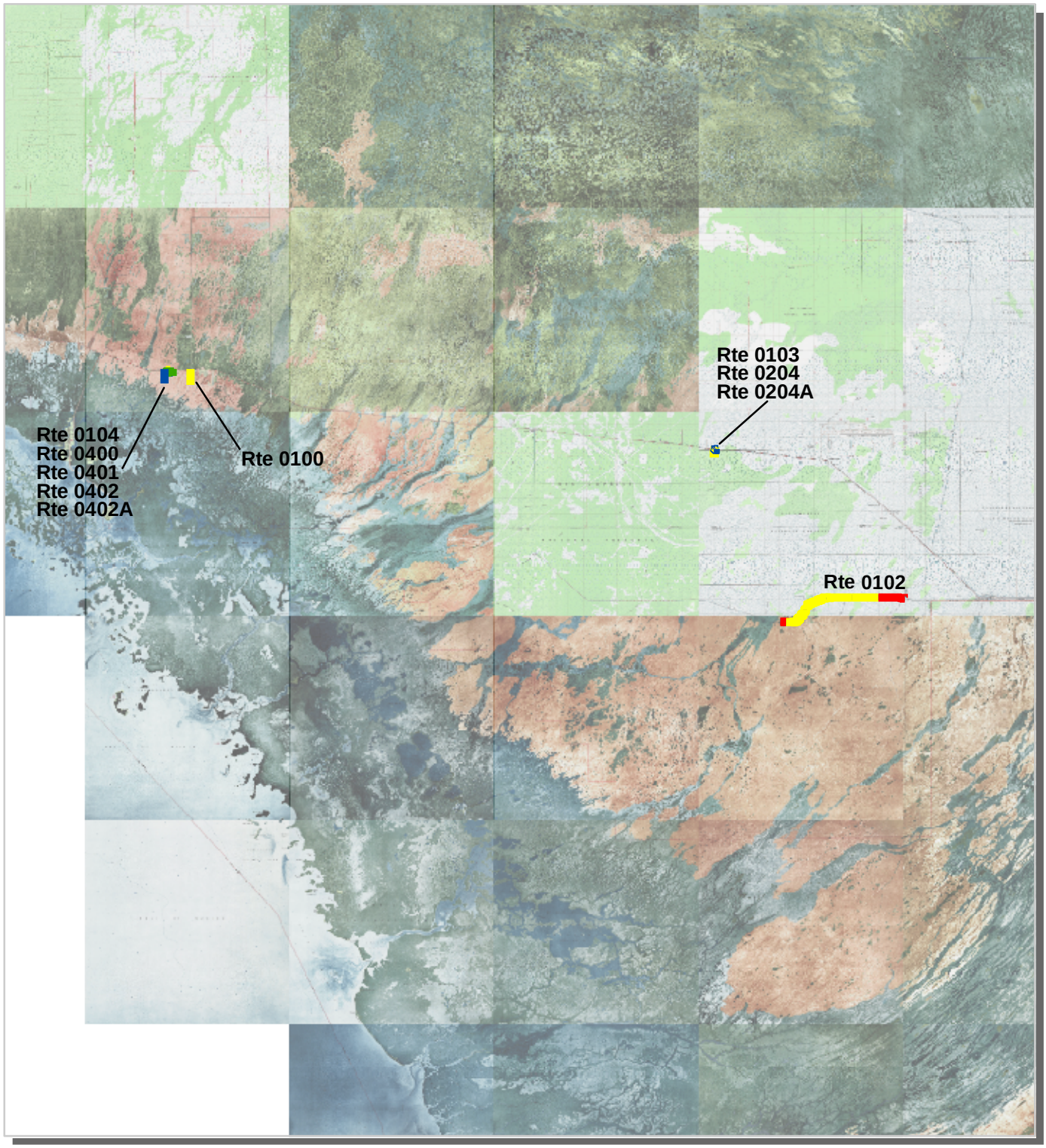


PCR	Poor	Fair	Good	Excellent
	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

4 2 0 4
Miles

Big Cypress National Preserve
Route Condition Map
PCR - Mile by Mile
Area Map 2



PCR | Poor (<=60) | Fair (61 - 84) | Good (85 - 94) | Excellent (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

4 2 0 4 Miles

Big Cypress National Preserve

Section 4
Park Route Inventory

NPS/RIP Route ID Report

Shading Color Key:
Red text denotes approx. mileage

White = Paved Routes, ARAN Driven | Yellow = Unpaved Routes, ARAN not Driven | Blue = All Paved Parking Areas | Green = All Unpaved Parking Areas

Grey = Paved Routes, ARAN not Driven | Black = Paved State, Local or Private non-NPS Routes, ARAN Driven | = Concession Route Flag ON

** Unpaved Routes displayed on report were obtained from FMSS database and not inventoried by Road Inventory Program (RIP)

BICY

BIG CYPRESS NATIONAL PRESERVE

Rte. No.	FMSS No.	Concess Route	Route Name	Route Description From	Route Description To	Maint. District	Paved Miles	Un-Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0100	00002684		DONA DRIVE	FROM ROUTE 5041	TO END OF PAVEMENT	SOUTH DISTRICT	0.670	0.050	0.720	2		0	AS	2
0101	00002907		MONUMENT LAKE DRIVE	FROM ROUTE 5041	TO END OF PAVEMENT THEN ROAD CONTINUES AS UNPAVED TO END OF LOOP	SOUTH DISTRICT	0.080	1.000	1.080	2		0	GR	
0102	00002910		LOOP ROAD	FROM PARK BOUNDARY	TO END OF LOOP AT ROUTE 5041	SOUTH DISTRICT	5.210	0.000	5.210	2		0	AS	2
0103	16736		MIDWAY CAMPGROUND ROAD	FROM ROUTE 5041	TO ROUTE 5041	SOUTH DISTRICT	0.100	0.000	0.100	2		0	AS	2
0104	00002909		SEAGRAPE DRIVE	FROM ROUTE 5041	TO END OF LOOP	SOUTH DISTRICT	0.590	0.000	0.590	2		0	AS	2
0105	00002918		MOUNT OCHOPEE ROAD	FROM ROUTE 0400 (SATINWOOD DRIVE) AT MP 0.11 (ON LEFT)	TO END	SOUTH DISTRICT	0.000	1.500	1.500	2		0	GR	
0106	00002921		PINE OAKS ROAD	FROM COUNTY ROUTE 0841	TO END	SOUTH DISTRICT	0.000	1.000	1.000	2		0	GR	
0107	12422		BURNS LAKE ROAD	FROM ROUTE 5041	THROUGH CAMPGROUND	SOUTH DISTRICT	0.000	2.400	2.400	2		0	GR	
0200	00002904		BASS LAKE ROAD	FROM ROUTE 5041	TO END	SOUTH DISTRICT	0.000	2.000	2.000	4		0	GR	
0201	93017		SOUTH REST AREA ACCESS ROAD	FROM ROUTE 5075 (I-75)	TO ROUTE 5075 (I-75)	NORTH DISTRICT	0.600	0.000	0.600	3		0	AS	1
0202	93016		NORTH REST AREA ACCESS ROAD	FROM ROUTE 5075 (I-75)	TO ROUTE 5075 (I-75)	NORTH DISTRICT	0.720	0.000	0.720	3		0	AS	1
0204	109097		MIDWAY CAMPGROUND LOOP	FROM ROUTE 0103 (MIDWAY CAMPGROUND ROAD) AT MP 0.04 (ON LEFT)	TO ROUTE 0103 (MIDWAY CAMPGROUND ROAD) AT MP 0.06 (ON LEFT)	SOUTH DISTRICT	0.350	0.000	0.350	3		0	AS	2
0204A			MIDWAY CAMPGROUND LOOP SPUR	FROM ROUTE 0204 (MIDWAY CAMPGROUND LOOP) AT MP 0.03 (ON LEFT)	TO ROUTE 0204 (MIDWAY CAMPGROUND LOOP) AT MP 0.32 (ON LEFT)	SOUTH DISTRICT	0.030	0.000	0.030	3		0	AS	2
0400	00002911		SATINWOOD DRIVE	FROM ROUTE 5041	TO END	SOUTH DISTRICT	0.550	0.000	0.550	5		0	AS	2
0401	00002908		MAHOGANY DRIVE	FROM ROUTE 0400 (SATINWOOD DRIVE) AT MP 0.3 (ON LEFT)	TO END	SOUTH DISTRICT	0.230	0.000	0.230	5		0	AS	2
0402	00002919		OCHOPEE MAINTENANCE FACILITY ROAD	FROM ROUTE 0900A	TO ROUTE 0907	SOUTH DISTRICT	0.140	0.000	0.140	5		0	AS	2
0402A			OCHOPEE MAINTENANCE FACILITY ROAD SPUR	FROM ROUTE 0400 (SATINWOOD DRIVE) AT MP 0.17 (ON LEFT)	TO ROUTE 0402 (OCHOPEE MAINTENANCE FACILITY ROAD) AT MP 0.12 (ON LEFT)	SOUTH DISTRICT	0.050	0.000	0.050	5		0	AS	2

NPS/RIP Route ID Report

Shading Color Key:
Red text denotes approx. mileage

White = Paved Routes, ARAN Driven
Yellow = Unpaved Routes, ARAN not Driven
Blue = All Paved Parking Areas
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Grey = Paved Routes, ARAN not Driven
Black = Paved State, Local or Private non-NPS Routes, ARAN Driven
= Concession Route Flag ON

** Unpaved Routes displayed on report were obtained from FMSS database and not inventoried by Road Inventory Program (RIP)

BICY

BIG CYPRESS NATIONAL PRESERVE

Rte. No.	FMSS No.	Concess Route	Route Name	Route Description From	Route Description To	Maint. District	Paved Miles	Un-Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0404	00002922		LOOP ROAD STATION ROAD (GOLIGHTLY)	FROM ROUTE 0102	TO END	SOUTH DISTRICT	0.000	0.750	0.750	2		0	GR	
0405	00002920		OASIS ROAD	FROM ROUTE 5041	TO END	SOUTH DISTRICT	0.000	2.000	2.000	5		0	GR	
0406	00002916		JIM DILL ROAD	FROM ROUTE 0102	TO END	SOUTH DISTRICT	0.000	3.000	3.000	5		0	GR	
0900A	16738		WEST HEADQUARTERS PARKING A	FROM ROUTE 0402 (OCHOPEE MAINTENANCE FACILITY ROAD) AT MP 0 (SIDE N/A)	TO ROUTE 0402 (OCHOPEE MAINTENANCE FACILITY ROAD) AT MP 0.03 (ON LEFT)	SOUTH DISTRICT	0.000	0.000	0.000			28,163	AS	2
0900B	16739		EAST HEADQUARTERS PARKING B	FROM ROUTE 0400 (SATINWOOD DRIVE) AT MP 0.03 (ON RIGHT)	TO ROUTE 0400 (SATINWOOD DRIVE) AT MP 0.05 (ON RIGHT)	SOUTH DISTRICT	0.000	0.000	0.000			22,874	AS	2
0901	16740		HP WILLIAMS WAYSIDE	FROM TURNER RIVER ROAD	TO TURNER RIVER ROAD	SOUTH DISTRICT	0.000	0.000	0.000			19,125	AS	2
0902	93075		KIRBY STORTER WAYSIDE	FROM ROUTE 5041	TO PARKING	SOUTH DISTRICT	0.000	0.000	0.000			35,906	AS	2
0903	16743		MONROE STATION PARKING	FROM ROUTE 5041	TO ROUTE 5041	SOUTH DISTRICT	0.000	0.000	0.000			32,416	AS	2
0904	16744		OASIS VISITOR CENTER PARKING	FROM ROUTE 5041	TO PARKING	SOUTH DISTRICT	0.000	0.000	0.000			49,988	AS	2
0905	109097		SOUTH REST AREA ACCESS PARKING	ADJACENT TO ROUTE 0201 (SOUTH REST AREA ACCESS ROAD) AT MP 0.26 (ON RIGHT)	TO PARKING	NORTH DISTRICT	0.000	0.000	0.000			4,101	AS	1
0906A	92651		NORTH REST AREA ACCESS PARKING A	FROM ROUTE 0202 (NORTH REST AREA ACCESS ROAD) AT MP 0.16 (ON LEFT)	TO ROUTE 0202 (NORTH REST AREA ACCESS ROAD) AT MP 0.36 (ON LEFT)	NORTH DISTRICT	0.000	0.000	0.000			24,718	AS	1
0906B	92651		NORTH REST AREA ACCESS PARKING B	FROM ROUTE 0202 (NORTH REST AREA ACCESS ROAD) AT MP 0.21 (ON RIGHT)	TO ROUTE 0202 (NORTH REST AREA ACCESS ROAD) AT MP 0.33 (ON RIGHT)	NORTH DISTRICT	0.000	0.000	0.000			37,479	AS	1
0907	92650		OCHOPEE MAINTENANCE FACILITY PARKING	AT END OF ROUTE 0402	TO PARKING	SOUTH DISTRICT	0.000	0.000	0.000			68,137	AS	2
0908	92882		OCHOPEE RANGER STATION PARKING	ADJACENT TO ROUTE 0400 (SATINWOOD DRIVE) AT MP 0.48 (ON LEFT)	TO PARKING	SOUTH DISTRICT	0.000	0.000	0.000			5,798	AS	2
0909	92892		TURNER RIVER CANOE LAUNCH	FROM ROUTE 5041	TO PARKING	SOUTH DISTRICT	0.000	0.000	0.000			14,307	AS	2

NPS/RIP Route ID Report

Shading Color Key: Red text denotes approx. mileage

White = Paved Routes, ARAN Driven | Yellow = Unpaved Routes, ARAN not Driven | Blue = All Paved Parking Areas | Green = All Unpaved Parking Areas

Grey = Paved Routes, ARAN not Driven | Black = Paved State, Local or Private non-NPS Routes, ARAN Driven | = Concession Route Flag ON

** Unpaved Routes displayed on report were obtained from FMSS database and not inventoried by Road Inventory Program (RIP)

BICY

BIG CYPRESS NATIONAL PRESERVE

Rte. No.	FMSS No.	Concess Route	Route Name	Route Description From	Route Description To	Maint. District	Paved Miles	Un-Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0910	92579		MIDWAY CAMPGROUND PARKING	ADJACENT TO ROUTE 0204A (MIDWAY CAMPGROUND LOOP SPUR) AT MP 0.01 (ON LEFT)	TO PARKING	SOUTH DISTRICT	0.000	0.000	0.000			1,042	AS	2
5029			STATE HIGHWAY 29	FROM NORTH PARK BOUNDARY	TO ROUTE 5041	SOUTH DISTRICT	24.550	0.000	24.550	1		0	AS	1, 2
5041			HIGHWAY 41 (TAMIAMI TRAIL)	FROM EAST PARK BOUNDARY	TO WEST PARK BOUNDARY	SOUTH DISTRICT	36.320	0.000	36.320	1		0	AS	2
5075			I-75	FROM EAST PARK BOUNDARY	TO WEST PARK BOUNDARY	NORTH DISTRICT	28.970	0.000	28.970	1		0	AS	1

SUMMARY TOTALS FOR BIG CYPRESS NATIONAL PRESERVE

ROUTE TOTALS

ARAN Driven Route Miles	9.240
All Paved Route Miles	9.320
All Unpaved Route Miles	13.700
TOTAL PARK ROUTE MILES	23.020
All Manually Rated Roads (SQFT)	0

LANE MILE TOTALS

ARAN Driven Lane Miles	15.459
Paved Parking Lane Miles	5.924
Paved MRR Lane Miles	0.000
TOTAL PAVED LANE MILES	21.383

CONCESSION TOTALS

Concession Paved Route Miles	0.000
Concession Unpaved Route Miles	0.000
Concession Paved Parking Area SQFT	0
Concession Unpaved Parking Area SQFT	0
Concession Paved MRR SQFT	0

PARKING AREA TOTALS

All Paved Parking (SQFT)	344,053
All Unpaved Parking (SQFT)	0
TOTAL ALL PARKING (SQFT)	344,053

WEIGHTED AVERAGE PARK VALUES

PCR (Rating)	SCR (Rating)	RCI (Rating)	RUT (Index)	AC (Index)	LC (Index)	TC (Index)	PATCH (Index)	PCR (Concession)
80.20	77.12	63.36	82.25	98.71	99.61	99.79	96.58	N/A

NPS/RIP Route ID Report

Shading Color Key:
Red text denotes approx. mileage

White = Paved Routes, ARAN Driven	Yellow = Unpaved Routes, ARAN not Driven	Blue = All Paved Parking Areas	Green = All Unpaved Parking Areas
Grey = Paved Routes, ARAN not Driven	Black = Paved State, Local or Private non-NPS Routes, ARAN Driven	= Concession Route Flag ON	

** Unpaved Routes displayed on report were obtained from FMSS database and not inventoried by Road Inventory Program (RIP)

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, Video Log and Road Features 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

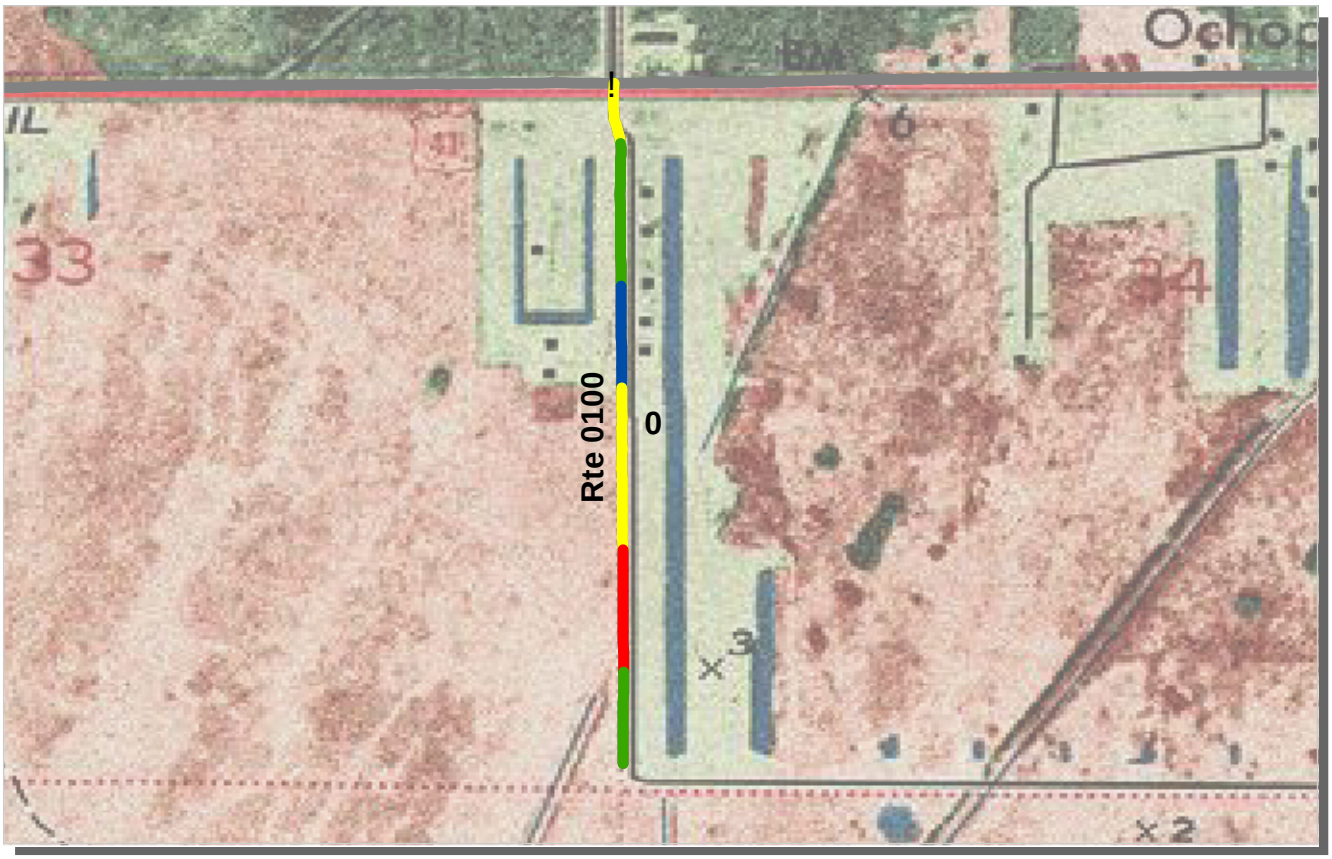
SA - Sand Road Bed

NV - Native or Dirt Material Road Bed

OT - Other Materials Road Bed

Big Cypress National Preserve

Section 5
Paved Route Condition Rating Sheets (CRS)



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100)

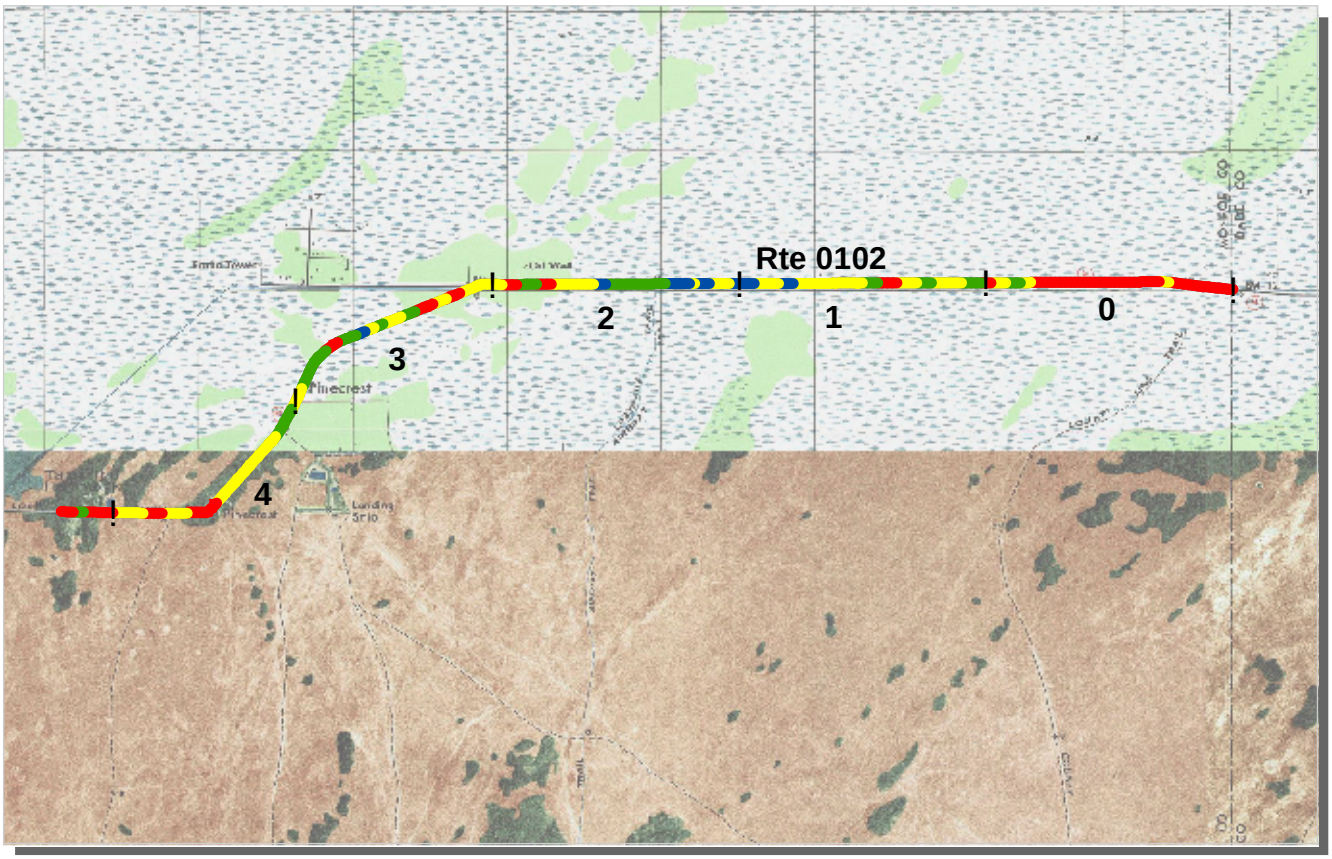
* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

SOUTHEAST REGION
BICY : BIG CYPRESS NATIONAL PRESERVE

ROUTE: 0100 DONA DRIVE **TOTAL LENGTH: 0.67 Miles**

Section Number	0				
Section Length (mi)	0.67				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	24				
Lane Width (ft)	13				
Shoulder Width Right (ft)**	12				
Shoulder Width Left (ft)**	5				
Roadway Condition Information					
SCR (Surface Condition Rating)	68				
PCR (Pavement Condition Rating)	74				
Distress Index Values					
Alligator Cracking Index	78				
Longitudinal Cracking Index	98				
Tranverse Cracking Index	98				
Patching Index	100				
Rutting Index	93				
Roughness Condition Index (RCI)	84				

** Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.



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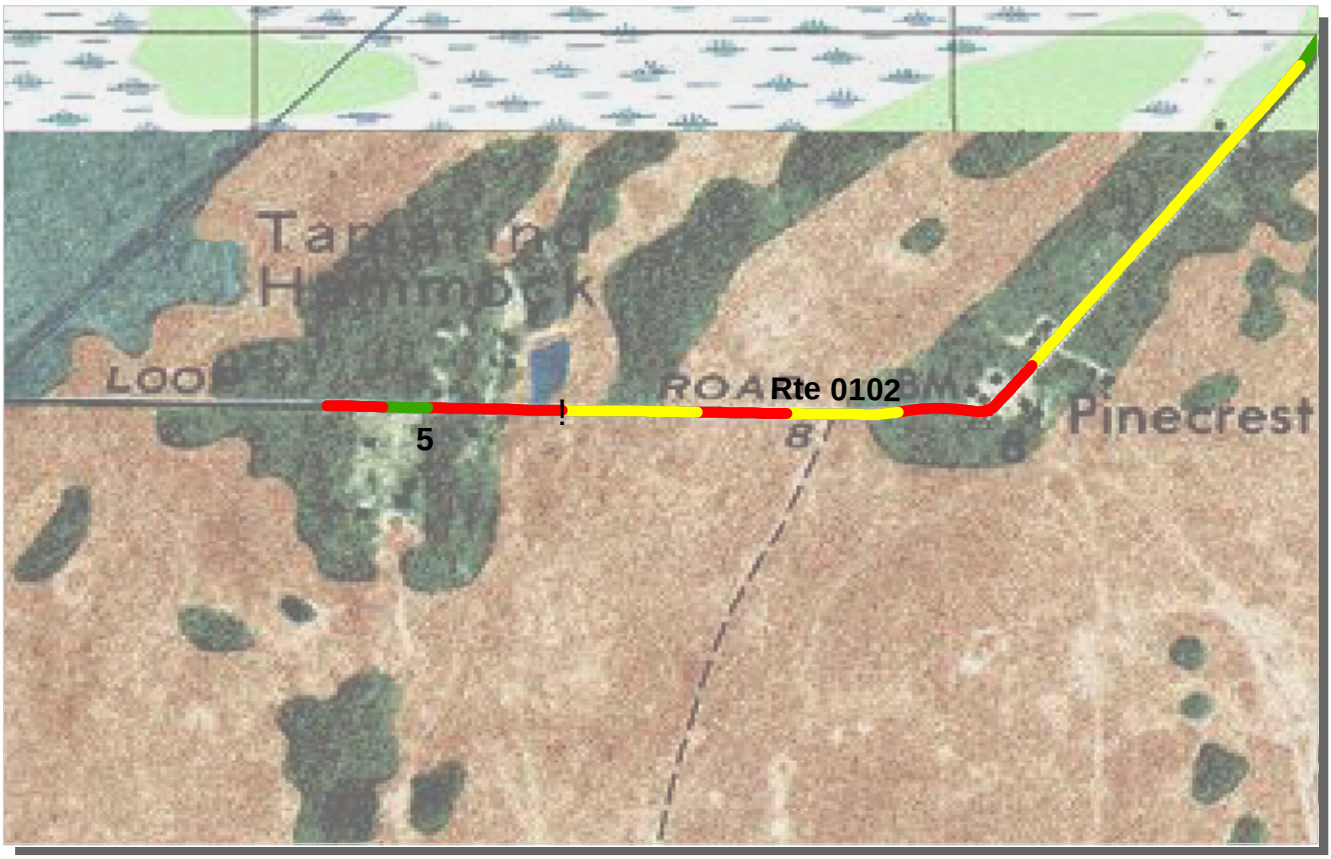
* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

SOUTHEAST REGION
BICY : BIG CYPRESS NATIONAL PRESERVE

ROUTE: 0102 LOOP ROAD **TOTAL LENGTH: 5.21 Miles**

Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov				
SADT	Click on PROGRAMS / NPS Traffic Data				
ADT Date	(Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	18	16	16	17	17
Lane Width (ft)	9	8	8	8	8
Shoulder Width Right (ft)**	6	6	5	5	5
Shoulder Width Left (ft)**	4	5	3	7	7
Roadway Condition Information					
SCR (Surface Condition Rating)	55	78	88	84	77
PCR (Pavement Condition Rating)	52	75	80	76	69
Distress Index Values					
Alligator Cracking Index	99	100	100	96	100
Longitudinal Cracking Index	99	100	100	99	100
Tranverse Cracking Index	99	100	100	100	100
Patching Index	97	95	97	98	97
Rutting Index	60	84	92	91	80
Roughness Condition Index (RCI)	49	72	67	64	58

** Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100)

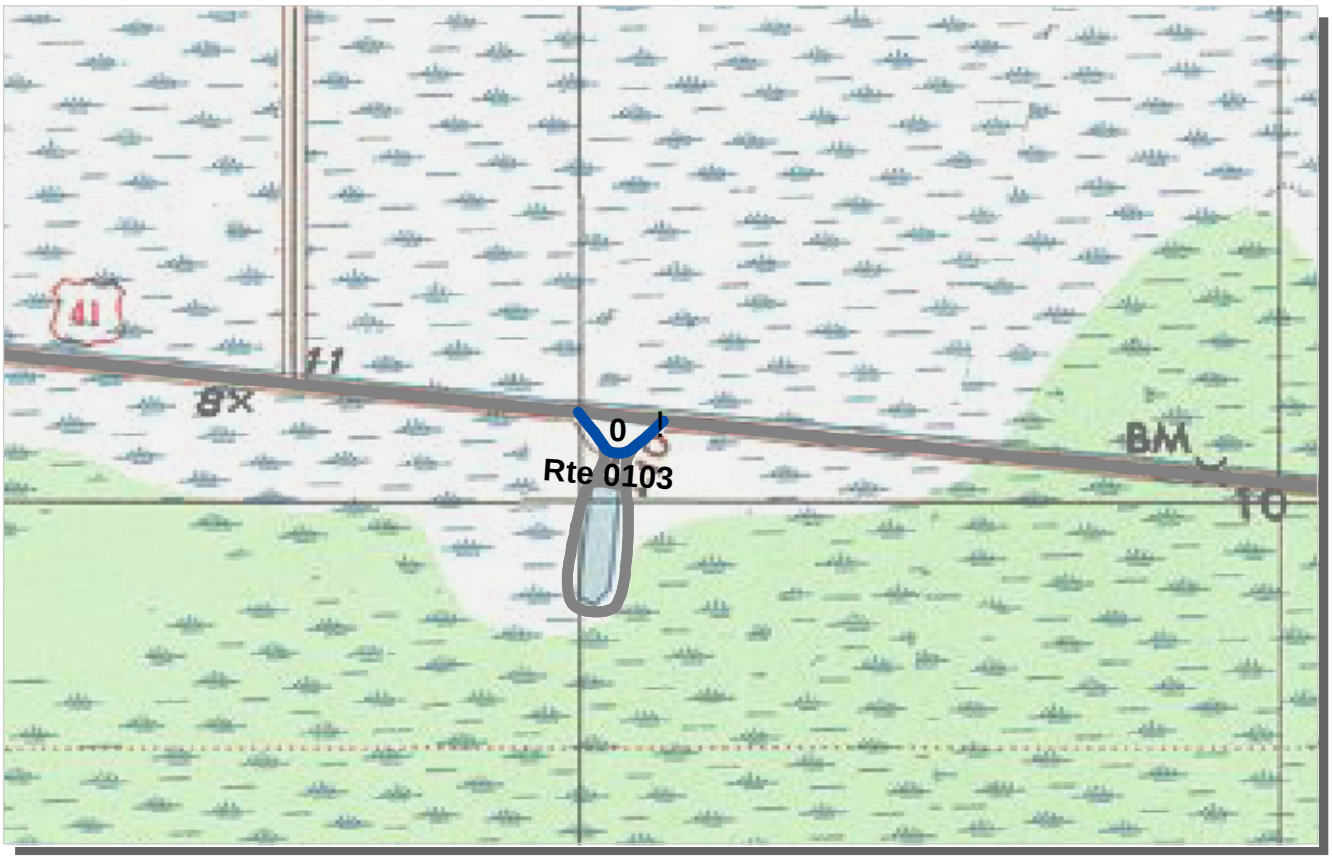
* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

SOUTHEAST REGION
BICY : BIG CYPRESS NATIONAL PRESERVE

ROUTE: 0102 LOOP ROAD **TOTAL LENGTH: 5.21 Miles**

Section Number	5				
Section Length (mi)	0.21				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	13				
Lane Width (ft)	13				
Shoulder Width Right (ft)**	3				
Shoulder Width Left (ft)**	4				
Roadway Condition Information					
SCR (Surface Condition Rating)	67				
PCR (Pavement Condition Rating)	58				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Tranverse Cracking Index	100				
Patching Index	91				
Rutting Index	76				
Roughness Condition Index (RCI)	43				

** Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.



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* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

SOUTHEAST REGION
BICY : BIG CYPRESS NATIONAL PRESERVE

ROUTE: 0103 MIDWAY CAMPGROUND ROAD **TOTAL LENGTH: 0.10 Miles**

Section Number	0				
Section Length (mi)	0.10				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	20				
Lane Width (ft)	9				
Shoulder Width Right (ft)**	5				
Shoulder Width Left (ft)**	9				
Roadway Condition Information					
SCR (Surface Condition Rating)	99				
PCR (Pavement Condition Rating)	95				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Tranverse Cracking Index	100				
Patching Index	100				
Rutting Index	99				
Roughness Condition Index (RCI)	53				

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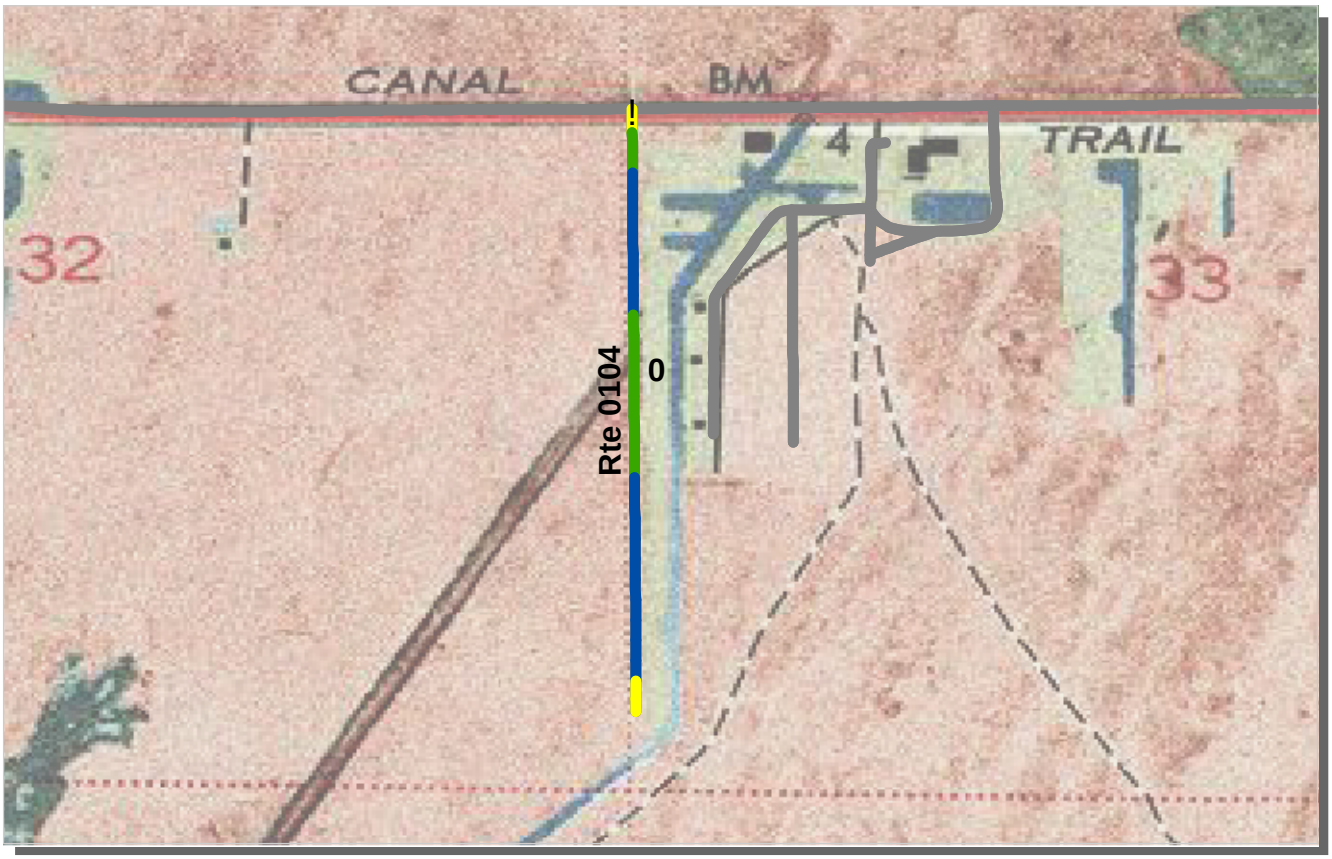

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PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

SOUTHEAST REGION
BICY : BIG CYPRESS NATIONAL PRESERVE

ROUTE: 0104 SEAGRAPE DRIVE **TOTAL LENGTH: 0.59 Miles**

Section Number	0				
Section Length (mi)	0.59				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	19				
Lane Width (ft)	10				
Shoulder Width Right (ft)**	12				
Shoulder Width Left (ft)**	12				
Roadway Condition Information					
SCR (Surface Condition Rating)	96				
PCR (Pavement Condition Rating)	95				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Tranverse Cracking Index	100				
Patching Index	100				
Rutting Index	97				
Roughness Condition Index (RCI)	94				

** Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.

0

PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100)

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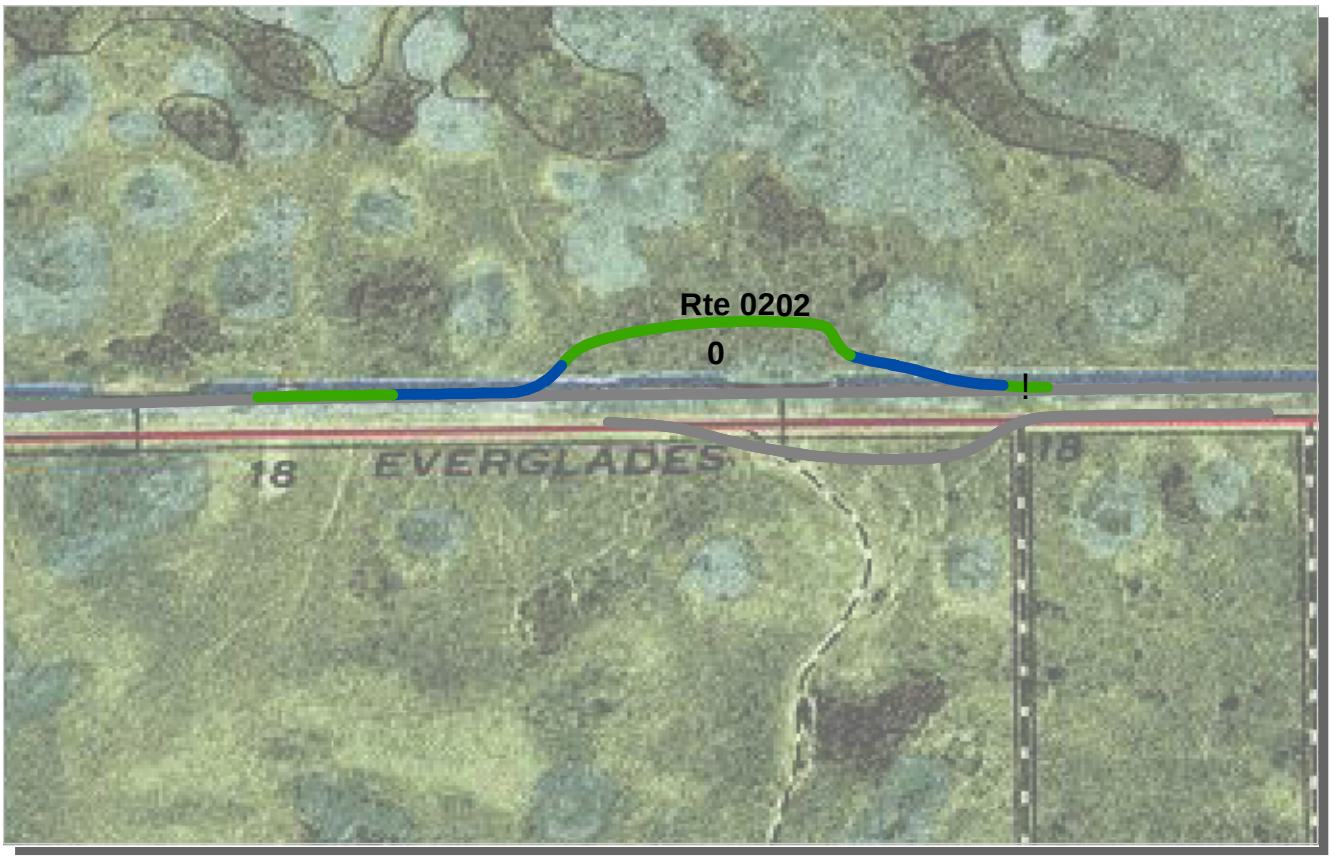
SOUTHEAST REGION
BICY : BIG CYPRESS NATIONAL PRESERVE

ROUTE: 0201 SOUTH REST AREA ACCESS ROAD **TOTAL LENGTH: 0.60 Miles**

Section Number	0				
Section Length (mi)	0.60				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	25				
Lane Width (ft)	19				
Shoulder Width Right (ft)**	25				
Shoulder Width Left (ft)**	0				
Roadway Condition Information					
SCR (Surface Condition Rating)	94				
PCR (Pavement Condition Rating)	95				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Tranverse Cracking Index	100				
Patching Index	100				
Rutting Index	94				
Roughness Condition Index (RCI)	98				

** Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.



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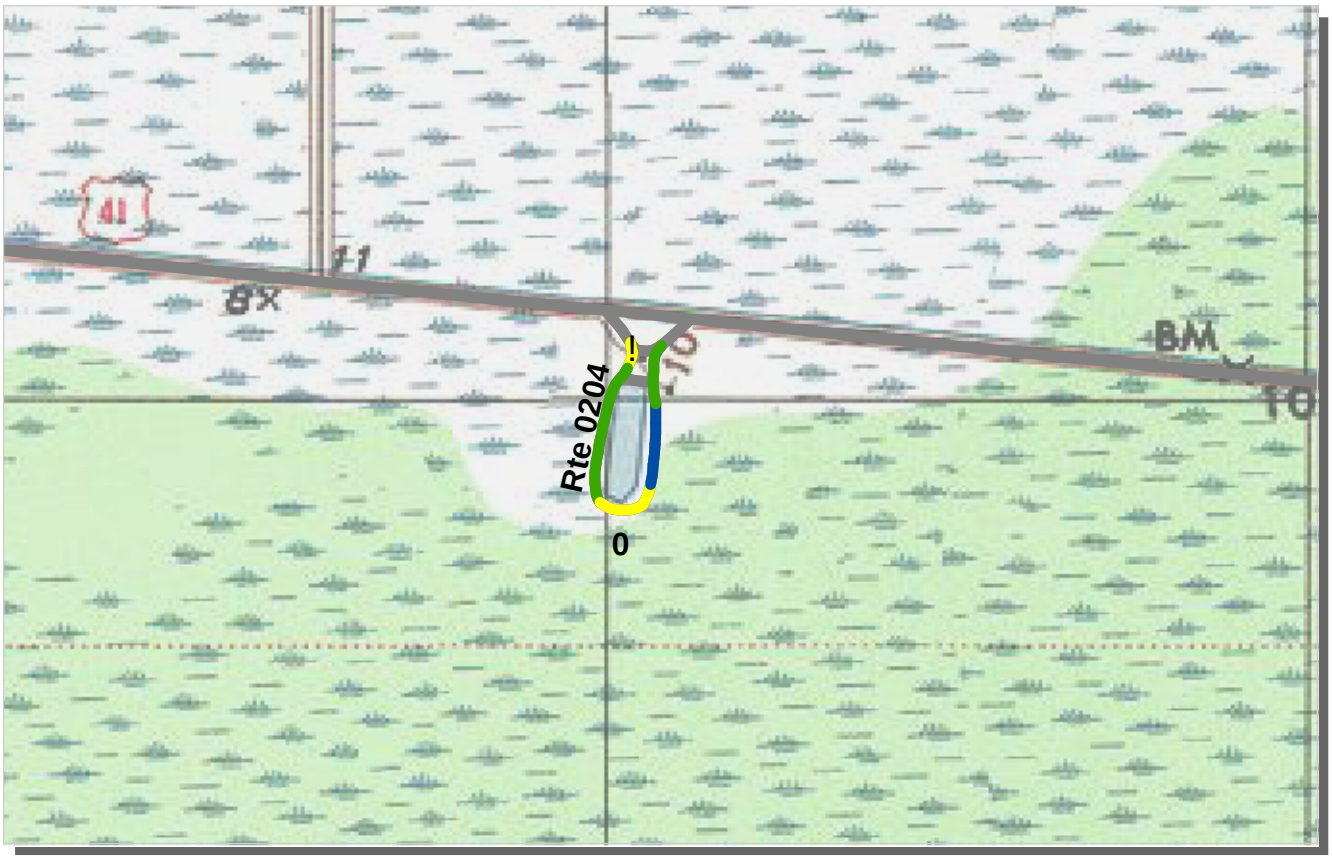
SOUTHEAST REGION
BICY : BIG CYPRESS NATIONAL PRESERVE

ROUTE: 0202 NORTH REST AREA ACCESS ROAD **TOTAL LENGTH: 0.72 Miles**

Section Number	0				
Section Length (mi)	0.72				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	26				
Lane Width (ft)	21				
Shoulder Width Right (ft)**	14				
Shoulder Width Left (ft)**	0				
Roadway Condition Information					
SCR (Surface Condition Rating)	91				
PCR (Pavement Condition Rating)	92				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Tranverse Cracking Index	100				
Patching Index	100				
Rutting Index	91				
Roughness Condition Index (RCI)	94				

** Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.

ROUTE: 0202 NORTH REST AREA ACCESS ROAD



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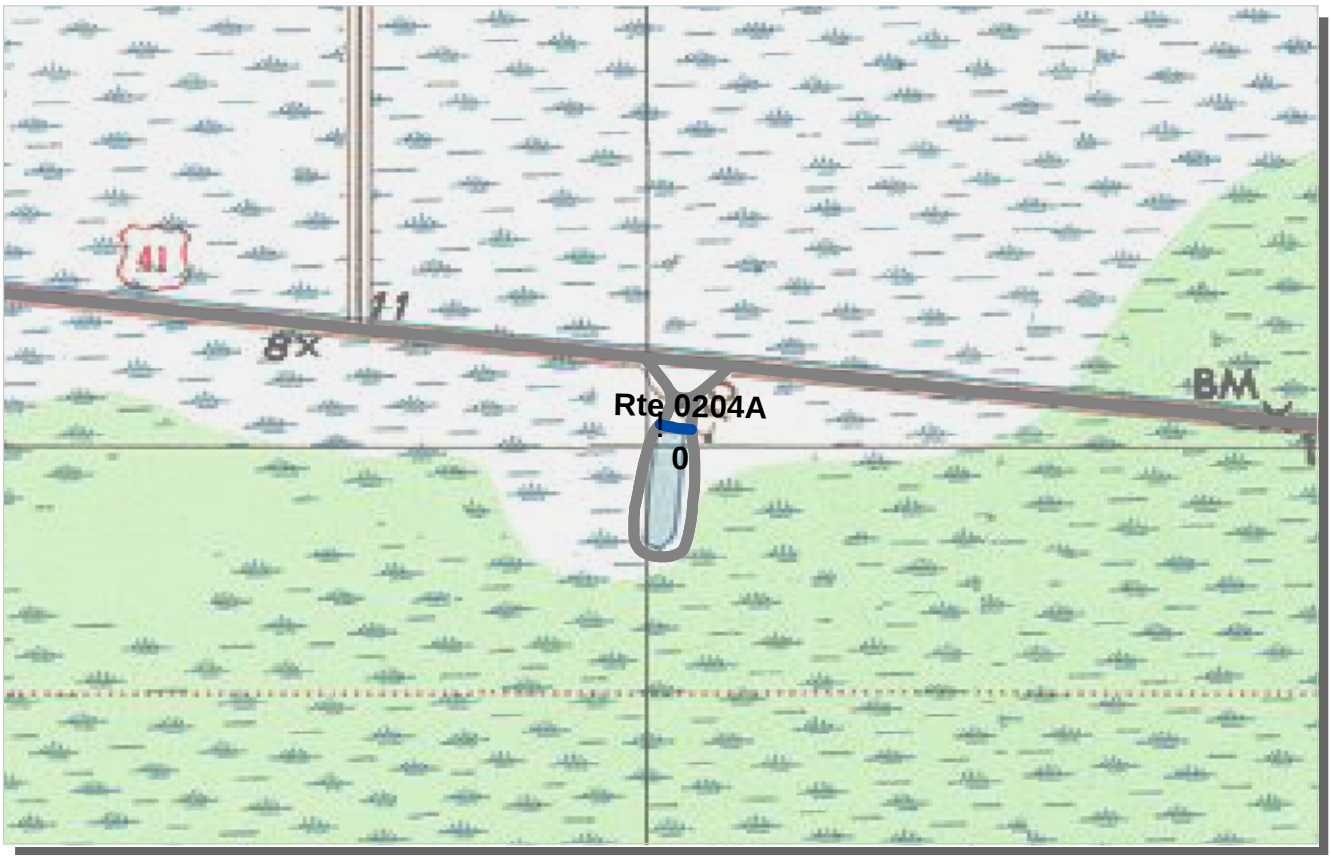
* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

SOUTHEAST REGION
BICY : BIG CYPRESS NATIONAL PRESERVE

ROUTE: 0204 MIDWAY CAMPGROUND LOOP **TOTAL LENGTH: 0.35 Miles**

Section Number	0				
Section Length (mi)	0.35				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	26				
Lane Width (ft)	26				
Shoulder Width Right (ft)**	5				
Shoulder Width Left (ft)**	10				
Roadway Condition Information					
SCR (Surface Condition Rating)	96				
PCR (Pavement Condition Rating)	83				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Tranverse Cracking Index	100				
Patching Index	100				
Rutting Index	96				
Roughness Condition Index (RCI)	64				

** Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.



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PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

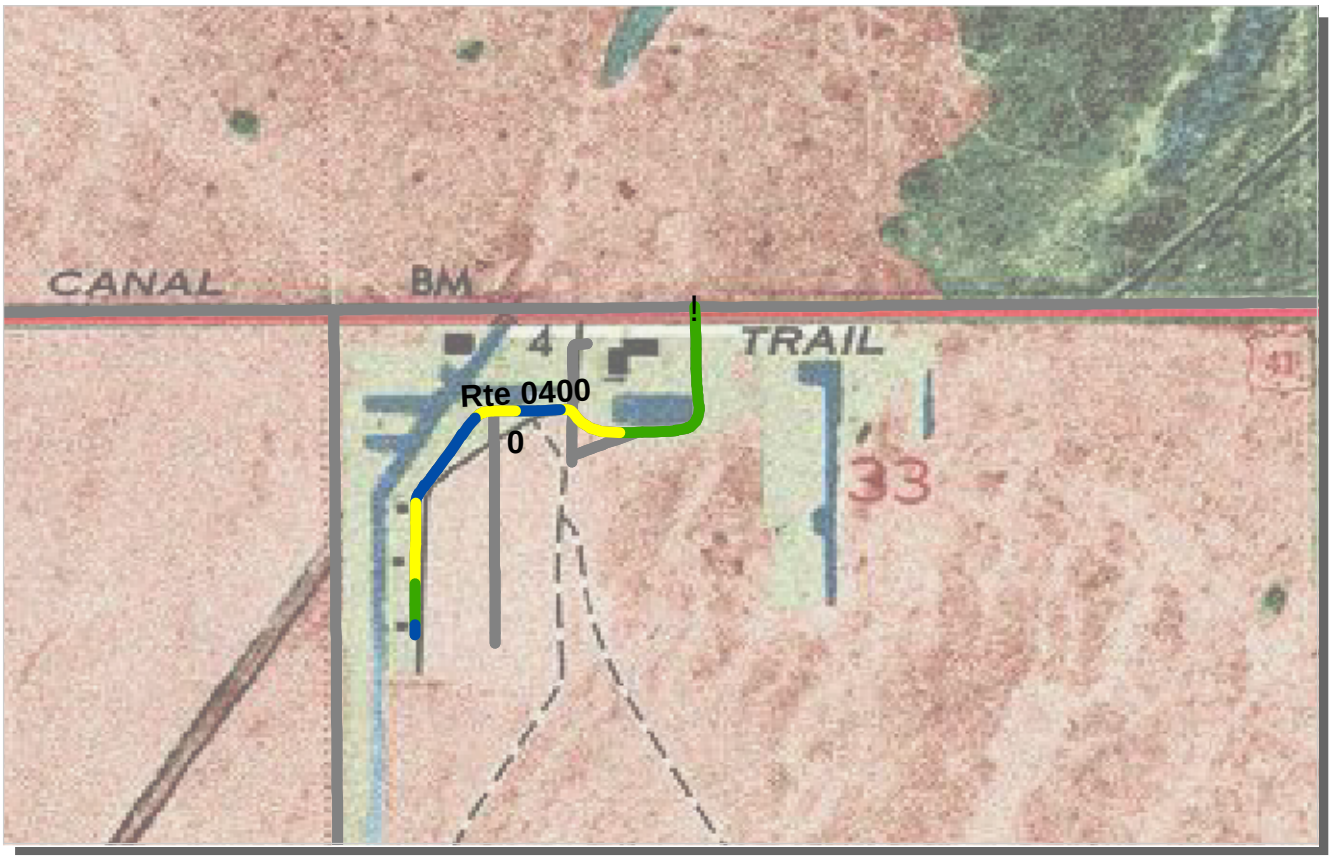
SOUTHEAST REGION
BICY : BIG CYPRESS NATIONAL PRESERVE

ROUTE: 0204A MIDWAY CAMPGROUND LOOP SPUR **TOTAL LENGTH: 0.03 Miles**

Section Number	0				
Section Length (mi)	0.03				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	13				
Lane Width (ft)	13				
Shoulder Width Right (ft)**	12				
Shoulder Width Left (ft)**	7				
Roadway Condition Information					
SCR (Surface Condition Rating)	100				
PCR (Pavement Condition Rating)	100				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Tranverse Cracking Index	100				
Patching Index	100				
Rutting Index	100				
Roughness Condition Index (RCI)	NC				

** Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.

ROUTE: 0204A MIDWAY CAMPGROUND LOOP SPUR



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PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

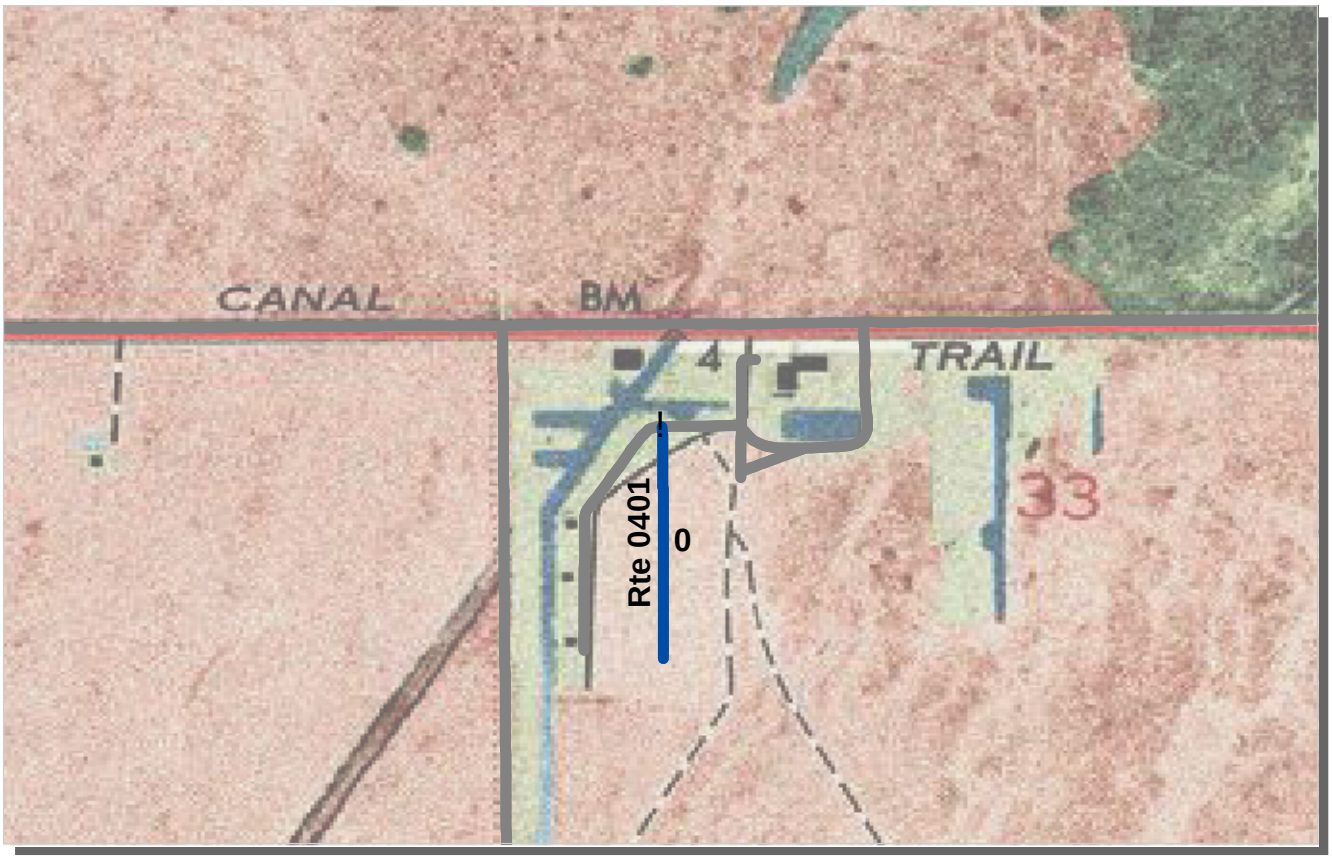
SOUTHEAST REGION
BICY : BIG CYPRESS NATIONAL PRESERVE

ROUTE: 0400 SATINWOOD DRIVE **TOTAL LENGTH: 0.55 Miles**

Section Number	0				
Section Length (mi)	0.55				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov				
SADT	Click on PROGRAMS / NPS Traffic Data				
ADT Date	(Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	28				
Lane Width (ft)	14				
Shoulder Width Right (ft)**	6				
Shoulder Width Left (ft)**	9				
Roadway Condition Information					
SCR (Surface Condition Rating)	94				
PCR (Pavement Condition Rating)	85				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Tranverse Cracking Index	100				
Patching Index	100				
Rutting Index	95				
Roughness Condition Index (RCI)	68				

** Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.

ROUTE: 0400 SATINWOOD DRIVE



0

PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

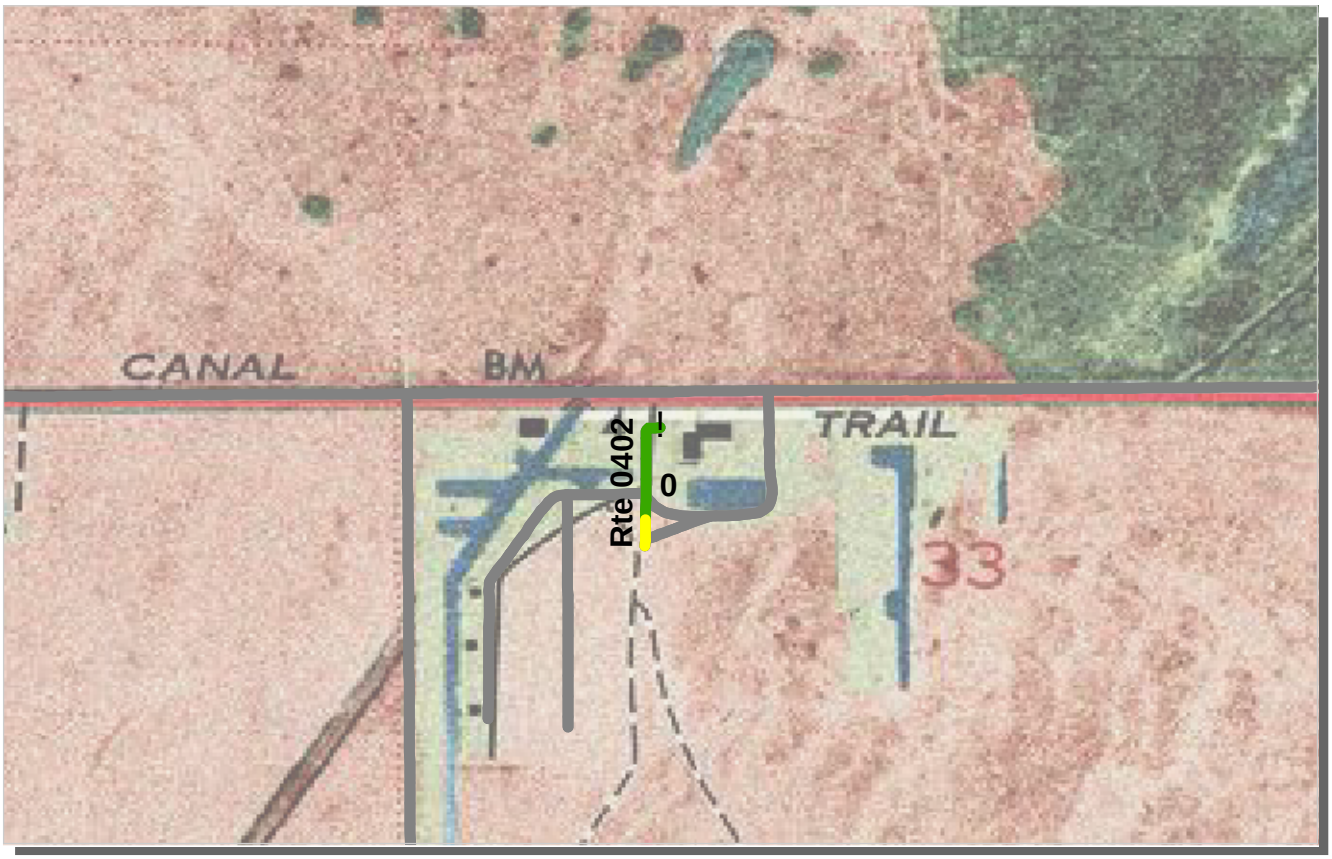
SOUTHEAST REGION
BICY : BIG CYPRESS NATIONAL PRESERVE

ROUTE: 0401 MAHOGANY DRIVE **TOTAL LENGTH: 0.23 Miles**

Section Number	0				
Section Length (mi)	0.23				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	20				
Lane Width (ft)	10				
Shoulder Width Right (ft)**	7				
Shoulder Width Left (ft)**	12				
Roadway Condition Information					
SCR (Surface Condition Rating)	98				
PCR (Pavement Condition Rating)	98				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Tranverse Cracking Index	100				
Patching Index	100				
Rutting Index	98				
Roughness Condition Index (RCI)	99				

** Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.

ROUTE: 0401 MAHOGANY DRIVE



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100)

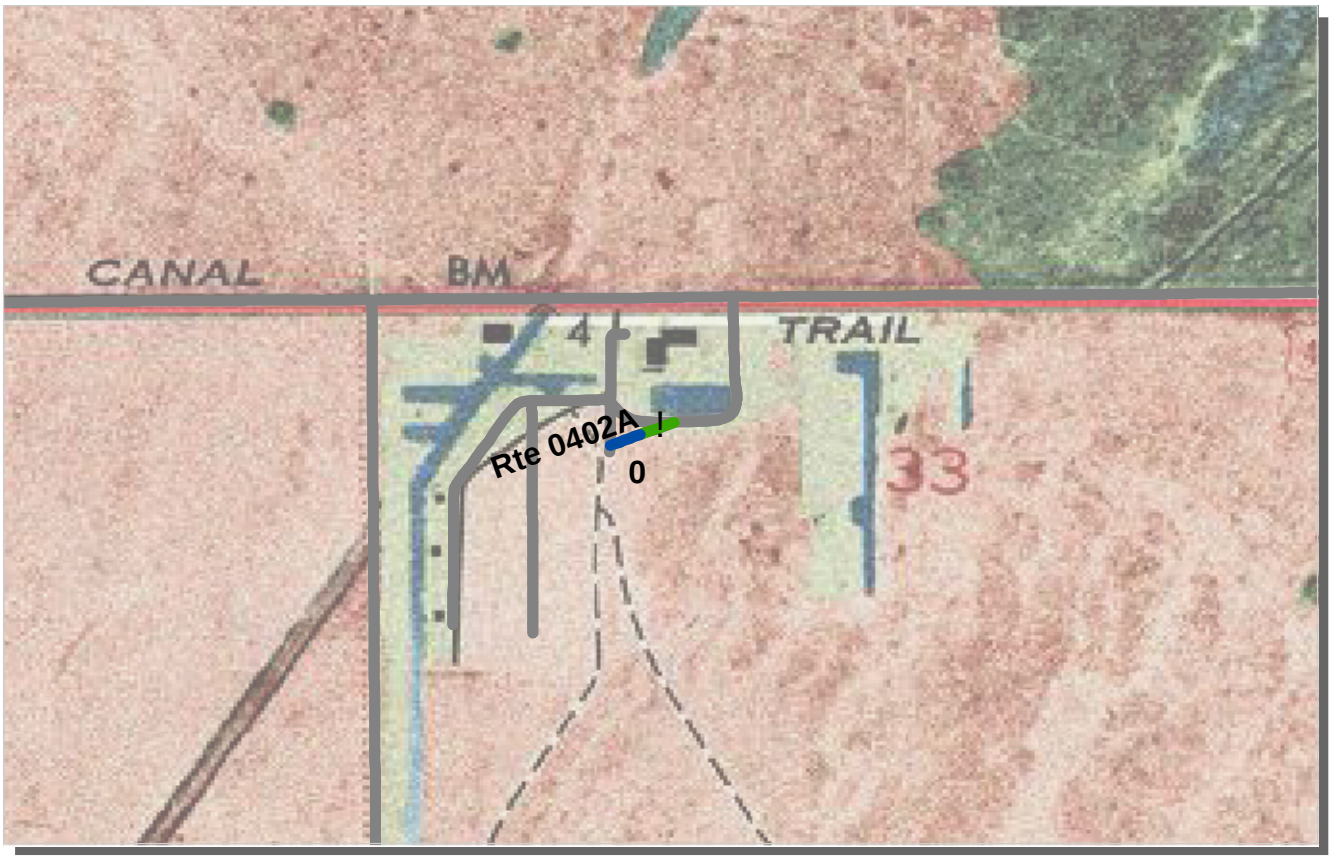
* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

SOUTHEAST REGION
BICY : BIG CYPRESS NATIONAL PRESERVE

ROUTE: 0402 OCHOPEE MAINTENANCE FACILITY ROAD TOTAL LENGTH: 0.14 Miles

Section Number	0				
Section Length (mi)	0.14				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	23				
Lane Width (ft)	11				
Shoulder Width Right (ft)**	12				
Shoulder Width Left (ft)**	12				
Roadway Condition Information					
SCR (Surface Condition Rating)	90				
PCR (Pavement Condition Rating)	82				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Tranverse Cracking Index	100				
Patching Index	100				
Rutting Index	90				
Roughness Condition Index (RCI)	57				

** Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.



0

PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

SOUTHEAST REGION
BICY : BIG CYPRESS NATIONAL PRESERVE

ROUTE: 0402A OCHOPEE MAINTENANCE FACILITY ROAD SPUR **TOTAL LENGTH: 0.05 Miles**

Section Number	0				
Section Length (mi)	0.05				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	21				
Lane Width (ft)	11				
Shoulder Width Right (ft)**	7				
Shoulder Width Left (ft)**	12				
Roadway Condition Information					
SCR (Surface Condition Rating)	95				
PCR (Pavement Condition Rating)	95				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Tranverse Cracking Index	100				
Patching Index	100				
Rutting Index	95				
Roughness Condition Index (RCI)	NC				

** Shoulder widths are measured from video at 0.50 mile intervals along route tangents. Visibility of actual shoulders in video images may affect accuracy of measured shoulder widths.

ROUTE: 0402A OCHOPEE MAINTENANCE FACILITY ROAD SPUR

Big Cypress National Preserve

Section 6
Manually Rated Paved Route Condition Rating Sheets (MRR)

BIG CYPRESS NATIONAL PRESERVE

Route 0101

MONUMENT LAKE DRIVE

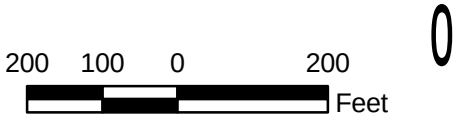
FROM ROUTE 5041

TO END OF PAVEMENT THEN ROAD CONTINUES AS UNPAVED TO END OF LOOP

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**

* Lane miles are based on 11' lane widths

No data was collected in Cycle 4.



Big Cypress National Preserve

Section 7
Parking Area Condition Rating Sheets

BIG CYPRESS NATIONAL PRESERVE
Route 0900A

WEST HEADQUARTERS PARKING A

FROM ROUTE 0402 (OCHOPEE MAINTENANCE FACILITY ROAD) AT MP 0 (SIDE N/A)
TO ROUTE 0402 (OCHOPEE MAINTENANCE FACILITY ROAD) AT MP 0.03 (ON LEFT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0900A	NONPUBLIC	11/6/2006		28,163	0.49	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	0	0	0	NO CURB AND GUTTER	NO CURB	POOR/45

* Lane miles are based on 11' lane widths

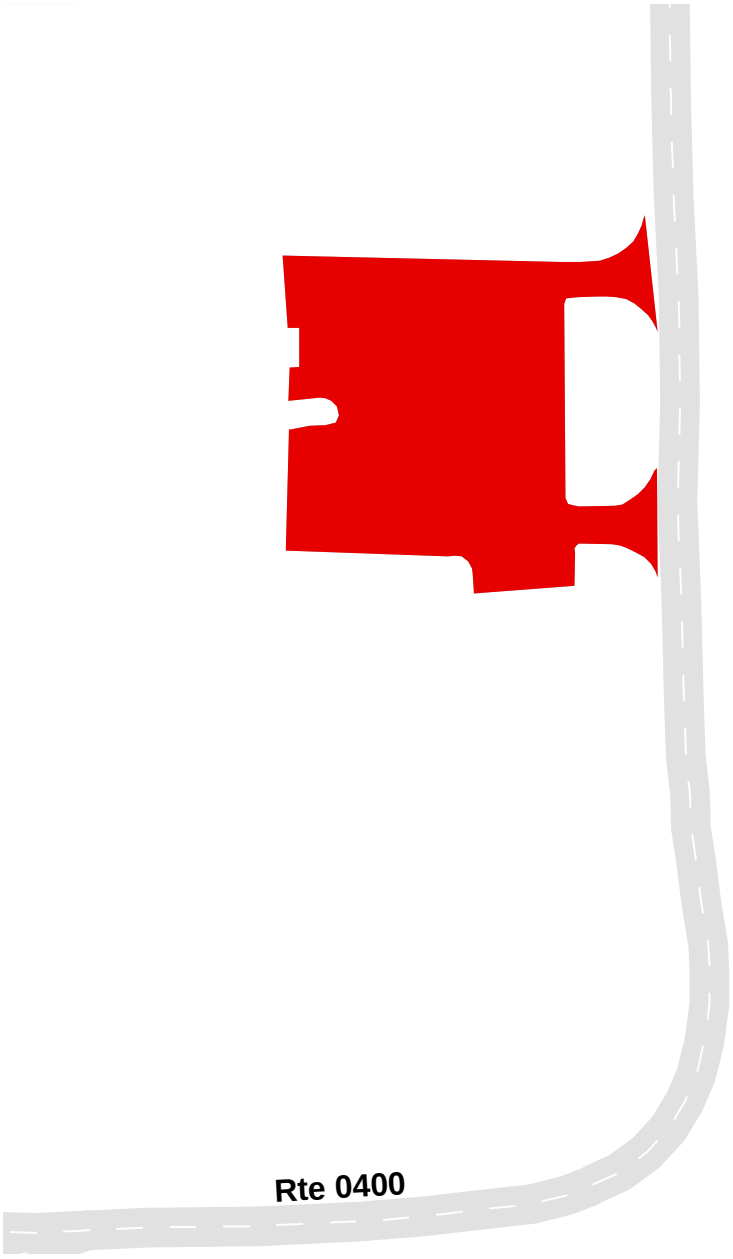
BIG CYPRESS NATIONAL PRESERVE
Route 0900B

EAST HEADQUARTERS PARKING B

FROM ROUTE 0400 (SATINWOOD DRIVE) AT MP 0.03 (ON RIGHT)
TO ROUTE 0400 (SATINWOOD DRIVE) AT MP 0.05 (ON RIGHT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0900B	NONPUBLIC	11/6/2006		22,874	0.39	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	0	0	0	NO CURB AND GUTTER	NO CURB	GOOD/90

* Lane miles are based on 11' lane widths

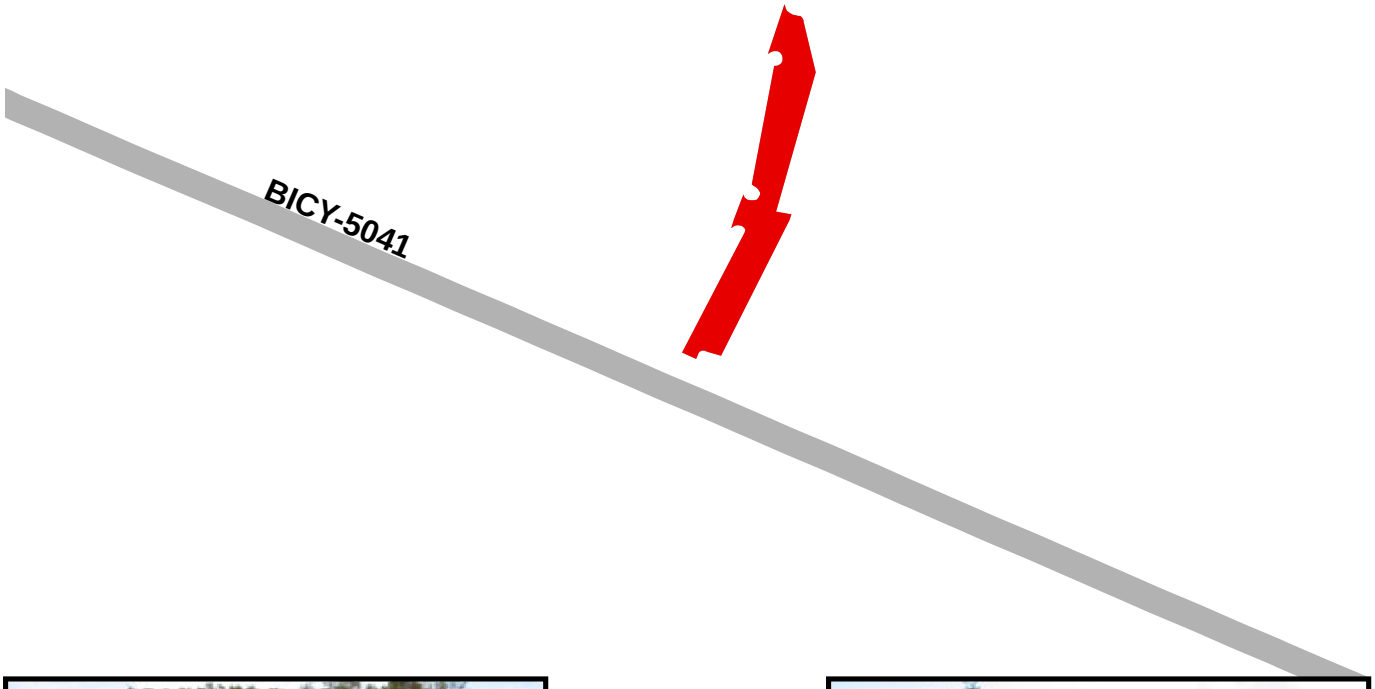


110 55 0 110
Feet

BIG CYPRESS NATIONAL PRESERVE
Route 0901
HP WILLIAMS WAYSIDE
FROM TURNER RIVER ROAD
TO TURNER RIVER ROAD

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0901	PUBLIC	11/6/2006		19,125	0.33	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	0	0	0	NO CURB AND GUTTER	NO CURB	EXCELLENT/97

* Lane miles are based on 11' lane widths



300 150 0 300
Feet

BIG CYPRESS NATIONAL PRESERVE

Route 0902

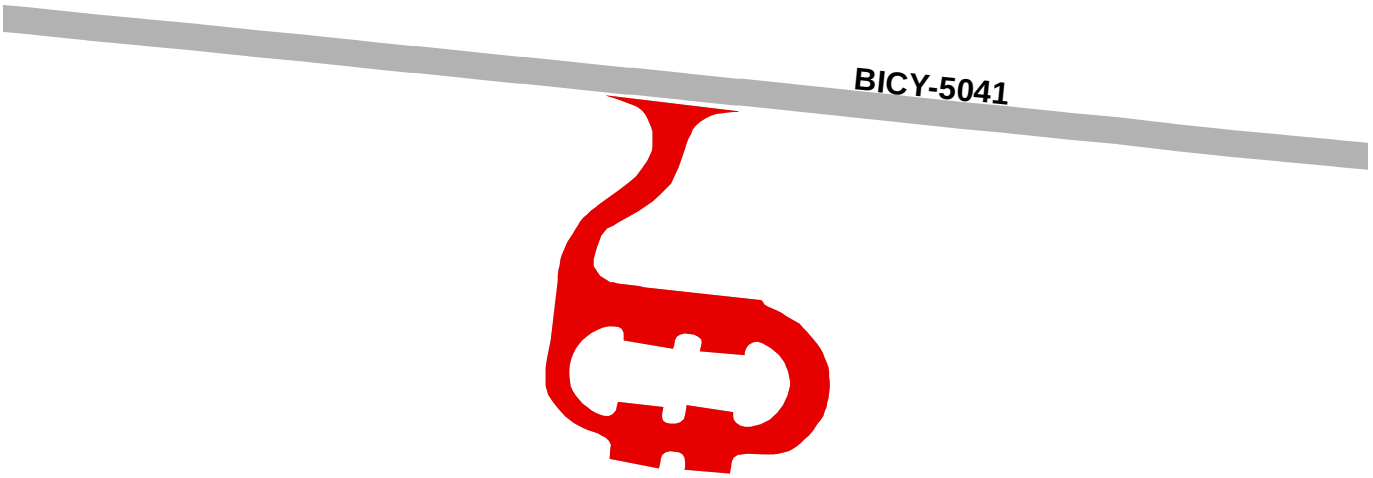
KIRBY STORTER WAYSIDE

FROM ROUTE 5041

TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0902	PUBLIC	11/6/2006		35,906	0.62	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
1	1	0	0	NO CURB AND GUTTER	NO CURB	EXCELLENT/97

* Lane miles are based on 11' lane widths



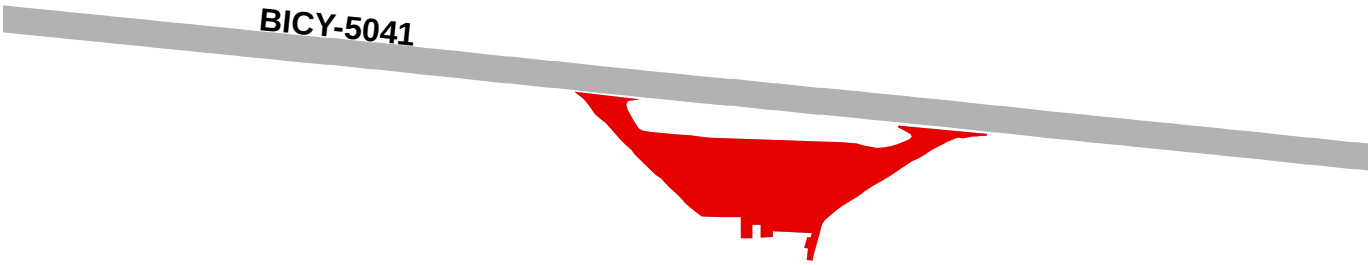
260 130 0 260

Feet

BIG CYPRESS NATIONAL PRESERVE
Route 0903
MONROE STATION PARKING
FROM ROUTE 5041
TO ROUTE 5041

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0903	PUBLIC	11/6/2006		32,416	0.56	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	0	0	0	NO CURB AND GUTTER	NO CURB	POOR/45

* Lane miles are based on 11' lane widths



310 155 0 310
Feet

BIG CYPRESS NATIONAL PRESERVE

Route 0904

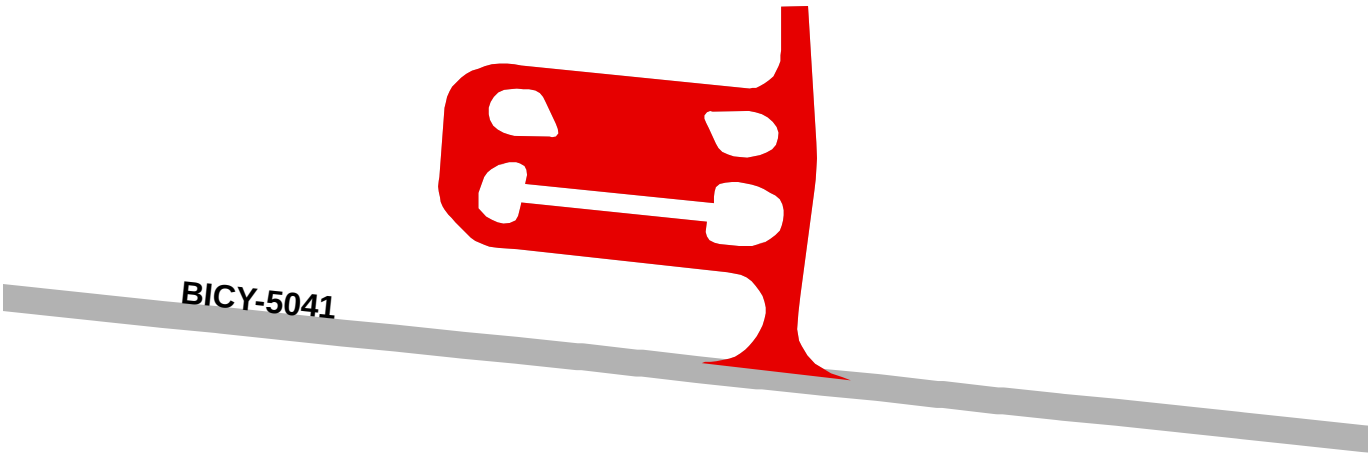
OASIS VISITOR CENTER PARKING

FROM ROUTE 5041

TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0904	PUBLIC	11/6/2006		49,988	0.86	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
2	2	0	0	NO CURB AND GUTTER	NO CURB	EXCELLENT/97

* Lane miles are based on 11' lane widths



240 120 0 240

Feet

BIG CYPRESS NATIONAL PRESERVE
Route 0905
SOUTH REST AREA ACCESS PARKING

ADJACENT TO ROUTE 0201 (SOUTH REST AREA ACCESS ROAD) AT MP 0.26 (ON RIGHT) TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0905	PUBLIC	11/6/2006		4,101	0.07	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	0	0	0	CONCRETE CURB AND GUTTER	NO CURB	FAIR/73

* Lane miles are based on 11' lane widths

120 60 0 120

Feet

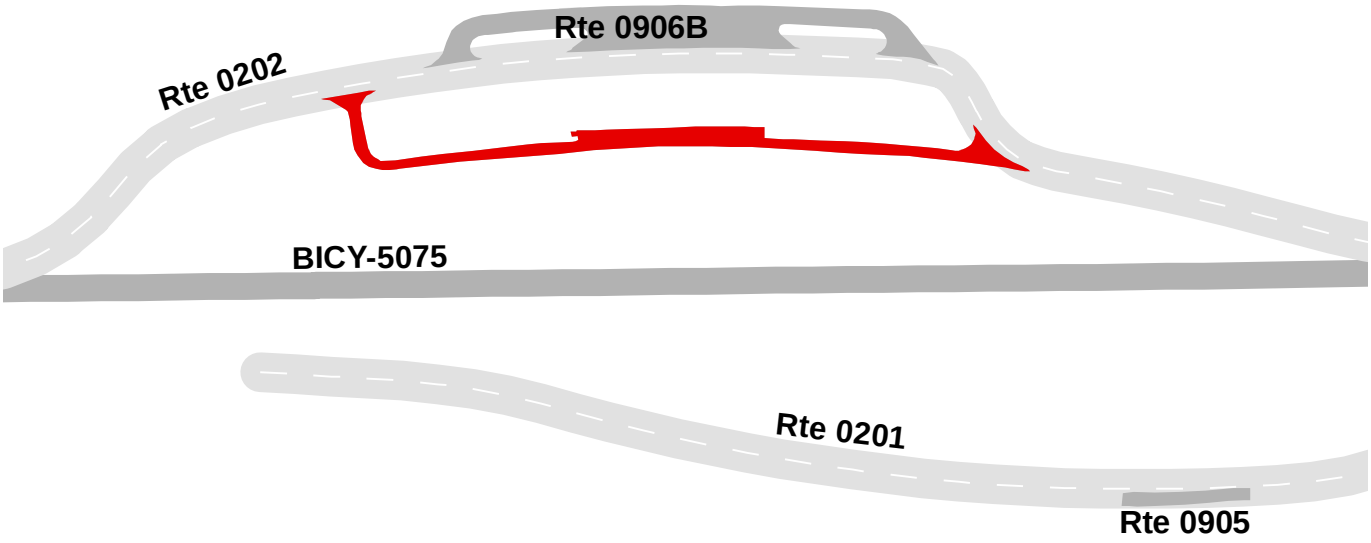
BIG CYPRESS NATIONAL PRESERVE
Route 0906A

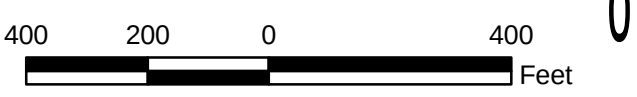
NORTH REST AREA ACCESS PARKING A

FROM ROUTE 0202 (NORTH REST AREA ACCESS ROAD) AT MP 0.16 (ON LEFT)
TO ROUTE 0202 (NORTH REST AREA ACCESS ROAD) AT MP 0.36 (ON LEFT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0906A	PUBLIC	11/6/2006		24,718	0.43	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	0	0	0	CONCRETE CURB AND GUTTER	NO CURB	GOOD/90

* Lane miles are based on 11' lane widths





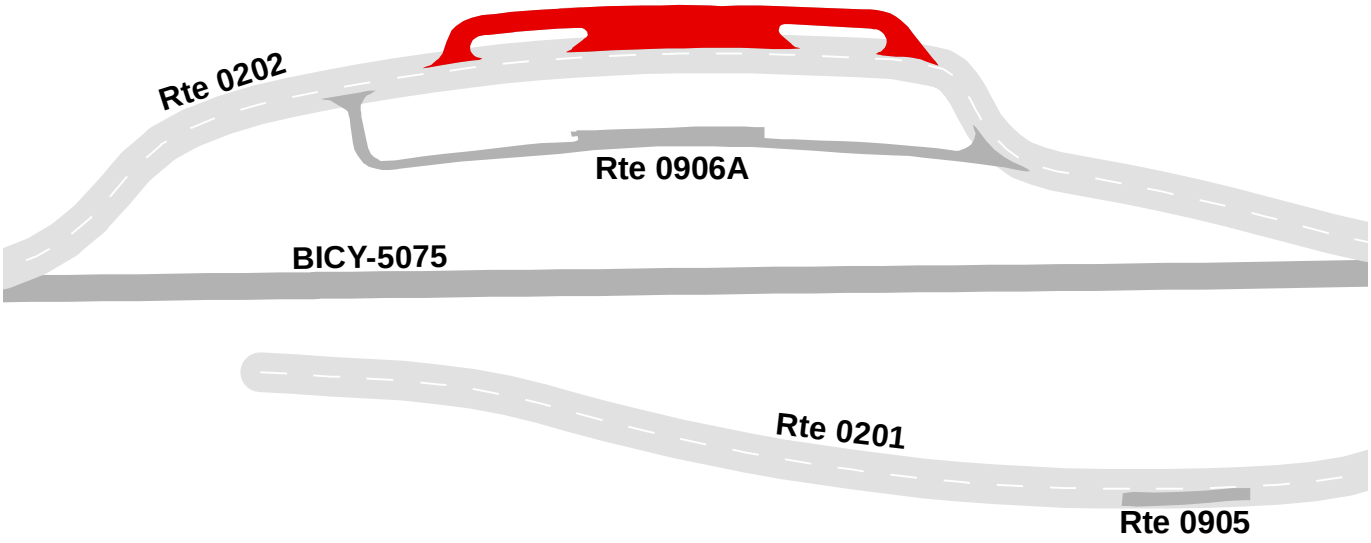
BIG CYPRESS NATIONAL PRESERVE
Route 0906B

NORTH REST AREA ACCESS PARKING B

FROM ROUTE 0202 (NORTH REST AREA ACCESS ROAD) AT MP 0.21 (ON RIGHT)
TO ROUTE 0202 (NORTH REST AREA ACCESS ROAD) AT MP 0.33 (ON RIGHT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0906B	PUBLIC	11/6/2006		37,479	0.65	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	0	0	0	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

* Lane miles are based on 11' lane widths



BIG CYPRESS NATIONAL PRESERVE

Route 0907

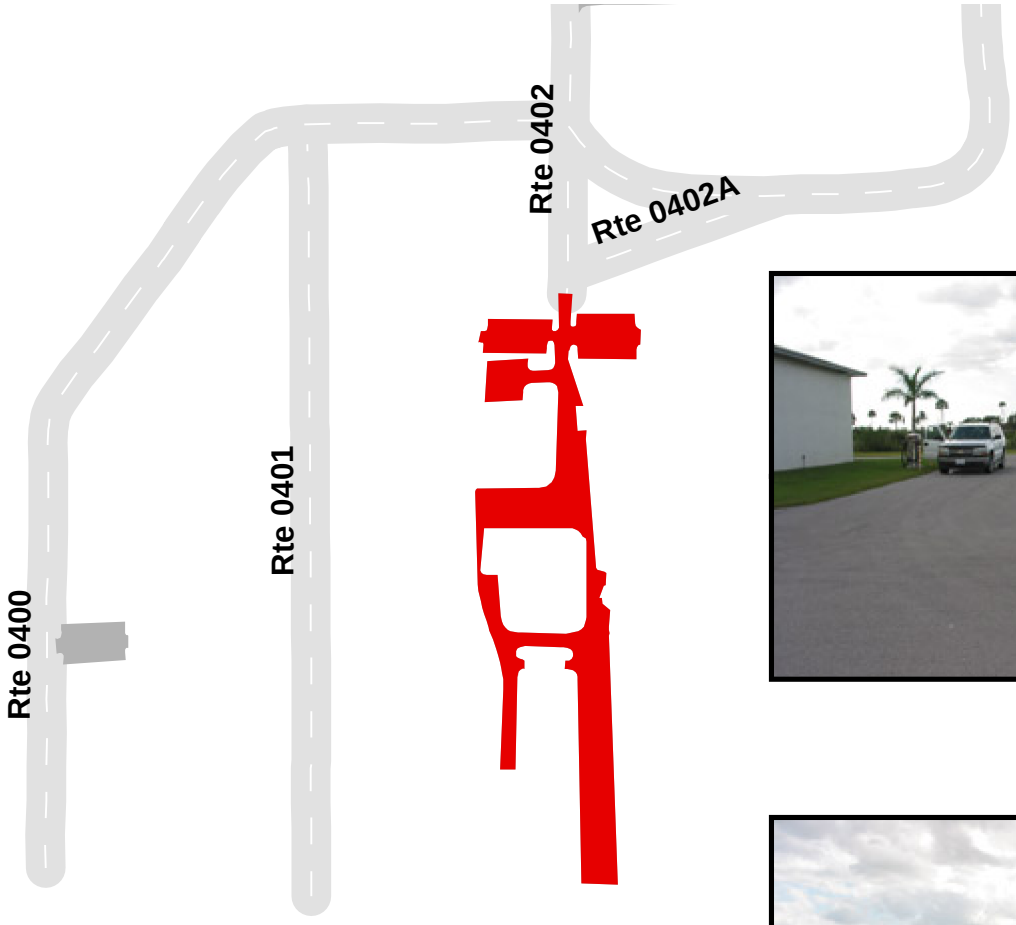
OCHOPEE MAINTENANCE FACILITY PARKING

AT END OF ROUTE 0402

TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0907	NONPUBLIC	11/6/2006		68,137	1.17	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	0	0	0	NO CURB AND GUTTER	NO CURB	GOOD/90

* Lane miles are based on 11' lane widths



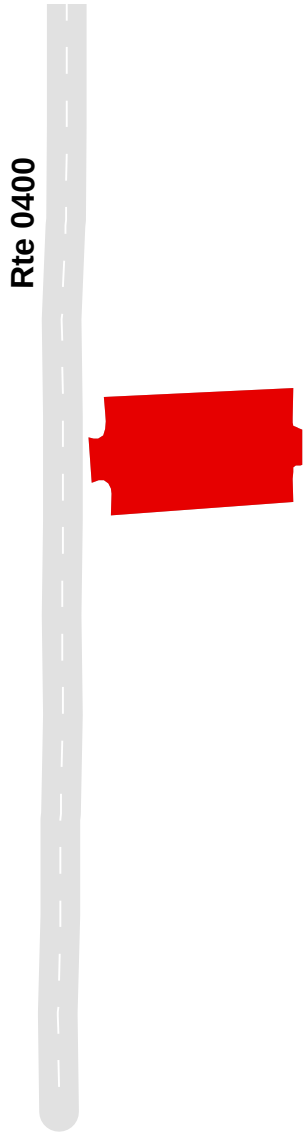
370 185 0 370

Feet

BIG CYPRESS NATIONAL PRESERVE
Route 0908
OCHOPEE RANGER STATION PARKING
ADJACENT TO ROUTE 0400 (SATINWOOD DRIVE) AT MP 0.48 (ON LEFT)
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0908	NONPUBLIC	11/6/2006		5,798	0.10	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	0	0	0	NO CURB AND GUTTER	NO CURB	GOOD/90

* Lane miles are based on 11' lane widths

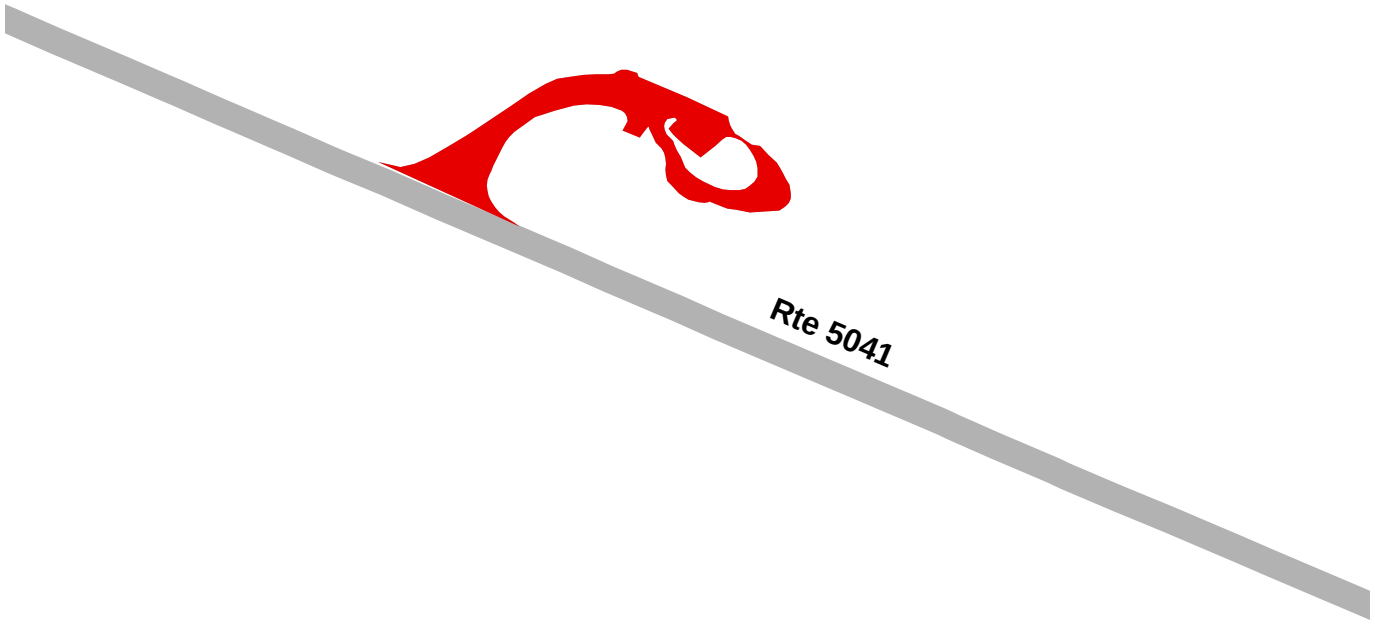


130 65 0 130 0
Feet

BIG CYPRESS NATIONAL PRESERVE
Route 0909
TURNER RIVER CANOE LAUNCH
FROM ROUTE 5041
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0909	PUBLIC	11/6/2006		14,307	0.25	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	0	0	0	NO CURB AND GUTTER	NO CURB	EXCELLENT/97

* Lane miles are based on 11' lane widths



240 120 0 240
Feet

BIG CYPRESS NATIONAL PRESERVE
Route 0910
MIDWAY CAMPGROUND PARKING

ADJACENT TO ROUTE 0204A (MIDWAY CAMPGROUND LOOP SPUR) AT MP 0.01 (ON LEFT) TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0910	PUBLIC	11/6/2006		1,042	0.02	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	0	0	0	N/A	N/A	EXCELLENT/97

* Lane miles are based on 11' lane widths

Big Cypress National Preserve

Section 8
Parkwide / Route Maintenance
Features Summaries

BICY: PARKWIDE MAINTENANCE FEATURES SUMMARY

Notice: Culverts and drop inlets were marked by NPS and inventoried by RIP in Cycle 4, therefore the culvert and drop inlet count below includes those on ARAN-driven routes, Manually Rated Routes and in Paved Parking Areas.

FEATURE	LINEAR FEET	COUNT
BARRIER	3,501	--
BOLLARD	0	--
BRIDGE	--	4
CABLE	0	--
CATTLE GUARD	--	0
CULVERT	--	15
CURB	1,595	--
DROP INLET	--	3
FIRE HYDRANT	--	2
GATE	--	3
GUARD/GUIDE RAIL	3,263	--
GUARD/GUIDE WALL	238	--
INTERSECTION	--	69
LOW WATER CROSSING	0	0
MILE MARKER	--	0
OVERPASS	--	0
OVERHEAD SIGN	--	0
PARK BOUNDARY	--	1
PAVED DITCH	0	--
PULLOUT	--	0
RAILROAD CROSSING	--	0
RETAINING WALL	--	0
SIGN	--	121
STATE BOUNDARY	--	0
TEMPORARY BARRIER	0	--
TRAFFIC LIGHT	--	0
TUNNEL	--	0
TURNOUT	0	--

BICY: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0100 DONA DRIVE	ROUTE 0102 LOOP ROAD	ROUTE 0103 MIDWAY CAMPGROUND ROAD	ROUTE 0104 SEAGRAPE DRIVE	ROUTE 0201 SOUTH REST AREA ACCESS ROAD	ROUTE 0202 NORTH REST AREA ACCESS ROAD	UNIT
BARRIER	0	238	0	0	1,600	1,663	LINEAR FEET
BOLLARD	0	0	0	0	0	0	LINEAR FEET
BRIDGE	0	4	0	0	0	0	EACH
CABLE	0	0	0	0	0	0	LINEAR FEET
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	0	10	0	0	0	0	EACH
CURB	0	0	0	0	396	1,199	LINEAR FEET
DROP INLET	0	0	0	0	0	0	EACH
FIRE HYDRANT	0	1	0	0	0	0	EACH
GATE	0	0	2	0	0	0	EACH
GUARD/GUIDE RAIL	0	0	0	0	1,600	1,663	LINEAR FEET
GUARD/GUIDE WALL	0	238	0	0	0	0	LINEAR FEET
INTERSECTION	6	5	6	5	5	9	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
LOW WATER CROSSING	0	0	0	0	0	0	LINEAR FEET
MILE MARKER	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
OVERPASS	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	1	0	0	0	0	EACH
PAVED DITCH	0	0	0	0	0	0	LINEAR FEET
PULLOUT	0	0	0	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
SIGN	9	54	6	6	2	10	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TEMPORARY BARRIER	0	0	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	0	LINEAR FEET

Notice: Culverts and drop inlets were marked by NPS and inventoried by RIP in Cycle 4, therefore the culvert and drop inlet count above includes those on ARAN-driven routes, Manually Rated Routes and in Paved Parking Areas.

BICY: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0204 MIDWAY CAMPGROUND LOOP	ROUTE 0204A MIDWAY CAMPGROUND LOOP SPUR	ROUTE 0400 SATINWOOD DRIVE	ROUTE 0401 MAHOGANY DRIVE	ROUTE 0402 OCHOPEE MAINTENANCE FACILITY ROAD	ROUTE 0402A OCHOPEE MAINTENANCE FACILITY ROAD SPUR	UNIT
BARRIER	0	0	0	0	0	0	LINEAR FEET
BOLLARD	0	0	0	0	0	0	LINEAR FEET
BRIDGE	0	0	0	0	0	0	EACH
CABLE	0	0	0	0	0	0	LINEAR FEET
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	0	0	2	0	0	0	EACH
CURB	0	0	0	0	0	0	LINEAR FEET
DROP INLET	0	0	0	0	0	0	EACH
FIRE HYDRANT	0	0	0	0	1	0	EACH
GATE	0	0	1	0	0	0	EACH
GUARD/GUIDE RAIL	0	0	0	0	0	0	LINEAR FEET
GUARD/GUIDE WALL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	6	5	10	2	6	4	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
LOW WATER CROSSING	0	0	0	0	0	0	LINEAR FEET
MILE MARKER	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
OVERPASS	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	0	0	0	0	0	0	LINEAR FEET
PULLOUT	0	0	0	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
SIGN	10	2	15	1	4	2	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TEMPORARY BARRIER	0	0	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	0	LINEAR FEET

Notice: Culverts and drop inlets were marked by NPS and inventoried by RIP in Cycle 4, therefore the culvert and drop inlet count above includes those on ARAN-driven routes, Manually Rated Routes and in Paved Parking Areas.

BICY: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 5029 STATE HIGHWAY 29	ROUTE 5041 HIGHWAY 41 (TAMIAMI TRAIL)	ROUTE 5075 I-75		UNIT
BARRIER	0	0	0		LINEAR FEET
BOLLARD	0	0	0		LINEAR FEET
BRIDGE	0	0	0		EACH
CABLE	0	0	0		LINEAR FEET
CATTLE GUARD	0	0	0		EACH
CULVERT	0	0	0		EACH
CURB	0	0	0		LINEAR FEET
DROP INLET	0	0	0		EACH
FIRE HYDRANT	0	0	0		EACH
GATE	0	0	0		EACH
GUARD/GUIDE RAIL	0	0	0		LINEAR FEET
GUARD/GUIDE WALL	0	0	0		LINEAR FEET
INTERSECTION	0	0	0		EACH
LOW WATER CROSSING	0	0	0		EACH
LOW WATER CROSSING	0	0	0		LINEAR FEET
MILE MARKER	0	0	0		EACH
OVERHEAD SIGN	0	0	0		EACH
OVERPASS	0	0	0		EACH
PARK BOUNDARY	0	0	0		EACH
PAVED DITCH	0	0	0		LINEAR FEET
PULLOUT	0	0	0		EACH
RAILROAD CROSSING	0	0	0		EACH
RETAINING WALL	0	0	0		EACH
SIGN	0	0	0		EACH
STATE BOUNDARY	0	0	0		EACH
TEMPORARY BARRIER	0	0	0		LINEAR FEET
TRAFFIC LIGHT	0	0	0		EACH
TUNNEL	0	0	0		EACH
TURNOUT	0	0	0		LINEAR FEET

Notice: Culverts and drop inlets were marked by NPS and inventoried by RIP in Cycle 4, therefore the culvert and drop inlet count above includes those on ARAN-driven routes, Manually Rated Routes and in Paved Parking Areas.

BICY: STRUCTURE LIST

ROUTE NUMBER	FUNCTIONAL CLASS	MILEPOST START	MILEPOST END	FEATURE	STRUCTURE NUMBER
0	0	0	0	0	0

No data available for this section.

Big Cypress National Preserve

Section 9
Park Route Maintenance Features
Road Logs

BICY: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0100: DONA DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 5041
0.000	0.000	INTERSECTION	RIGHT	ROUTE 5041 (HIGHWAY 41 (TAMIAMI TRAIL))
0.000	0.000	SIGN	RIGHT	REGULATORY, STOP
0.000	0.000	INTERSECTION	LEFT	ROUTE 5041 (HIGHWAY 41 (TAMIAMI TRAIL))
0.038	0.038	INTERSECTION	RIGHT	UNPAVED ROUTE
0.044	0.044	SIGN	RIGHT	GUIDE, U.S. FEE AREA
0.044	0.044	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.044	0.044	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.044	0.044	SIGN	RIGHT	GUIDE, DUMP STATION BOAT LANDING
0.052	0.052	INTERSECTION	RIGHT	UNPAVED ROUTE
0.071	0.071	SIGN	RIGHT	GUIDE, PROTECTED AREA ALL PLANT, ANIMAL AND CULTURAL RESOURCES PROTECTED OR REGULATED.
0.071	0.071	SIGN	RIGHT	WARNING, ALLIGATOR SAFETY
0.577	0.577	SIGN	RIGHT	REGULATORY, KEEP RIGHT
0.614	0.614	INTERSECTION	LEFT	ROUTE 0100 (DONA DRIVE)
0.614	0.614	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.670	0.670	INTERSECTION	N/A	ROUTE 0100 (DONA DRIVE)
0.670	0.670	ROUTE END	N/A	TO END OF PAVEMENT

BICY: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0102: LOOP ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM PARK BOUNDARY
0.000	0.000	INTERSECTION	N/A	ROUTE 0102 (LOOP ROAD)
0.000	0.000	PARK BOUNDARY	N/A	
0.046	0.046	SIGN	RIGHT	REGULATORY, SPEED LIMIT 40
0.081	0.081	SIGN	RIGHT	GUIDE, PROTECTED AREA ALL PLANT, ANIMAL AND CULTURAL RESOURCES PROTECTED OR REGULATED.
0.081	0.081	SIGN	RIGHT	WARNING, ALLIGATOR SAFETY
0.181	0.181	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.365	0.365	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.936	0.936	CULVERT	N/A	
1.344	1.344	SIGN	RIGHT	REGULATORY, SPEED LIMIT 40
1.345	1.345	SIGN	RIGHT	REGULATORY, SPEED LIMIT 40
1.562	1.562	CULVERT	N/A	
1.662	1.662	CULVERT	N/A	
1.750	1.750	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
1.750	1.756	GUARD/GUIDE WALL	RIGHT	
1.750	1.750	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.750	1.755	GUARD/GUIDE WALL	LEFT	
1.752	1.754	BRIDGE	N/A	
1.756	1.756	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
1.756	1.756	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.176	2.182	GUARD/GUIDE WALL	LEFT	
2.176	2.182	GUARD/GUIDE WALL	RIGHT	
2.176	2.176	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.176	2.176	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
2.177	2.181	BRIDGE	N/A	
2.182	2.182	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
2.182	2.182	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.343	2.343	CULVERT	N/A	
2.456	2.456	CULVERT	N/A	
2.482	2.482	CULVERT	N/A	
2.594	2.599	GUARD/GUIDE WALL	RIGHT	
2.594	2.599	GUARD/GUIDE WALL	LEFT	
2.594	2.598	BRIDGE	N/A	

BICY: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0102: LOOP ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
2.594	2.594	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
2.594	2.594	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.598	2.598	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.600	2.600	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
2.660	2.660	CULVERT	N/A	
2.841	2.841	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.842	2.842	SIGN	RIGHT	REGULATORY, SPEED LIMIT 40
2.897	2.897	SIGN	LEFT	GUIDE, CAMPING
2.897	2.897	SIGN	RIGHT	GUIDE, CAMPING
2.897	2.897	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
2.901	2.901	INTERSECTION	RIGHT	UNPAVED ROUTE
2.922	2.922	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.957	2.957	SIGN	RIGHT	REGULATORY, REDUCED SPEED 15
2.977	2.977	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.060	3.060	INTERSECTION	RIGHT	UNPAVED ROUTE
3.066	3.066	CULVERT	N/A	
3.134	3.134	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.153	3.153	SIGN	RIGHT	REGULATORY, REDUCED SPEED 15
3.153	3.153	SIGN	RIGHT	REGULATORY, SPEED LIMIT 40
3.328	3.328	CULVERT	N/A	
3.402	3.402	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
3.402	3.408	GUARD/GUIDE WALL	RIGHT	
3.402	3.408	GUARD/GUIDE WALL	LEFT	
3.402	3.402	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.402	3.407	BRIDGE	N/A	
3.406	3.406	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.408	3.408	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
3.615	3.615	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.643	3.643	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.729	3.729	INTERSECTION	LEFT	UNPAVED ROUTE
3.732	3.732	SIGN	LEFT	GUIDE, CAMPING
3.733	3.733	SIGN	RIGHT	GUIDE, CAMPING
3.780	3.780	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.906	3.906	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT

BICY: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0102: LOOP ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
3.958	3.958	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.252	4.252	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.272	4.272	FIRE HYDRANT	RIGHT	
4.528	4.528	SIGN	RIGHT	REGULATORY, REDUCED SPEED 15
4.528	4.528	SIGN	RIGHT	REGULATORY, SPEED LIMIT 40
4.547	4.547	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.794	4.794	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.814	4.814	SIGN	RIGHT	REGULATORY, REDUCED SPEED 15
5.014	5.014	CULVERT	N/A	
5.019	5.019	SIGN	RIGHT	REGULATORY, REDUCED SPEED 15
5.074	5.074	SIGN	RIGHT	WARNING, SLOW CHILDREN
5.142	5.142	SIGN	RIGHT	GUIDE, NATURE TRAIL
5.143	5.143	SIGN	RIGHT	WARNING, UNABLE TO READ FROM VIDEO
5.150	5.150	SIGN	LEFT	REGULATORY, LOOP ROAD
5.181	5.181	SIGN	RIGHT	WARNING, SLOW CHILDREN
5.187	5.187	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
5.210	5.210	INTERSECTION	N/A	ROUTE 0102 (LOOP ROAD) UNPAVED SECTION
5.210	5.210	ROUTE END	N/A	TO END OF LOOP AT ROUTE 5041

BICY: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0103: MIDWAY CAMPGROUND ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 5041
0.000	0.000	SIGN	RIGHT	REGULATORY, STOP
0.000	0.000	INTERSECTION	LEFT	ROUTE 5041 (HIGHWAY 41 (TAMIAMI TRAIL))
0.000	0.000	INTERSECTION	RIGHT	ROUTE 5041 (HIGHWAY 41 (TAMIAMI TRAIL))
0.034	0.034	SIGN	RIGHT	REGULATORY, STOP
0.035	0.035	GATE	N/A	
0.037	0.037	INTERSECTION	LEFT	ROUTE 0204 (MIDWAY CAMPGROUND LOOP)
0.038	0.038	SIGN	LEFT	REGULATORY, DO NOT ENTER
0.041	0.041	SIGN	LEFT	REGULATORY, DO NOT ENTER
0.056	0.056	SIGN	RIGHT	REGULATORY, STOP
0.058	0.058	INTERSECTION	LEFT	ROUTE 0204 (MIDWAY CAMPGROUND LOOP)
0.063	0.063	GATE	N/A	
0.096	0.096	SIGN	RIGHT	REGULATORY, STOP
0.100	0.100	INTERSECTION	LEFT	ROUTE 5041 (HIGHWAY 41 (TAMIAMI TRAIL))
0.100	0.100	INTERSECTION	RIGHT	ROUTE 5041 (HIGHWAY 41 (TAMIAMI TRAIL))
0.100	0.100	ROUTE END	N/A	TO ROUTE 5041

BICY: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0104: SEAGRAPE DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 5041
0.000	0.000	SIGN	RIGHT	REGULATORY, STOP
0.000	0.000	INTERSECTION	LEFT	ROUTE 5041 (HIGHWAY 41 (TAMIAMI TRAIL))
0.000	0.000	INTERSECTION	RIGHT	ROUTE 5041 (HIGHWAY 41 (TAMIAMI TRAIL))
0.030	0.030	SIGN	RIGHT	GUIDE, PROTECTED AREA ALL PLANT, ANIMAL AND CULTURAL RESOURCES PROTECTED OR REGULATED. AREA PROTEGIDA TODAS
0.030	0.030	SIGN	RIGHT	WARNING, ALLIGATOR WARNING
0.061	0.061	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.509	0.509	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.568	0.568	INTERSECTION	LEFT	ROUTE 0104 (SEAGRAPE DRIVE)
0.579	0.579	SIGN	LEFT	WARNING, UNABLE TO READ FROM VIDEO
0.586	0.586	INTERSECTION	LEFT	ROUTE 0104 (SEAGRAPE DRIVE)
0.586	0.586	INTERSECTION	RIGHT	ROUTE 0104 (SEAGRAPE DRIVE)
0.590	0.590	ROUTE END	N/A	TO END OF LOOP

BICY: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0201: SOUTH REST AREA ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 5075 (I-75)
0.000	0.000	INTERSECTION	LEFT	ROUTE 5075 (I-75)
0.000	0.000	INTERSECTION	N/A	ROUTE 5075 (I-75)
0.046	0.245	GUARD/GUIDE RAIL	RIGHT	
0.185	0.248	CURB-AND-GUTTER	RIGHT	
0.225	0.225	SIGN	LEFT	REGULATORY, NO PARKING ANY TIME
0.260	0.260	INTERSECTION	RIGHT	ROUTE 0905 (SOUTH REST AREA ACCESS PARKING)
0.284	0.296	CURB-AND-GUTTER	RIGHT	
0.285	0.389	GUARD/GUIDE RAIL	RIGHT	
0.377	0.377	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
0.600	0.600	INTERSECTION	LEFT	ROUTE 5075 (I-75)
0.600	0.600	INTERSECTION	N/A	ROUTE 5075 (I-75)
0.600	0.600	ROUTE END	N/A	TO ROUTE 5075 (I-75)

BICY: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0202: NORTH REST AREA ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 5075 (I-75)
0.000	0.000	INTERSECTION	LEFT	ROUTE 5075 (I-75)
0.000	0.000	INTERSECTION	N/A	ROUTE 5075 (I-75)
0.062	0.062	SIGN	LEFT	GUIDE, NO SECURITY
0.062	0.062	SIGN	LEFT	GUIDE, RECREATION ACCESS
0.074	0.200	GUARD/GUIDE RAIL	RIGHT	
0.159	0.159	INTERSECTION	LEFT	ROUTE 0906A (NORTH REST AREA ACCESS PARKING A)
0.173	0.173	SIGN	LEFT	REGULATORY, CARS TRUCKS RV'S
0.176	0.271	CURB-AND-GUTTER	LEFT	
0.194	0.194	SIGN	LEFT	REGULATORY, ONE WAY
0.198	0.198	SIGN	RIGHT	REGULATORY, ONE WAY
0.198	0.198	SIGN	RIGHT	REGULATORY, ONE WAY
0.206	0.206	INTERSECTION	RIGHT	ROUTE 0906B (NORTH REST AREA ACCESS PARKING B)
0.213	0.235	CURB	RIGHT	
0.266	0.266	INTERSECTION	RIGHT	ROUTE 0906B (NORTH REST AREA ACCESS PARKING B)
0.272	0.358	CURB-AND-GUTTER	LEFT	
0.300	0.324	CURB	RIGHT	
0.330	0.330	INTERSECTION	RIGHT	ROUTE 0906B (NORTH REST AREA ACCESS PARKING B)
0.340	0.529	GUARD/GUIDE RAIL	RIGHT	
0.357	0.357	SIGN	LEFT	REGULATORY, DO NOT ENTER
0.357	0.357	SIGN	LEFT	REGULATORY, ONE WAY
0.364	0.364	INTERSECTION	LEFT	ROUTE 0906A (NORTH REST AREA ACCESS PARKING A)
0.365	0.365	SIGN	LEFT	REGULATORY, ONE WAY
0.469	0.469	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
0.720	0.720	INTERSECTION	LEFT	ROUTE 5075 (I-75)
0.720	0.720	INTERSECTION	N/A	ROUTE 5075 (I-75)
0.720	0.720	ROUTE END	N/A	TO ROUTE 5075 (I-75)

BICY: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0204: MIDWAY CAMPGROUND LOOP

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0103 (MIDWAY CAMPGROUND ROAD) AT MP 0.04 (ON LEFT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0103 (MIDWAY CAMPGROUND ROAD)
0.000	0.000	INTERSECTION	N/A	ROUTE 0103 (MIDWAY CAMPGROUND ROAD)
0.005	0.005	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.005	0.005	SIGN	RIGHT	GUIDE, U.S. FEE AREA
0.018	0.018	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.030	0.030	INTERSECTION	LEFT	ROUTE 0204A (MIDWAY CAMPGROUND LOOP SPUR)
0.044	0.044	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.318	0.318	SIGN	LEFT	REGULATORY, DO NOT ENTER
0.321	0.321	INTERSECTION	LEFT	ROUTE 0204A (MIDWAY CAMPGROUND LOOP SPUR)
0.329	0.329	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.331	0.331	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.346	0.346	SIGN	RIGHT	REGULATORY, STOP
0.346	0.346	SIGN	LEFT	REGULATORY, STOP
0.350	0.350	INTERSECTION	LEFT	ROUTE 0103 (MIDWAY CAMPGROUND ROAD)
0.350	0.350	INTERSECTION	RIGHT	ROUTE 0103 (MIDWAY CAMPGROUND ROAD)
0.350	0.350	SIGN	RIGHT	REGULATORY, DO NOT ENTER
0.350	0.350	ROUTE END	N/A	TO ROUTE 0103 (MIDWAY CAMPGROUND ROAD) AT MP 0.06 (ON LEFT)

BICY: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0204A: MIDWAY CAMPGROUND LOOP SPUR

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0204 (MIDWAY CAMPGROUND LOOP) AT MP 0.03 (ON LEFT)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0204 (MIDWAY CAMPGROUND LOOP)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0204 (MIDWAY CAMPGROUND LOOP)
0.012	0.012	INTERSECTION	LEFT	ROUTE 0910 (MIDWAY CAMPGROUND PARKING)
0.025	0.025	SIGN	RIGHT	REGULATORY, STOP
0.029	0.029	INTERSECTION	LEFT	ROUTE 0204 (MIDWAY CAMPGROUND LOOP)
0.029	0.029	INTERSECTION	RIGHT	ROUTE 0204 (MIDWAY CAMPGROUND LOOP)
0.030	0.030	SIGN	N/A	GUIDE, TENT CAMPING ONLY
0.030	0.030	ROUTE END	N/A	TO ROUTE 0204 (MIDWAY CAMPGROUND LOOP) AT MP 0.32 (ON LEFT)

BICY: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0400: SATINWOOD DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 5041
0.000	0.000	INTERSECTION	LEFT	ROUTE 5041 (HIGHWAY 41 (TAMIAMI TRAIL))
0.000	0.000	INTERSECTION	RIGHT	ROUTE 5041 (HIGHWAY 41 (TAMIAMI TRAIL))
0.002	0.002	SIGN	RIGHT	REGULATORY, STOP
0.014	0.014	SIGN	RIGHT	GUIDE, LIGHTS ON?
0.021	0.021	SIGN	N/A	REGULATORY, STOP
0.021	0.021	GATE	N/A	
0.021	0.021	SIGN	N/A	REGULATORY, STOP
0.022	0.022	SIGN	N/A	REGULATORY, STOP
0.022	0.022	SIGN	N/A	REGULATORY, STOP
0.026	0.026	INTERSECTION	RIGHT	ROUTE 0900B (EAST HEADQUARTERS PARKING B)
0.038	0.038	SIGN	RIGHT	GUIDE, VISITORS
0.051	0.051	INTERSECTION	RIGHT	ROUTE 0900B (EAST HEADQUARTERS PARKING B)
0.110	0.110	INTERSECTION	LEFT	ROUTE 0105 (MOUNT OCHOPEE ROAD)
0.131	0.131	CULVERT	N/A	
0.170	0.170	INTERSECTION	LEFT	ROUTE 0402A (OCHOPEE MAINTENANCE FACILITY ROAD SPUR)
0.183	0.183	SIGN	RIGHT	REGULATORY, STOP
0.201	0.201	CULVERT	N/A	
0.221	0.221	SIGN	RIGHT	GUIDE, DELIVERIES
0.226	0.226	SIGN	RIGHT	REGULATORY, STOP
0.228	0.228	INTERSECTION	LEFT	ROUTE 0402 (OCHOPEE MAINTENANCE FACILITY ROAD)
0.228	0.228	INTERSECTION	RIGHT	ROUTE 0402 (OCHOPEE MAINTENANCE FACILITY ROAD)
0.232	0.232	SIGN	RIGHT	REGULATORY, STOP
0.261	0.261	SIGN	RIGHT	GUIDE, AUTHORIZED PERSONNEL ONLY
0.261	0.261	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.261	0.261	SIGN	RIGHT	GUIDE, U.S. PROPERTY NO TRESPASSING
0.299	0.299	INTERSECTION	LEFT	ROUTE 0401 (MAHOGANY DRIVE)
0.325	0.325	SIGN	RIGHT	GUIDE, SATINWOOD DRIVE
0.482	0.482	INTERSECTION	LEFT	ROUTE 0908 (OCHOPEE RANGER STATION PARKING)
0.550	0.550	ROUTE END	N/A	TO END

BICY: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0401: MAHOGANY DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0400 (SATINWOOD DRIVE) AT MP 0.3 (ON LEFT)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0400 (SATINWOOD DRIVE)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0400 (SATINWOOD DRIVE)
0.018	0.018	SIGN	RIGHT	GUIDE, MAHOGANY DRIVE
0.230	0.230	ROUTE END	N/A	TO END

BICY: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0402: OCHOPEE MAINTENANCE FACILITY ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0900A
0.000	0.000	INTERSECTION	N/A	ROUTE 0900A (WEST HEADQUARTERS PARKING A)
0.025	0.025	SIGN	RIGHT	GUIDE, DELIVERIES
0.032	0.032	INTERSECTION	LEFT	ROUTE 0900A (WEST HEADQUARTERS PARKING A)
0.037	0.037	FIRE HYDRANT	RIGHT	
0.068	0.068	SIGN	RIGHT	REGULATORY, STOP
0.072	0.072	INTERSECTION	RIGHT	ROUTE 0400 (SATINWOOD DRIVE)
0.072	0.072	INTERSECTION	LEFT	ROUTE 0400 (SATINWOOD DRIVE)
0.080	0.080	SIGN	RIGHT	REGULATORY, STOP
0.116	0.116	INTERSECTION	LEFT	ROUTE 0402A (OCHOPEE MAINTENANCE FACILITY ROAD SPUR)
0.131	0.131	SIGN	RIGHT	GUIDE, AUTHORIZED PERSONNEL ONLY
0.138	0.138	INTERSECTION	N/A	ROUTE 0907 (OCHOPEE MAINTENANCE FACILITY PARKING)
0.140	0.140	ROUTE END	N/A	TO ROUTE 0907

BICY: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0402A: OCHOPEE MAINTENANCE FACILITY ROAD SPUR

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0400 (SATINWOOD DRIVE) AT MP 0.17 (ON LEFT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0400 (SATINWOOD DRIVE)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0400 (SATINWOOD DRIVE)
0.005	0.005	SIGN	RIGHT	GUIDE, MAINTENANCE AREA DELIVERIES
0.041	0.041	SIGN	RIGHT	REGULATORY, YIELD
0.050	0.050	INTERSECTION	LEFT	ROUTE 0402 (OCHOPEE MAINTENANCE FACILITY ROAD)
0.050	0.050	INTERSECTION	RIGHT	ROUTE 0402 (OCHOPEE MAINTENANCE FACILITY ROAD)
0.050	0.050	ROUTE END	N/A	TO ROUTE 0402 (OCHOPEE MAINTENANCE FACILITY ROAD) AT MP 0.12 (ON LEFT)

Big Cypress National Preserve

Section 10
Appendix

APPENDIX A: GLOSSARY OF TERMS AND ABBREVIATIONS

TERM OR ABBREVIATION	DESCRIPTION OR DEFINITION
AADT	(Annual Average Daily Traffic) The estimate of typical daily traffic on a road segment for all days of the week over the period of one year.
CRS	Condition Rating Sheets. (Section 5)
Excellent	Excellent rating with an index value of 95 or greater
Fair	Fair rating with an index value from 61 to 84
Func. Class	Funtional Classification (see Route ID, Section 4)
Good	Good rating with an index value from 85 to 94
IRI	International Roughness Index
Lane Width	Width from road centerline to fogline, or from centerline to edge-of-pavement when no fogline exists
MRR	Manually Rated Route
N/A	Not Applicable
NC	Not Collected
Paved Width	Width from edge-of-pavement to edge-of-pavement
PCR	Pavement Condition Rating (Appendix B, Section 10)
Poor	Poor Rating with an index value of 60 or less
RCI	Roughness Condition Index
SADT	(Seasonal Annual Daily Traffic) The AADT adjusted to represent just the period of the year containing 80 percent of the total annual traffic.
SCR	Surface Condition Rating (Appendix B, Section 10)
Shoulder Width	Distance from fogline to hinge point, or if no fogline, from edge-of-pavement to hinge point.

APPENDIX B: DESCRIPTION OF RATING SYSTEM

A numerical roadway rating system is used to describe the overall condition of the paved roadways and paved parking areas. In this system, a numerical rating between 0 and 100 is ascribed to each 0.02 miles of road. This numerical rating is called a Pavement Condition Rating (PCR). A "perfect" road, newly constructed with no surface distresses and a smooth surface, would be assigned a PCR rating of 100. Based on the type, severity, and extent of surface distresses points are deducted from 100 to arrive at the final PCR.

Data is collected on the following distresses and conditions:

- **Alligator Cracking** - a series of interconnecting cracks resembling alligator skin or chicken wire, which can occur anywhere in the lane.
- **Longitudinal Cracking** - cracks which are parallel to the pavement centerline or asphalt lay-down direction.
- **Transverse Cracking** - cracks perpendicular to the pavement centerline.
- **Pothole (patch)** - a bowl-shaped hole in the pavement surface. May be patched or not.
- **Rutting** - surface depressions in the wheel paths.
- **Roughness** is collected as International Roughness Index (IRI) and is used in the PCR formula. Roughness is measured in inches of vertical displacement of the vehicle per mile traveled.

A Distress Rating Index value is calculated for each of the individual distresses at the 0.02 mile, or every 105.6 feet.

Calculation of Index Values

Note: Index values < 0 default to 0. Index values > 100 default to 100.
For all indices, a higher value indicates a better road condition, and a lower value indicates a poorer road condition.
All severity protocols are taken from the SHRP Distress Identification Manual.

Condition Ranges for all Indices

Excellent	>=95
Good	>=85 and <95
Fair	>60 and <85
Poor	<=60

Alligator Crack Index

AC_INDEX = 100 – 40 * [(%LOW / 70) + (%MED / 30) + (%HI / 10)]

Where :

The values %LOW, %MED and %HI describe the percent of the total WX measured area that is affected by alligator cracking of each severity level. These values range from ≥ 0 to ≤ 100.

%LOW = (Total square area WX measured low severity alligator cracking) / (Section length * WX measured lane width)

%MED = (Total square area WX measured medium severity alligator cracking) / (Section length * WX measured lane width)
%HI = (Total square area WX measured high severity alligator cracking) / (Section length * WX measured lane width)

The denominators 70, 30, and 10 are the maximum allowable extents for the numerator value in the same units. For example, low severity alligator cracking totaling 70% of the measured section area would alone fail that section of road for this index.

The threshold for failure for this index is AC_INDEX = 60.

Severity Levels:

Low severity alligator cracking describes an area of cracks with no or only a few connecting cracks; cracks are not spalled (cracked, broken, chipped, frayed along the cracks); pumping (water seepage from beneath the pavement through the cracks) is not evident. Any sealed alligator cracks are low severity alligator cracks, as long as the sealant is still in good condition. If the sealant has reopened, and the crack is visible and can be measured, the crack severity is assigned according to that measurement.

Medium severity alligator cracking describes an area of interconnected cracks forming a complete pattern; cracks may be slightly spalled; pumping is not evident.

High severity alligator cracking describes an area of moderately or severely spalled interconnected cracks forming a complete pattern; pieces may move when subjected to traffic; pumping may be evident.

Longitudinal Crack Index

LC_INDEX = 100 – 40 * [(%LOW / 350) + (%MED / 200) + (%HI / 75)]

Where:

The values %LOW, %MED and %HI describe the length of longitudinal cracking of each severity as a percent of the section length. These values are ≥ 0 and can exceed 100.

%LOW = (Total linear feet WX measured low severity longitudinal cracking) / (Section length in linear feet)
%MED = (Total linear feet WX measured medium severity longitudinal cracking) / (Section length in linear feet)
%HI = (Total linear feet WX measured high severity longitudinal cracking) / (Section length in linear feet)

The denominators 350, 200, and 75 are the maximum allowable extents for the numerator value in the same units. For example, medium severity longitudinal cracking with a total length that is 200% of the length of the section would alone fail that section of road for this index.

The threshold for failure for this index is LC_INDEX = 60.

Severity Levels:

Low severity longitudinal cracks have a mean width ≤ ¼", or are sealed cracks of indeterminate width whose sealant material is in good condition.

Medium severity longitudinal cracks have a mean width > ¼" and ≤ ¾".

High severity longitudinal cracks have a mean width > ¾".

Transverse Crack Index

TC_INDEX = 100 – {[20 * ((LOW / 15.1) + (MED / 7.5))] + [40 * (HI / 1.9)]}

Where:

The values LOW, MED and HI describe a count of the total number of transverse cracks of each severity level, where one transverse crack unit is equal to the WX measured lane width. These values are ≥ 0.

LOW = (Total linear feet WX measured low severity transverse cracking) / (WX measured lane width)
MED = (Total linear feet WX measured medium severity transverse cracking) / (WX measured lane width)
HI = (Total linear feet WX measured high severity transverse cracking) / (WX measured lane width)

The denominators 15.1, 7.5, and 1.9 are the maximum allowable extents for the numerator value in the same units. For example, high severity transverse cracking with a total length that amounts to 1.9 times the WX measured lane width would alone fail that section of road for this index.

The threshold for failure for this index is TC_INDEX = 60.

Severity Levels:

Low severity transverse cracks have a mean width ≤ ¼", or are sealed cracks of indeterminate width whose sealant material is in good condition.

Medium severity transverse cracks have a mean width > ¼" and ≤ ¾".

High severity transverse cracks have a mean width > ¾".

Patching Index

PATCH_INDEX = 100 – 40 * (%PATCHING / 80)

Where:

The value %PATCHING describes the percent of the total WX measured area that is affected by patching. This value ranges from ≥ 0 to ≤ 100.

%PATCHING = (Total area WX measured patching) / (Section length * WX measured lane width)

The denominator 80 is the maximum allowable extent for the numerator value in the same units. Patching totaling 80% or more of the measured section area fails a section of road for this index.

The threshold for failure for this index is PATCH_INDEX = 60.

There are no severity levels for patching.

Rutting Index

RUT_INDEX = 100 – 40 * [(%LOW / 160) + (%MED / 80) + (%HI / 40)]

Where:

10 ARAN rut depth measurements are taken per full .02 section for each of 2 wheel paths (left and right), resulting in a total of 20 measurements taken for both wheel paths. The values %LOW, %MED and %HI describe the number of ARAN rut depth measurements of both wheel paths in the section whose values are of each severity level, calculated as a percentage of the total number of ARAN rut depth measurements taken for a single wheel path in the section. These values range from ≥ 0 to ≤ 200.

%LOW = (Total number of ARAN measured low severity ruts in section for both wheel paths) / (Total number of ARAN rut measurements in section for a single wheel path)
%MED = (Total number of ARAN measured medium severity ruts in section for both wheel paths) / (Total number of ARAN rut measurements in section for a single wheel path)
%HI = (Total number of ARAN measured high severity ruts in section for both wheel paths) / (Total number of ARAN rut measurements in section for a single wheel path)

The denominators 160, 80, and 40 are the maximum allowable extents for the numerator value in the same units. For example, low severity ruts recorded in 16 of the 20 total readings (or 160% of a full wheel path's worth of readings) for a full .02 section would fail that section for this index.

The threshold for failure for this index is RUT_INDEX = 60.

Severity Levels:

Ruts with an ARAN measured depth < 0.20" are not included in the distress calculations.

Low severity ruts have an ARAN measured depth ≥ 0.20" and ≤ 0.49".

Medium severity ruts have an ARAN measured depth ≥ 0.50" and ≤ 0.99".

High severity ruts have an ARAN measured depth ≥ 1.00".

Roughness Condition Index

RCI **= 32 * [5 * (2.718282 ^ (-0.0041 * AVG IRI))]**

Where:

The value AVG IRI describes the average value of the Left IRI and Right IRI measurements for the section. This value can range from approximately 40 to over 1000.

AVG IRI = (ARAN measured Left IRI + ARAN measured Right IRI) / 2

There is no applicable threshold for failure for this index.

NOTE: Collection of roughness data is dependent on the data collection vehicle traveling at a minimum speed of 12 mph. In the event that a route cannot be safely traveled at this minimum speed, and results in no roughness data, the SCR only will be calculated.

Surface Condition Rating Index

SCR = 100 - [(100 - AC_INDEX) + (100 - LC_INDEX) + (100 - TC_INDEX) + (100 - PATCH_INDEX) + (100 - RUT_INDEX)]

Where:

See above for determinations of AC_INDEX, LC_INDEX, TC_INDEX, PATCH_INDEX and RUT_INDEX.

The threshold for failure for this index is SCR = 60.

Pavement Condition Rating Index Asphaltic Concrete Pavement (AS)

PCR = (0.60 * SCR) + (0.40 * RCI)

Where:

See above for determinations of SCR and RCI.

The values 0.60 and 0.40 function as weights within the formula.

If SCR equals zero (which means that the road surface condition is very poor), then the formula simply reduces to: PCR = 0.40 * RCI.

If RCI equals zero (which means that this value was not available for some reason), then the formula becomes: PCR = SCR.

The threshold for failure for this index is PCR = 60.

Pavement Condition Rating Index Portland Cement Concrete Pavement (CO)

Concrete PCR = -0.0012(IRI^2)+0.0499(IRI)+99.542

Where:

The threshold for failure for this index is PCR = 60.

Parking Lot and Manually Rated Road Condition Rating

Surface Condition Distresses- Chip Seal:

Raveling – loss of surface rock chips revealing previous surface
Bleeding – asphalt or tar is bleeding through to the surface where surface looks slick with asphalt
Rutting
Potholes/Patching

Ratings - Chip Seal:

Excellent – None of the surface affected by the above (recently constructed)
Good – Less than 10% of surface affected by the above
Fair – Between 10% and 40% of surface affected by the above
Poor – More than 40% of surface affected by the above

Surface Condition - Asphalt:

Cracking of any type
Rutting
Potholes/Patching

Ratings - Asphalt:

Excellent – None of the surface affected by the above (recently constructed)
Good – Less than 10% of surface affected by the above
Fair – Between 10% and 40% of surface affected by the above
Poor – More than 40% of surface affected by the above

Index Values of Visual Ratings on Parking Lots and Manually Rated Roads

Under Construction 100

Excellent 97

Good 90

Fair 73

Poor 45

APPENDIX C: GENERAL INFORMATION ON RIP SYSTEMS

DMI (Distance Measuring Instrument)

The DMI (Distance Measuring Instrument) obtains road length measurements that are highly accurate (to 0.001 miles). The DMI is connected to the outside of the rear wheel on the driver's side, and is wired into the antilock braking system (ABS). The number of pulses recorded for each wheel rotation by the ABS is registered by the DMI, which transmits a measurement of distance traveled to the processing computers in the ARAN. The DMI distance measurements are the foundation to which all the other subsystems are tied.

Digital Image Information

All images collected in Cycle 4 are digital images in .jpg format. These images provide adequate resolution for identifying sign and feature inventories and pavement evaluations. The images can be viewed with an interactive software program called VisiData. Each park will receive a copy of the VisiData program. Cycle 4 data, as well as Cycle 3 data, can be viewed using the Visi-Data software program. This program is a data presentation and analysis tool that can be accessed either at the individual park, park region or at NPS headquarters. The data is organized in a hierarchical manner and presented in tabular and graphical formats. The user is able to perform queries and drill down through the data to find the particular information they are looking for. Associated digital right-of-way images from either the LAN, USB port, individual DVD can be presented along with GPS locations.

Right-of-way (ROW) Video

Three digital cameras are mounted above the vehicle's windshield that point directly forward and slightly to the left and right. These cameras each collect one image every 0.002 miles (10.56 feet) in the primary-direction lane, to give a panoramic field-of-view of about 160 degrees. (Forward-facing video from the center camera only is collected in the opposite-direction lane of travel.)

If data collection speed exceeds 35-40 mph, the network and storage computers may become overwhelmed and may begin to drop individual video frames. Occasional common video quality issues include sun glare and rapid changes between sunlight and shadow. The camera system is equipped with auto risers that sometimes cannot adjust quickly enough to collect optimal video images.

FHWA ARAN CAMERA SPECIFICATIONS **Forward-Facing Cameras (ROW)**	
Focal length	10 mm
Chip size	8.71mm X 6.90mm
Naming convention of each image	chainage.jpg
Image resolution	1300 X 1030
Image pixel size	depends on distance
Relative position of the GPS unit to each camera	2.104 meters from front-center rutbar to camera
The ARAN has a lever arm setting which tells the POS system where the center of the rutbar is with respect to the GPS antennas.	

Pavement Video

Pavement video images are collected by the data collection vehicle to use in later analysis to determine extents and severities of different types of pavement distress. The pavement in the primary-direction road lane is filmed continuously by two analog cameras attached to booms extended from the rear of the ARAN on the left and right sides. Strobe lights fire synchronously with the opening of the camera shutters to eliminate shadows and motion blur. The images from the two cameras overlap, and are stitched together in real time to create a continuous strip image of the pavement in the primary direction lane. This strip has a maximum width of 3.0 meters (actual width depends on pavement camera calibration) and is sectioned for ease of file management every 0.010 miles (52.8 feet).

The cameras both have a resolution of 640 x 480, making the threshold of visible pavement cracks about 3 mm. Because the cameras are triggered by time and not distance traveled, this subsystem requires a minimum operating speed of 6 mph, otherwise images are taken on top of one another and result in checkered or black pavement video.

FHWA ARAN CAMERA SPECIFICATIONS **Pavement Cameras**	
Image Pixel size	3.135 mm /side
Image Resolution	640 X 480
Area that images cover	1.5 m X 1.2 m
Full color or grayscale	grayscale
Vehicle speed limitations	80km/h
Aperture setting	Auto-iris
Exposure setting	1/50000

FHWA ARAN GPS & Inertial System

GPS is collected by a NovAtel MiLLenium, 12 channel, dual frequency L1/L2, DGPS ready receiver with a MiLLennium 502 GPS antenna. An OmniStar 3000 LR provides real-time differential correction. An Applanix POS/LV is the inertial system that fills in when GPS is unavailable. The antenna is mounted in the center of the roof, slightly toward the rear of the vehicle, but a lever arm is applied to place the operational location of GPS recording at the center of the rutbar on the front bumper of the vehicle. Expected accuracy under ideal conditions is sub meter.

GPS Collected on Manually Rated Routes

Parking areas and roads that are not fully drivable with the ARAN data collection vehicle are collected manually by field technicians. GPS is collected for these routes using GPS field data collection utilizes Trimble ProXRS or ProXH Receivers matched with Trimble TSC1 or Ranger handheld Data Loggers, connected to Trimble Hurricane Antennas giving sub meter accuracy in ideal conditions. This collection equipment has varied as technology has improved over the years of RIP data collection. Some GPS files collected as early as 1998 have been verified for accuracy and perpetuated through the current cycle of data collection.

GPS SHAPEFILES

Type of Route and Collection		
Shape Filename		
Roads driven by ARAN	Line	park_road_04.dbf/.shp/.shx
Parking Areas	Polygon	park_pkg_04.dbf/.shp/.shx
Roads Manually Rated as Lines (not in every park)	Line	park_mrl_04.dbf/.shp/.shx
Roads Manually Rated as Polygons (not in every park)	Polygon	park_mrp_04.dbf/.shp/.shx

• Datum for all GPS shapefiles is LL_WGS84_DD (Latitude Longitude _World Geodetic Survey 1984_Decimal Degrees)
• In filename, “park” is NPS four-letter alphabetic code.
• The source for route data required for data processing and report production is the PARK_RouteInfo.mdb.

Condition Photos Taken of Manually Rated Roads

One or more digital photos are taken by Canon Power Shot G2 4.0 Mega Pixel digital camera for each manually rated route in a National Park. They are stored in .jpg format named with the four-letter NPS park alphabetic code, route number, and the photo number assigned by the camera. For example, YOSE_0900_4434.jpg is the filename of the photo named 4434 by the camera that was taken of Yosemite National Park route 0900.

Scenic Photos

Scenic photos are taken by Canon Power Shot G2 4.0 Mega Pixel digital camera throughout each park and are named with the four-letter NPS park alphabetic code and the count of the photo taken in that park. For example, GRCA003.jpg is the filename of the third scenic photo taken in Grand Canyon National Park. The number of scenic photos provided will vary between parks.

APPENDIX D: METADATA

FHWA – NPS Road Inventory Program Cycle 4 Metadata

The purpose of these sheets is to provide users of the Road Inventory Program's data with data accuracies and tolerances to help users define ways in which the RIP data can and cannot be used. For further information on specifics of data collection equipment, data collection procedures, equipment calibrations, or quality control/quality assurance procedures, please contact Jim Kennedy, Project Manager, Data Quality Assurance, at 720-963-3560 or jim.kennedy@fhwa.dot.gov.

All Road Inventory Program data undergoes quality control and quality assurance testing. This document represents the known data accuracies and tolerances for the data collection equipment, data collection procedures, and data processing procedures currently in use. Many additional tests conducted on the park databases during the quality assurance phase to ensure data integrity are not listed as a part of this document. Before it is delivered, a park database undergoes a large set of table design consistency, field data format consistency, data completeness, uniqueness of key fields, data reasonableness, acceptable data range, within-field data consistency, between-field data consistency, and between-table data consistency tests. Additional data sampling checks are conducted to ensure proper data upload from raw files into the park database and to quality check the pavement crack analysis. Further information is detailed in the FHWA – NPS RIP Quality Assurance Manual, available upon request.

This description of metadata includes only the known accuracies with which a data field matches its expected value. The tables that follow this page show each database field's:

- Field – field name
- Format – data type and number of characters of field
- Expected Value – meaning of value assigned to field
- Source – when in process field value obtained
- Validation – how field value obtained
- Expected Accuracy – accuracy with which contents of field match Expected Value

Verifying and continually improving the accuracy of Road Inventory Program data is an ongoing goal of the Federal Highway Administration and the National Park Service. Field testing and post-collection analysis of ARAN (Automatic Road ANalyzer) -collected data will continue in Cycle 4. Data quality is expected to improve as the FHWA – NPS Road Inventory Program continues to operate, due to the fact that future data collection cycles will consist in large part of data updates. Also, technological improvements are expected to render the data increasingly consistent with actual roadway conditions as data collection cycles progress.

Specific Caveats

- MUTCD based on contents & colors of sign, not on size
- Database records that show a Portland Cement Concrete (CO) surface type sometimes include distress index values that seem to show a perfect roadway. Condition assessments on concrete pavements are not conducted for Alligator Cracking, Transverse or Longitudinal Cracking, Patching, or Rutting. Perfect values for concrete road sections for these indexes are default values and do not represent a condition assessment of the concrete surfaces.
- On the USB drive, in the Database folder, parks are provided with intersection lists and exceptions lists. These documents should be treated as raw files and are not accurate. Refer to the final database for accurately post-processed intersection data.
- Most roadway data is collected in the primary direction lane of a roadway. To save data storage space and to reduce data analysis efforts, the assumption was made that the paved surface condition of a route's primary lane adequately represents the surface condition of the full roadway. Therefore, in the database, opposite-direction records in the PMS_Tenth table do not include assessed values for roadway surface distresses. Values such as 0, N/A, -1, or a repeat of the primary-direction assessed value indicate that no assessment was performed. The PMS_20 and PMS_Mile tables simply exclude all opposite routes.

- Roadway Data is collected in intervals of 0.010 miles (52.8feet) constituting a "station".
- Most roadway features are collected relative to the primary direction lane of a roadway, using the primary-direction video and mileage. Signs and Mile Markers are the only features collected using the opposite-direction video with mileage location referenced to the primary direction lane of the roadway.
- Route_GPS table contains GPS positional information collected by the ARAN and post processed with Applanix POSPac Land 5.0 post-processing software. No manual adjustments have occurred on this table.
- Modifications to the Park_ROAD_04.dbf/.shp/.shx files may have been necessary for report esthetics.
- Modifications to the Park_PKG_04. dbf/.shp/.shx files may have been necessary for report esthetics.
- Cycle 4 utilizes the Microsoft Office 2003 suite of products and Crystal Reports XI for document and data file generation and reporting.
- All PDF files are in Adobe Acrobat 7.0 Professional format.
- All ArcGIS files are created using ESRI Version 9.x software.
- Thumbnail images are created at 1/10 original image size for Right-of-Way and Pavement Images.
- FHWA is investigating the rutting methodology and calculated values it currently reports. Equipment limitations and analysis methods may be over reporting, low severity rutting.

Key to Notes in Tables

(1): Note that only one value fits in field, so even if this value varies throughout the route, only predominant value is recorded here.
(2): Shoulder width is measured at route start and every half-mile along the route in the primary direction. Width is the entire width of the drivable shoulder, regardless of the presence or absence of pavement, from the fog line to the shoulder hinge point, or if no fog line exists, from the edge of pavement to the hinge point. Identification of shoulder hinge point can be problematic using video analysis. Some paved ditches may be mistakenly recorded as shoulders where the shoulder hinge point and change in slope are not easily distinguished from the video.
(3): Mileage is measured by the ARAN (Automatic Road ANalyzer) data collection vehicle out to the 0.001 decimal place. The DMI (distance measuring instrument) is very accurate, with extremely slight variations in measurement due to air temperature, tire inflation, curves, hills, and equipment calibration.
(4): Features are measured differently depending on whether they are visible in the forward-facing video of the roadway, but every feature milepost measurement depends on the baseline measurement of the data collection vehicle's mileage. The ARAN (Automatic Road ANalyzer) data collection vehicle's mileage is measured by the DMI (distance measuring instrument) out to the 0.001 decimal place. The DMI is very accurate, with extremely slight variations in measurement due to air temperature, tire inflation, curves, hills, and equipment calibration. If a feature will not be visible in the forward-facing video, its milepost is determined by the data collectors' key press tagging the milepost when the ARAN passes the feature. Key presses are entered into the ARAN software when the vehicle travels typically between 15 and 45 miles/hour, so a delay of a single second as the vehicle passes a feature would result in an inaccuracy of 0.004 miles (22 feet) to 0.012 miles (66 feet). If a feature is visible in the video, its milepost is determined during post-processing using a video measurement software called Surveyor.
(5): Condition assessments on concrete (PCC) pavements are not conducted for Alligator Cracking, Transverse or Longitudinal Cracking, Patching, or Rutting. Perfect values for concrete road sections for these indexes are default values and do not represent a condition assessment of the concrete surfaces.
(6): Roadway cracking presence, type, severity, and extent are determined by filming the roadway in the primary lane continuously with two overlapping analog cameras of 640 x 480 resolutions. The images from both cameras are stitched together in real time to create a continuous strip image of the roadway pavement in the primary lane. Cracks 3 mm or greater in width are visible in this video. A semi-automatic process running the WiseCrax software with additional input by human operators provides the cracking quantities recorded in these database fields. Quality checks have determined that a consistent 80% or better of the visible cracks are recorded.

Access Database Metadata

MASTER Table Metadata:

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
1	RIP_CYCLE	XX	4, for data collection cycle 4	Route ID Meeting	FHWA Determination	100% Referenced to other tables
2	STATE	XX	State where route is located	Route ID Meeting	Park Input / FHWA Determination	100%, Referenced to other tables (1)
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	100%, Referenced to other tables
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	100%, Referenced to other tables
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Park Input / FHWA Classification	100%, Referenced to other tables
6	RTE_NAME	(Text)	Route name	Route ID Meeting	Park Input	100%, Referenced to other tables. 100 characters fit in field
7	FUNCT_CLASS	X	Route functional classification	Route ID Meeting	Park Input / FHWA Classification	100%, Referenced to other tables
8	DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input / FHWA Determination	100%,
9	BEG_MP_EST	999.999 (miles)	Estimated starting MP	Route ID Meeting	Park Input / FHWA Determination	Estimated before data collected
10	END_MP_EST	999.999 (miles)	Estimated ending MP	Route ID Meeting	Park Input / FHWA Determination	Estimated before data collected
11	RTE_LENGTH	999.999 (miles)	Collected route length	ARAN Data Collection	Automatic Output	100%
12	FROM_DESC	(Text)	Beginning terminus of route	Route ID Meeting	Park Input / FHWA Determination	100% Referenced to other tables
13	TO_DESC	(Text)	Ending terminus of route	Route ID Meeting	Park Input / FHWA Determination	100% Referenced to other tables
14	NO_LANES	X	Number of lanes in route	ARAN Data Collection	Survey Crew Input	Untested. (1)
15	SURF_TYPE	XX	Surface type of route	ARAN Data Collection	Survey Crew Input	100%, Referenced to other tables (1)
16	COMP_DIR	XX	Compass direction of route's primary lane (nearest cardinal direction)	Route ID Meeting	Park Input / FHWA Determination	Untested
17	COMMENTS	(Text)	Special information, if any	Contractor Post-processing	Contractor Input	Untested
18	FILENAME	(Text)	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
19	SECTION	(Text)	Route section ID	Route ID Meeting/ARAN Data Collection	Survey Crew Input/Automatic Output	100%

20	FKEY	9999999	Unique record ID	Contractor Post-processing	Database Processing	100%
21	DATE	MM/DD/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
22	BEG_MP	999.999 (miles)	Beginning MP collected	ARAN Data Collection	Automatic Output	100% (3)
23	END_MP	999.999 (miles)	Ending MP collected	ARAN Data Collection	Automatic Output	100% (3)

PMS_FEATURE Table Metadata:

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
1	RIP_CYCLE	XX	4, for data collection cycle 4	Route ID Meeting	FHWA Determination	100% Referenced to other tables
2	STATE	XX	State where route is located	Route ID Meeting	Park Input / FHWA Determination	Untested (1)
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	100% Referenced to other tables
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	100% Referenced to other tables
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Park Input / FHWA Classification	100% Referenced to other tables
6	FMSS_EQUIP	XXXXXXX	Facility Management Software System Equipment number	NPS FMSS application	NPS References	Untested
7	FUNCT_CLASS	X	Route functional class	Route ID Meeting	Park Input / FHWA Classification	100% Referenced to other tables
8	DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input / FHWA Determination	100%
9	MP	999.999 (miles)	Feature location along route	ARAN Data Collection/Contractor Post-processing	Video Analysis	<=0.001 mile
10	BEG_MP	999.999 (miles)	Feature Beginning location along route	Contractor Post-processing	Video Analysis	<=0.001 mile
11	END_MP	999.999 (miles)	Feature Ending location along route	Contractor Post-processing	Video Analysis	<=0.001 mile
12	FEATURE_LENGTH	999.99 (Feet)	Linear Feature Length	Contractor Post-processing	Database Processing	100%
13	EVENT	XXXX	Event category of feature	Contractor Post-processing	Video Analysis	Untested
14	EVENT_CODE	XXXX	Event sub-category of feature	Contractor Post-processing	Video Analysis	Untested
15	FEATURE_TYPE	(Text)	Feature designation: LINEAR or POINT	Contractor Post-processing	Video Analysis	Untested
16	EVENT_DESC	(Text)	Description of feature/contents of sign	Contractor Post-processing	Video Analysis	Untested
17	MUTCD	(Text)	MUTCD Code of Sign	Contractor Post-processing	Database Processing	95%
18	CONDITION	"N/A"	Sign condition. N/A. Not to be populated	Contractor Post-processing	Video Analysis	Values inaccurate, defaulted to "N/A"
19	COMMENT	(Text)	Sign label, intersecting route, etc.	Contractor Post-processing	Database Processing	Untested
20	OFFSET	"N/A"	Offset from Road Edge. N/A. Not to be populated	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to "N/A"

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
21	SIDE	(Text)	Side of route relative to lane driven	Contractor Post-processing	Video Analysis	95%
22	STR_NUMBER	(Text)	FHWA bridge structure number	FHWA Post-processing	Database Processing	Untested
23	BARR_MAT	(Text)	Barrier Material Type	Contractor Post-processing	Video Analysis	Untested
24	BARR_TYPE	(Text)	Barrier Type	Contractor Post-processing	Video Analysis	Untested
25	BARR_POST_MAT	(Text)	Barrier Post Materials	Contractor Post-processing	Video Analysis	Untested
26	BARR_BEG_TERM	(Text)	Barrier Approach Treatment	Contractor Post-processing	Video Analysis	Untested
27	BARR_END_TERM	(Text)	Barrier End Treatment	Contractor Post-processing	Video Analysis	Untested
28	CURB_MAT	(Text)	Curb Material Type	Contractor Post-processing	Video Analysis	Untested
29	PAVED_DITCH_MAT	(Text)	Paved Ditch Material Type	Contractor Post-processing	Video Analysis	Untested (2)
30	GATE_MAT	(Text)	Gate Material Type	Contractor Post-processing	Video Analysis	Untested
31	GATE_STYLE	(Text)	Gate Style	Contractor Post-processing	Video Analysis	Untested
32	BEG_GPS_LAT	999.999999	GPS Latitude Co-ordinate (decimal degrees)	Contractor Post-processing	Video Analysis	<= 3.00 feet
33	BEG_GPS_LON	-999.999999	GPS Longitude Co-ordinate (-decimal degrees)	Contractor Post-processing	Video Analysis	<= 3.00 feet
34	BEG_GPS_ELEV	99999.9	GPS Elevation Feet	Contractor Post-processing	Video Analysis	Untested
35	BEG_GPS_MODE	(Text)	GPS Satellite Mode	Contractor Post-processing	Video Analysis	Untested
36	END_GPS_LAT	999.999999	GPS Latitude Co-ordinate (decimal degrees)	Contractor Post-processing	Video Analysis	<= 3.00 feet
37	END_GPS_LON	-999.999999	GPS Longitude Co-ordinate (-decimal degrees)	Contractor Post-processing	Video Analysis	<= 3.00 feet
38	END_GPS_ELEV	99999.9	GPS Elevation Feet	Contractor Post-processing	Video Analysis	Untested
39	END_GPS_MODE	(Text)	GPS Satellite Mode	Contractor Post-processing	Video Analysis	Untested
40	DATUM	(Text)	LL_WGS84_DD	Contractor Post-processing	Database Processing	100%
41	VIDEO	<*Park*>C04VID<#>	Removable USB video hard drive number	Contractor Post-processing	Database Processing	Untested
42	IMAGE	(Text)	Filename of .jpg image showing feature	Contractor Post-processing	Automatic Output	Untested
43	DATE	MM/DD/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
44	FILENAME	(Text)	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
45	SECTION	(Text)	Route section ID	Route ID Meeting/ARAN Data Collection	Survey Crew Input/Automatic Output	100%
46	FKEY	(Numeric)	Unique record ID	Contractor Post-processing	Database Processing	100%
47	VISI_FROM	999999 (millimiles)	Raw MP of first video frame showing feature	Contractor Post-processing	Database Processing	Untested
48	VISI_TO	999999 (millimiles)	Raw MP of last video frame showing feature	Contractor Post-processing	Database Processing	Untested

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
49	IDKEY	(Text)	Unique record ID used by VisiData	Contractor Post-processing	Database Processing	Untested
50	MP_REF	(Text)	Range of mileage to play in VisiData	Contractor Post-processing	Database Processing	Untested

List of Roadway Features

#	EVENT	EVENT_CODE	FEATURE_TYPE	EVENT_DESC	STRUCTURE #	COLLECTED BY
1	BRIDGE	BRDG	LINEAR	BRIDGE	ALWAYS	ARAN
2	CATTLE GUARD	CGD	POINT	CATTLE GUARD	-	VIDEO RATING
3	CONSTRUCTION	CNST	LINEAR	CONSTRUCTION WORK ZONE	-	ARAN
4	CULVERT	CUL	POINT	CULVERT	SOMETIMES	ARAN
5	CURB	CRBL	LINEAR	CURB ON LEFT	-	VIDEO RATING
	""	CRBR	LINEAR	CURB ON RIGHT	-	VIDEO RATING
6	CURB-AND-GUTTER	CAGL	LINEAR	CURB-AND-GUTTER ON LEFT	-	VIDEO RATING
	""	CAGR	LINEAR	CURB-AND-GUTTER ON RIGHT	-	VIDEO RATING
7	DROP INLET	DINL	POINT	DROP INLET ON LEFT	-	ARAN
	""	DINR	POINT	DROP INLET ON RIGHT	-	ARAN
8	GATE	GATE	POINT	GATE	-	VIDEO RATING
9	FIRE HYDRANT	FHDL	POINT	FIRE HYDRANT ON LEFT	-	VIDEO RATING
	""	FHDR	POINT	FIRE HYDRANT ON RIGHT	-	VIDEO RATING
10	GUARD/GUIDE WALL	GGWL	LINEAR	GUARD/GUIDE WALL ON LEFT	-	VIDEO RATING
	""	GGWR	LINEAR	GUARD/GUIDE WALL ON RIGHT	-	VIDEO RATING
11	GUARD/GUIDE RAIL	GGRL	LINEAR	GUARD/GUIDE RAIL ON LEFT	-	VIDEO RATING
	""	GGRR	LINEAR	GUARD/GUIDE RAIL ON RIGHT	-	VIDEO RATING
12	INTERSECTION	INTL	POINT	INTERSECTION ON LEFT	-	ARAN
	""	INTR	POINT	INTERSECTION ON RIGHT	-	ARAN
	""	INTN	POINT	INTERSECTION SIDE N/A	-	ARAN

13	LANE DEVIATION	LADV	LINEAR	LANE DEVIATION	-	ARAN
14	LOW WATER CROSSING	LWCR	LINEAR	LOW WATER CROSSING	SOMETIMES	VIDEO RATING
15	MILE MARKER	MML	POINT	MILE MARKER ON LEFT	-	VIDEO RATING
	""	MMR	POINT	MILE MARKER ON RIGHT	-	VIDEO RATING
16	OVERPASS	OPV	POINT	OVERPASS VEHICULAR	SOMETIMES	ARAN
	""	OPP	POINT	OVERPASS PEDESTRIAN	SOMETIMES	ARAN
	""	OPRX	POINT	OVERPASS RAILROAD CROSSING	SOMETIMES	ARAN
17	PARK BOUNDARY	PRK	POINT	PARK BOUNDARY	-	ARAN
18	PAVED DITCH	PVDL	LINEAR	PAVED DITCH ON LEFT	-	VIDEO RATING
	""	PVDR	LINEAR	PAVED DITCH ON RIGHT	-	VIDEO RATING
19	PULLOUT	PLOL	LINEAR	PULLOUT ON LEFT	-	VIDEO RATING
	""	PLOR	LINEAR	PULLOUT ON RIGHT	-	VIDEO RATING
20	RAILROAD CROSSING	RRX	POINT	RAILROAD CROSSING	-	VIDEO RATING
21	RETAINING WALL	RTWL	LINEAR	RETAINING WALL ON LEFT	-	VIDEO RATING
	""	RTWR	LINEAR	RETAINING WALL ON RIGHT	-	VIDEO RATING
22	ROUTE BEGIN	RBEG	POINT	ROUTE BEGIN	-	ARAN
23	ROUTE END	REND	POINT	ROUTE END	-	ARAN
24	SIGN	REGU, WARN, GUID, UNKN	POINT	DOCUMENT CONTENTS OF SIGN. (WHAT THE SIGN SAYS) FOR GRAPHICS ONLY SIGNS POPULATED WITH ("GRAPHIC SIGN, NO TEXT") FOR UNREADABLE TEXT POPULATED WITH ("UNABLE TO READ FROM VIDEO")	-	VIDEO RATING
25	STATE BOUNDARY	STB	POINT	STATE BOUNDARY	-	ARAN
26	TRAFFIC LIGHT	TRF	POINT	TRAFFIC LIGHT	-	VIDEO RATING
27	TUNNEL	TUN	LINEAR	TUNNEL	ALWAYS	ARAN

PMS_20, PMS_MILE, & PMS_TENTH Tables Metadata:

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
1	RIP_CYCLE	XX	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	100% Referenced to other tables
2	STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested. (1)
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	100% Referenced to other tables
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	100% Referenced to other tables
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Park Input/FHWA Classification	100% Referenced to other tables
6	FUNCT_CLASS	X	Route functional class	Route ID Meeting	Park Input/FHWA Classification	100% Referenced to other tables
7	DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input/FHWA Determination	100%
8	BEG_MP	999.999 (miles)	MP at start of road interval described by database record	Contractor Post-processing	Database Processing	100% (3)
9	END_MP	999.999 (miles)	MP at end of road interval described by database record	Contractor Post-processing	Database Processing	100% (3)
10	INT_LENGTH	999.9 (ft)	Length of road interval as aggregated for data table	Contractor Post-processing	Database Processing	100%
11	RTE_LENGTH	999.999 (miles)	Collected route length	ARAN Data Collection	Automatic Output	100% (3)
12	NO_LANES	99	Number of lanes in route	ARAN Data Collection	Survey Crew Input	Untested. (1)
13	LANE_NO	99	Data collection lane	Contractor Post-processing	Database Processing	Untested
14	D_LANE_WIDTH	99.999 (ft)	WiseCrax (crack detection software) analysis width	Contractor Post-processing	Automatic Output	Untested
15	LANE_WIDTH	99.9 (ft)	Width of lane	Contractor Post-processing	Video Analysis	95%, <=1.0 foot
16	PAVE_WIDTH	99.9 (ft)	Full pavement width	Contractor Post-processing	Video Analysis	95%, <=1.0 foot
17	SHLD_WIDTH_L	99.9 (ft)	Left shoulder width	Contractor Post-processing	Video Analysis	95%, <=1.0 foot (2)
18	SHLD_WIDTH_R	99.9 (ft)	Right shoulder width	Contractor Post-processing	Video Analysis	95%, <=1.0 foot (2)
19	SHLD_COND_L	N/A	N/A. Intended to be Left shoulder condition	ARAN Data Collection	Survey Crew Input	Values inaccurate, defaulted to “N/A”
20	SHLD_COND_R	N/A	N/A. Intended to be Right shoulder condition	ARAN Data Collection	Survey Crew Input	Values inaccurate, defaulted to “N/A”
21	DRAIN_COND_L	N/A	N/A. Intended to be Left drainage condition	ARAN Data Collection	Survey Crew Input	Values inaccurate, defaulted to “N/A”
22	DRAIN_COND_R	N/A	N/A. Intended to be Right drainage condition	ARAN Data Collection	Survey Crew Input	Values inaccurate, defaulted to “N/A”

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
23	SURF_TYPE	XX	Surface type of route	ARAN Data Collection	Survey Crew Input	Untested. (1)
24	PCR	999	Pavement Condition Rating	Contractor Post-processing	Database Processing	100% for calculation (6)
25	RCI	999	Roughness Condition Index; -1 if invalid IRI	Contractor Post-processing	Database Processing	100% for calculation
26	SCR	999	Surface Condition Rating	Contractor Post-processing	Database Processing	100% for calculation (5) (6)
27	IRI_AVG	999.9 (inches/mile)	Average IRI	Contractor Post-processing	Database Processing	Untested
28	IRI_SD	999.9 (inches/mile)	IRI standard deviation	Contractor Post-processing	Database Processing	Untested
29	IRI_L	999.9 (inches/mile)	Left wheel path IRI	ARAN Data Collection	Automatic Output	Untested
30	IRI_R	999.9 (inches/mile)	Right wheel path IRI	ARAN Data Collection	Automatic Output	Untested
31	IRI_FLAG	0 or -1	-1 if invalid IRI data	Contractor Post-processing	Database Processing	Untested
32	RUT_INDEX	999	Rut index	Contractor Post-processing	Database Processing	100% for calculation (5)
33	RUT_AVG	99.99 (inches)	Average rut depth of both wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
34	RUT_MAX	99.99 (inches)	Maximum rut depth of both wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
35	RUT_SD	9.9	Rut depth standard deviation	Contractor Post-processing	Database Processing	Untested (5)
36	RUT_LOW	999 (%)	Percent of low severity ruts (on a 0-200% scale) in both wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
37	RUT_MED	999 (%)	Percent of medium severity ruts (on a 0-200% scale) in both wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
38	RUT_HI	999 (%)	Percent of high severity ruts (on a 0-200% scale) in both wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
39	XFALL	999.9 (% slope)	Cross fall at start of road interval	ARAN Data Collection	Automatic Output	Untested
40	GRADE	999.9 (% slope)	Grade at start of road interval	ARAN Data Collection	Automatic Output	Untested
41	AC_INDEX	999	Alligator cracking index	Contractor Post-processing	Database Processing	100% for calculation (5) (6)
42	AC_LOW	999.9999 (%)	Percent of WiseCrax measured lane area with low-severity alligator cracking	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
43	AC_MED	999.9999 (%)	Percent of WiseCrax measured lane area with medium-severity alligator cracking	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
44	AC_HI	999.9999 (%)	Percent of WiseCrax measured lane area with high-severity alligator	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
			cracking			
45	LC_INDEX	999	Longitudinal cracking index	Contractor Post-processing	Database Processing	100% for calculation (5) (6)
46	LC_LOW	999.99 (%)	Low-severity longitudinal cracking in lane as a percentage of road interval length	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
47	LC_MED	999.99 (%)	Medium-severity longitudinal cracking in lane as a percentage of road interval length	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
48	LC_HI	999.99 (%)	High-severity longitudinal cracking in lane as a percentage of road interval length	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
49	TC_INDEX	999	Transverse cracking index	Contractor Post-processing	Database Processing	100% for calculation (5) (6)
50	TC_LOW	999.99 (cracks)	Count of low-severity transverse cracks, where one crack unit equals the WiseCrax measured lane width	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
51	TC_MED	999.99 (cracks)	Count of medium-severity transverse cracks, where one crack unit equals the WiseCrax measured lane width	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
52	TC_HI	999.99 (cracks)	Count of high-severity transverse cracks, where one crack unit equals the WiseCrax measured lane width	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
53	PATCH_INDEX	999	Patching index	Contractor Post-processing	Database Processing	100% for calculation (5) (6)
54	PATCHING	999.9999 (%)	Percent of WiseCrax measured lane area affected by patching	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
55	GPS_LAT	999.999999	Latitude coordinate	ARAN Data Collection	Automatic Output	<= 3.00 feet
56	GPS_LON	-999.999999	Longitude coordinate	ARAN Data Collection	Automatic Output	<= 3.00 feet
57	GPS_ELEV	99999.9	Elevation	ARAN Data Collection	Automatic Output	Untested
58	GPS_MODE	XXX	GPS Satellite Mode during collection	ARAN Data Collection	Automatic Output	Untested
59	DATUM	(Text)	LL_WGS84_DD	ARAN Data Collection	Database Processing	100%
60	VIDEO	<*Park*>C04VID<#>	Removable USB video hard	Contractor Post-processing	Database Processing	Untested

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
			drive number			
61	IMAGE	(Text)	Filename of .jpg image showing road interval	Contractor Post-processing	Automatic Output	Untested
62	SPEED	999 (miles/hour)	Average ARAN speed during data collection	ARAN Data Collection	Automatic Output	Untested
63	BRIDGE_FLAG	0 or 1	Flag indicating presence of bridge in interval	ARAN Data Collection	Survey Crew Input	Untested
64	CONSTR_FLAG	0 or 1	Flag indicating construction in interval	ARAN Data Collection	Survey Crew Input	Untested
65	LANEDEV_FLAG	0 or 1	Flag indicating lane deviation in interval	ARAN Data Collection	Survey Crew Input	Untested
66	DATE	MM/DD/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
67	NODISTRESS	0 OR 1	Flag indicating absence of pavement distress	Contractor Post-processing	Database Processing	100%
68	FILENAME	(Text)	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
69	SECTION	(Text)	Route section ID	Route ID Meeting/ARAN Data Collection	Survey Crew Input/Automatic Output	100%
70	FKEY	(Numeric)	Unique record ID	Contractor Post-processing	Database Processing	100%
71	CONTRACTOR1	(Numeric)	Raw MP of first video frame in section	Contractor Post-processing	Database Processing	Untested
72	CONTRACTOR2	(Numeric)	Raw MP of last video frame in section	Contractor Post-processing	Database Processing	Untested
73	CONTRACTOR3	(Text)	Unique record ID used by VisiData	Contractor Post-processing	Database Processing	Untested
74	CONTRACTOR4	(Text)	Range of mileage to play in VisiData	Contractor Post-processing	Database Processing	Untested

ROUTE_GPS table metadata:

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
1	RIP_CYCLE	XX	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	100% referenced to other tables
2	STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	100% Referenced to other tables
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	100% Referenced to other tables
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Park Input/FHWA Classification	100% Referenced to other tables
6	FUNCT_CLASS	X	Route functional classification	Route ID Meeting	Park Input/FHWA Classification	100% Referenced to other tables
7	RTE_NAME	(Text)	Route name	Route ID Meeting	Park Input	100% Referenced to other tables . 100 characters fit in field
8	LANE_NUMBER	99	Data collection lane	Contractor Post-processing	Database Processing	Untested
9	DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input/FHWA Determination	Untested
10	MP	999.999	Mile Post (at 0.01 record)	ARAN Data Collection, Contractor Post-processing	Survey Crew Input/GPS Processing	Untested (3)
11	GPS_LAT	999.999999	GPS Latitude Co-ordinate (decimal degrees)	ARAN Data Collection, Contractor Post-processing	Automatic Output	<= 3.00 feet
12	GPS_LON	-999.999999	GPS Longitude Co-ordinate (-decimal degrees)	ARAN Data Collection, Contractor Post-processing	Automatic Output	<= 3.00 feet
13	GPS_ELEV	99999.9	Elevation	ARAN Data Collection, Contractor Post-processing	Automatic Output	Untested
14	GPS_MODE	XXX	GPS Satellite Mode during collection	ARAN Data Collection, Contractor Post-processing	Automatic Output	Untested
15	XFALL	999.9	Cross Fall: % Slope at GPS Location (Caution, Data not Validated)	ARAN Data Collection, Contractor Post-processing	Automatic Output	Untested
16	GRADE	999.9	Grade: % Slope at GPS Location (Caution, Data not Validated)	ARAN Data Collection, Contractor Post-processing	Automatic Output	Untested
17	HEADING	999.9	Heading Relative to True North	ARAN Data Collection	Automatic Output	Untested
18	DATUM	(Text)	LL_WGS84_DD	ARAN Data Collection	Database Processing	Untested
19	FILENAME	(Text)	Filename of raw data files	ARAN Data Collection	Automatic Output	Untested
20	FKEY	9999999	Unique record ID	Contractor Post-processing	Database Processing	Untested

21	DATE	MM/DD/YY	ARAN Data Collection Date	ARAN Data Collection	Automatic Output	Untested
22	COMMENT	(Text)	Source of Any Digitized Data	ARAN Data Collection	Database Processing	Untested
23	CONTRACTOR1	(Numeric)	Visi_from	Contractor Post-processing	Database Processing	Untested
24	CONTRACTOR2	(Numeric)	Visi_to	Contractor Post-processing	Database Processing	Untested
25	CONTRACTOR3	(Text)	Visi_dir (ipdated to chapter 1)	Contractor Post-processing	Database Processing	Untested
26	CONTRACTOR4	(Text)	Comments/exceptions	Contractor Post-processing	Database Processing	Untested

FHWA "Route ID Program" Database
Database Name: ROUTEINFO.mdb
Table Name: ROUTE_ID

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
1	ROUTE_IDENT	XXXX-9999XXX	The Park's Alpha Code + "-" + RTE_NO (below).	Route ID Meeting	Automatic Output	100%, Reference source for all tables
2	RIP_CYCLE	99	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	100%, Reference source for all tables
3	PARK_ALPHA	XXXX	Park Alpha Code	Route ID Meeting	NPS References	100%, Reference source for all tables
4	GROUP_ALPHA	XXXX	Group Alpha Code	Route ID Meeting	NPS References	100%, Reference source for all tables
5	PARK_NO	9999	Park Numeric Code	Route ID Meeting	NPS References	100%, Reference source for all tables
6	PARK_NAME	(text)	NPS Name of Park	Route ID Meeting	NPS References	100%, Reference source for all tables
7	RTE_NO	9999XXX	Route Number	Route ID Meeting	Park Input	100%, Reference source for all tables
8	RTE_NAME	(Text)	Route Name	Route ID Meeting	Park Input	100%, Reference source for all tables
9	FROM_DESC	(Text)	Beginning terminus of route	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
10	TO_DESC	(Text)	Ending terminus of route	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
11	INSP_DATE	MM/DD/YYYY	Collection Date	ARAN Data Collection	FHWA Determination	100%, Reference source for all tables
12	FUNCT_CLASS	XX	Functional Class	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
13	STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested (1)
14	STATE2	XX	Additional State Park Route traverses	Route ID Meeting	Park Input/FHWA Determination	Untested (1)
15	FMSS_NO	(Text)	NPS's Facility Management Software System (FMSS) Asset number	Route ID Meeting	Park Input	100%, Reference source for all tables
16	FMSS_SUR_EQP	(Text)	FMSS Surface Equipment Number	Route ID Meeting	Park Input	Untested
17	M_DISTRICT	(Text)	Park Maintenance District Route resides in	Route ID Meeting	Park Input	100%, Reference source for all tables (1)
18	TOPOGRAPHY	(Text)	Predominate Terrain condition for	Route ID Meeting	FHWA Determination	100%, Reference source for all

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
			Route. (FLAT, ROLLING, MOUNTAINOUS, or URBAN)			tables (1)
19	POSTED_SPEED	99	Posted Speed Limit for Route (Value is Predominate Speed Limit along Route)	Route ID Meeting	Park Input/FHWA Determination	Untested (1)
20	ARAN_ROUTE	XXX	Yes/No	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
21	PARKING_AREA	XXX	Yes/No	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
22	CONCESSION	XXX	Yes/No	Route ID Meeting	Park Input	100%, Reference source for all tables
23	PAVED_MI	999.999	Paved mileage (to the nearest 0.001)	ARAN Data Collection	Automatic Output	100%, Reference source for all tables
24	UNPAVED_MI	999.999	Unpaved mileage (to the nearest 0.001)	Route ID Meeting	Automatic Output	100%, Reference source for all tables
25	RTE_LENGTH	999.999	Official Route Length	Contractor Post-processing	Automatic Output	100%, Reference source for all tables
26	SURF_TYPE	XX	Surface type (PAVED: AS (asphalt, includes composite), CO (concrete), BR (brick/pavers), CB (cobblestone), OT (other))	Route ID Meeting	Survey Crew Input	100%, Reference source for all tables (1)
27	UNPAVED	XXXX	Unpaved Route (Yes/No/Both)	Route ID Meeting	Automatic Output	100%, Reference source for all tables
28	UNPAVED_CAT	XXX	Unpaved Road Category	Route ID Meeting	Automatic Output	Untested
29	CURB	(Text)	Parking Area with Curb around perimeter.	Route ID Meeting	Park Input/FHWA Determination	Untested
30	CURB_GUTTER	(Text)	Parking Area with Curb and Gutter around perimeter.	Route ID Meeting	Park Input/FHWA Determination	Untested
31	ADJ_ROUTE	9999XXX	Route number	Route ID Meeting	Automatic Output	100%, Reference source for all tables
32	USER_ACCESS	(Text)	Access Designation for Parking	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
33	PHOTO_NO	(Text)	Photo or Image	Route ID Meeting	Survey Crew Input	100%, Reference source for all tables
34	PLOT_SIZE	(Text)	Unpaved Parking Area Size	Route ID Meeting	Automatic Output	100%, Reference source for all tables
35	SQ_FEET	999.999	Route Square Footage	Contractor Post-processing	Automatic Output	100%, Reference source for all tables
36	M_RATING	(Text)	Manual Rating	Route ID Meeting	Automatic Output	100%, Reference source for all tables

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
37	SQ_YARDS	999.999	Route Square Yardage	Contractor Post-processing	Automatic Output	100%, Reference source for all tables
38	LANES	XX	Route travel lanes	Route ID Meeting	Automatic Output	Untested (1)
39	PAVE_WIDTH	999.99	Pavement Width (Weighted average)	RIP Post-processing	Automatic Output	100% Referenced to other tables
40	LANE_MILES	999.999	Route Equivalent Lane Miles	RIP Post-processing	Automatic Output	100%, Reference source for all tables
41	AREA_MAP	(Text)	1 or 2-digit number	Contractor Post-processing	FHWA/Contractor Input	100%, Reference source for all tables
42	REMARKS	(Memo)	General remarks on Park route and data collection operations.	Contractor Post-processing	FHWA/Contractor Input	Untested
43	SUMMARY_REC	XXXX-9999XXX	ROUTE_IDENT of summary Park Asset	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
44	NPS_REGION	(Text)	Park Region	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
45	DIVISION	(Text)	FHWA Division	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
46	PCR	999.99	Route Weighted Average PCR value	RIP Post-processing	Automatic Output	100% Referenced to other tables
47	SCR	999.99	Route Weighted Average SCR value	RIP Post-processing	Automatic Output	100% Referenced to other tables
48	AADT	999	Average Adjusted Daily Traffic	RIP	Automatic Output	Untested
49	SADT	999	Seasonal Adjusted Daily Traffic	RIP	Automatic Output	Untested
50	ADT_DATE	MM/DD/YYYY	Traffic Date of Collection	RIP	Automatic Output	Untested
51	BEG_LAT	999.999999	Route Begin GPS Latitude Co-ordinate (decimal degrees)	ARAN Data Collection	Automatic Output	<= 3.00 feet, Referenced from other tables
52	BEG_LON	-999.999999	Route Begin GPS Longitude Co-ordinate (-decimal degrees)	ARAN Data Collection	Automatic Output	<= 3.00 feet, Referenced from other tables
53	BEG_ELEV	99999.9	Route Begin Elevation	ARAN Data Collection	Automatic Output	100% Referenced to other tables
54	BEG_MODE	XXX	Route Begin GPS Satellite Mode during collection	ARAN Data Collection	Automatic Output	100% Referenced to other tables
55	END_LAT	999.999999	Route End GPS Latitude Co-ordinate (decimal degrees)	ARAN Data Collection	Automatic Output	<= 3.00 feet, Referenced from other tables

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
56	END_LON	-999.999999	Route End GPS Longitude Co-ordinate (-decimal degrees)	ARAN Data Collection	Automatic Output	<= 3.00 feet, Referenced from other tables
57	END_ELEV	99999.9	Route End Elevation	ARAN Data Collection	Automatic Output	100% Referenced to other tables
58	END_MODE	XXX	Route End GPS Satellite Mode during collection	ARAN Data Collection	Automatic Output	100% Referenced to other tables
59	DATUM	(Text)	LL_WGS84_DD	ARAN Data Collection	Automatic Output	100% Referenced to other tables
60	CHILD_ROUTE	XXX	Yes/No	Route ID Meeting	Automatic Output	100% Reference source for all tables
61	CULVERT_CNT	999	Route Culvert Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
62	DROP_INLET_CNT	999	Route Drop Inlet Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
63	GATE_CNT	999	Route Gate Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
64	TRAFLIGHT_CNT	999	Route Traffic Light Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
65	SIGN_CNT	999	Route Sign Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
66	LWCROSS_CNT	999	Route Low Water Crossing Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
67	BRIDGE_CNT	999	Route Bridge Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
68	TUNNEL_CNT	999	Route Tunnel Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
69	PULLOUT_CNT	999	Route Pullout Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
70	INTERSEC_CNT	999	Route Intersection Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
71	ST_BNDRY_CNT	999	Route State Boundary Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
72	PRK_BNDRY_CNT	999	Route Park Boundary Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
73	RETWALL_CNT	999	Route Retaining Wall Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
74	RR_CROSS_CNT	999	Route RR Crossing Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
75	CATTLE_CNT	999	Route Cattle Guard Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
76	OVHDSIGN_CNT	999	Route Overhead Sign Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
77	MILEMARK_CNT	999	Route Mile Marker Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
78	FHYD_CNT	999	Route Fire Hydrant Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
79	OVERPASS_CNT	999	Route Overpass Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
80	CABLE_TLNG	9999.999 (ft)	Route Total Length Cable Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
81	GDRAIL_TLNG	9999.999 (ft)	Route Total Length Guard/Guide Rail Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
82	GDWALL_TLNG	9999.999 (ft)	Route Total Length Guard/Guide Wall Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
83	TEMP_BARR_TLNG	9999.999 (ft)	Route Total Length Temporary Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
84	BOLLARD_TLNG	9999.999 (ft)	Route Total Length Bollard Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
85	BARRIER_TLNG	9999.999 (ft)	Route Total Length All Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
86	CURB_TLNG	9999.999 (ft)	Route Total Length Curbing (excludes Parking Areas)	RIP Post-processing	Automatic Output	100% Referenced to other tables
87	LWCROSS_TLNG	9999.999 (ft)	Route Total Length Low Water Crossings	RIP Post-processing	Automatic Output	100% Referenced to other tables
88	PAVDITCH_TLNG	9999.999 (ft)	Route Total Length Paved Ditch	RIP Post-processing	Automatic Output	100% Referenced to other tables (2)
89	TURNOUT_TLNG	9999.999 (ft)	Route Total Length Turnouts	RIP Post-processing	Automatic Output	100% Referenced to other tables
90	LANE_NUMBER	99	Number of Lane Tested	RIP Post-processing	Automatic Output	100% Referenced to other tables
91	LOCAL_FACTOR	9.9999	Park Location Factor	NPS Partner	Automatic Output	100% Reference source for all tables
92	E_ZONE	XXX	Route Environmental Zone	FHWA HPMA	Automatic Output	100% Reference source for all tables
93	PAVEMENT_DM	$99,999,999.99	Pavement Deferred Maintenance	FHWA HPMA	Automatic Output	100% Reference source for all tables
94	CRV	$99,999,999.99	Current Replacement Value	RIP Post-processing	Automatic Output	100% Reference source for all tables

Database Name: ROUTEINFO.mdb
Table Name: PARK_TOTALS

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
1	RIP_CYCLE	99	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	100% Referenced to other tables
2	PARK_ALPHA	XXXX	Park Alpha Code	Route ID Meeting	FHWA Determination	100% Referenced to other tables
3	GROUP_ALPHA	XXXX	Group Alpha Code	Route ID Meeting	NPS References	100% Referenced to other tables
4	PARK_NO	9999	Park Numeric Code	Route ID Meeting	NPS References	100% Referenced to other tables
5	PARK_NAME	XXXX	NPS Name of Park	Route ID Meeting	NPS References	100% Referenced to other tables
6	INSP_DATE	MM/DD/YYYY	Date that data was collected in the park (completion date).	Route ID Meeting and ARAN Data Collection	FHWA Determination	100% Referenced to other tables
7	NPS_REGION	XXXX	Park Region	Route ID Meeting	Park Input	100% Referenced to other tables
8	DIVISION	XXXX	FHWA Division	Route ID Meeting	FHWA Determination	100% Referenced to other tables
9	T_PAVED_MI	999.999	Total Park Paved Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
10	T_UNPAVED_MI	999.999	Total Park Unpaved Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
11	T_ROUTE_MILES	999.999	Total Park Route Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
12	T_ARAN_DRIVEN	999.999	Total Park ARAN Driven Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
13	T_ARAN_LMILES	999.999	Total Park ARAN Lane Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
14	T_CONCESS_PAVED	999.999	Total Park Concession Paved Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
15	T_CONCESS_UNPAVED	999.999	Total Park Concession Unpaved Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
16	T_PRK_PAVEDSQFT	999.999	Total Park Parking Paved Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables
17	T_PRK_UNPAVEDSQFT	999.999	Total Park Parking Unpaved Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables
18	T_CPRK_PAVEDSQFT	999.999	Total Park Concession Parking Paved Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
19	T_CPRK_UNPAVEDSQFT	999.999	Total Park Concession Parking Unpaved Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables
20	T_PARKING_SQFT	999.999	Total Park Parking Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables
21	T_PARKING_LMILES	999.999	Total Park Parking Equivalent Lane Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
22	T_MRR_SQFT	999.999	Total Park Manually Rated Road Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables
23	T_CMRR_SQFT	999.999	Total Park Concession Manually Rated Road Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables
24	T_MRR_LMILES	999.999	Total Park Manually Rated Road Equivalent Lane Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
25	T_LMILES	999.999	Total Park Lane Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
26	T_CULVERT_CNT	999	Total Park Culvert Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
27	T_DROP_INLET_CNT	999	Total Park Drop Inlet Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
28	T_GATE_CNT	999	Total Park Gate Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
29	T_TRAFLIGHT_CNT	999	Total Park Traffic light Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
30	T_SIGN_CNT	999	Total Park Sign Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
31	T_LWCROSS_CNT	999	Total Park Low Water Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
32	T_BRIDGE_CNT	999	Total Park Bridge Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
33	T_TUNNEL_CNT	999	Total Park Tunnel Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
34	T_PULLOUT_CNT	999	Total Park Pullout Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
35	T_INTERSEC_CNT	999	Total Park Intersections Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
36	T_ST_BNDRY_CNT	999	Total Park State Boundaries Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
37	T_PRK_BNDRY_CNT	999	Total Park Boundaries Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
38	T_RETWALL_CNT	999	Total Park Retaining Wall Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
39	T_RR_CROSS_CNT	999	Total Park RR Crossing Count	RIP Post-processing	Automatic Output	100% Referenced to other

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
						tables
40	T_CATTLE_CNT	999	Total Park Cattle Guard Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
41	T_OVHDSIGN_CNT	999	Total Park Overhead Sign Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
42	T_MILEMARK_CNT	999	Total Park Mile Marker Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
43	T_FHYD_CNT	999	Total Park Fire Hydrant Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
44	T_OVERPASS_CNT	999	Total Park Overpass Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
45	T_CABLE_TLNG	9999.999 (ft)	Total Length Park Cable Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
46	T_GDRAIL_TLNG	9999.999 (ft)	Total Length Park Guard/Guide Rail Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
47	T_GDWALL_TLNG	9999.999 (ft)	Total Length Park Guard/Guide Wall Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
48	T_TEMP_BARR_TLNG	9999.999 (ft)	Total Length Park Temporary Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
49	T_BOLLARD_TLNG	9999.999 (ft)	Total Length Park Bollard Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
50	T_BARRIER_TLNG	9999.999 (ft)	Total Length All Park Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
51	T_CURB_TLNG	9999.999 (ft)	Total Length Park Curbing	RIP Post-processing	Automatic Output	100% Referenced to other tables
52	T_LWCROSS_TLNG	9999.999 (ft)	Total Length Park Low Water Crossings	RIP Post-processing	Automatic Output	100% Referenced to other tables
53	T_PAVDITCH_TLNG	9999.999 (ft)	Total Length Park Paved Ditches	RIP Post-processing	Automatic Output	100% Referenced to other tables (2)
54	T_TURNOUT_TLNG	9999.999 (ft)	Total Length Park Turnouts	RIP Post-processing	Automatic Output	100% Referenced to other tables
55	PARK_PCR	99.99	Overall Park PCR Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
56	PARK_RCI	99.99	Overall Park RCI Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
57	PARK_SCR	99.99	Overall Park SCR Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
58	PARK_RUT_INDEX	99.99	Overall Park Rutting Index Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
59	PARK_AC_INDEX	99.99	Overall Park Alligator Cracking Index Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
60	PARK_LC_INDEX	99.99	Overall Park Longitudinal Cracking Index Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
61	PARK_TC_INDEX	99.99	Overall Park Transverse Cracking Index Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
62	PARK_PATCH_INDEX	99.99	Overall Park Patching Index Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
63	PARK_CONC_PCR	99.99	Overall Park Concession PCR Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables