



The Road Inventory of Organ Pipe Cactus National Monument ORPI - 8660



national park service



Road Inventory Program

Prepared By:
Federal Highway Administration
Eastern Federal Lands Highway Division
Cycle 3



Organ Pipe Cactus National Monument in Arizona





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INTRODUCTION

Background: In July 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 and short-range costs and programs to bring National Park Service (NPS) roads up to, or to maintain, designated standards, and to 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 re-established in the 1990's. The FLH completed two cycles of RIP data collection between 1994 and 2001. Cycle 1 data was collected in 44 large parks from 1994 to 1995. 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."

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 the 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 3: A third RIP cycle was initiated in 2001. Data was collected from March 2001 to July 2004, and is included in the Cycle 3 Reports. Cycle 3 includes 254 large and small parks with a combined total of 5,455 route miles.

In the Cycle 3 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 of 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.

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Organ Pipe Cactus National Monument Summaries

Overall Park Mileage Summary

PARK TOTAL SUMMARY ITEMS	TOTAL	DATE
Paved ARAN Driven Route Miles	29.88	11/19/2001
Unpaved Estimated Route Miles	106.04	11/19/2001
Paved ARAN and Unpaved Route Miles	135.92	
Paved ARAN Driven Lane Miles	55.52	11/19/2001
Paved MRR Lane Miles	0.00	
Parking Lot Lane Miles	1.28	11/19/2001
Total Paved Lane Miles	56.80	

Notes: Total Paved Lane Miles includes the sum of Paved ARAN Driven Lane Miles, Paved MRR Lane Miles, and Parking Lot Lane Miles

Unpaved Route Miles are estimates, they have not been inventoried by the Roadway Inventory Program (RIP)

Organ Pipe Cactus National Monument Summaries

Cost to Improve to "Excellent" Condition

SOURCE	WORK PERFORMED	COST PER MILE	INITIAL CONDITION
FHWA Awarded Projects	Surface Maintenance	\$30,000	Excellent
FHWA Awarded Projects	3-R (Resurfacing)	\$110,000	Good
FHWA Awarded Projects	3-R (Resurfacing, Restoration, and Rehabilitation) Projects	\$560,000	Fair
FHWA Awarded Projects	4-R (Resurfacing, Restoration, Rehabilitation, and Reconstruction) Projects	\$1,540,000	Poor

Based on the above table, the cost to improve ARAN driven paved road condition miles to "Excellent" PCR are:

Existing Condition	Existing Miles	Estimated Cost to Improve
Excellent	0.04	\$1,200
Good	1.52	\$167,200
Fair	28.32	\$15,859,200
Poor	0.00	\$0
Totals	29.88	\$16,027,600

The above numbers include the 35% PE, CE and contingency costs and are national averages. The cost estimates were used in the calculations for the 2004 Reauthorization Bill to determine the level of funding required to bring all the NPS roads into a Pavement Condition Rating (PCR) of Good (85).

These numbers are for preliminary planning purposes only and should not be used for project level proposals. For park planning level analysis, apply your park multiplier for more accurate regional costs.

Organ Pipe Cactus National Monument Summaries

Paved Route Miles and Percentages by Functional Class and PCR for ARAN Driven Paved Roads

F.C.	Pavement Condition Rating								TOTAL MILES
	Poor (<=60)		Fair (61-84)		Good (85-94)		Excellent (95-100)		
	MILES	%	MILES	%	MILES	%	MILES	%	
1	23.79	79.62%	1.52	5.09%			0.04	0.13%	25.35
2									
3	2.98	9.97%							2.98
4									
5	1.55	5.19%							1.55
6									
7									
8									
Totals	28.32	94.78%	1.52	5.09%	0.00	0.00%	0.04	0.13%	29.88

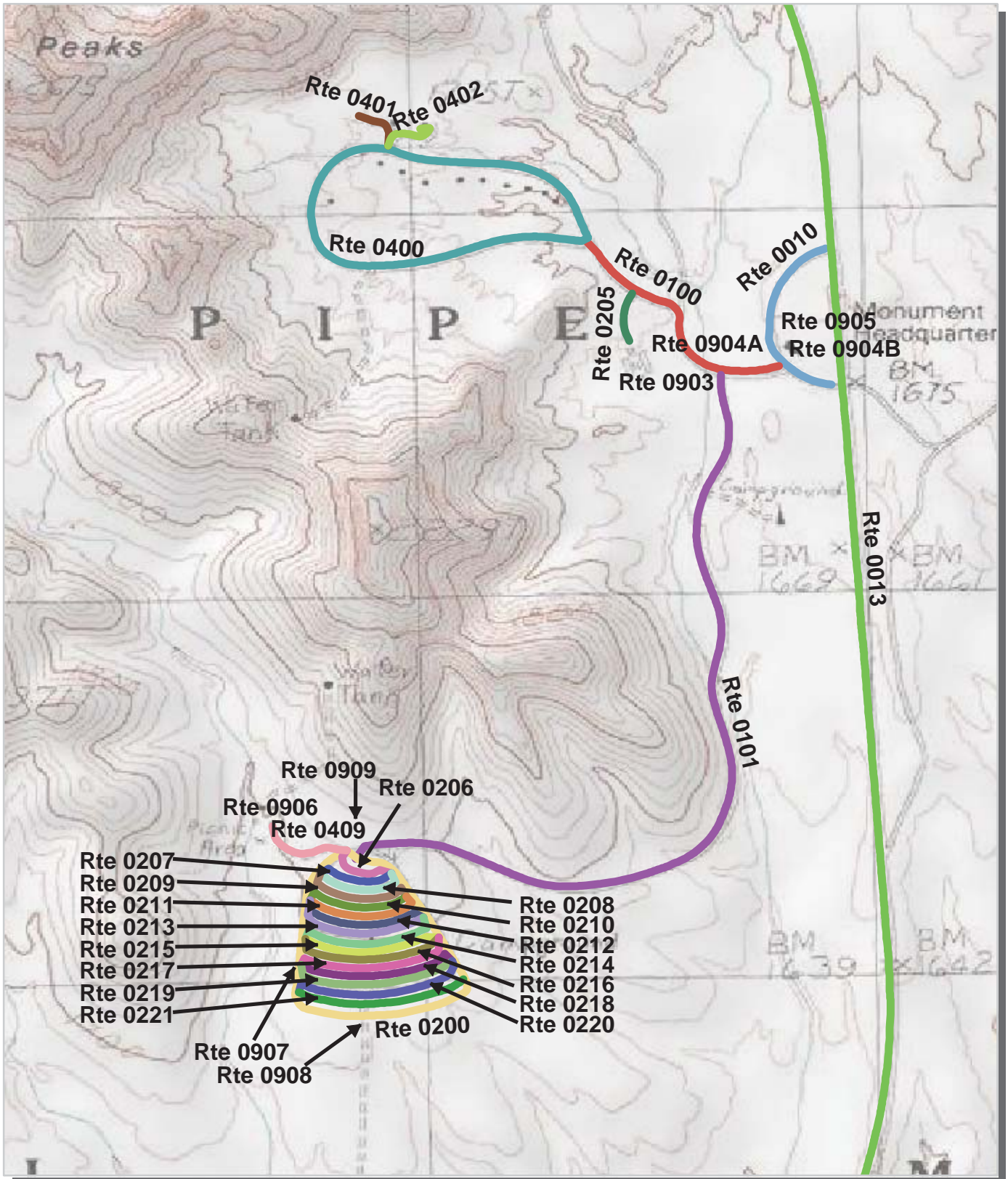
Organ Pipe Cactus National Monument Route Location Area Map 1



Unique colors used to differentiate routes



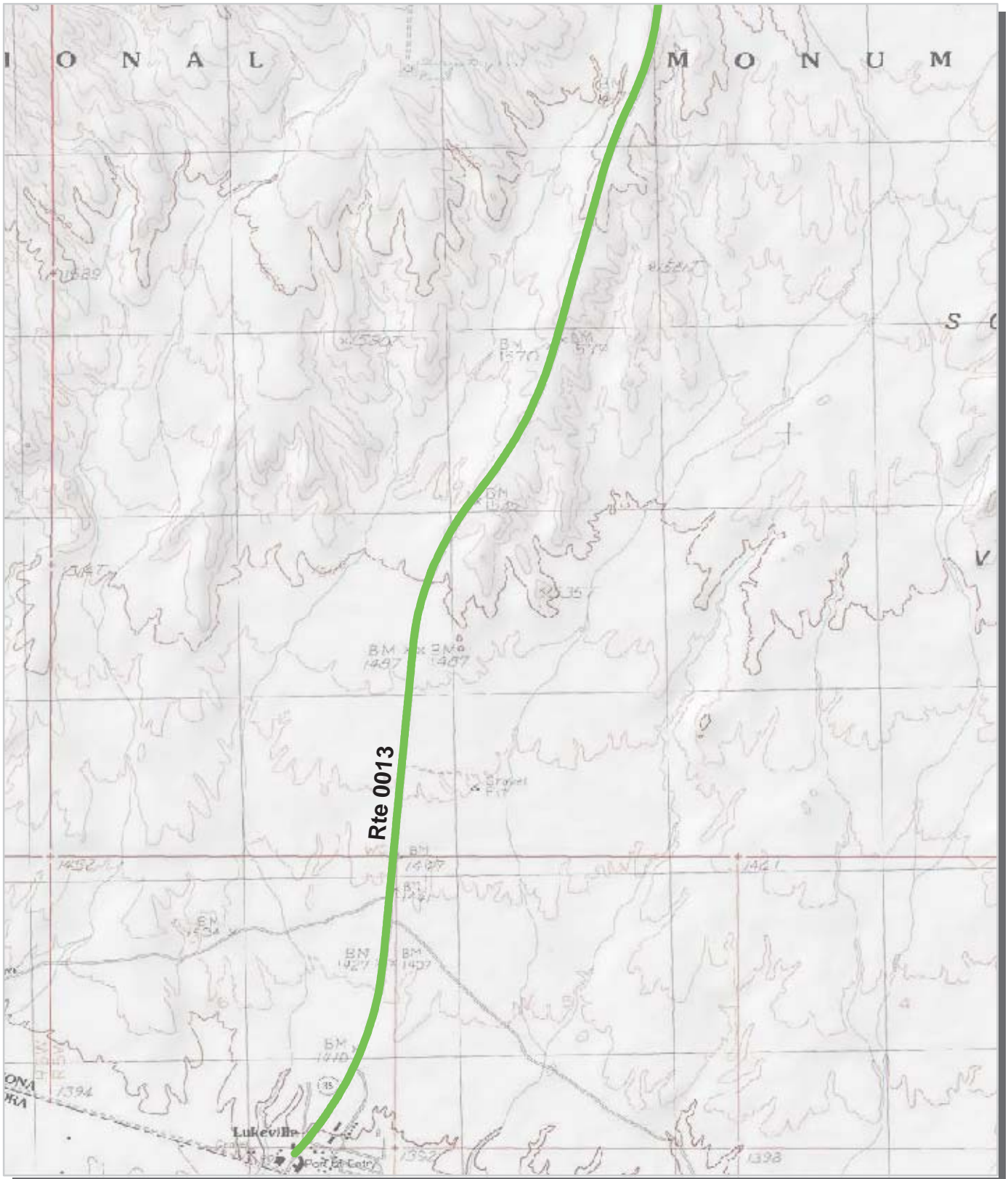
Organ Pipe Cactus National Monument Route Location Area Map 2



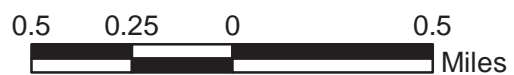
Unique colors used to differentiate routes



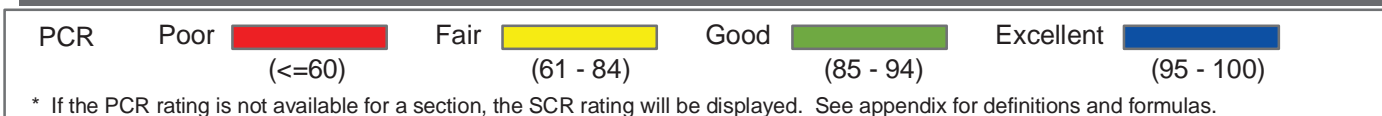
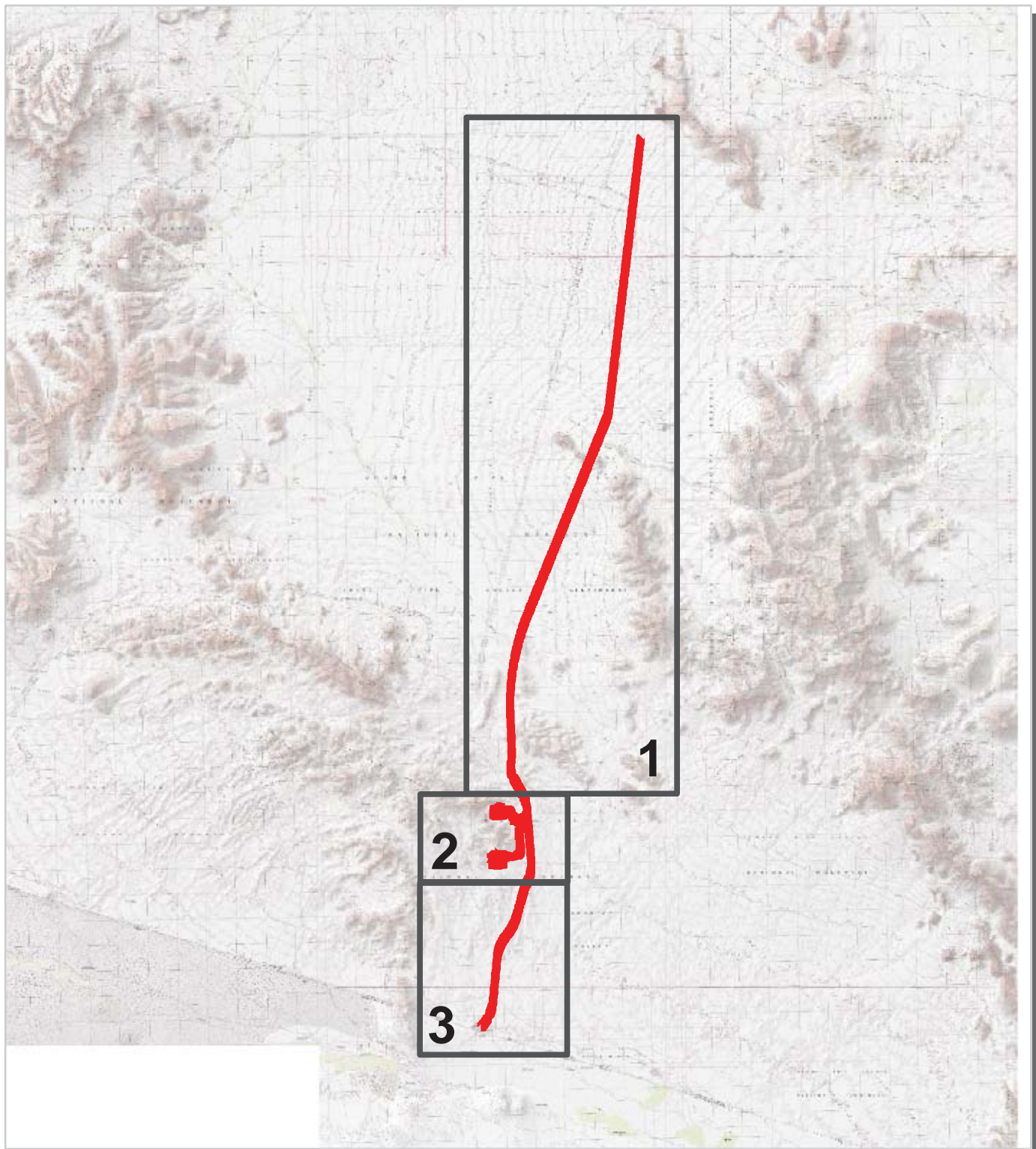
Organ Pipe Cactus National Monument Route Location Area Map 3



Unique colors used to differentiate routes



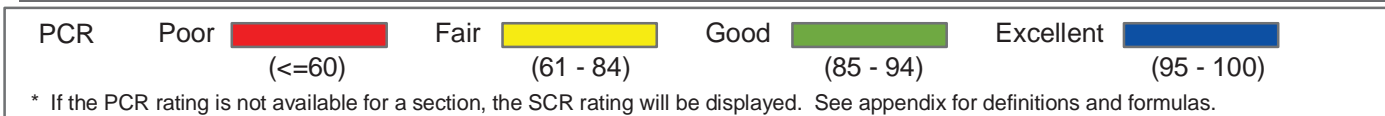
Organ Pipe Cactus National Monument Route Condition Key Map PCR - Mile by Mile



Organ Pipe Cactus National Monument Route Condition Area Map 1 PCR - Mile by Mile



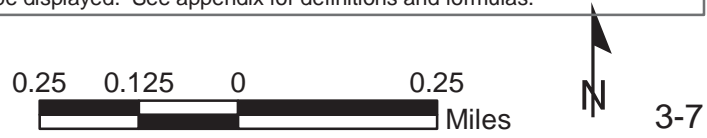
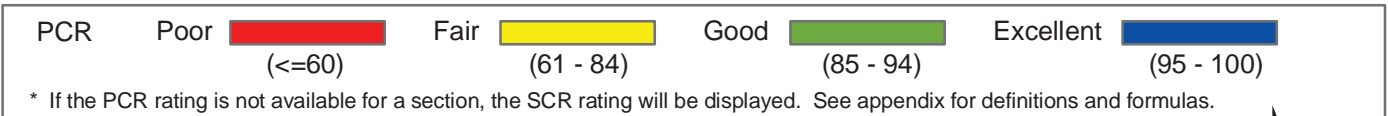
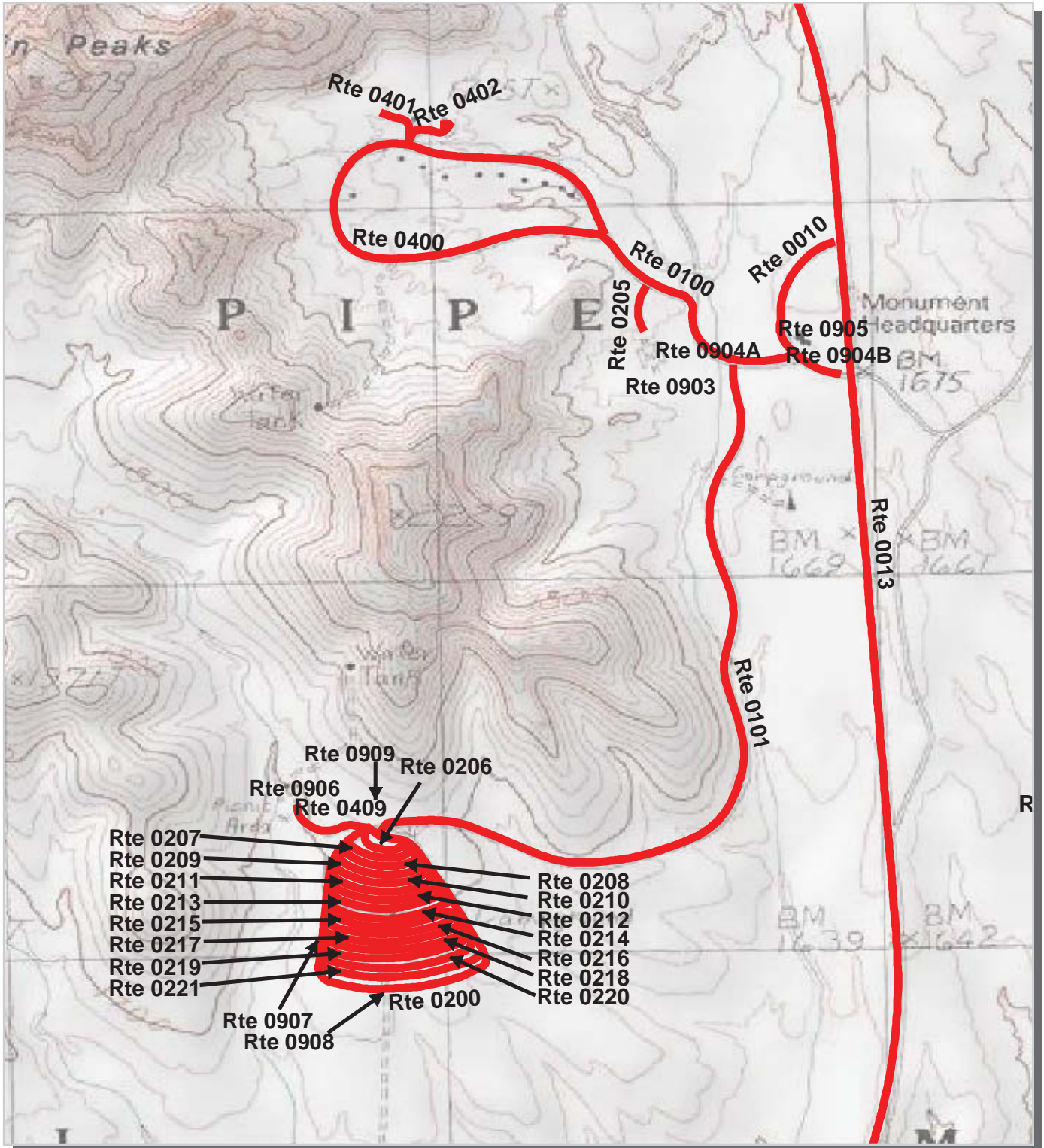
Rte 0013



Organ Pipe Cactus National Monument

Route Condition Area Map 2

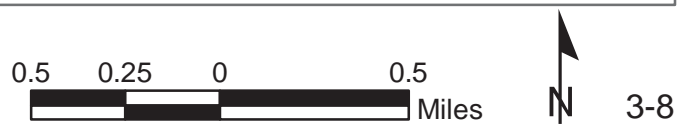
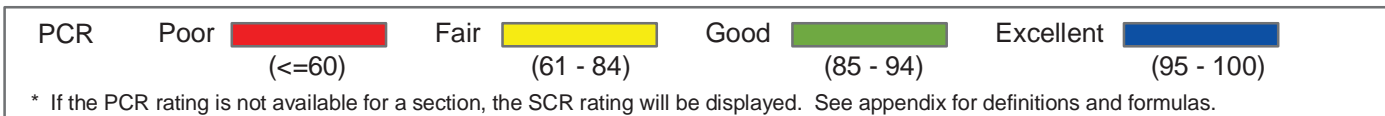
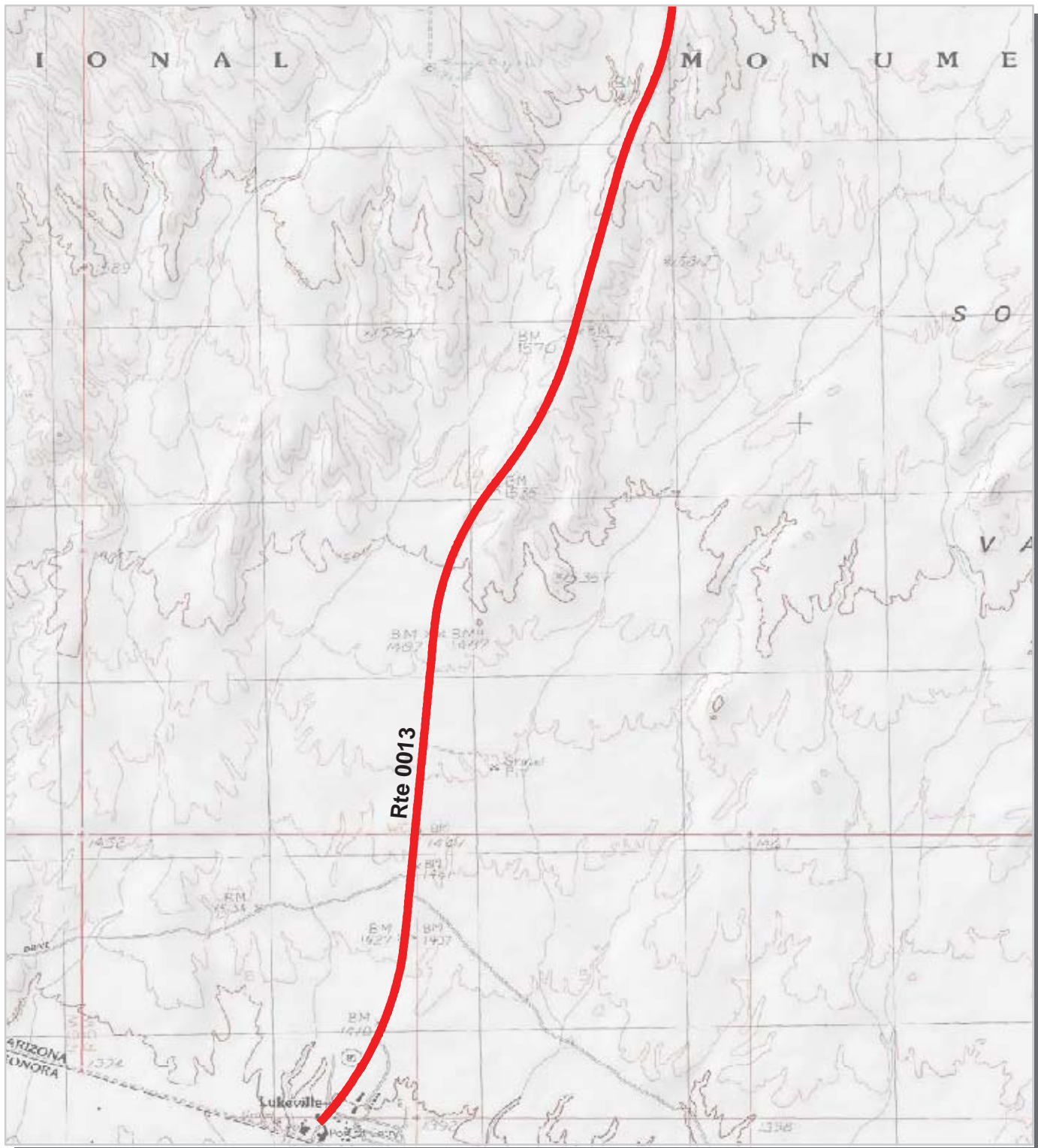
PCR - Mile by Mile



Organ Pipe Cactus National Monument

Route Condition Area Map 3

PCR - Mile by Mile



NPS/RIP Route ID Report

(Numerical By Route #)

Shading Color Key:

Red text denotes approx. mileage

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

ORPI

Organ Pipe Cactus National Monument

Rte. #	FMSS Asset #	Route Name	Route Description		Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
			From	To							
0010	72387	VISITOR CENTER DRIVE	From Route 0013 (State Route 85)	To Route 0013 (State Route 85)	0.32	0.00	0.32	1	1	0	OC
0011	74168	AJO MOUNTAIN DRIVE	From Route 0013 (State Route 85)	To End of Loop	1.18	16.13	17.31	1	1	0	AS
0012	74576	PUERTO BLANCO DRIVE	From Route 0100	To State Route 85	0.00	37.90	37.90	1	2	0	OT
0013		STATE ROUTE 85	From North Park Boundary	To South Park Boundary	22.65	0.00	22.65	1	2	0	AS
0100	72452	RESIDENCE ACCESS ROAD	From Route 0010	To Route 0400	0.38	0.00	0.38	5	2	0	OC
0101	72864	TWIN PEAKS ACCESS ROAD	From Route 0100	To Route 0200	1.32	0.00	1.32	1	2	0	OC
0200	72866	CAMPGROUND LOOP ROAD	From Route 0101 at the intersection with Route 0409	Around outside Campground Loop to Route 0101	0.82	0.00	0.82	3	1	0	OC
0201	74164	CAMINO DE DOS REPUBLICAS	From State Highway 85	To Dos Lomitas Ranch	0.00	4.90	4.90	2	1	0	OT
0202	74266	SENITA BASIN ROAD	From Route 0012	To Route 0901	0.00	4.50	4.50	2	2	0	OT
0203	74269	QUITOBAQUITO ROAD	From Route 0012	To Route 0900	0.00	0.40	0.40	2	2	0	OT
0204	74171	ALAMO CANYON ROAD	From State Highway 85	To Alamo Canyon Trailhead	0.00	3.30	3.30	2	2	0	OT
0205	72685	MAINTENANCE YARD ACCESS ROAD	From Route 0100	To Route 0903	0.10	0.00	0.10	5	2	0	OC
0206		CAMPGROUND SITES 1-6 ACCESS	From Route 0200	To Route 0200	0.09	0.00	0.09	3	1	0	OC
0207		CAMPGROUND SITES 7-15 ACCESS	From Route 0200	To Route 0200	0.11	0.00	0.11	3	1	0	OC
0208		CAMPGROUND SITES 16-23 ACCESS	From Route 0200	To Route 0200	0.13	0.00	0.13	3	1	0	OC
0209		CAMPGROUND SITES 24-34 ACCESS	From Route 0200	To Route 0200	0.15	0.00	0.15	3	1	0	OC
0210		CAMPGROUND SITES 35-45 ACCESS	From Route 0200	To Route 0200	0.16	0.00	0.16	3	1	0	OC
0211		CAMPGROUND SITES 46-57 ACCESS	From Route 0200	To Route 0200	0.17	0.00	0.17	3	1	0	OC
0212		CAMPGROUND SITES 58-70 ACCESS	From Route 0200	To Route 0200	0.18	0.00	0.18	3	1	0	OC
0213		CAMPGROUND SITES 71-85 ACCESS	From Route 0200	To Route 0200	0.19	0.00	0.19	3	1	0	OC
0214		CAMPGROUND SITES 86-95 ACCESS	From Route 0200	To Route 0200	0.20	0.00	0.20	3	1	0	OC
0215		CAMPGROUND SITES 96-112 ACCESS	From Route 0200	To Route 0200	0.20	0.00	0.20	3	1	0	OC
0216		CAMPGROUND SITES 113-128 ACCESS	From Route 0200	To Route 0200	0.21	0.00	0.21	3	1	0	OC
0217		CAMPGROUND SITES 129-145 ACCESS	From Route 0200	To Route 0200	0.22	0.00	0.22	3	1	0	OC
0218		CAMPGROUND SITES 146-158 ACCESS	From Route 0200	To Route 0200	0.23	0.00	0.23	3	1	0	OC
0219		CAMPGROUND SITES 159-174 ACCESS	From Route 0200	To Route 0200	0.23	0.00	0.23	3	1	0	OC
0220		CAMPGROUND SITES 175-191 ACCESS	From Route 0200	To Route 0200	0.25	0.00	0.25	3	1	0	OC
0221		CAMPGROUND SITES 192-208 ACCESS	From Route 0200	To Route 0200	0.26	0.00	0.26	3	1	0	OC

NPS/RIP Route ID Report

(Numerical By Route #)

Shading Color Key:

Red text denotes
approx. mileage

White = Paved Routes, ARAN Driven

Yellow = Unpaved Routes, ARAN not Driven

Blue = All Paved Parking Areas

Grey = Paved Routes, ARAN not Driven

Red =

Green = All Unpaved Parking Areas

Black = Paved State, Local or Private non-NPS Routes, ARAN Driven

Purple =

ORPI

Organ Pipe Cactus National Monument

Rte. #	FMSS Asset #	Route Name	Route Description		Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
			From	To							
0400	72480	RESIDENCE LOOP ROAD	From Route 0100	To Loop through Residence Area	0.97	0.00	0.97	5	2	0	OC
0401	72473	SPUR RESIDENCE ROAD WEST	From Route 0402	To Residence Driveway	0.08	0.00	0.08	5	1	0	OC
0402	72455	SPUR RESIDENCE ROAD EAST	From Route 0400	To Residence Loop	0.12	0.00	0.12	5	1	0	OC
0403		CAMPGROUND RANGER ROAD	From Route 0409	To Route 0909	0.00	0.10	0.10	6	1	0	OT
0404	74274	POZO NUEVO ROAD	From Route 0012	To Route 0405	0.00	13.95	13.95	4	1	0	OT
0405	74277	BATES WELL ROAD	From West Park Boundary	To North Park Boundary	0.00	13.25	13.25	2	1	0	OT
0406	74280	ARMENTA ROAD	From Route 0405	To Route 0013	0.00	9.35	9.35	1	1	0	OT
0407	72874	SEWAGE LAGOON ROAD	From Route 0908	To Sewage Lagoon	0.00	0.25	0.25	6	1	0	OT
0408	72482	100 K WATER TANK ROAD	From Route 0400	To Water Tank	0.00	0.31	0.31	6	1	0	OT
0409	72870	GROUP CAMPGROUND ACCESS ROAD	From End of Route 0101	To Route 0906	0.14	0.08	0.22	3	2	0	OC
0410	72862	DOMESTIC WATER WELLS ROAD	From Route 0101	To Water Wells	0.00	0.23	0.23	6	1	0	OT
0412	74286	BORROW PIT ROAD	From State Route 85	To Borrow Pit	0.00	0.50	0.50	6	1	0	OT
0413		FIREARMS RANGE ROAD	From State Route 85	To Firearms Range	0.00	0.50	0.50	6	1	0	OT
0416	72485	VIP ROAD	From Route 0400	To End	0.00	0.10	0.10	5	1	0	OT
0417		MAINTENANCE BONEYARD ROAD	From Route 0205	To End	0.00	0.10	0.10	6	1	0	OT
0700	72867	50 K WATER TANK ROAD	From	To	0.00	0.19	0.19	ZZ		0	GR
0900		QUITOBAQUITO PARKING	From Route 0203	To Parking	0.00	0.00	0.00	9	0	7,200	OT
0901		SENITA BASIN PARKING	From Route 0202	To Parking	0.00	0.00	0.00	9	0	5,700	OT
0902		GOLDEN BELL MINE PARKING	From Route 0203	To Parking	0.00	0.00	0.00	9	0	5,100	OT
0903	72690	MAINTENANCE YARD	From Route 0205	To Parking	0.00	0.00	0.00	9	0	25,741	OC
0904A	72424	VISITOR CENTER PARKING A	From Route 0010	To Route 0100	0.00	0.00	0.00	9	0	11,976	OC
0904B		VISITOR CENTER PARKING B	Adjacent to Route 0010		0.00	0.00	0.00	9	0	9,702	OC
0905		OFFICE PARKING	From Route 0010	To Parking	0.00	0.00	0.00	9	0	5,644	CO
0906		GROUP CAMPGROUND PARKING	From End of Route 0409	To Parking	0.00	0.00	0.00	9	0	10,658	CO
0907		CAMPGROUND PARKING	From Route 0200	To Parking	0.00	0.00	0.00	9	0	903	OC
0908		DUMP STATION LOOP	From Route 0200	To Route 0200	0.00	0.00	0.00	9	0	7,150	OC
0909		CAMPGROUND RANGER PARKING	From Route 0203	To Parking	0.00	0.00	0.00	9	0	2,640	AS
Totals:					31.06	106.04	137.10			92,414	

NPS/RIP Route ID Report

(Numerical By Route #)

Shading Color Key:

Red text denotes approx. mileage

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

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.
- Class 9 Boat Ramp - (Public and Administrative) Route Numbers 800-899.
Parking Area - (Public and Administrative) Route Numbers 900-1999.

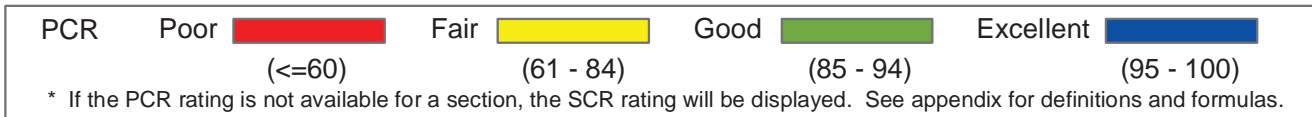
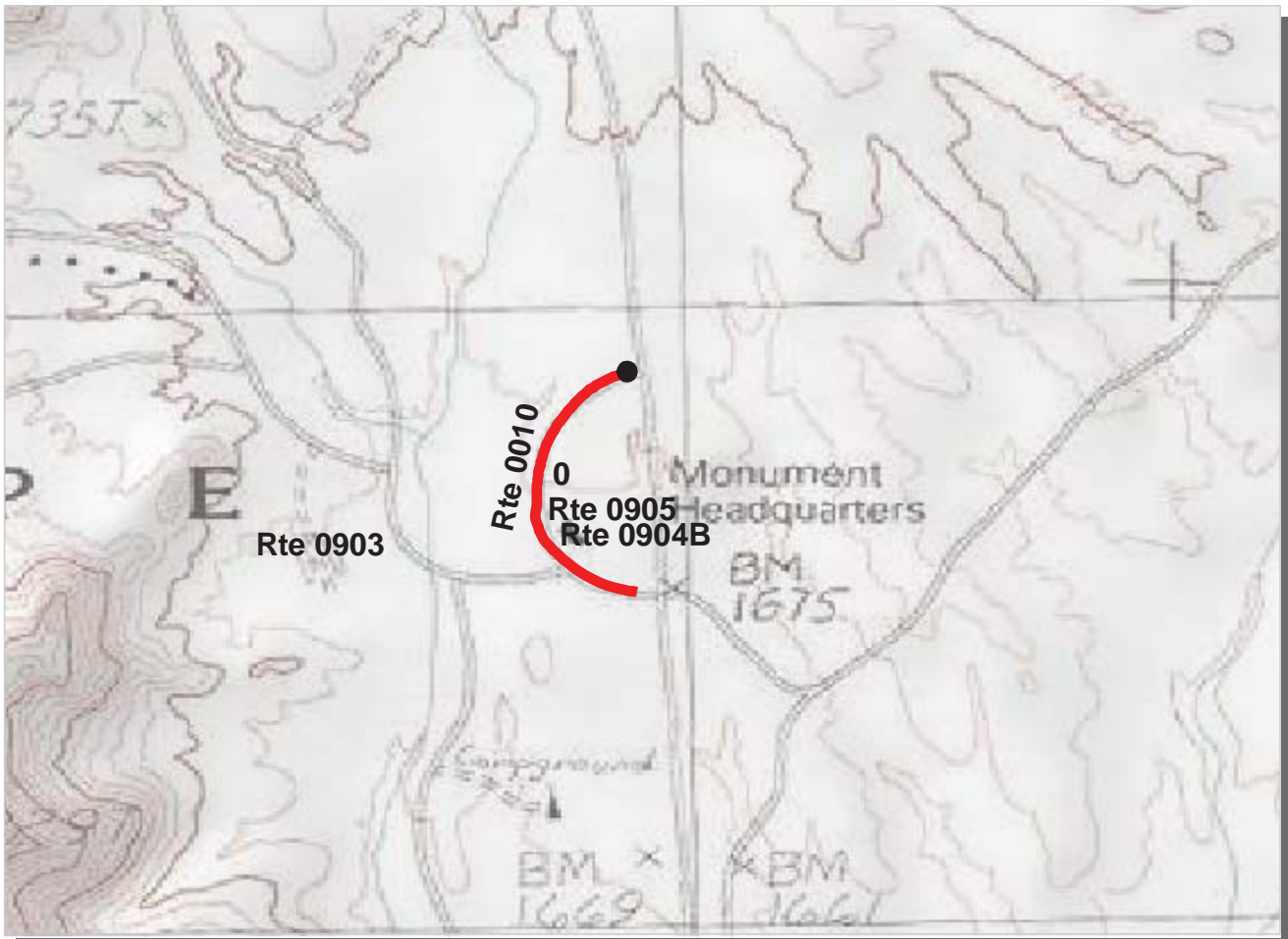
Surface Type Abbreviations:

- AS - Asphaltic Concrete Pavement
- CO - Portland Cement Concrete Pavement
- NC - New Chip Seal Pavement (Under 5 Years)
- OC - Old Chip Seal Pavement (5 Years and Greater)
- SS - Slurry Seal Pavement
- GR - Gravel Road Bed
- BR - Brick or Pavers Road Bed
- CB - Cobble Stone Road Bed
- SA - Sand Road Bed
- DT - Dirt or Native Material Road Bed
- OT - Other Materials Road Bed

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.

ZZ Functional Class Routes were added from FMSS Database. Final Route Number and Functional Class will be established during Park visit for Cycle 4 data collection.



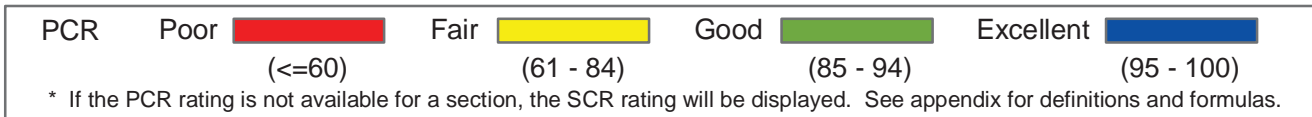
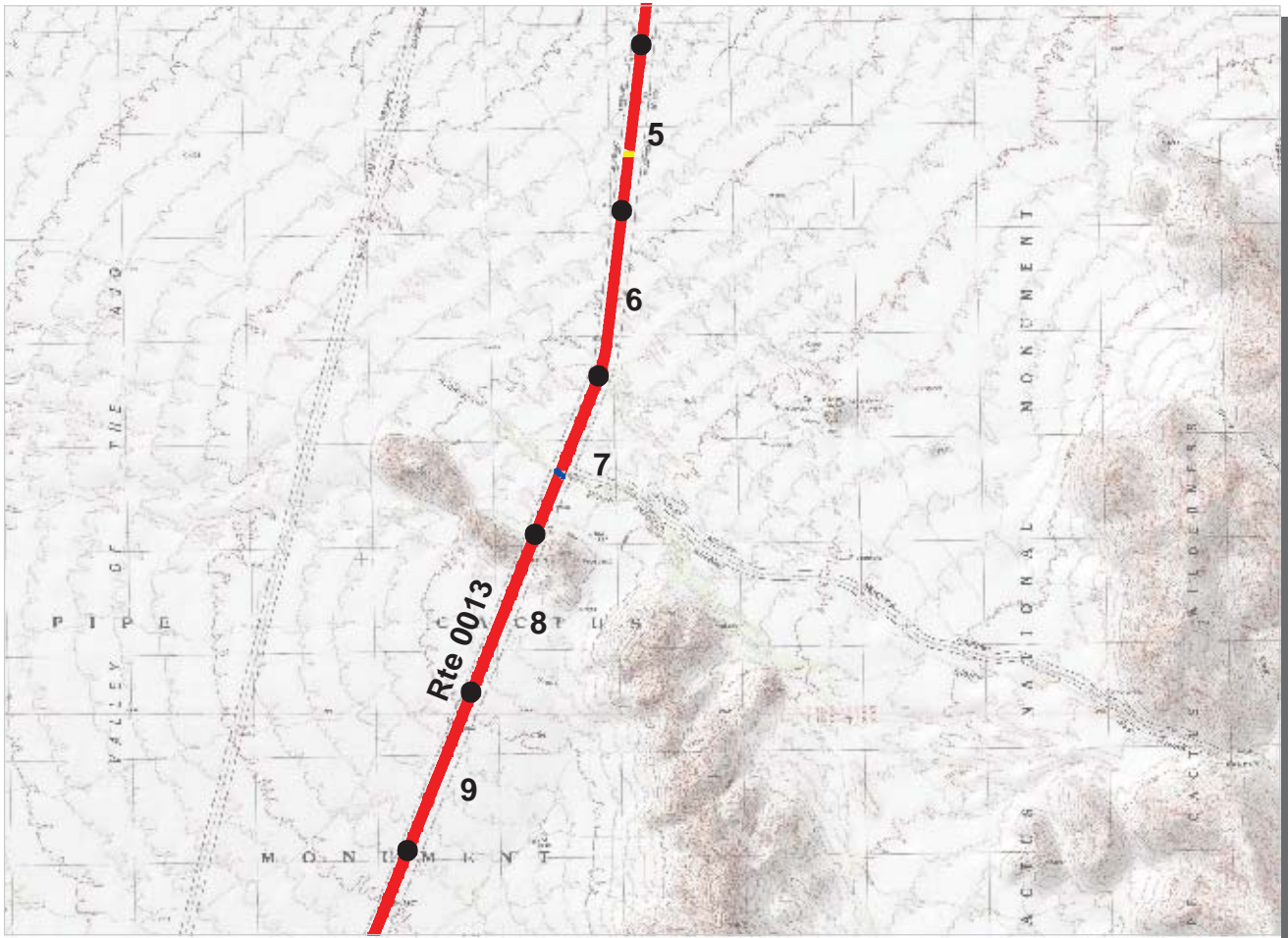
Intermountain Region
ORPI : Organ Pipe Cactus National Monument

ROUTE: 0010 Visitor Center Drive **TOTAL LENGTH: 0.32 Miles**

Section Number	0				
Section Length (mi)	0.32				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	20				
Lane Width (ft)	11				
Shoulder Width (ft)	9				
Roadway Condition Information					
PCR (Pavement Condition Rating)	3				
RCI (Roughness Condition Index)	66				
SCR (Surface Condition Rating)	0				
Alligator Cracking Index	58				
Rutting Index	17				
Patching Index	99				
Transverse Cracking Index	72				
Longitudinal Cracking Index	86				
Shoulder Condition Rating	N/C				
Drainage Condition Rating	N/C				

ROUTE: 0010 Visitor Center Drive

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



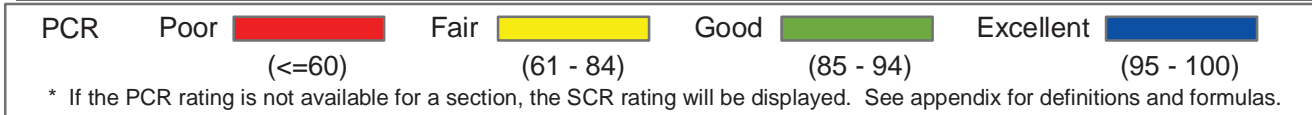
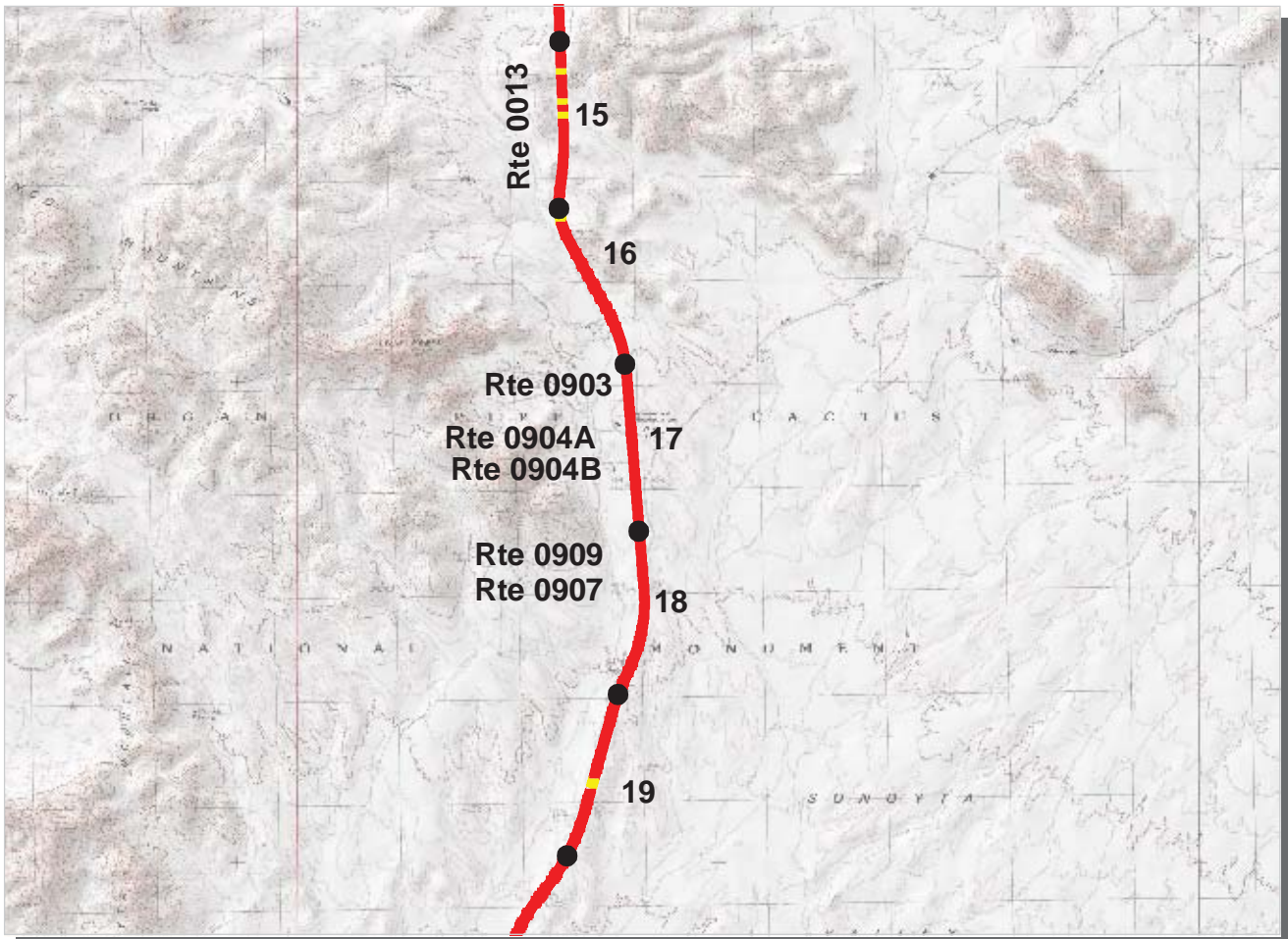
Intermountain Region
ORPI : Organ Pipe Cactus National Monument

ROUTE: 0013 State Route 85 **TOTAL LENGTH: 22.65 Miles**

Section Number	5	6	7	8	9
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	22	22	21	20	20
Lane Width (ft)	11	12	11	10	10
Shoulder Width (ft)	3	4	6	3	6
Roadway Condition Information					
PCR (Pavement Condition Rating)	36	40	32	33	32
RCI (Roughness Condition Index)	72	74	66	78	78
SCR (Surface Condition Rating)	12	17	10	3	1
Alligator Cracking Index	99	99	99	99	100
Rutting Index	28	39	42	39	39
Patching Index	100	100	100	100	100
Transverse Cracking Index	90	86	77	73	70
Longitudinal Cracking Index	91	91	86	81	77
Shoulder Condition Rating	N/C	N/C	N/C	N/C	N/C
Drainage Condition Rating	N/C	N/C	N/C	N/C	N/C

ROUTE: 0013 State Route 85

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



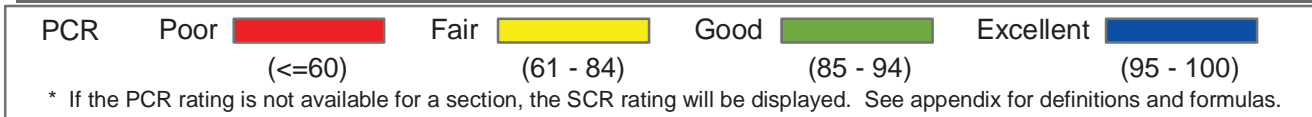
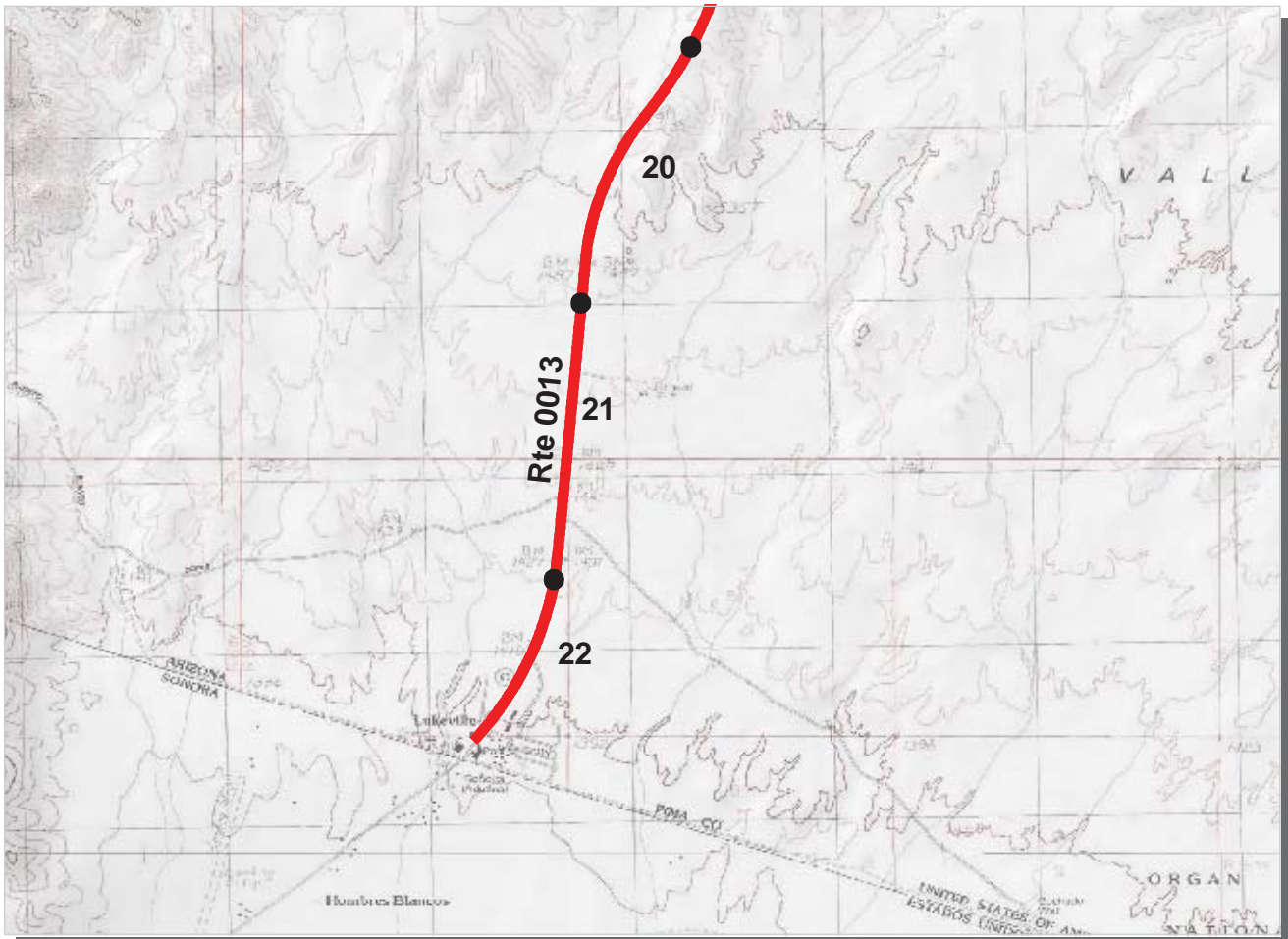
Intermountain Region
ORPI : Organ Pipe Cactus National Monument

ROUTE: 0013 State Route 85 **TOTAL LENGTH: 22.65 Miles**

Section Number	15	16	17	18	19
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	21	21	21	22	21
Lane Width (ft)	10	10	10	10	10
Shoulder Width (ft)	6	6	6	6	6
Roadway Condition Information					
PCR (Pavement Condition Rating)	51	43	46	48	53
RCI (Roughness Condition Index)	84	81	88	92	91
SCR (Surface Condition Rating)	29	18	19	19	28
Alligator Cracking Index	99	99	99	99	100
Rutting Index	48	52	52	44	50
Patching Index	100	100	100	100	100
Transverse Cracking Index	88	80	80	86	88
Longitudinal Cracking Index	93	84	84	88	89
Shoulder Condition Rating	N/C	N/C	N/C	N/C	N/C
Drainage Condition Rating	N/C	N/C	N/C	N/C	N/C

ROUTE: 0013 State Route 85

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



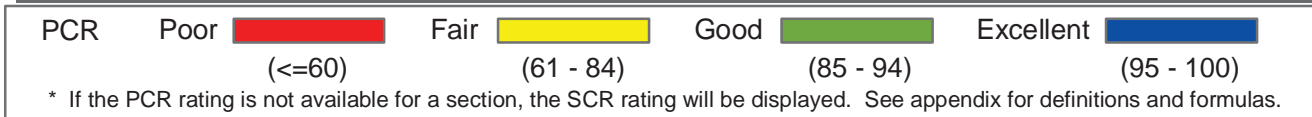
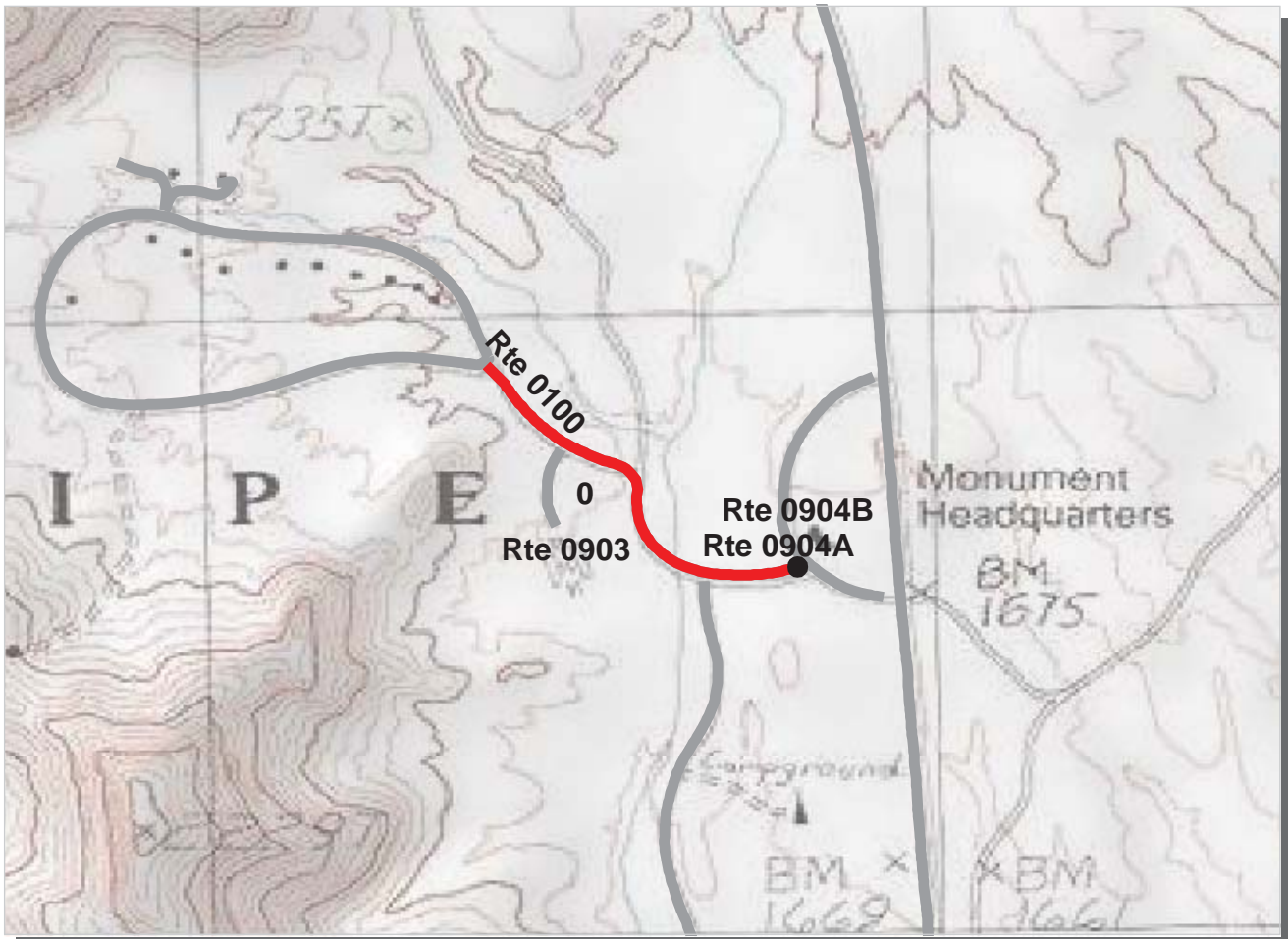
Intermountain Region
ORPI : Organ Pipe Cactus National Monument

ROUTE: 0013 State Route 85 **TOTAL LENGTH: 22.65 Miles**

Section Number	20	21	22		
Section Length (mi)	1.00	1.00	0.65		
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2		
Paved Width (ft)	21	21	20		
Lane Width (ft)	10	10	10		
Shoulder Width (ft)	6	6	6		
Roadway Condition Information					
PCR (Pavement Condition Rating)	47	47	39		
RCI (Roughness Condition Index)	86	86	78		
SCR (Surface Condition Rating)	22	21	13		
Alligator Cracking Index	99	97	99		
Rutting Index	47	42	34		
Patching Index	100	99	100		
Transverse Cracking Index	88	91	87		
Longitudinal Cracking Index	85	86	86		
Shoulder Condition Rating	N/C	N/C	N/C		
Drainage Condition Rating	N/C	N/C	N/C		

ROUTE: 0013 State Route 85

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



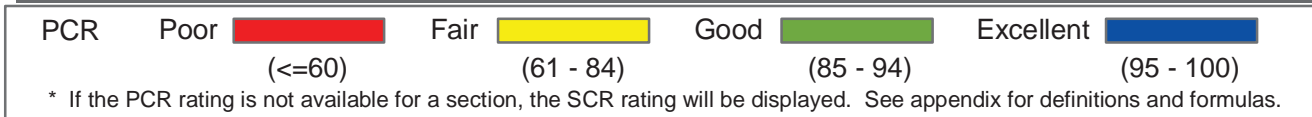
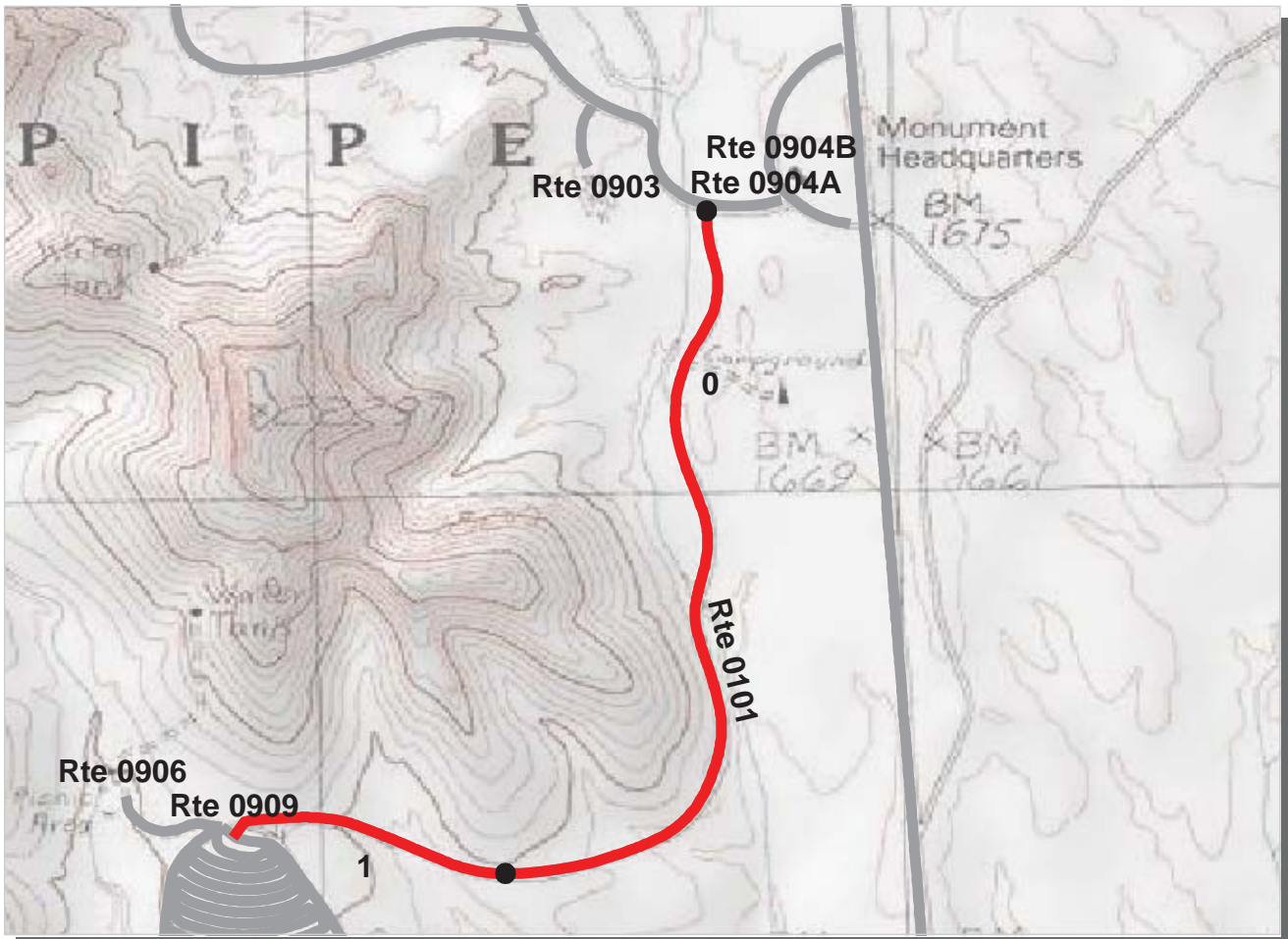
Intermountain Region
ORPI : Organ Pipe Cactus National Monument

ROUTE: 0100 Residence Access Road **TOTAL LENGTH: 0.38 Miles**

Section Number	0				
Section Length (mi)	0.38				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	21				
Lane Width (ft)	13				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	12				
RCI (Roughness Condition Index)	55				
SCR (Surface Condition Rating)	0				
Alligator Cracking Index	4				
Rutting Index	19				
Patching Index	99				
Transverse Cracking Index	95				
Longitudinal Cracking Index	98				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

ROUTE: 0100 Residence Access Road

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



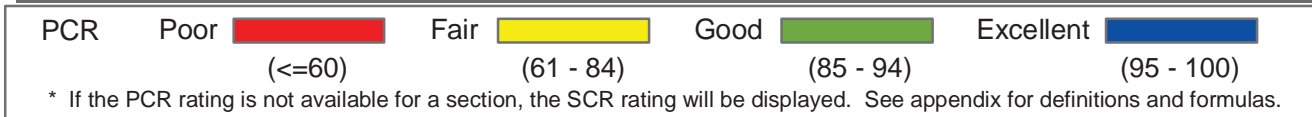
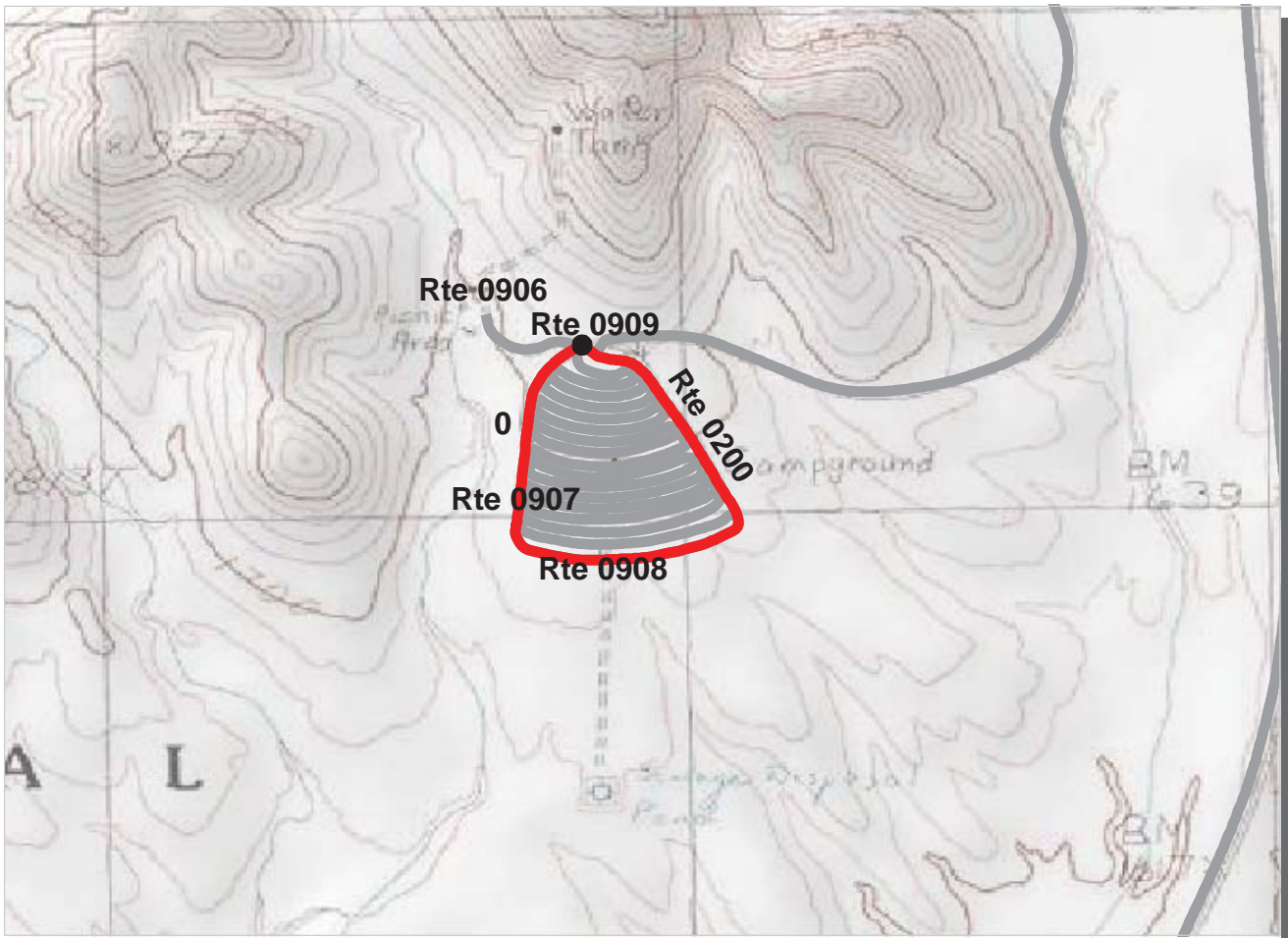
Intermountain Region
ORPI : Organ Pipe Cactus National Monument

ROUTE: 0101 Twin Peaks Access Road **TOTAL LENGTH: 1.32 Miles**

Section Number	0	1			
Section Length (mi)	1.00	0.32			
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	24	24			
Lane Width (ft)	13	12			
Shoulder Width (ft)	0	0			
Roadway Condition Information					
PCR (Pavement Condition Rating)	23	20			
RCI (Roughness Condition Index)	64	61			
SCR (Surface Condition Rating)	0	0			
Alligator Cracking Index	0	4			
Rutting Index	22	8			
Patching Index	99	99			
Transverse Cracking Index	99	98			
Longitudinal Cracking Index	99	99			
Shoulder Condition Rating	N/A	N/A			
Drainage Condition Rating	N/C	N/C			

ROUTE: 0101 Twin Peaks Access Road

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



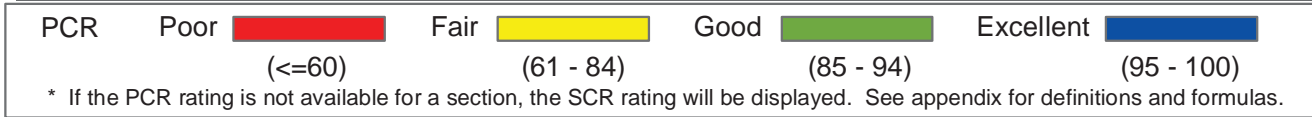
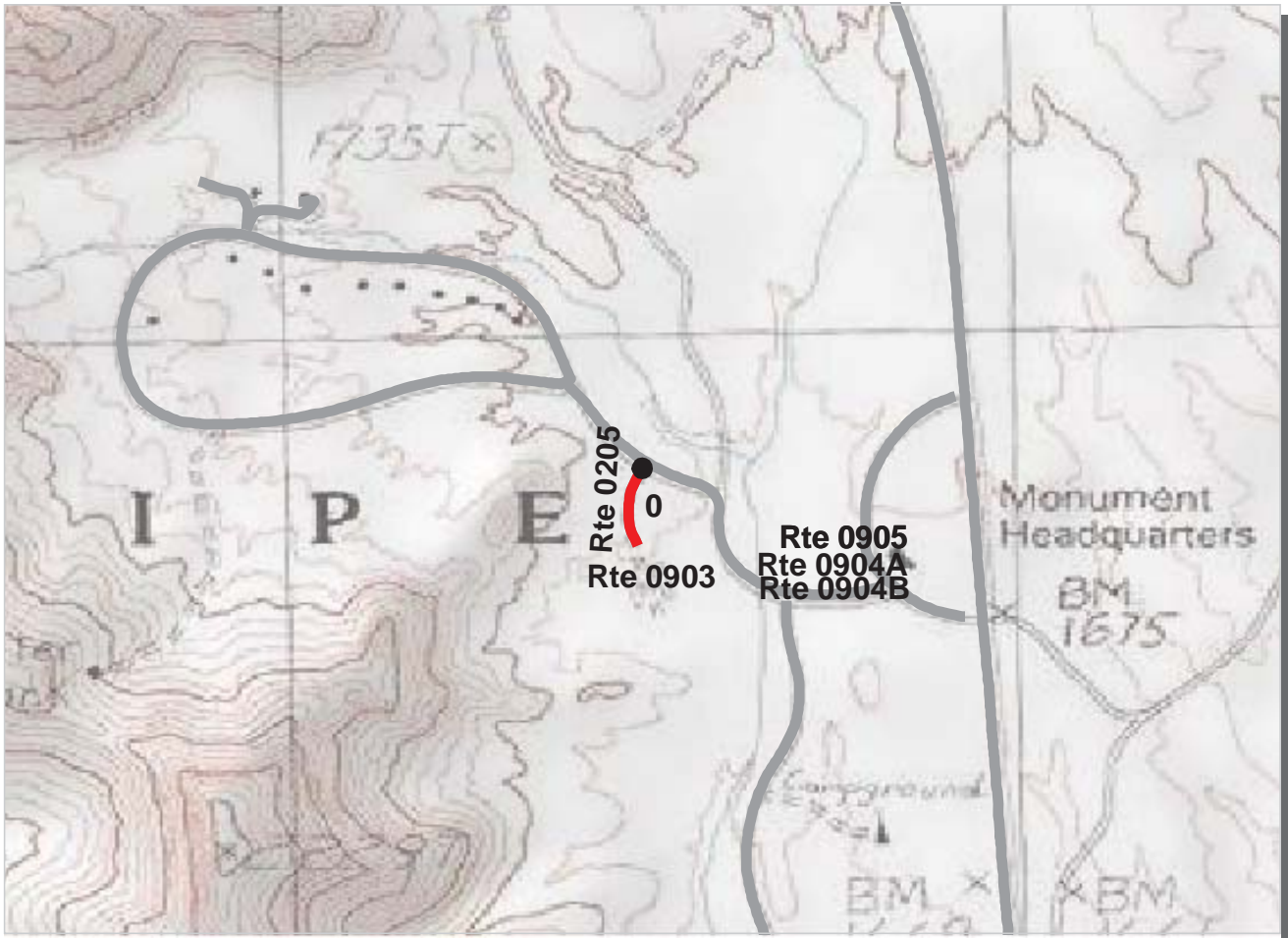
Intermountain Region
ORPI : Organ Pipe Cactus National Monument

ROUTE: 0200 Campground Loop Road **TOTAL LENGTH: 0.82 Miles**

Section Number	0				
Section Length (mi)	0.82				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	13				
Lane Width (ft)	13				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	11				
RCI (Roughness Condition Index)	38				
SCR (Surface Condition Rating)	0				
Alligator Cracking Index	24				
Rutting Index	19				
Patching Index	97				
Transverse Cracking Index	68				
Longitudinal Cracking Index	84				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

ROUTE: 0200 Campground Loop Road

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



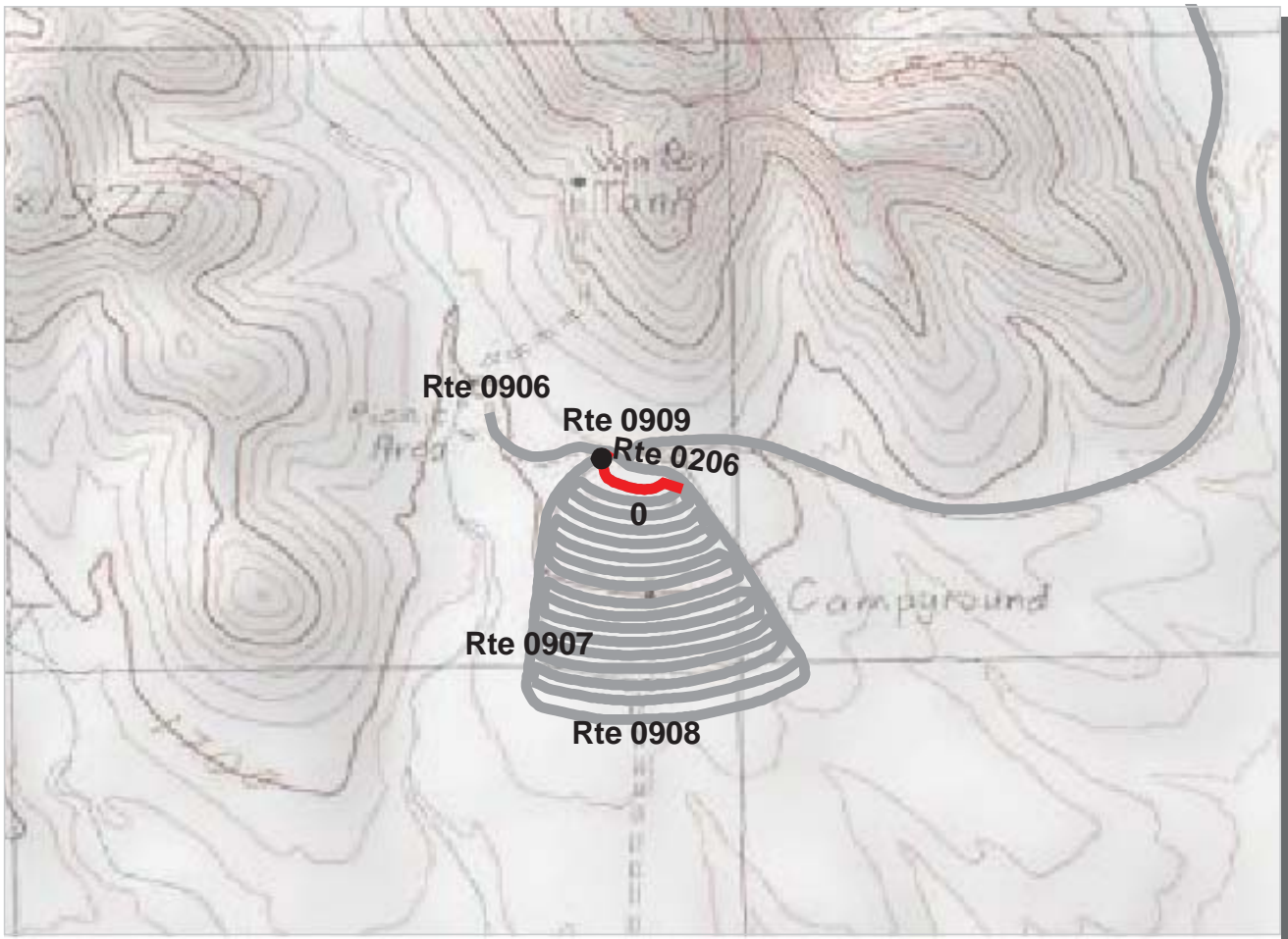
Intermountain Region
ORPI : Organ Pipe Cactus National Monument

ROUTE: 0205 Maintenance Yard Access Road **TOTAL LENGTH: 0.10 Miles**

Section Number	0			
Section Length (mi)	0.10			
AADT	**			
SADT	**			
ADT Date	**			
Cross Section Information				
Number of Lanes	2			
Paved Width (ft)	18			
Lane Width (ft)	10			
Shoulder Width (ft)	3			
Roadway Condition Information				
PCR (Pavement Condition Rating)	6			
RCI (Roughness Condition Index)	39			
SCR (Surface Condition Rating)	0			
Alligator Cracking Index	53			
Rutting Index	12			
Patching Index	97			
Transverse Cracking Index	68			
Longitudinal Cracking Index	93			
Shoulder Condition Rating	N/C			
Drainage Condition Rating	N/C			

ROUTE: 0205 Maintenance Yard Access Road

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



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.

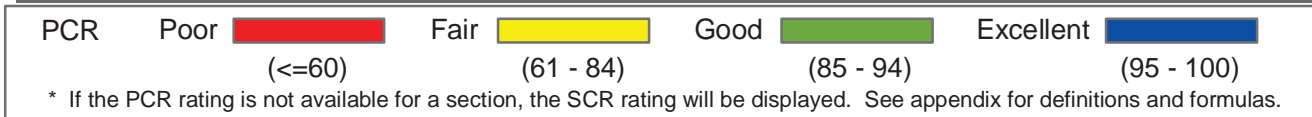
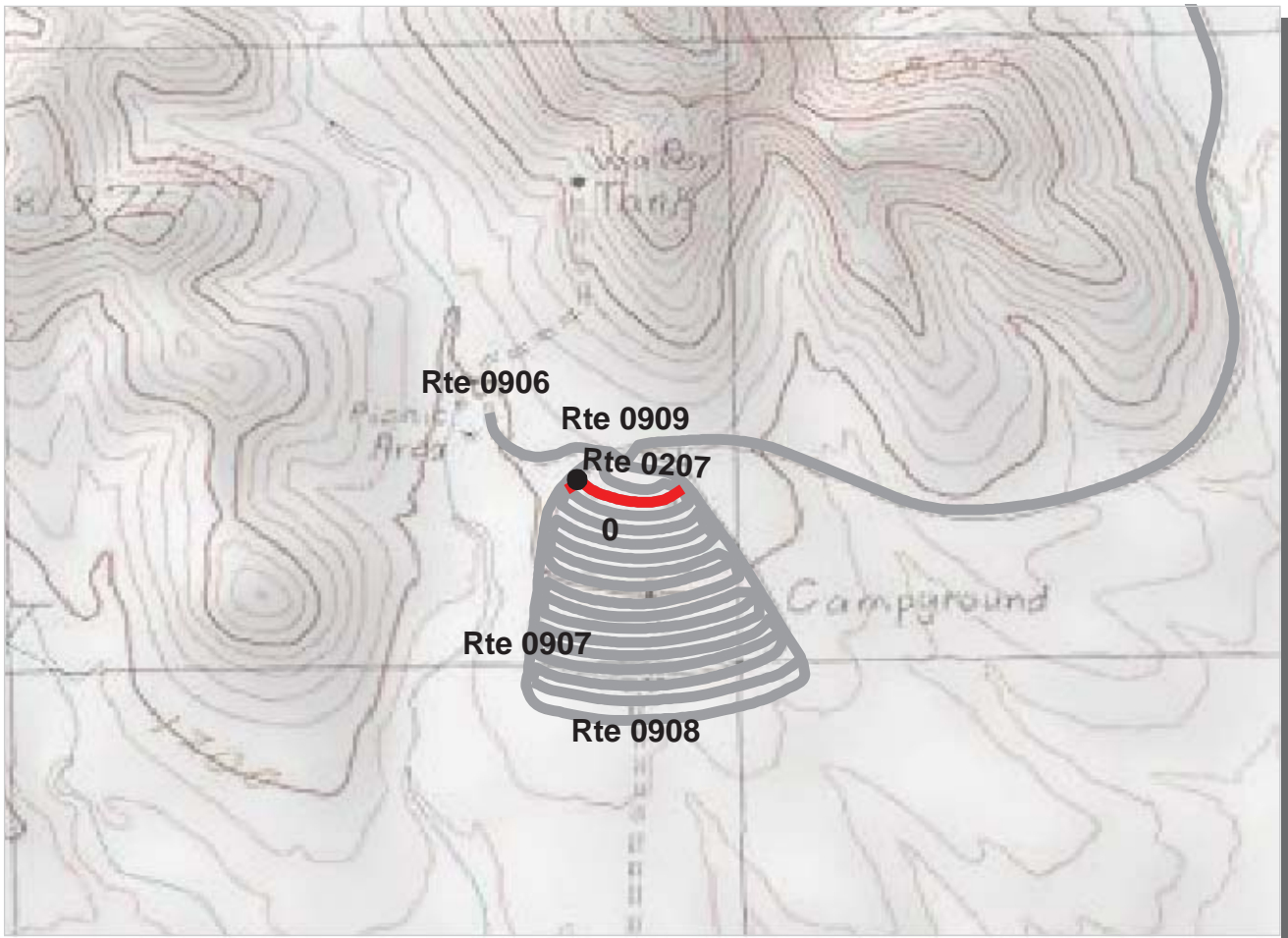
Intermountain Region
ORPI : Organ Pipe Cactus National Monument

ROUTE: 0206 Campground Sites 1-6 Access **TOTAL LENGTH: 0.09 Miles**

Section Number	0				
Section Length (mi)	0.09				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	10				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	6				
RCI (Roughness Condition Index)	37				
SCR (Surface Condition Rating)	0				
Alligator Cracking Index	29				
Rutting Index	35				
Patching Index	98				
Transverse Cracking Index	82				
Longitudinal Cracking Index	93				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

ROUTE: 0206 Campground Sites 1-6 Access

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



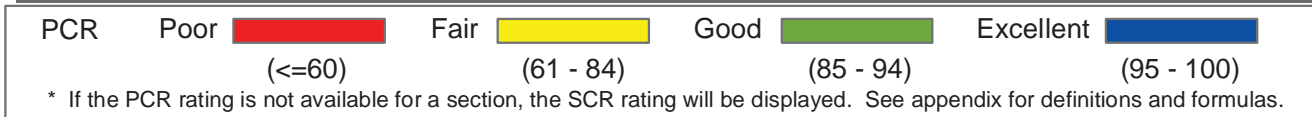
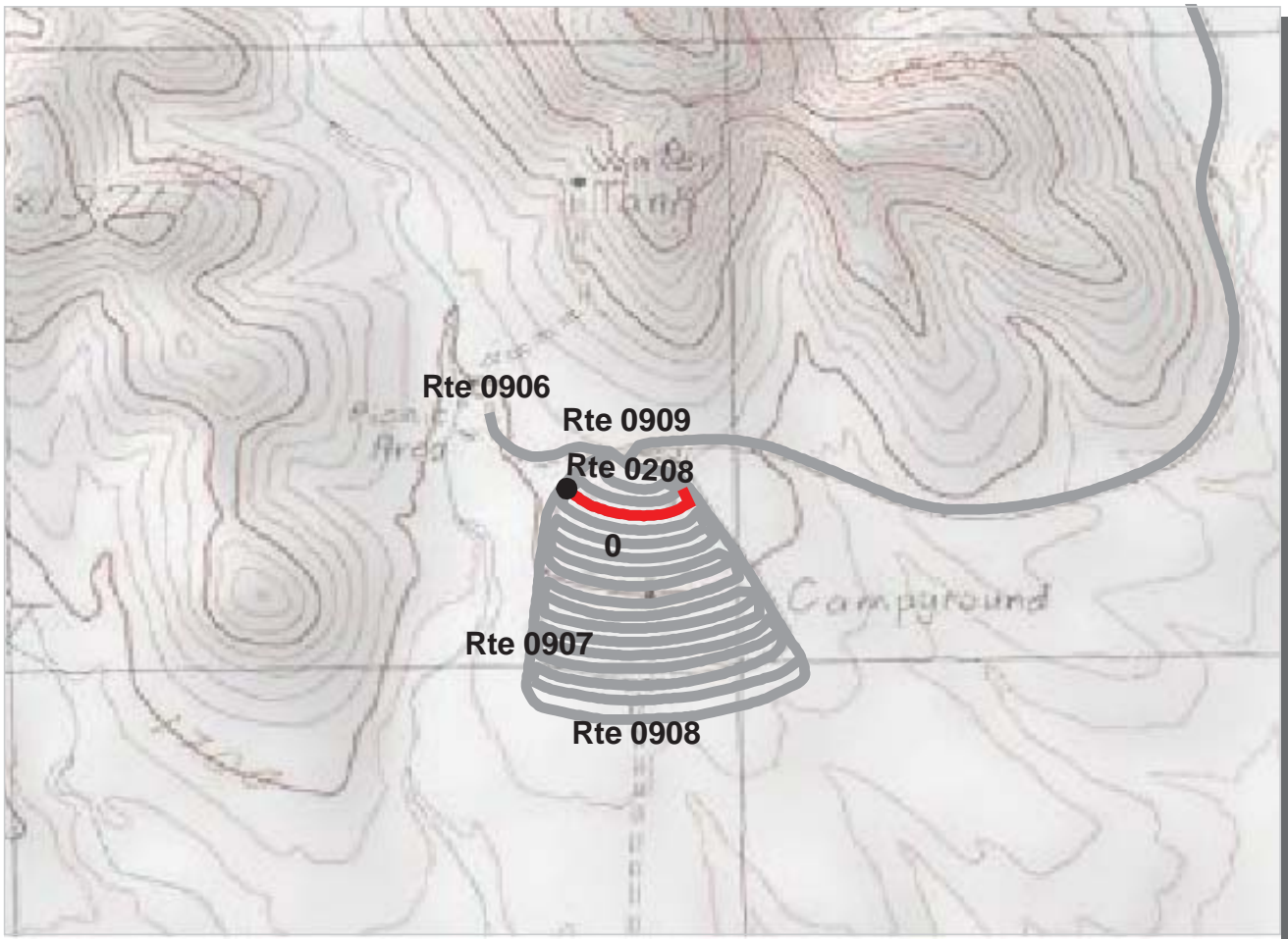
Intermountain Region
ORPI : Organ Pipe Cactus National Monument

ROUTE: 0207 Campground Sites 7-15 Access **TOTAL LENGTH: 0.11 Miles**

Section Number	0				
Section Length (mi)	0.11				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	11				
Lane Width (ft)	11				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	0				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	0				
Alligator Cracking Index	24				
Rutting Index	35				
Patching Index	98				
Transverse Cracking Index	85				
Longitudinal Cracking Index	92				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

ROUTE: 0207 Campground Sites 7-15 Access

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



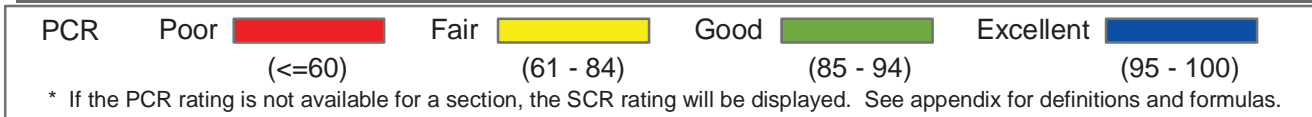
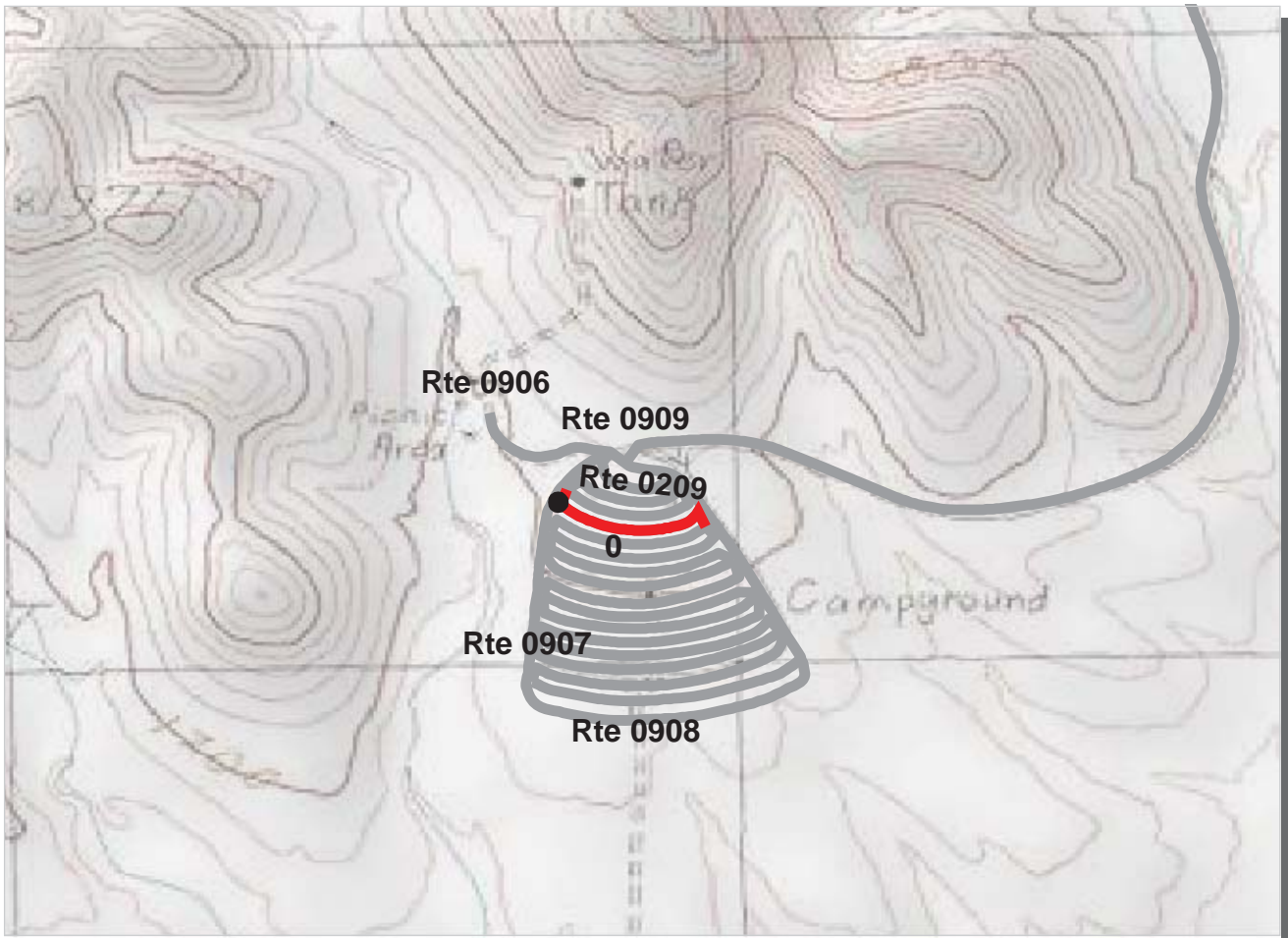
Intermountain Region
ORPI : Organ Pipe Cactus National Monument

ROUTE: 0208 Campground Sites 16-23 Access **TOTAL LENGTH: 0.13 Miles**

Section Number	0				
Section Length (mi)	0.13				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	10				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	1				
RCI (Roughness Condition Index)	29				
SCR (Surface Condition Rating)	0				
Alligator Cracking Index	38				
Rutting Index	34				
Patching Index	98				
Transverse Cracking Index	73				
Longitudinal Cracking Index	86				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

ROUTE: 0208 Campground Sites 16-23 Access

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



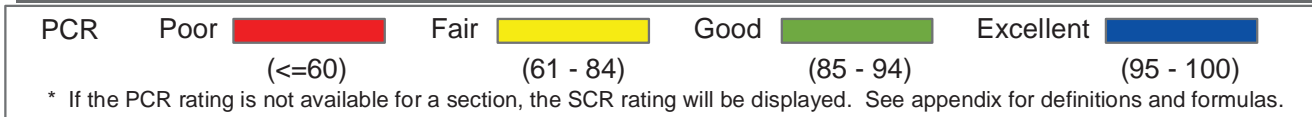
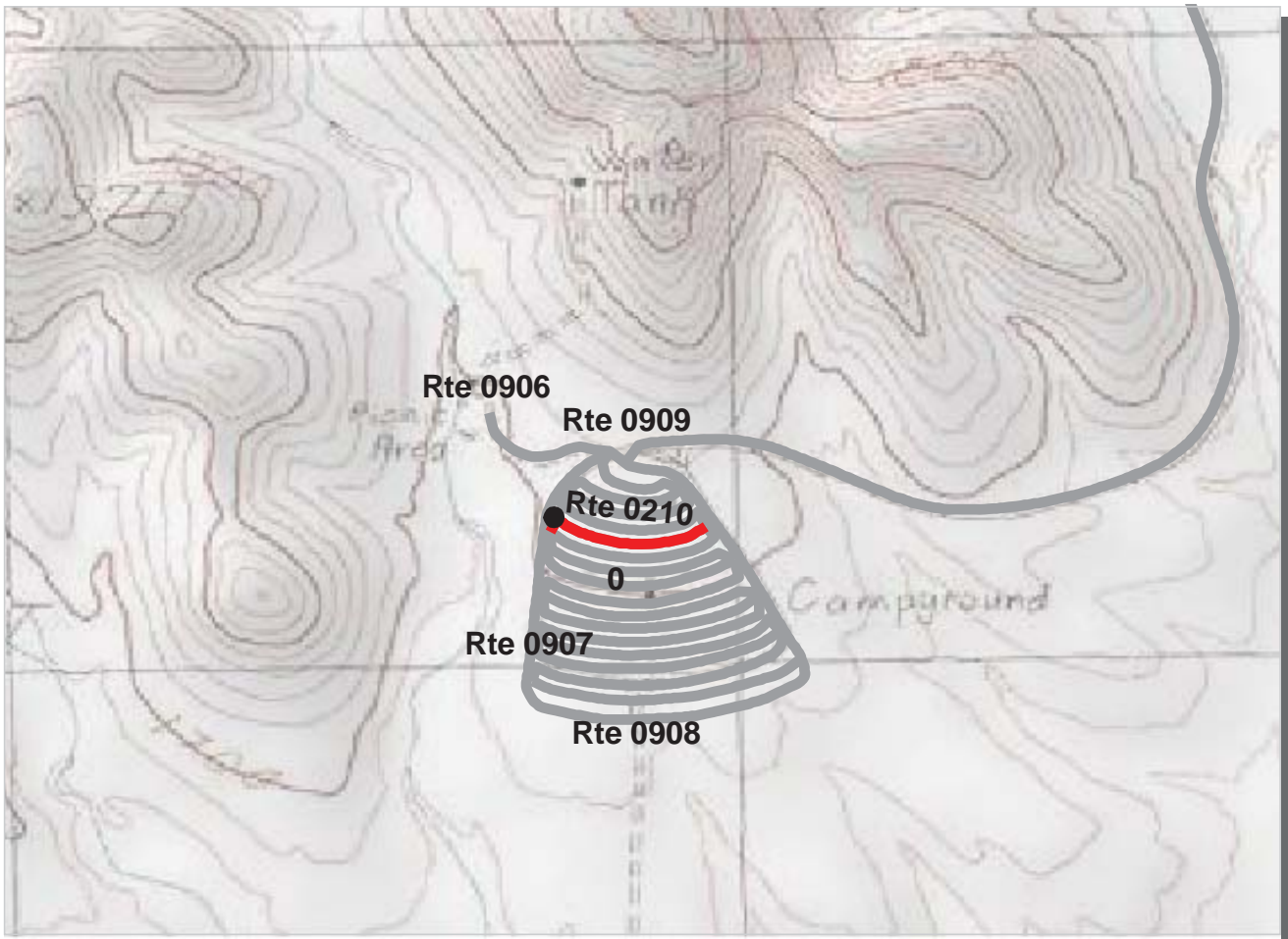
Intermountain Region
ORPI : Organ Pipe Cactus National Monument

ROUTE: 0209 Campground Sites 24-34 Access **TOTAL LENGTH: 0.15 Miles**

Section Number	0				
Section Length (mi)	0.15				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	10				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	1				
RCI (Roughness Condition Index)	34				
SCR (Surface Condition Rating)	0				
Alligator Cracking Index	15				
Rutting Index	42				
Patching Index	99				
Transverse Cracking Index	89				
Longitudinal Cracking Index	94				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

ROUTE: 0209 Campground Sites 24-34 Access

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



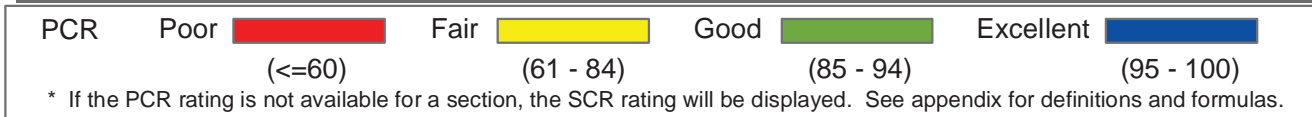
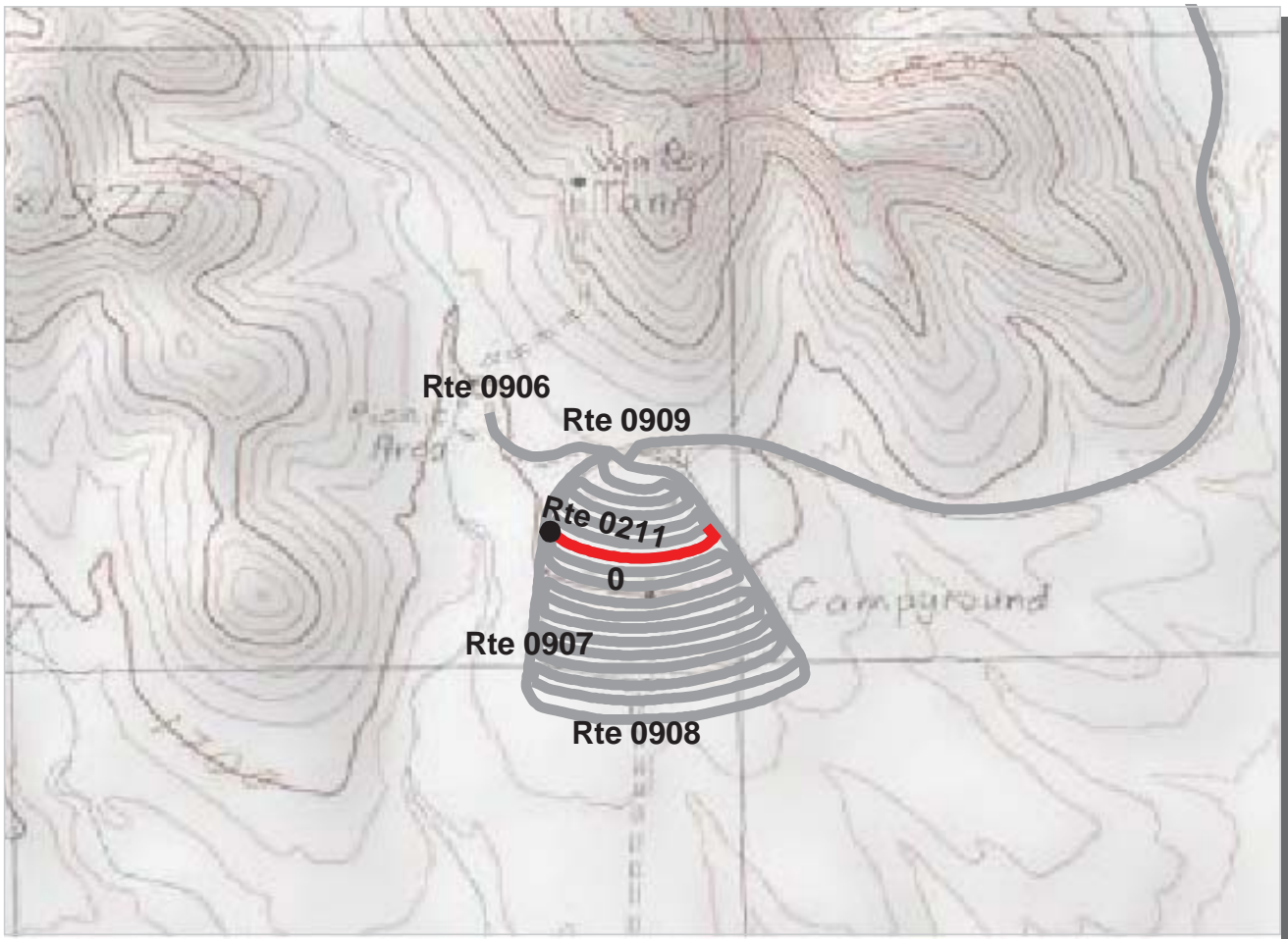
Intermountain Region
ORPI : Organ Pipe Cactus National Monument

ROUTE: 0210 Campground Sites 35-45 Access **TOTAL LENGTH: 0.16 Miles**

Section Number	0			
Section Length (mi)	0.16			
AADT	**			
SADT	**			
ADT Date	**			
Cross Section Information				
Number of Lanes	1			
Paved Width (ft)	13			
Lane Width (ft)	13			
Shoulder Width (ft)	0			
Roadway Condition Information				
PCR (Pavement Condition Rating)	5			
RCI (Roughness Condition Index)	36			
SCR (Surface Condition Rating)	0			
Alligator Cracking Index	36			
Rutting Index	36			
Patching Index	100			
Transverse Cracking Index	80			
Longitudinal Cracking Index	90			
Shoulder Condition Rating	N/A			
Drainage Condition Rating	N/C			

ROUTE: 0210 Campground Sites 35-45 Access

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



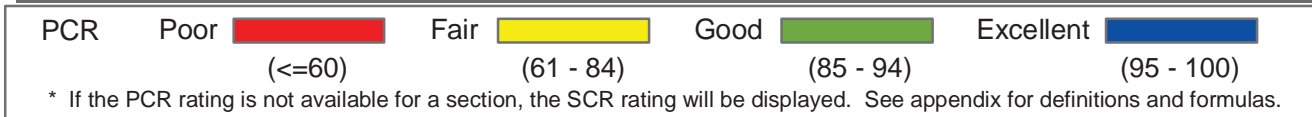
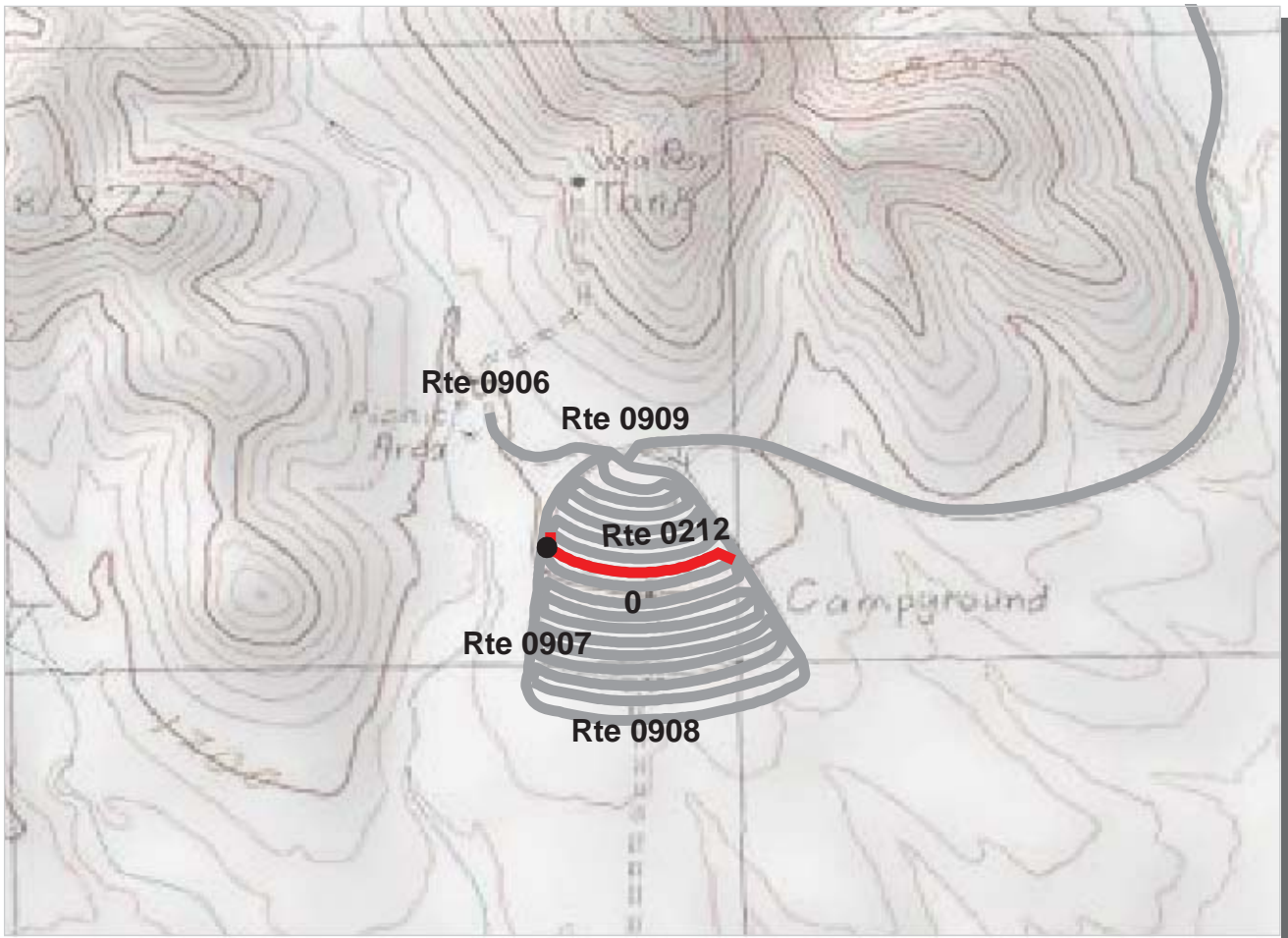
Intermountain Region
ORPI : Organ Pipe Cactus National Monument

ROUTE: 0211 Campground Sites 46-57 Access **TOTAL LENGTH: 0.17 Miles**

Section Number	0				
Section Length (mi)	0.17				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	10				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	3				
RCI (Roughness Condition Index)	21				
SCR (Surface Condition Rating)	0				
Alligator Cracking Index	7				
Rutting Index	35				
Patching Index	100				
Transverse Cracking Index	95				
Longitudinal Cracking Index	96				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

ROUTE: 0211 Campground Sites 46-57 Access

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



Intermountain Region

ORPI : Organ Pipe Cactus National Monument

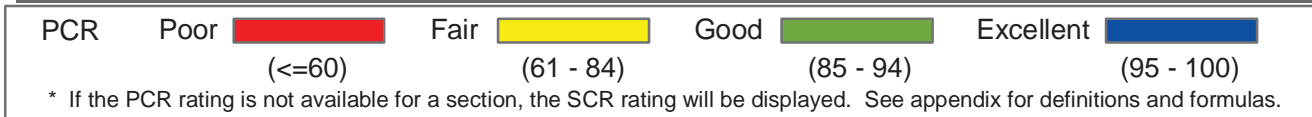
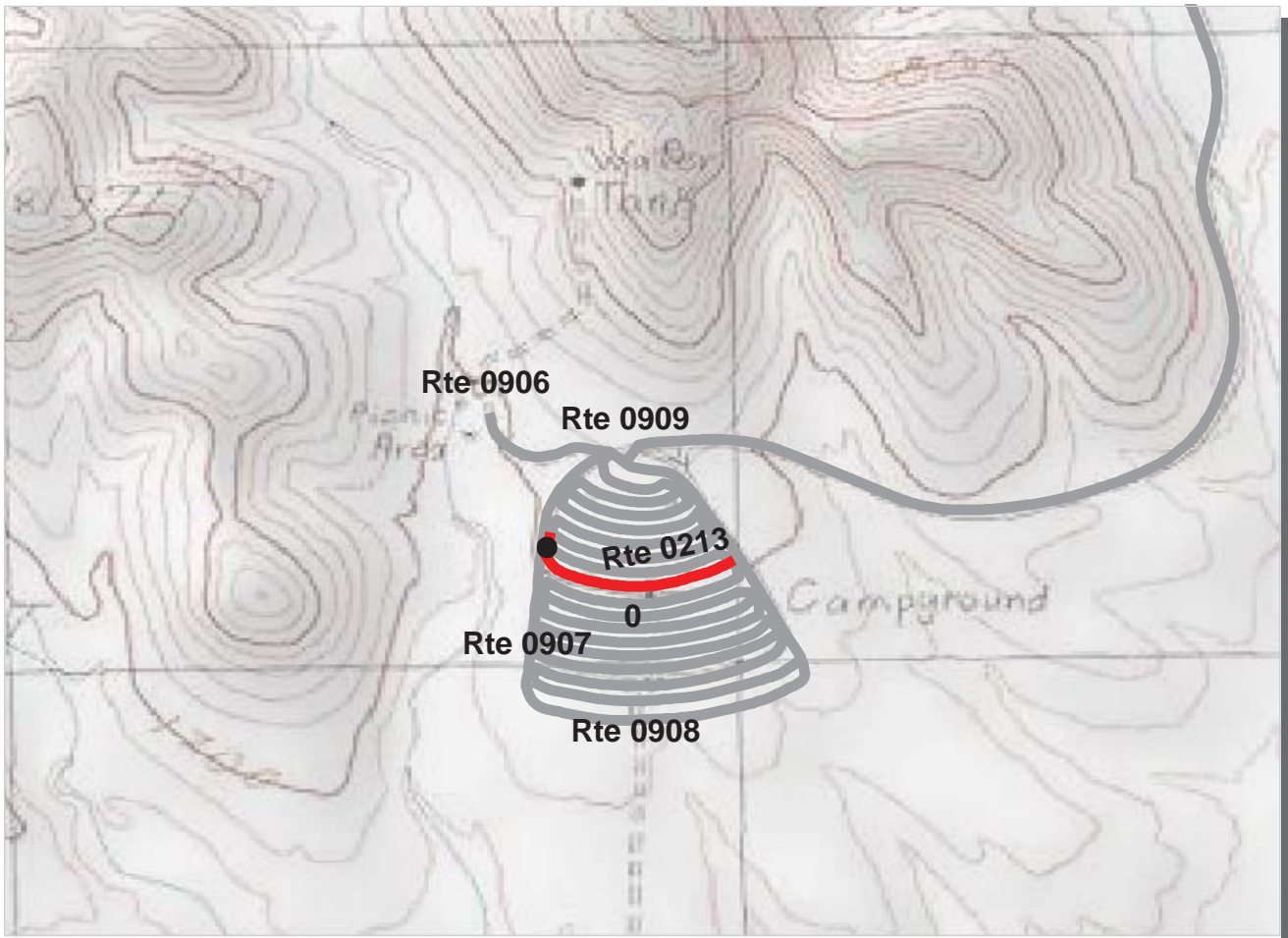
ROUTE: 0212 Campground Sites 58-70 Access

TOTAL LENGTH: 0.18 Miles

Section Number	0				
Section Length (mi)	0.18				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	10				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	3				
RCI (Roughness Condition Index)	20				
SCR (Surface Condition Rating)	0				
Alligator Cracking Index	0				
Rutting Index	34				
Patching Index	100				
Transverse Cracking Index	97				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

ROUTE: 0212 Campground Sites 58-70 Access

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



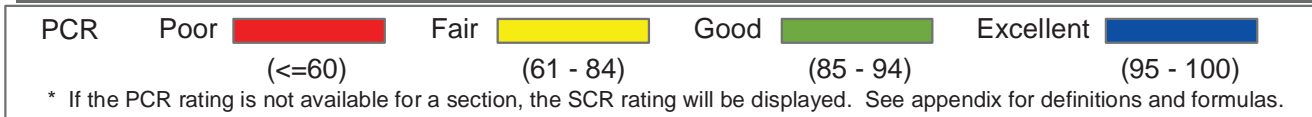
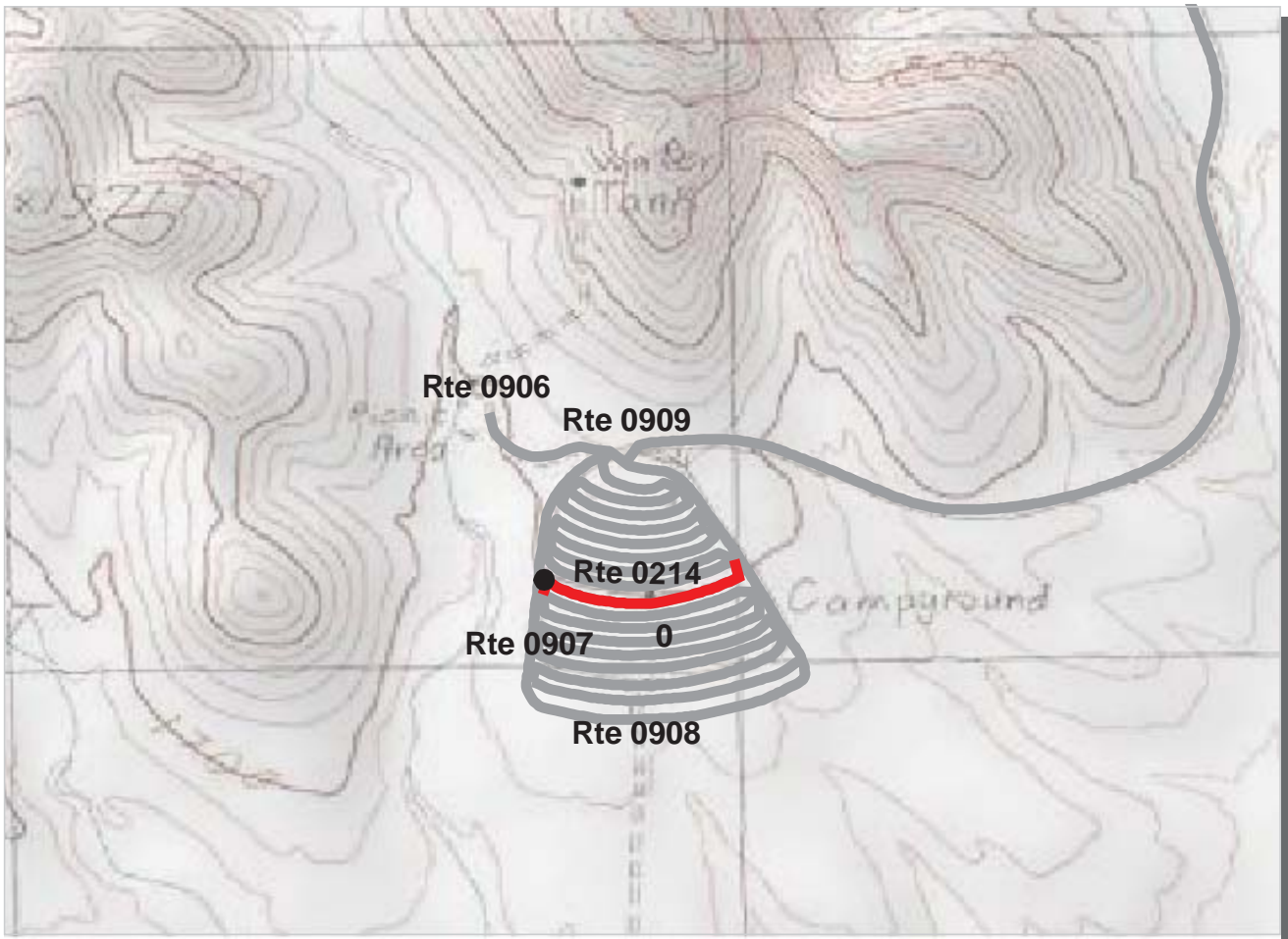
Intermountain Region
ORPI : Organ Pipe Cactus National Monument

ROUTE: 0213 Campground Sites 71-85 Access **TOTAL LENGTH: 0.19 Miles**

Section Number	0			
Section Length (mi)	0.19			
AADT	**			
SADT	**			
ADT Date	**			
Cross Section Information				
Number of Lanes	1			
Paved Width (ft)	13			
Lane Width (ft)	13			
Shoulder Width (ft)	0			
Roadway Condition Information				
PCR (Pavement Condition Rating)	5			
RCI (Roughness Condition Index)	27			
SCR (Surface Condition Rating)	0			
Alligator Cracking Index	0			
Rutting Index	36			
Patching Index	99			
Transverse Cracking Index	99			
Longitudinal Cracking Index	99			
Shoulder Condition Rating	N/A			
Drainage Condition Rating	N/C			

ROUTE: 0213 Campground Sites 71-85 Access

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



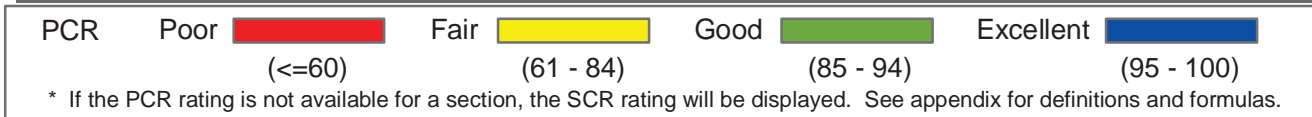
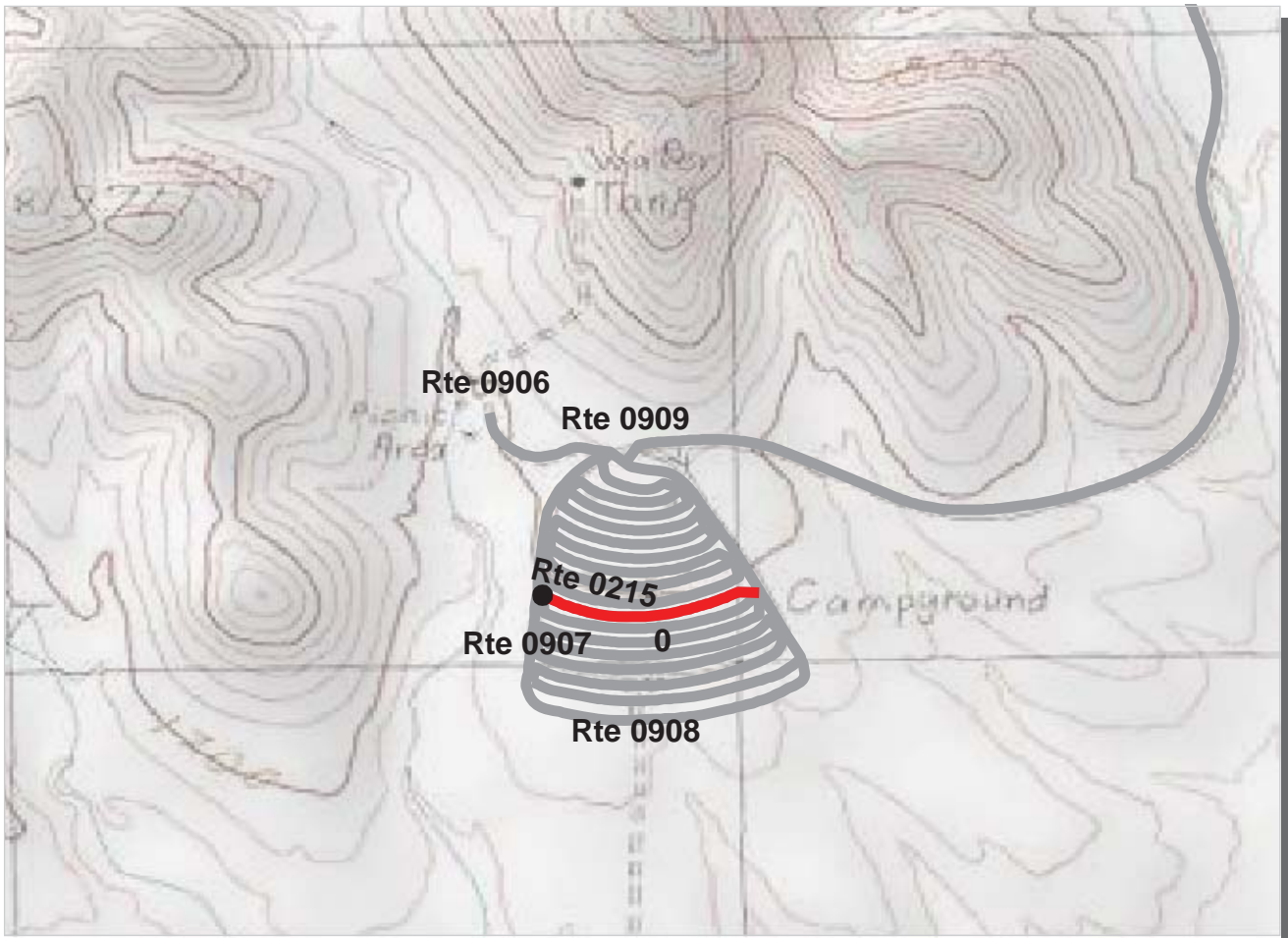
Intermountain Region
ORPI : Organ Pipe Cactus National Monument

ROUTE: 0214 Campground Sites 86-95 Access **TOTAL LENGTH: 0.20 Miles**

Section Number	0				
Section Length (mi)	0.20				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	11				
Lane Width (ft)	11				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	5				
RCI (Roughness Condition Index)	31				
SCR (Surface Condition Rating)	0				
Alligator Cracking Index	0				
Rutting Index	48				
Patching Index	99				
Transverse Cracking Index	98				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

ROUTE: 0214 Campground Sites 86-95 Access

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



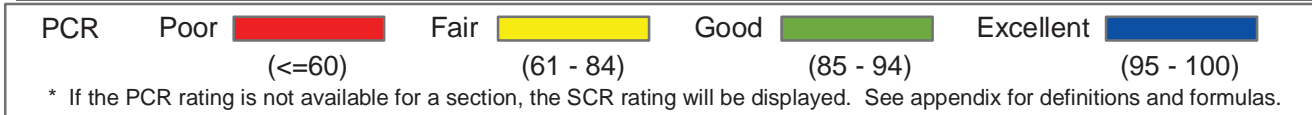
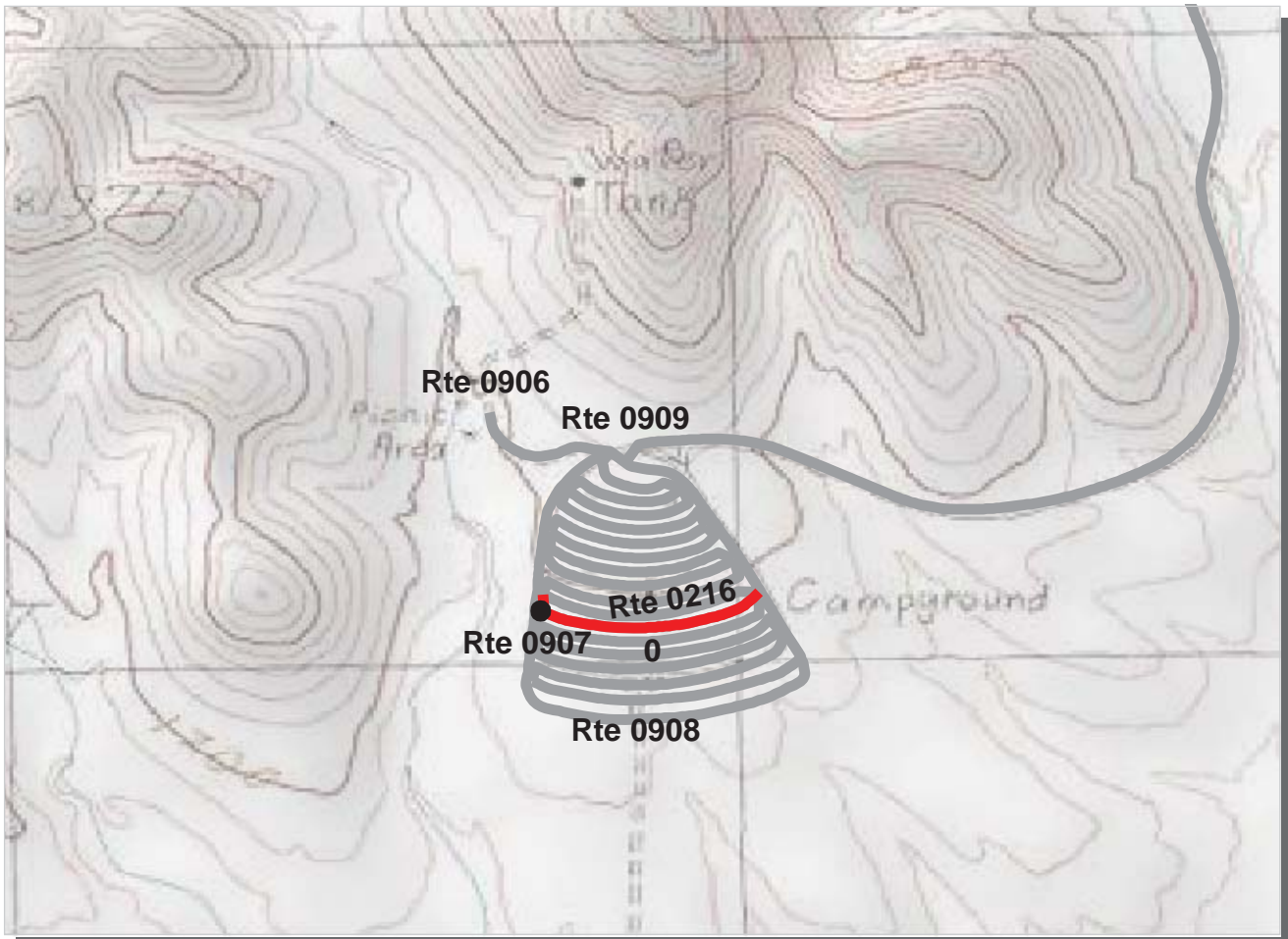
Intermountain Region
ORPI : Organ Pipe Cactus National Monument

ROUTE: 0215 Campground Sites 96-112 Access **TOTAL LENGTH: 0.20 Miles**

Section Number	0			
Section Length (mi)	0.20			
AADT	**			
SADT	**			
ADT Date	**			
Cross Section Information				
Number of Lanes	1			
Paved Width (ft)	10			
Lane Width (ft)	10			
Shoulder Width (ft)	0			
Roadway Condition Information				
PCR (Pavement Condition Rating)	4			
RCI (Roughness Condition Index)	23			
SCR (Surface Condition Rating)	0			
Alligator Cracking Index	0			
Rutting Index	47			
Patching Index	99			
Transverse Cracking Index	94			
Longitudinal Cracking Index	97			
Shoulder Condition Rating	N/A			
Drainage Condition Rating	N/C			

ROUTE: 0215 Campground Sites 96-112 Access

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



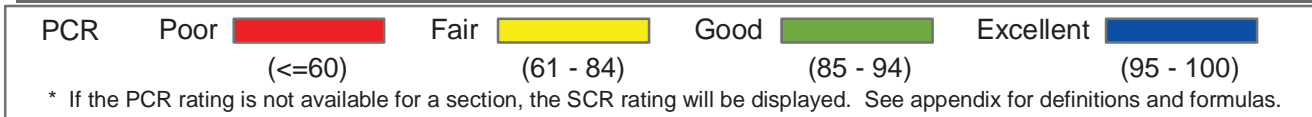
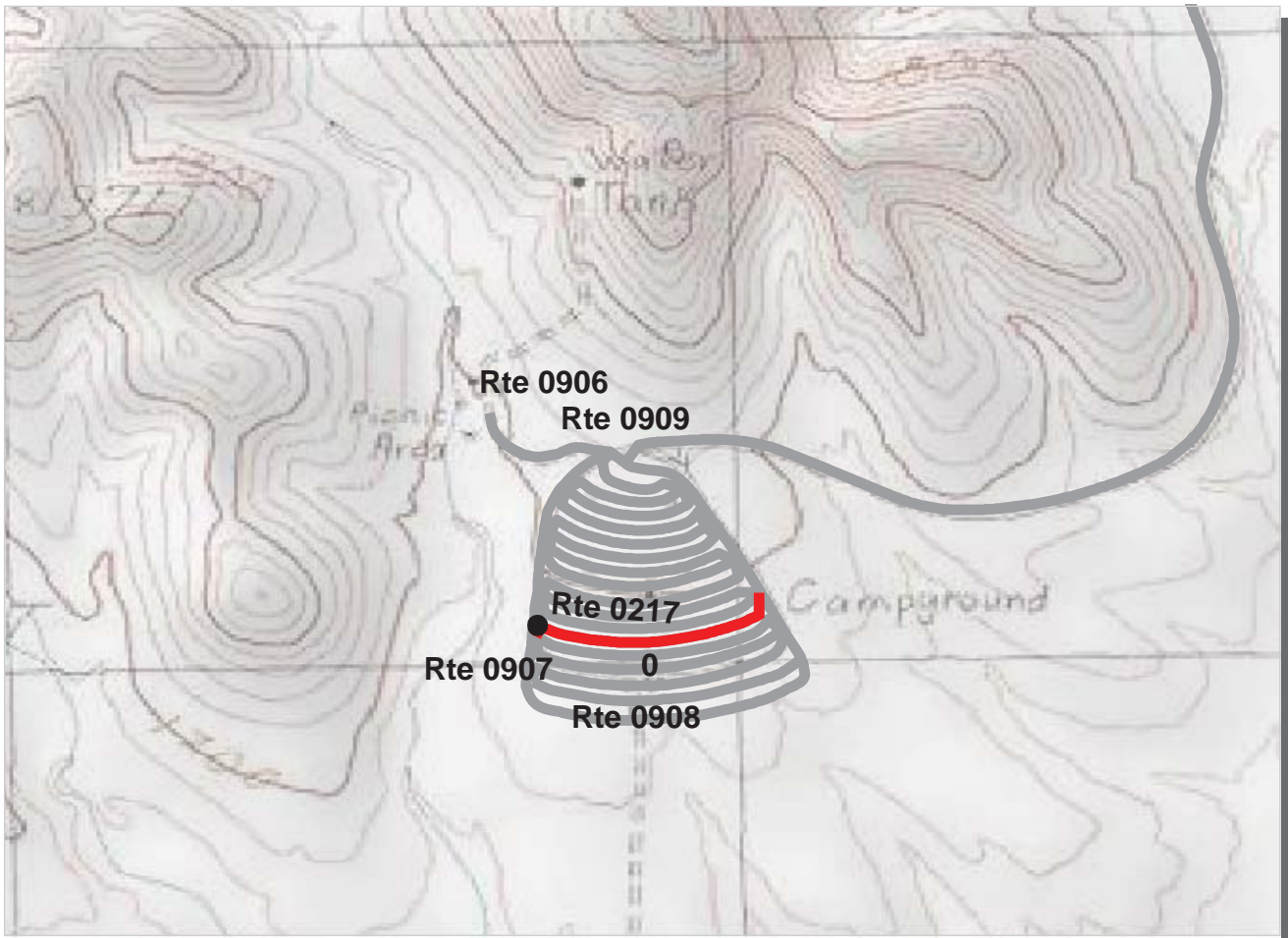
Intermountain Region
ORPI : Organ Pipe Cactus National Monument

ROUTE: 0216 Campground Sites 113-128 Access **TOTAL LENGTH: 0.21 Miles**

Section Number	0				
Section Length (mi)	0.21				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	9				
Lane Width (ft)	9				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	4				
RCI (Roughness Condition Index)	26				
SCR (Surface Condition Rating)	0				
Alligator Cracking Index	0				
Rutting Index	41				
Patching Index	99				
Transverse Cracking Index	100				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>

ROUTE: 0216 Campground Sites 113-128 Access



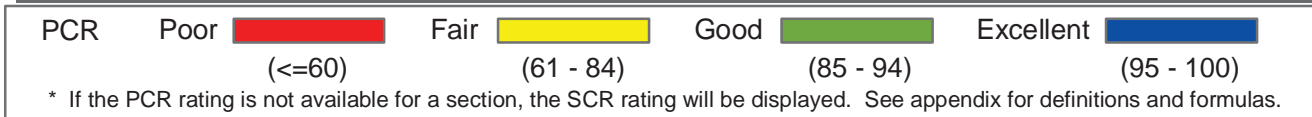
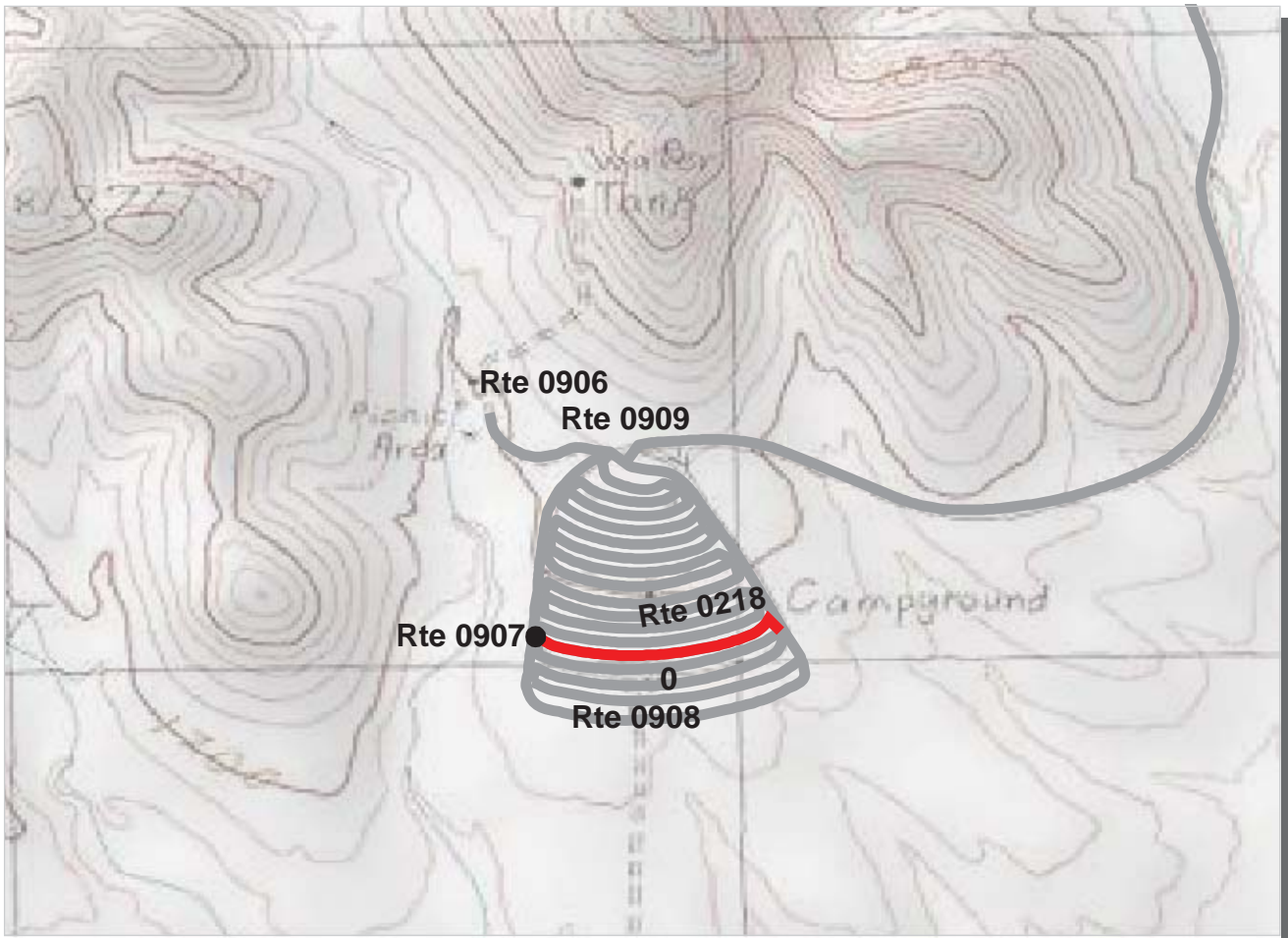
Intermountain Region
ORPI : Organ Pipe Cactus National Monument

ROUTE: 0217 Campground Sites 129-145 Access **TOTAL LENGTH: 0.22 Miles**

Section Number	0				
Section Length (mi)	0.22				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	9				
Lane Width (ft)	9				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	3				
RCI (Roughness Condition Index)	22				
SCR (Surface Condition Rating)	0				
Alligator Cracking Index	1				
Rutting Index	29				
Patching Index	99				
Transverse Cracking Index	100				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

ROUTE: 0217 Campground Sites 129-145 Access

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



Intermountain Region

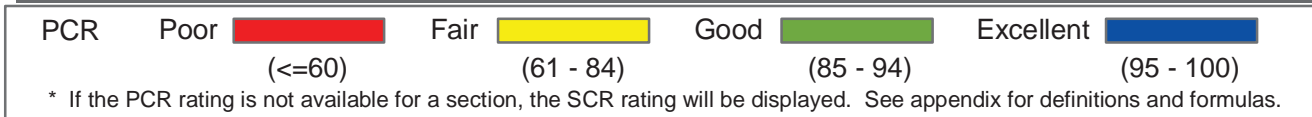
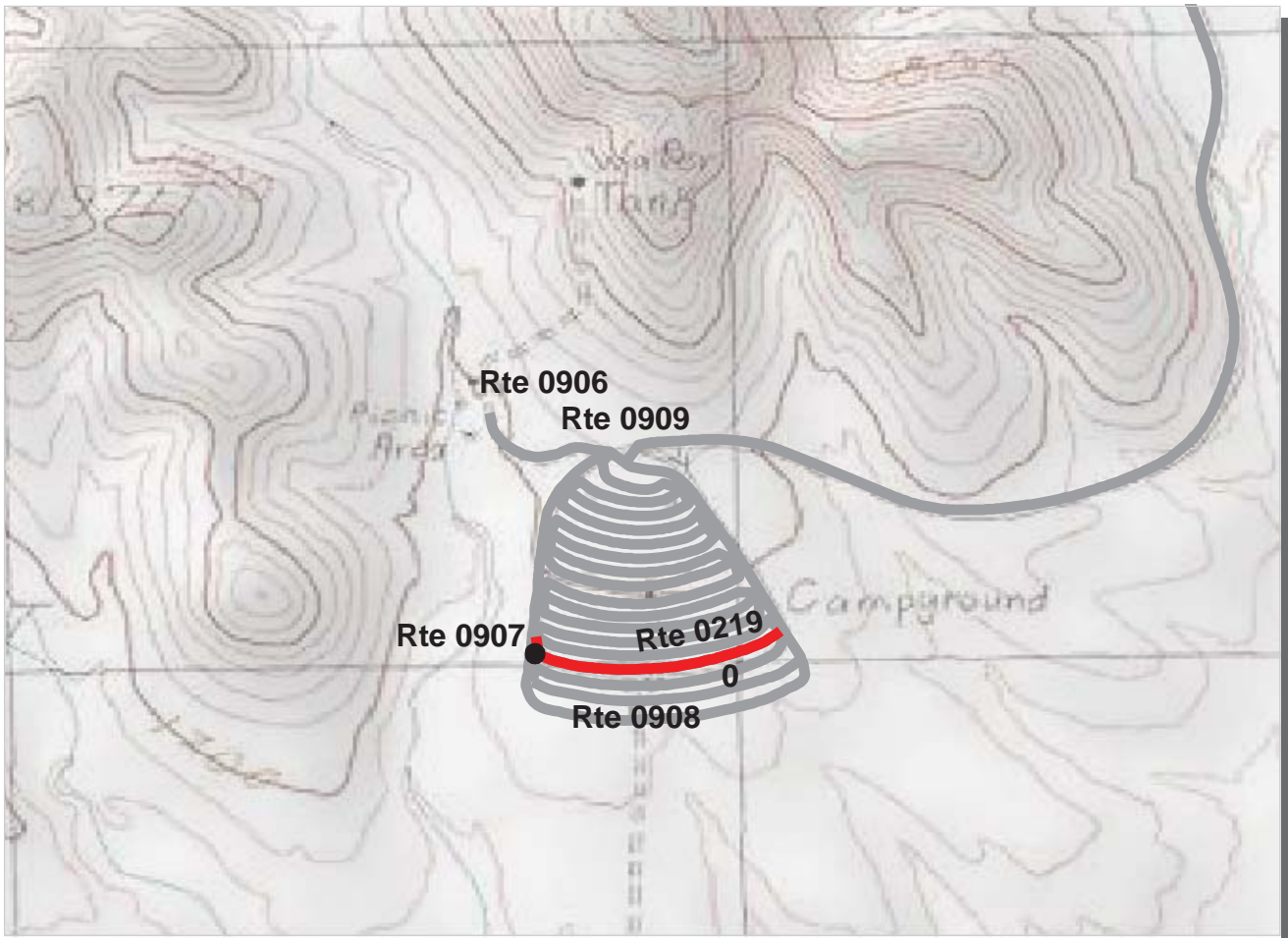
ORPI : Organ Pipe Cactus National Monument

ROUTE: 0218 Campground Sites 146-158 Access TOTAL LENGTH: 0.23 Miles

Section Number	0				
Section Length (mi)	0.23				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	9				
Lane Width (ft)	9				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	4				
RCI (Roughness Condition Index)	22				
SCR (Surface Condition Rating)	0				
Alligator Cracking Index	4				
Rutting Index	29				
Patching Index	98				
Transverse Cracking Index	99				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

ROUTE: 0218 Campground Sites 146-158 Access

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



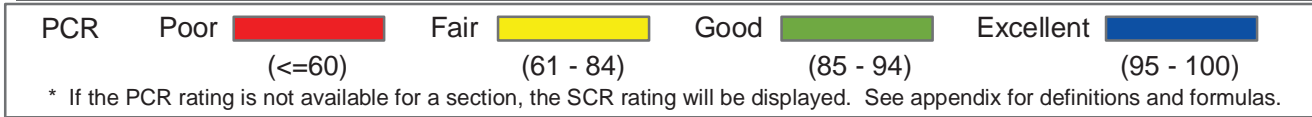
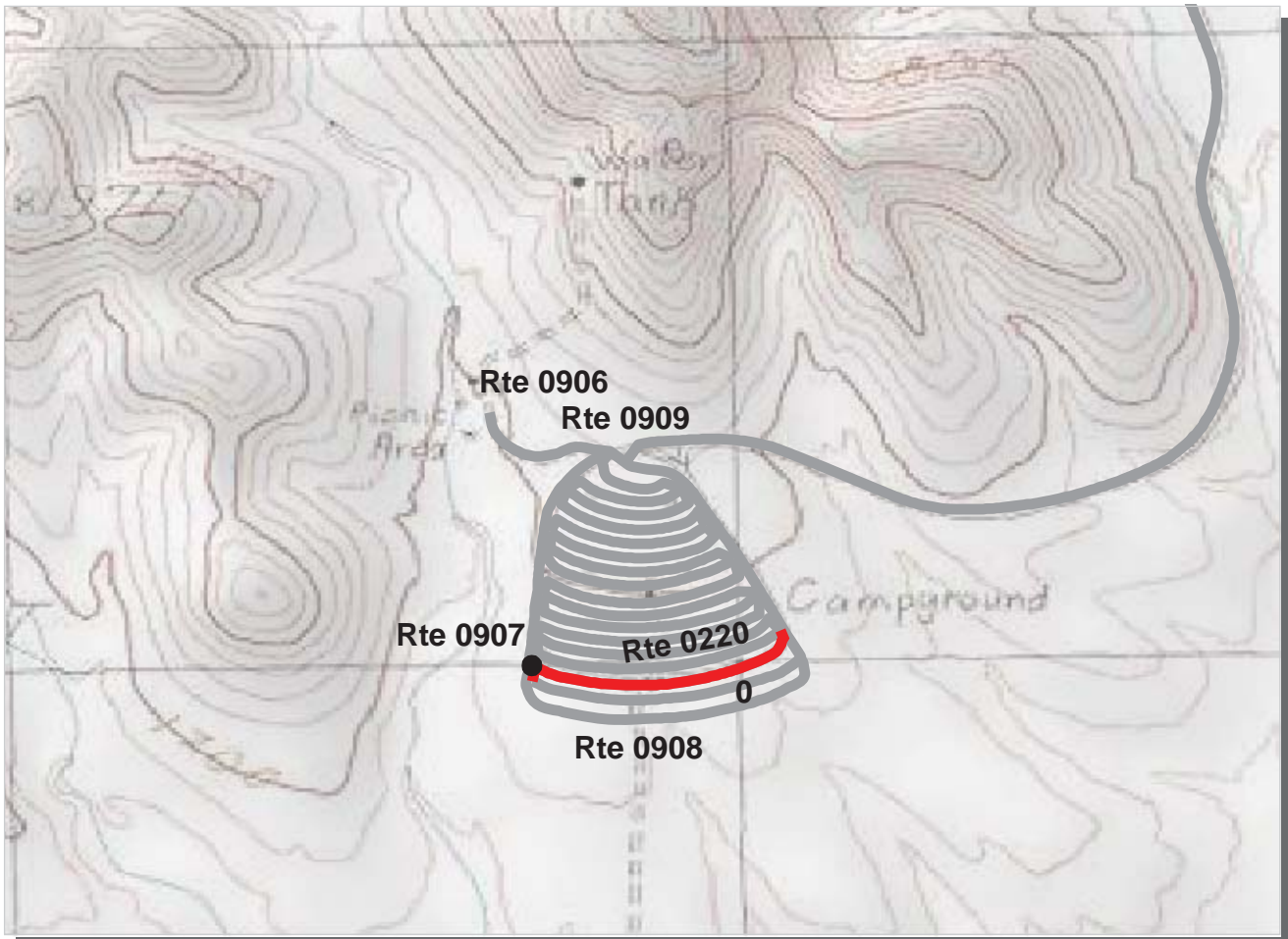
Intermountain Region
ORPI : Organ Pipe Cactus National Monument

ROUTE: 0219 Campground Sites 159-174 Access **TOTAL LENGTH: 0.23 Miles**

Section Number	0				
Section Length (mi)	0.23				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	9				
Lane Width (ft)	9				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	5				
RCI (Roughness Condition Index)	38				
SCR (Surface Condition Rating)	0				
Alligator Cracking Index	0				
Rutting Index	36				
Patching Index	99				
Transverse Cracking Index	99				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

ROUTE: 0219 Campground Sites 159-174 Access

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



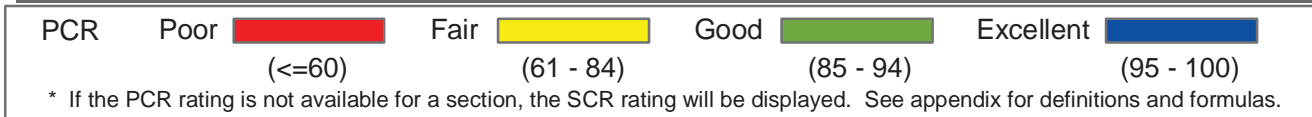
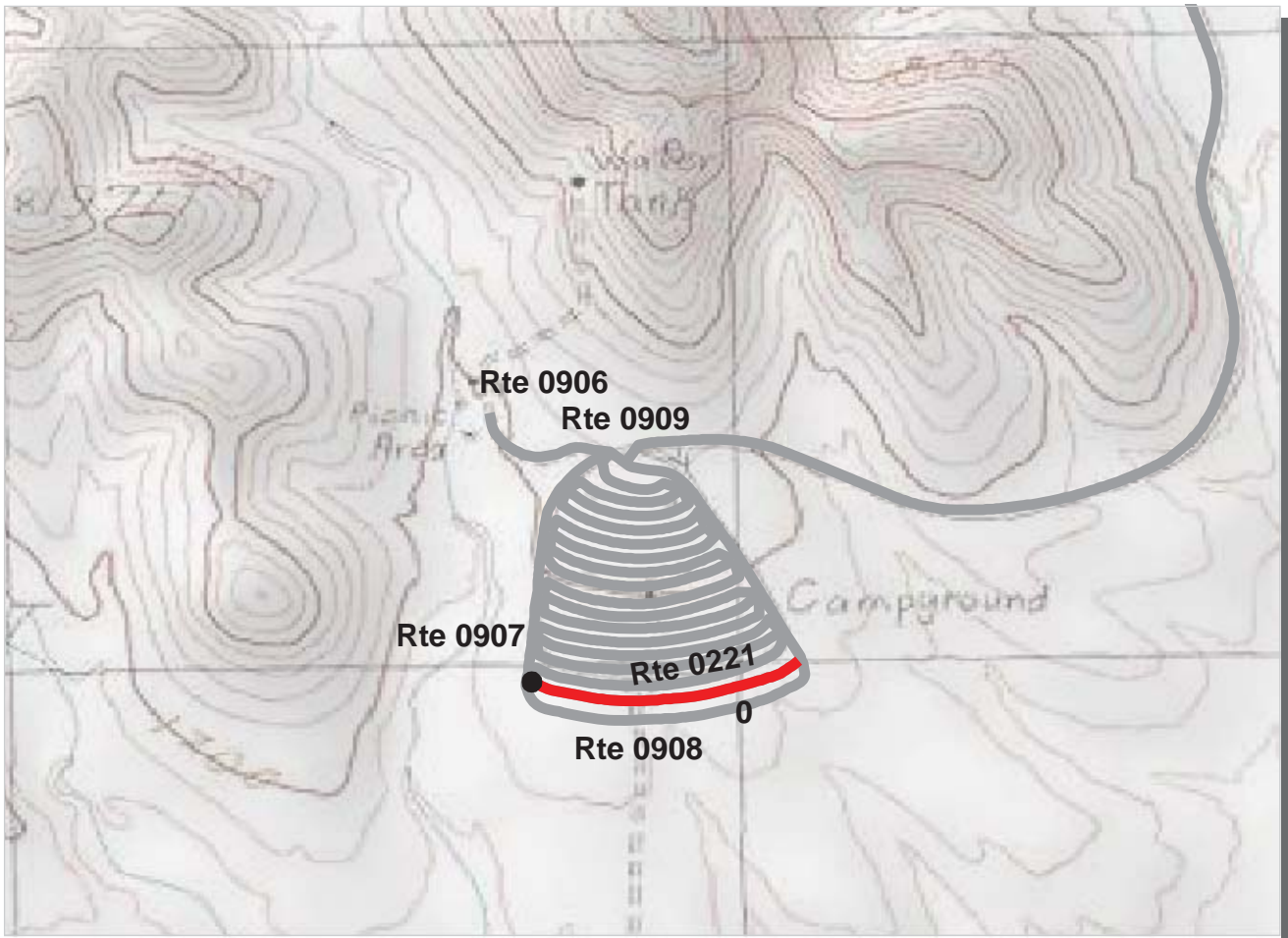
Intermountain Region
ORPI : Organ Pipe Cactus National Monument

ROUTE: 0220 Campground Sites 175-191 Access **TOTAL LENGTH: 0.25 Miles**

Section Number	0				
Section Length (mi)	0.25				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	10				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	7				
RCI (Roughness Condition Index)	32				
SCR (Surface Condition Rating)	0				
Alligator Cracking Index	0				
Rutting Index	43				
Patching Index	98				
Transverse Cracking Index	100				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>

ROUTE: 0220 Campground Sites 175-191 Access



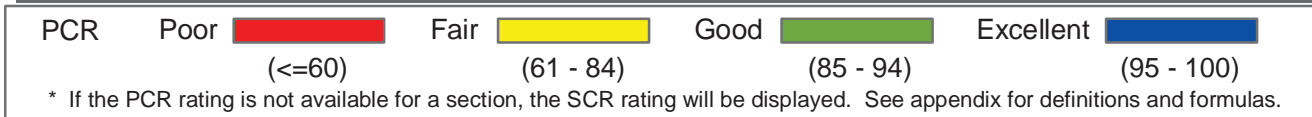
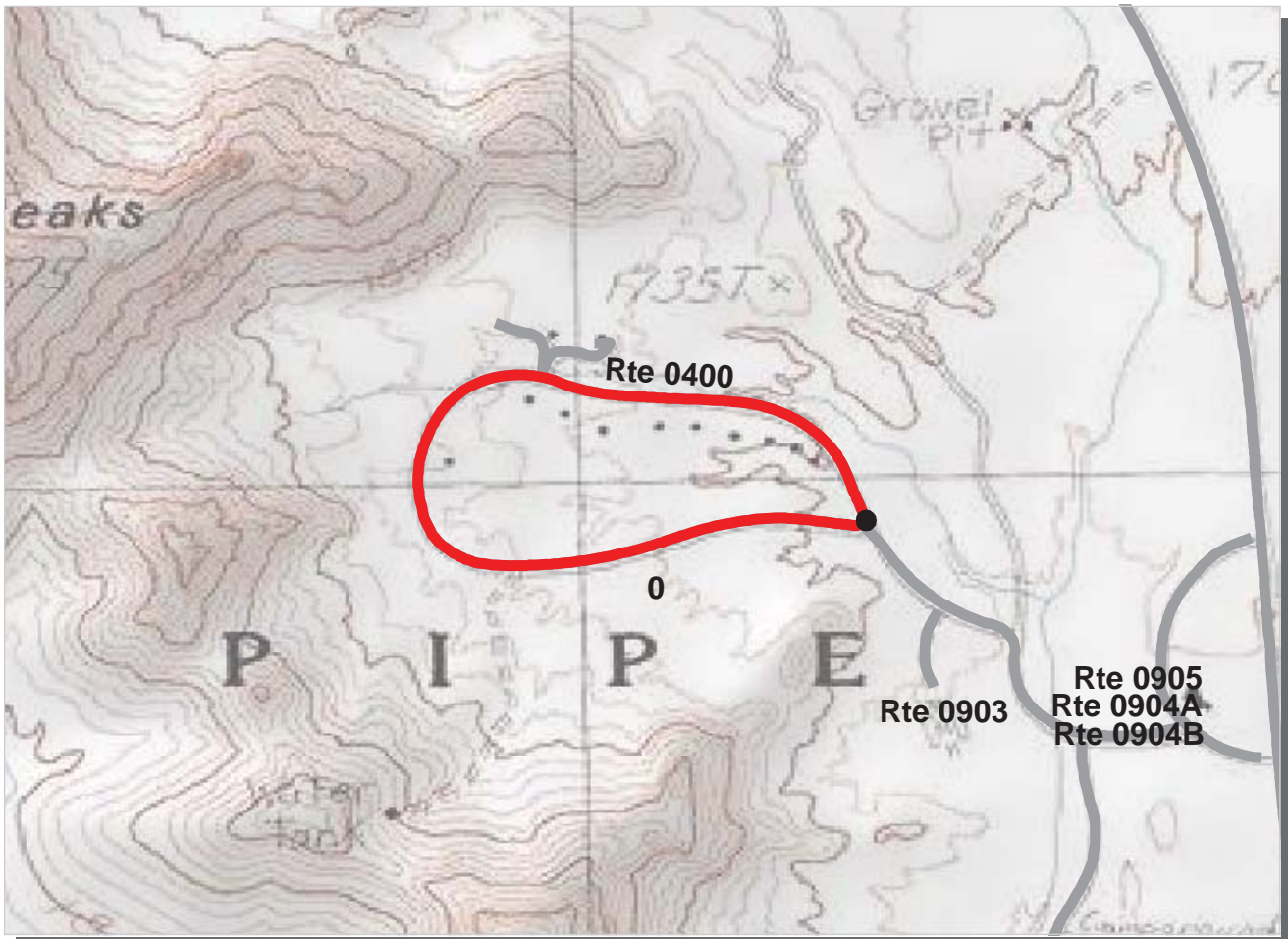
Intermountain Region
ORPI : Organ Pipe Cactus National Monument

ROUTE: 0221 Campground Sites 192-208 Access **TOTAL LENGTH: 0.26 Miles**

Section Number	0			
Section Length (mi)	0.26			
AADT	**			
SADT	**			
ADT Date	**			
Cross Section Information				
Number of Lanes	1			
Paved Width (ft)	9			
Lane Width (ft)	9			
Shoulder Width (ft)	0			
Roadway Condition Information				
PCR (Pavement Condition Rating)	7			
RCI (Roughness Condition Index)	34			
SCR (Surface Condition Rating)	0			
Alligator Cracking Index	0			
Rutting Index	39			
Patching Index	99			
Transverse Cracking Index	100			
Longitudinal Cracking Index	100			
Shoulder Condition Rating	N/A			
Drainage Condition Rating	N/C			

ROUTE: 0221 Campground Sites 192-208 Access

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



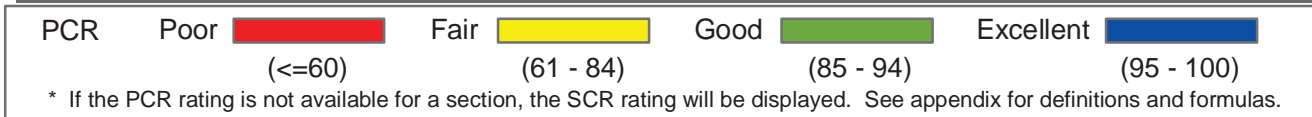
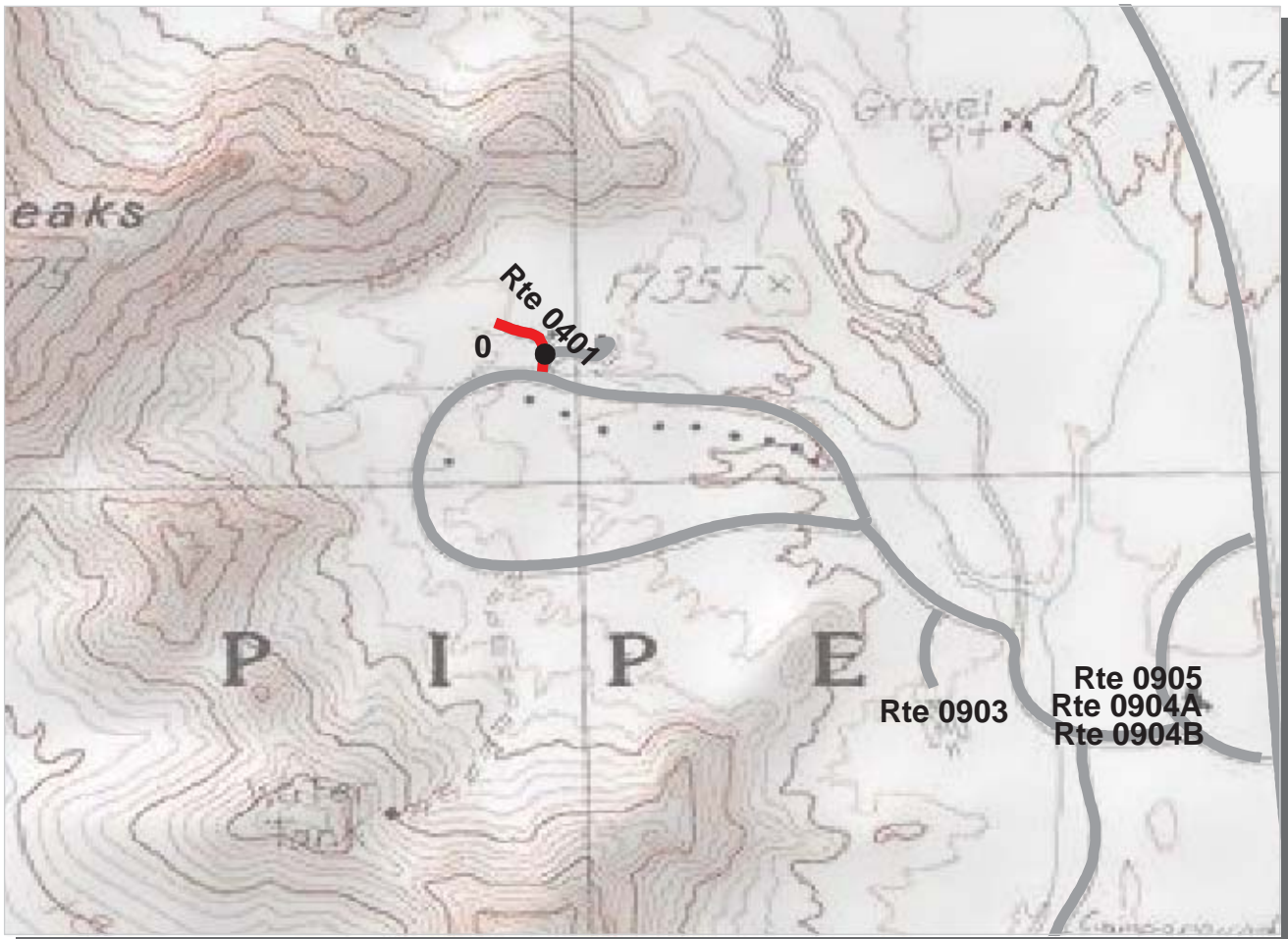
Intermountain Region
ORPI : Organ Pipe Cactus National Monument

ROUTE: 0400 Residence Loop Road **TOTAL LENGTH: 0.97 Miles**

Section Number	0				
Section Length (mi)	0.97				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	18				
Lane Width (ft)	10				
Shoulder Width (ft)	5				
Roadway Condition Information					
PCR (Pavement Condition Rating)	18				
RCI (Roughness Condition Index)	53				
SCR (Surface Condition Rating)	0				
Alligator Cracking Index	0				
Rutting Index	19				
Patching Index	99				
Transverse Cracking Index	99				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/C				
Drainage Condition Rating	N/C				

ROUTE: 0400 Residence Loop Road

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



Intermountain Region

ORPI : Organ Pipe Cactus National Monument

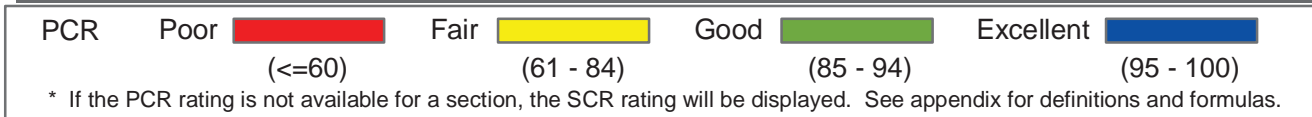
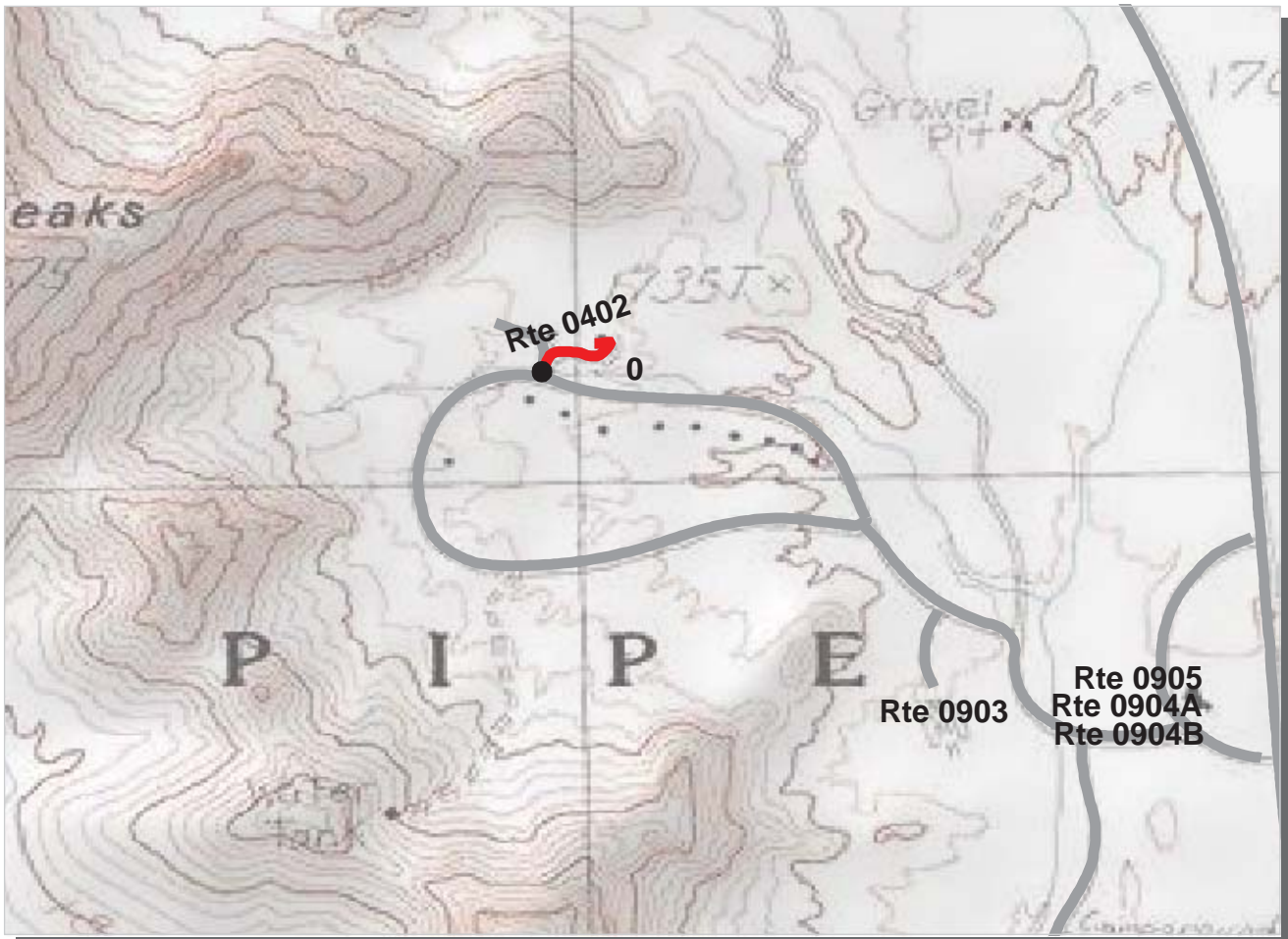
ROUTE: 0401 Spur Residence Road West

TOTAL LENGTH: 0.08 Miles

Section Number	0				
Section Length (mi)	0.08				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	8				
Lane Width (ft)	8				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	0				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	0				
Alligator Cracking Index	0				
Rutting Index	9				
Patching Index	95				
Transverse Cracking Index	98				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

ROUTE: 0401 Spur Residence Road West

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



Intermountain Region

ORPI : Organ Pipe Cactus National Monument

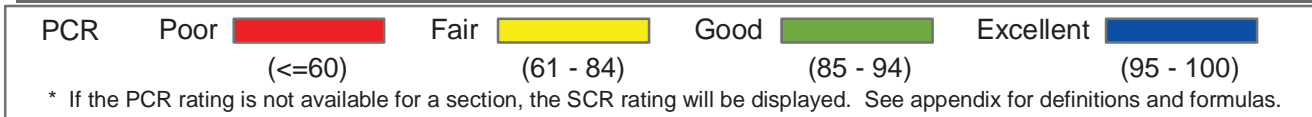
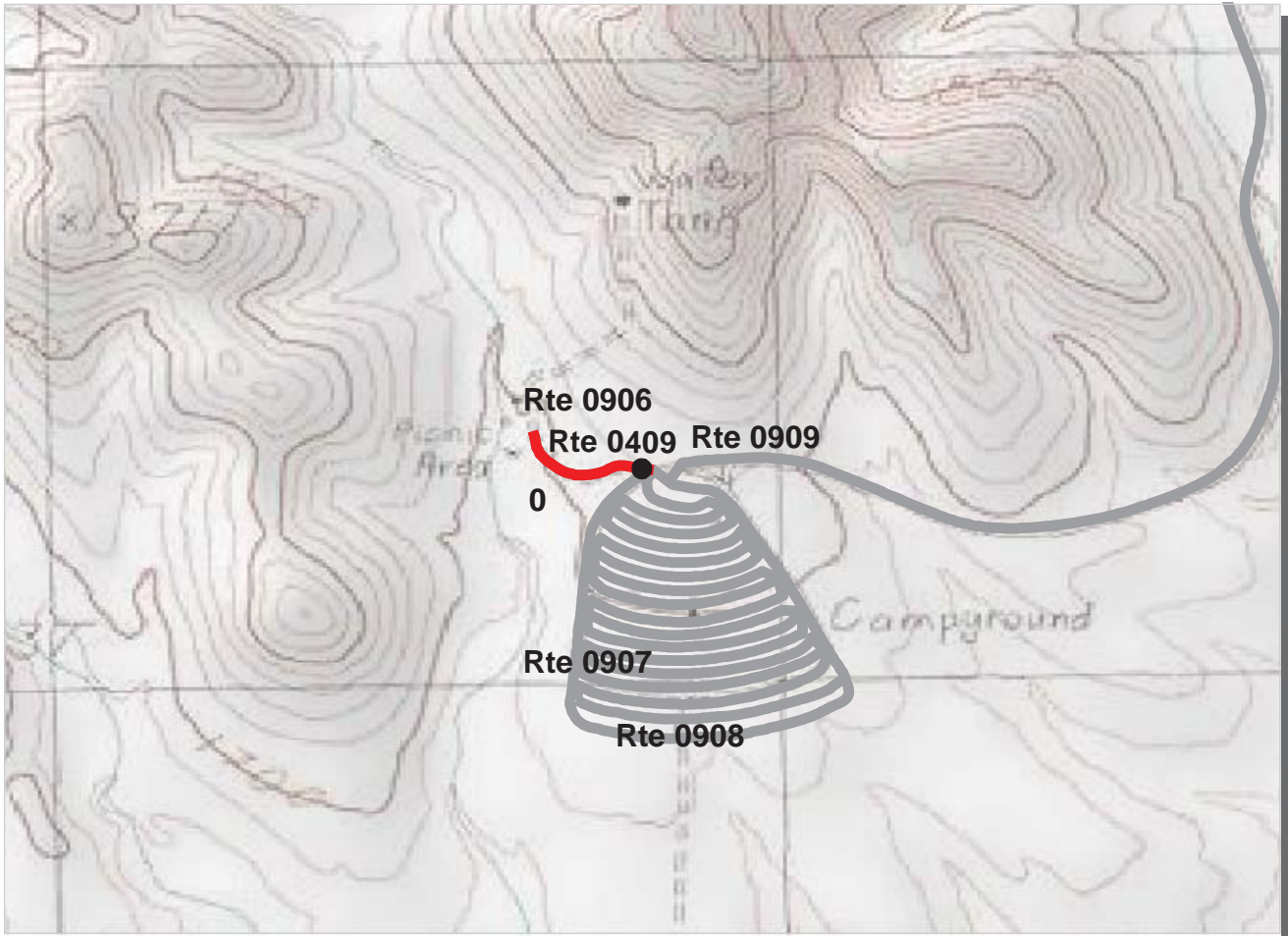
ROUTE: 0402 Spur Residence Road East

TOTAL LENGTH: 0.12 Miles

Section Number	0				
Section Length (mi)	0.12				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	11				
Lane Width (ft)	11				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	0				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	0				
Alligator Cracking Index	11				
Rutting Index	10				
Patching Index	99				
Transverse Cracking Index	94				
Longitudinal Cracking Index	98				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

ROUTE: 0402 Spur Residence Road East

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



Intermountain Region
ORPI : Organ Pipe Cactus National Monument

ROUTE: 0409 Group Campground Access Road **TOTAL LENGTH: 0.14 Miles**

Section Number	0			
Section Length (mi)	0.14			
AADT	**			
SADT	**			
ADT Date	**			
Cross Section Information				
Number of Lanes	2			
Paved Width (ft)	20			
Lane Width (ft)	10			
Shoulder Width (ft)	0			
Roadway Condition Information				
PCR (Pavement Condition Rating)	11			
RCI (Roughness Condition Index)	41			
SCR (Surface Condition Rating)	0			
Alligator Cracking Index	11			
Rutting Index	11			
Patching Index	99			
Transverse Cracking Index	75			
Longitudinal Cracking Index	90			
Shoulder Condition Rating	N/A			
Drainage Condition Rating	N/C			

ROUTE: 0409 Group Campground Access Road

* NC designates data not collected NA designates not applicable
 ** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>

ORPI: Manually Rated Paved Route Condition Rating Sheets

No data available for this section

Organ Pipe Cactus National Monument

Route 0903

MAINTENANCE YARD

From Route 0205

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0903	NonPublic	11/19/2001	25741	0.44	OC	POOR / 45

* Lane miles are based on 11' lane widths



Organ Pipe Cactus National Monument

Route 0904A

VISITOR CENTER PARKING A
From Route 0010

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0904A	Public	11/19/2001	11976	0.21	OC	FAIR / 73

* Lane miles are based on 11' lane widths



Organ Pipe Cactus National Monument

Route 0904B

VISITOR CENTER PARKING B

Adjacent to Route 0010

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0904B	Public	11/19/2001	9702	0.17	OC	FAIR / 73

* Lane miles are based on 11' lane widths



Organ Pipe Cactus National Monument

Route 0905

OFFICE PARKING

From Route 0010

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0905	NonPublic	11/19/2001	5644	0.10	CO	POOR / 45

* Lane miles are based on 11' lane widths



Organ Pipe Cactus National Monument

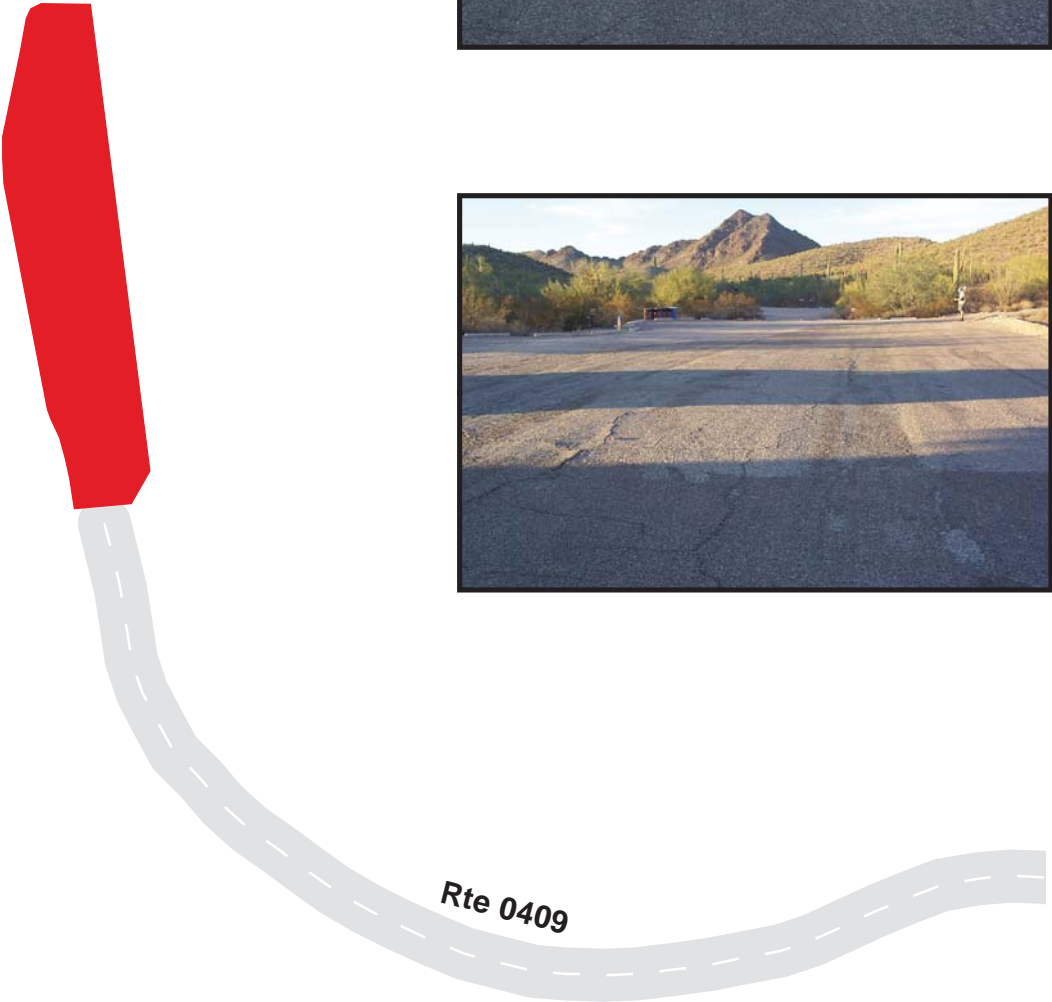
Route 0906

GROUP CAMPGROUND PARKING

From End of Route 0409

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0906	Public	11/19/2001	10658	0.18	CO	POOR / 45

* Lane miles are based on 11' lane widths



Organ Pipe Cactus National Monument

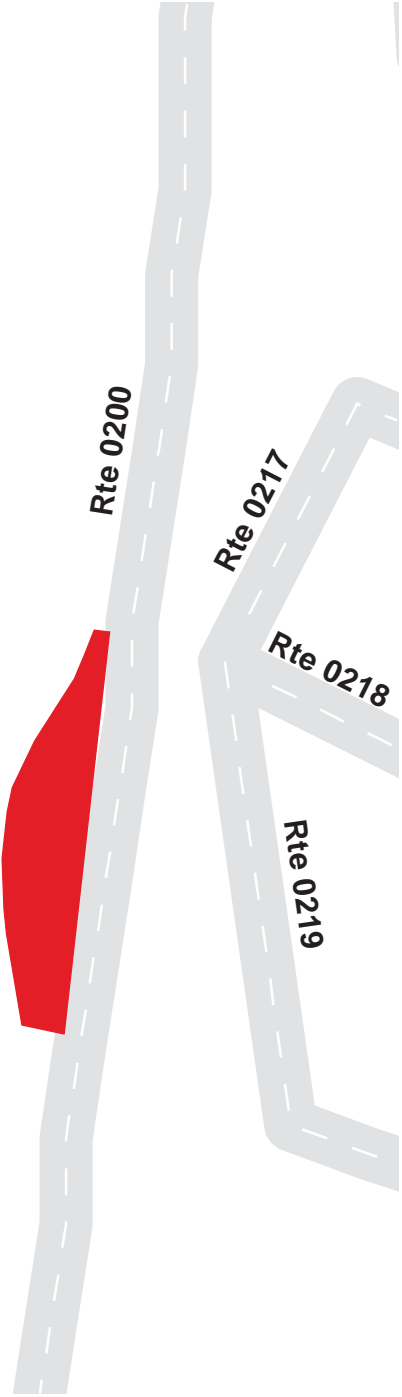
Route 0907

CAMPGROUND PARKING

From Route 0200

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0907	Public	11/19/2001	903	0.02	OC	FAIR / 73

* Lane miles are based on 11' lane widths



Organ Pipe Cactus National Monument

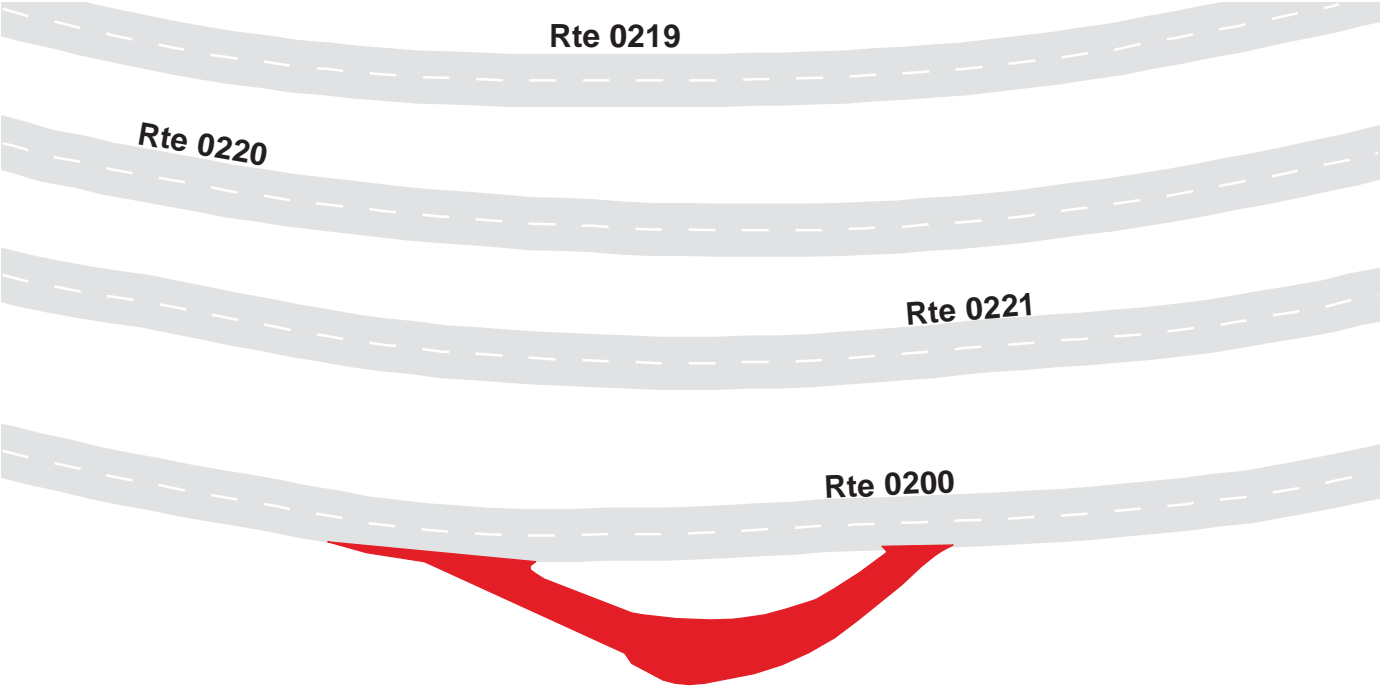
Route 0908

DUMP STATION LOOP

From Route 0200

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0908	Public	11/19/2001	7150	0.12	OC	FAIR / 73

* Lane miles are based on 11' lane widths



Organ Pipe Cactus National Monument

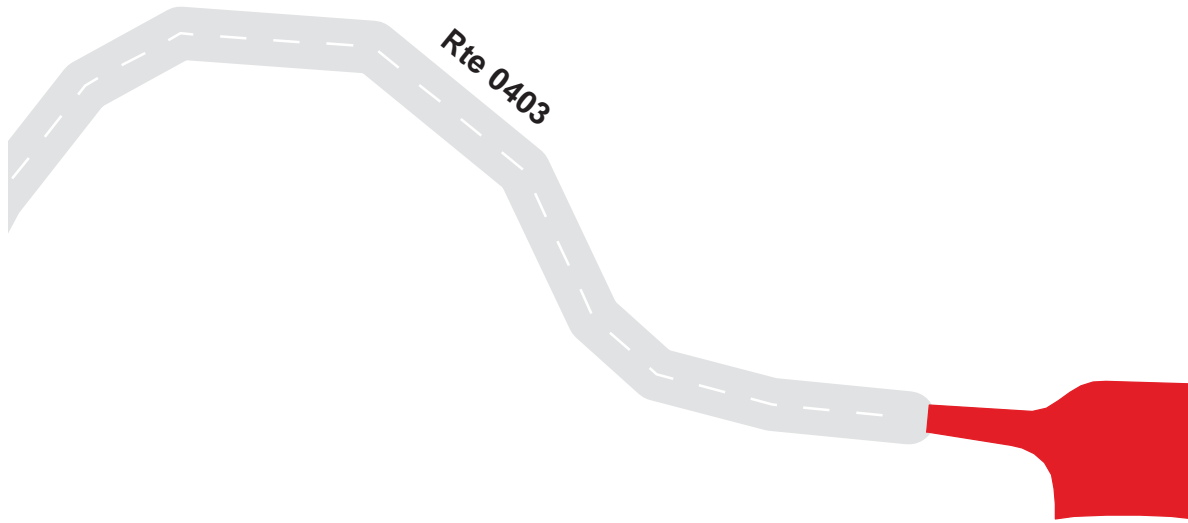
Route 0909

CAMPGROUND RANGER PARKING

From Route 0403

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0909	NonPublic	11/19/2001	2640	0.05	AS	EXCELLENT / 97

* Lane miles are based on 11' lane widths



ORPI: PARKWIDE MAINTENANCE FEATURES SUMMARY

<i>FEATURE</i>	<i>PARK TOTAL</i>	<i>UNIT</i>
BRIDGE	1	EACH
CATTLE GUARD	0	EACH
CULVERT	133	EACH
CURB	1,721	LINEAR FEET
DROP INLET	0	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	211	LINEAR FEET
INTERSECTION	500	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	1	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

ORPI: ROUTE MAINTENANCE FEATURES SUMMARY

<i>FEATURE</i>	<i>ROUTE 0010 VISITOR CENTER DRIVE</i>	<i>ROUTE 0013 STATE ROUTE 85</i>	<i>ROUTE 0100 RESIDENCE ACCESS ROAD</i>	<i>ROUTE 0101 TWIN PEAKS ACCESS ROAD</i>	<i>ROUTE 0200 CAMPGROUND LOOP ROAD</i>	<i>ROUTE 0205 MAINTENANCE YARD ACCESS ROAD</i>	<i>UNIT</i>
BRIDGE	0	1	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	0	129	1	1	0	0	EACH
CURB	195	1,526	0	0	0	0	LINEAR FEET
DROP INLET	0	0	0	0	0	0	EACH
GUARD WALL	0	0	0	0	0	0	LINEAR FEET
GUARDRAIL	0	211	0	0	0	0	LINEAR FEET
INTERSECTION	5	21	4	1	38	1	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
OVERHEAD SIGN	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	1	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
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

ORPI: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0206 CAMPGROUND LOOP SITES 1-6 ACCESS	ROUTE 0207 CAMPGROUND LOOP SITES 7-15 ACCESS	ROUTE 0208 CAMPGROUND LOOP SITES 16-23 ACCESS	ROUTE 0209 CAMPGROUND LOOP SITES 24-34 ACCESS	ROUTE 0210 CAMPGROUND LOOP SITES 35-45 ACCESS	ROUTE 0211 CAMPGROUND LOOP SITES 46-57 ACCESS	UNIT
BRIDGE	0	0	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	0	0	0	0	0	0	EACH
CURB	0	0	0	0	0	0	LINEAR FEET
DROP INLET	0	0	0	0	0	0	EACH
GUARD WALL	0	0	0	0	0	0	LINEAR FEET
GUARDRAIL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	7	15	18	17	24	25	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
OVERHEAD SIGN	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
STATE BOUNDARY	0	0	0	0	0	0	EACH
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

ORPI: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0212 CAMPGROUND LOOP SITES 58-70 ACCESS	ROUTE 0213 CAMPGROUND LOOP SITES 71-85 ACCESS	ROUTE 0214 CAMPGROUND LOOP SITES 86-95 ACCESS	ROUTE 0215 CAMPGROUND LOOP SITES 96-112 ACCESS	ROUTE 0216 CAMPGROUND LOOP SITES 113-128 ACCESS	ROUTE 0217 CAMPGROUND LOOP SITES 129-145 ACCESS	UNIT
BRIDGE	0	0	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	0	0	0	0	0	0	EACH
CURB	0	0	0	0	0	0	LINEAR FEET
DROP INLET	0	0	0	0	0	0	EACH
GUARD WALL	0	0	0	0	0	0	LINEAR FEET
GUARDRAIL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	26	29	27	29	35	35	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
OVERHEAD SIGN	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
STATE BOUNDARY	0	0	0	0	0	0	EACH
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

ORPI: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0218 CAMPGROUND LOOP SITES 146-158 ACCESS	ROUTE 0219 CAMPGROUND LOOP SITES 159-174 ACCESS	ROUTE 0220 CAMPGROUND LOOP SITES 175-191 ACCESS	ROUTE 0221 CAMPGROUND LOOP SITES 192-208 ACCESS	ROUTE 0400 RESIDENCE LOOP ROAD	ROUTE 0401 SPUR RESIDENCE ROAD WEST	UNIT
BRIDGE	0	0	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	0	0	0	0	1	0	EACH
CURB	0	0	0	0	0	0	LINEAR FEET
DROP INLET	0	0	0	0	0	0	EACH
GUARD WALL	0	0	0	0	0	0	LINEAR FEET
GUARDRAIL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	29	31	16	32	22	5	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
OVERHEAD SIGN	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
STATE BOUNDARY	0	0	0	0	0	0	EACH
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

ORPI: ROUTE MAINTENANCE FEATURES SUMMARY

<i>FEATURE</i>	<i>ROUTE 0402 SPUR RESIDENCE ROAD EAST</i>	<i>ROUTE 0409 GROUP CAMPGROUND ACCESS ROAD</i>	<i>UNIT</i>
BRIDGE	0	0	EACH
CATTLE GUARD	0	0	EACH
CULVERT	1	0	EACH
CURB	0	0	LINEAR FEET
DROP INLET	0	0	EACH
GUARD WALL	0	0	LINEAR FEET
GUARDRAIL	0	0	LINEAR FEET
INTERSECTION	4	4	EACH
LOW WATER CROSSING	0	0	EACH
OVERHEAD SIGN	0	0	EACH
PARK BOUNDARY	0	0	EACH
PAVED DITCH	0	0	LINEAR FEET
PULLOUT	0	0	EACH
RAILROAD CROSSING	0	0	EACH
RETAINING WALL	0	0	EACH
STATE BOUNDARY	0	0	EACH
TRAFFIC LIGHT	0	0	EACH
TUNNEL	0	0	EACH
TURNOUT	0	0	LINEAR FEET

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : VISITOR CENTER DRIVE

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 0013 (STATE ROUTE 85)
0.167	0.167	INTERSECTION	LEFT	RTE 905
0.183	0.183	INTERSECTION	RIGHT	
0.189	0.226	CURB	RIGHT	
0.198	0.198	INTERSECTION	LEFT	RTE 904
0.320	0.320			ROUTE ENDS AT ROUTE 0013 (STATE ROUTE 85)
0.320	0.320	INTERSECTION	LEFT	
0.320	0.320	INTERSECTION	RIGHT	

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0013 : STATE ROUTE 85

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT NORTH PARK BOUNDARY
0.055	0.055	CULVERT	N/A	
0.121	0.121	CULVERT	N/A	
0.275	0.275	CULVERT	N/A	
0.964	0.964	CULVERT	N/A	
1.367	1.367	CULVERT	N/A	
1.657	1.657	INTERSECTION	RIGHT	RTE 406 UNPAVED
2.286	2.286	CULVERT	N/A	
2.562	2.562	CULVERT	N/A	
2.924	2.924	CULVERT	N/A	
3.093	3.093	CULVERT	N/A	
3.154	3.154	CULVERT	N/A	
3.247	3.247	CULVERT	N/A	
3.320	3.320	CULVERT	N/A	
3.663	3.663	CULVERT	N/A	
3.716	3.716	CULVERT	N/A	
3.821	3.821	CULVERT	N/A	
4.067	4.067	CULVERT	N/A	
4.300	4.300	CULVERT	N/A	
4.543	4.543	CULVERT	N/A	
4.712	4.712	CULVERT	N/A	
4.937	4.937	CULVERT	N/A	
5.121	5.121	CULVERT	N/A	
5.266	5.266	CULVERT	N/A	
5.309	5.309	CULVERT	N/A	
5.455	5.455	CULVERT	N/A	
5.555	5.555	CULVERT	N/A	

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0013 : STATE ROUTE 85

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
5.596	5.596	CULVERT	N/A	
5.643	5.643	CULVERT	N/A	
5.778	5.778	CULVERT	N/A	
5.857	5.857	CULVERT	N/A	
5.916	5.916	CULVERT	N/A	
5.969	5.969	CULVERT	N/A	
6.066	6.066	CULVERT	N/A	
6.158	6.158	CULVERT	N/A	
6.336	6.336	CULVERT	N/A	
6.386	6.386	CULVERT	N/A	
6.409	6.409	CULVERT	N/A	
6.495	6.495	CULVERT	N/A	
6.678	6.678	CULVERT	N/A	
6.742	6.742	CULVERT	N/A	
6.798	6.798	CULVERT	N/A	
6.853	6.853	CULVERT	N/A	
6.959	6.959	CULVERT	N/A	
7.242	7.242	CULVERT	N/A	
7.370	7.370	CULVERT	N/A	
7.422	7.422	CULVERT	N/A	
7.519	7.595	CURB	RIGHT	
7.522	7.563	CURB	LEFT	
7.563	7.563	INTERSECTION	LEFT	RTE 204 UNPAVED
7.564	7.589	CURB	LEFT	
7.589	7.597	GUARDRAIL	LEFT	
7.590	7.598	GUARDRAIL	RIGHT	
7.595	7.631	BRIDGE	N/A	

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0013 : STATE ROUTE 85

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
7.627	7.687	CURB	LEFT	
7.631	7.703	CURB	RIGHT	
7.632	7.646	GUARDRAIL	LEFT	
7.634	7.644	GUARDRAIL	RIGHT	
7.774	7.774	CULVERT	N/A	
7.837	7.837	CULVERT	N/A	
8.031	8.031	CULVERT	N/A	
8.033	8.033	INTERSECTION	LEFT	
8.055	8.055	CULVERT	N/A	
8.249	8.249	CULVERT	N/A	
8.319	8.319	CULVERT	N/A	
8.455	8.455	CULVERT	N/A	
8.490	8.490	CULVERT	N/A	
8.560	8.560	CULVERT	N/A	
8.627	8.627	CULVERT	N/A	
8.696	8.696	CULVERT	N/A	
8.839	8.839	CULVERT	N/A	
8.977	8.977	CULVERT	N/A	
9.032	9.032	CULVERT	N/A	
9.167	9.167	CULVERT	N/A	
9.232	9.232	CULVERT	N/A	
9.389	9.389	CULVERT	N/A	
9.550	9.550	CULVERT	N/A	
9.654	9.654	CULVERT	N/A	
9.726	9.726	CULVERT	N/A	
9.909	9.909	CULVERT	N/A	
10.152	10.152	CULVERT	N/A	

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0013 : STATE ROUTE 85

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
10.264	10.264	CULVERT	N/A	
10.507	10.507	CULVERT	N/A	
10.874	10.874	CULVERT	N/A	
11.103	11.103	CULVERT	N/A	
11.481	11.481	CULVERT	N/A	
11.678	11.678	CULVERT	N/A	
12.070	12.070	CULVERT	N/A	
12.168	12.168	CULVERT	N/A	
12.245	12.245	CULVERT	N/A	
12.392	12.392	CULVERT	N/A	
12.821	12.821	CULVERT	N/A	
12.992	12.992	CULVERT	N/A	
13.040	13.040	CULVERT	N/A	
13.100	13.100	CULVERT	N/A	
13.130	13.130	CULVERT	N/A	
13.277	13.277	CULVERT	N/A	
13.377	13.377	CULVERT	N/A	
13.407	13.407	CULVERT	N/A	
13.432	13.432	CULVERT	N/A	
13.463	13.463	CULVERT	N/A	
13.543	13.543	CULVERT	N/A	
13.613	13.613	CULVERT	N/A	
13.655	13.655	CULVERT	N/A	
13.756	13.756	CULVERT	N/A	
13.791	13.791	CULVERT	N/A	
13.902	13.902	CULVERT	N/A	
13.987	13.987	CULVERT	N/A	

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0013 : STATE ROUTE 85

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
14.049	14.049	CULVERT	N/A	
14.077	14.077	CULVERT	N/A	
14.154	14.154	INTERSECTION	RIGHT	
14.232	14.232	CULVERT	N/A	
14.312	14.312	CULVERT	N/A	
14.513	14.513	CULVERT	N/A	
14.573	14.573	CULVERT	N/A	
14.607	14.607	CULVERT	N/A	
14.644	14.644	CULVERT	N/A	
14.740	14.740	CULVERT	N/A	
14.759	14.759	CULVERT	N/A	
14.805	14.805	CULVERT	N/A	
14.835	14.835	CULVERT	N/A	
14.891	14.891	CULVERT	N/A	
14.989	14.989	CULVERT	N/A	
15.021	15.021	CULVERT	N/A	
15.335	15.335	CULVERT	N/A	
15.454	15.454	CULVERT	N/A	
15.568	15.568	CULVERT	N/A	
15.663	15.663	CULVERT	N/A	
15.759	15.759	CULVERT	N/A	
16.096	16.096	CULVERT	N/A	
16.225	16.225	CULVERT	N/A	
16.300	16.300	CULVERT	N/A	
16.379	16.379	CULVERT	N/A	
16.540	16.540	CULVERT	N/A	
16.717	16.717	INTERSECTION	RIGHT	UNPAVED ROAD

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0013 : STATE ROUTE 85

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
16.736	16.736	CULVERT	N/A	
17.182	17.182	INTERSECTION	RIGHT	RTE 011
17.401	17.401	INTERSECTION	RIGHT	
17.413	17.413	INTERSECTION	LEFT	RTE 011 UNPAVED
17.414	17.414	INTERSECTION	RIGHT	RTE 011
17.547	17.547	CULVERT	N/A	
17.685	17.685	CULVERT	N/A	
17.869	17.869	CULVERT	N/A	
17.946	17.946	CULVERT	N/A	
18.071	18.071	CULVERT	N/A	
20.364	20.364	INTERSECTION	RIGHT	RTE 403 UNPAVED
20.675	20.675	CULVERT	N/A	
20.723	20.723	CULVERT	N/A	
20.795	20.795	CULVERT	N/A	
21.692	21.692	INTERSECTION	RIGHT	RTE 203 UNPAVED
21.770	21.770	INTERSECTION	LEFT	RTE 201 UNPAVED
21.831	21.831	CULVERT	N/A	
22.281	22.281	INTERSECTION	LEFT	
22.554	22.554	INTERSECTION	RIGHT	
22.568	22.568	INTERSECTION	LEFT	
22.580	22.580	INTERSECTION	LEFT	
22.581	22.581	INTERSECTION	RIGHT	
22.593	22.593	INTERSECTION	LEFT	
22.606	22.606	INTERSECTION	LEFT	
22.611	22.626	CURB	LEFT	
22.628	22.628	INTERSECTION	LEFT	
22.650	22.650			ROUTE ENDS AT SOUTH PARK BOUNDARY

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0013 : STATE ROUTE 85

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
22.651	22.651	INTERSECTION	RIGHT	

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0100 : RESIDENCE ACCESS ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 010
0.010	0.010	INTERSECTION	RIGHT	
0.079	0.079	INTERSECTION	LEFT	
0.272	0.272	INTERSECTION	LEFT	
0.372	0.372	CULVERT	N/A	
0.375	0.375	INTERSECTION	LEFT	
0.380	0.380			ROUTE ENDS AT ROUTE 400

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0101 : TWIN PEAKS ACCESS ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 100
0.219	0.219	INTERSECTION	LEFT	RTE 410
0.893	0.893	CULVERT	N/A	
1.320	1.320			ROUTE ENDS AT ROUTE 200

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0200 : CAMPGROUND LOOP ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 101 AT THE INTERSECTION WITH 409
0.006	0.006	INTERSECTION	LEFT	RTE 206
0.007	0.007	INTERSECTION	RIGHT	
0.041	0.041	INTERSECTION	LEFT	RTE 207
0.057	0.057	INTERSECTION	LEFT	RTE 208
0.071	0.071	INTERSECTION	LEFT	RTE 209
0.086	0.086	INTERSECTION	LEFT	RTE 210
0.103	0.103	INTERSECTION	LEFT	RTE 211
0.118	0.118	INTERSECTION	LEFT	RTE 212
0.129	0.129	INTERSECTION	LEFT	RTE 213
0.150	0.150	INTERSECTION	LEFT	RTE 214
0.167	0.167	INTERSECTION	LEFT	RTE 215
0.183	0.183	INTERSECTION	RIGHT	RTE 907 UNPAVED
0.185	0.185	INTERSECTION	LEFT	RTE 216
0.198	0.198	INTERSECTION	LEFT	RTE 217
0.210	0.210	INTERSECTION	LEFT	RTE 218
0.213	0.229	PULLOUT	RIGHT	
0.223	0.223	INTERSECTION	RIGHT	RTE 907
0.228	0.228	INTERSECTION	LEFT	RTE 219
0.241	0.241	INTERSECTION	LEFT	RTE 220
0.254	0.254	INTERSECTION	LEFT	RTE 221
0.287	0.287	INTERSECTION	RIGHT	
0.347	0.347	INTERSECTION	RIGHT	RTE908
0.389	0.389	INTERSECTION	RIGHT	RTE 908
0.569	0.569	INTERSECTION	LEFT	RTE 221
0.578	0.578	INTERSECTION	LEFT	RTE 219

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0200 : CAMPGROUND LOOP ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.594	0.594	INTERSECTION	LEFT	RTE 218
0.605	0.605	INTERSECTION	LEFT	RTE 217
0.621	0.621	INTERSECTION	LEFT	RTE 216
0.635	0.635	INTERSECTION	LEFT	RTE 215
0.646	0.646	INTERSECTION	LEFT	RTE 214
0.662	0.662	INTERSECTION	LEFT	RTE 213
0.675	0.675	INTERSECTION	LEFT	RTE 212
0.690	0.690	INTERSECTION	LEFT	RTE 211
0.706	0.706	INTERSECTION	LEFT	RTE 210
0.719	0.719	INTERSECTION	LEFT	RTE 209
0.730	0.730	INTERSECTION	LEFT	RTE 208
0.747	0.747	INTERSECTION	LEFT	RTE 207
0.763	0.763	INTERSECTION	LEFT	RTE 206
0.814	0.814	INTERSECTION	LEFT	
0.820	0.820			ROUTE ENDS AT AROUND OUTSIDE CAMPGROUND LOOP TO ROUTE 101

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0205 : MAINTENANCE YARD ACCESS ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 100
0.085	0.085	INTERSECTION	RIGHT	
0.100	0.100			ROUTE ENDS AT ROUTE 903

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0206 : CAMPGROUND LOOP SITES 1-6 ACCESS

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 200
0.018	0.018	INTERSECTION	RIGHT	
0.028	0.028	INTERSECTION	RIGHT	
0.037	0.037	INTERSECTION	RIGHT	
0.048	0.048	INTERSECTION	RIGHT	
0.057	0.057	INTERSECTION	RIGHT	
0.068	0.068	INTERSECTION	RIGHT	
0.089	0.089	INTERSECTION	RIGHT	
0.090	0.090			ROUTE ENDS AT ROUTE 200

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0207 : CAMPGROUND LOOP SITES 7-15 ACCESS

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 200
0.013	0.013	INTERSECTION	RIGHT	HANDICAPPEPED
0.023	0.023	INTERSECTION	RIGHT	
0.027	0.027	INTERSECTION	LEFT	
0.033	0.033	INTERSECTION	RIGHT	
0.043	0.043	INTERSECTION	RIGHT	
0.049	0.049	INTERSECTION	LEFT	
0.054	0.054	INTERSECTION	RIGHT	
0.063	0.063	INTERSECTION	LEFT	
0.065	0.065	INTERSECTION	RIGHT	
0.073	0.073	INTERSECTION	LEFT	
0.075	0.075	INTERSECTION	RIGHT	
0.085	0.085	INTERSECTION	LEFT	
0.086	0.086	INTERSECTION	RIGHT	
0.094	0.094	INTERSECTION	RIGHT	
0.110	0.110			ROUTE ENDS AT ROUTE 200
0.110	0.110	INTERSECTION	RIGHT	

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0208 : CAMPGROUND LOOP SITES 16-23 ACCESS

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 200
0.016	0.016	INTERSECTION	RIGHT	
0.024	0.024	INTERSECTION	LEFT	
0.038	0.038	INTERSECTION	RIGHT	
0.048	0.048	INTERSECTION	RIGHT	
0.050	0.050	INTERSECTION	LEFT	
0.059	0.059	INTERSECTION	LEFT	
0.060	0.060	INTERSECTION	RIGHT	
0.068	0.068	INTERSECTION	RIGHT	
0.072	0.072	INTERSECTION	LEFT	
0.080	0.080	INTERSECTION	RIGHT	
0.084	0.084	INTERSECTION	LEFT	
0.091	0.091	INTERSECTION	RIGHT	
0.096	0.096	INTERSECTION	LEFT	
0.110	0.110	INTERSECTION	LEFT	
0.113	0.113	INTERSECTION	RIGHT	
0.121	0.121	INTERSECTION	LEFT	
0.127	0.127	INTERSECTION	LEFT	
0.128	0.128	INTERSECTION	RIGHT	
0.130	0.130			ROUTE ENDS AT ROUTE 200

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0209 : CAMPGROUND LOOP SITES 24-34 ACCESS

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 200
0.015	0.015	INTERSECTION	RIGHT	
0.021	0.021	INTERSECTION	LEFT	
0.030	0.030	INTERSECTION	RIGHT	
0.041	0.041	INTERSECTION	RIGHT	
0.049	0.049	INTERSECTION	RIGHT	
0.050	0.050	INTERSECTION	LEFT	
0.057	0.057	INTERSECTION	RIGHT	
0.059	0.059	INTERSECTION	LEFT	
0.070	0.070	INTERSECTION	LEFT	
0.072	0.072	INTERSECTION	RIGHT	
0.081	0.081	INTERSECTION	RIGHT	
0.092	0.092	INTERSECTION	RIGHT	
0.096	0.096	INTERSECTION	LEFT	
0.104	0.104	INTERSECTION	RIGHT	
0.110	0.110	INTERSECTION	RIGHT	
0.123	0.123	INTERSECTION	RIGHT	
0.133	0.133	INTERSECTION	LEFT	
0.150	0.150			ROUTE ENDS AT ROUTE 200

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0210 : CAMPGROUND LOOP SITES 35-45 ACCESS

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 200
0.018	0.018	INTERSECTION	RIGHT	
0.023	0.023	INTERSECTION	LEFT	
0.032	0.032	INTERSECTION	RIGHT	
0.037	0.037	INTERSECTION	LEFT	
0.039	0.039	INTERSECTION	RIGHT	
0.047	0.047	INTERSECTION	LEFT	
0.050	0.050	INTERSECTION	RIGHT	
0.057	0.057	INTERSECTION	LEFT	
0.060	0.060	INTERSECTION	RIGHT	
0.069	0.069	INTERSECTION	LEFT	
0.072	0.072	INTERSECTION	RIGHT	
0.080	0.080	INTERSECTION	LEFT	
0.081	0.081	INTERSECTION	RIGHT	
0.091	0.091	INTERSECTION	RIGHT	
0.092	0.092	INTERSECTION	LEFT	
0.102	0.102	INTERSECTION	LEFT	
0.102	0.102	INTERSECTION	RIGHT	
0.113	0.113	INTERSECTION	RIGHT	
0.114	0.114	INTERSECTION	LEFT	
0.122	0.122	INTERSECTION	RIGHT	
0.126	0.126	INTERSECTION	LEFT	
0.139	0.139	INTERSECTION	LEFT	
0.155	0.155	INTERSECTION	LEFT	
0.155	0.155	INTERSECTION	RIGHT	
0.160	0.160			ROUTE ENDS AT ROUTE 200

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0211 : CAMPGROUND LOOP SITES 46-57 ACCESS

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 200
0.022	0.022	INTERSECTION	RIGHT	
0.026	0.026	INTERSECTION	LEFT	
0.032	0.032	INTERSECTION	RIGHT	
0.038	0.038	INTERSECTION	LEFT	
0.041	0.041	INTERSECTION	RIGHT	
0.046	0.046	INTERSECTION	LEFT	
0.053	0.053	INTERSECTION	RIGHT	
0.059	0.059	INTERSECTION	LEFT	
0.065	0.065	INTERSECTION	RIGHT	
0.070	0.070	INTERSECTION	LEFT	
0.072	0.072	INTERSECTION	RIGHT	
0.081	0.081	INTERSECTION	LEFT	
0.081	0.081	INTERSECTION	RIGHT	
0.090	0.090	INTERSECTION	LEFT	
0.092	0.092	INTERSECTION	RIGHT	
0.105	0.105	INTERSECTION	LEFT	
0.106	0.106	INTERSECTION	RIGHT	
0.116	0.116	INTERSECTION	LEFT	
0.116	0.116	INTERSECTION	RIGHT	
0.126	0.126	INTERSECTION	RIGHT	
0.129	0.129	INTERSECTION	LEFT	
0.140	0.140	INTERSECTION	LEFT	
0.140	0.140	INTERSECTION	RIGHT	
0.165	0.165	INTERSECTION	LEFT	
0.165	0.165	INTERSECTION	RIGHT	
0.170	0.170			ROUTE ENDS AT ROUTE 200

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0212 : CAMPGROUND LOOP SITES 58-70 ACCESS

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 200
0.023	0.023	INTERSECTION	RIGHT	
0.028	0.028	INTERSECTION	LEFT	
0.037	0.037	INTERSECTION	LEFT	
0.038	0.038	INTERSECTION	RIGHT	
0.047	0.047	INTERSECTION	RIGHT	
0.049	0.049	INTERSECTION	LEFT	
0.057	0.057	INTERSECTION	RIGHT	
0.058	0.058	INTERSECTION	LEFT	
0.068	0.068	INTERSECTION	RIGHT	
0.071	0.071	INTERSECTION	LEFT	
0.082	0.082	INTERSECTION	RIGHT	
0.084	0.084	INTERSECTION	LEFT	
0.091	0.091	INTERSECTION	RIGHT	
0.092	0.092	INTERSECTION	LEFT	
0.100	0.100	INTERSECTION	RIGHT	
0.102	0.102	INTERSECTION	LEFT	
0.110	0.110	INTERSECTION	RIGHT	
0.118	0.118	INTERSECTION	LEFT	
0.122	0.122	INTERSECTION	RIGHT	
0.127	0.127	INTERSECTION	LEFT	
0.132	0.132	INTERSECTION	RIGHT	
0.140	0.140	INTERSECTION	LEFT	
0.143	0.143	INTERSECTION	RIGHT	
0.156	0.156	INTERSECTION	LEFT	
0.172	0.172	INTERSECTION	RIGHT	
0.174	0.174	INTERSECTION	LEFT	

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0212 : CAMPGROUND LOOP SITES 58-70 ACCESS

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.180	0.180			ROUTE ENDS AT ROUTE 200

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0213 : CAMPGROUND LOOP SITES 71-85 ACCESS

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 200
0.027	0.027	INTERSECTION	RIGHT	
0.035	0.035	INTERSECTION	LEFT	
0.036	0.036	INTERSECTION	RIGHT	
0.046	0.046	INTERSECTION	RIGHT	
0.053	0.053	INTERSECTION	LEFT	
0.055	0.055	INTERSECTION	RIGHT	
0.061	0.061	INTERSECTION	LEFT	
0.063	0.063	INTERSECTION	RIGHT	
0.074	0.074	INTERSECTION	RIGHT	
0.075	0.075	INTERSECTION	LEFT	
0.082	0.082	INTERSECTION	RIGHT	
0.087	0.087	INTERSECTION	LEFT	
0.092	0.092	INTERSECTION	RIGHT	
0.100	0.100	INTERSECTION	LEFT	
0.100	0.100	INTERSECTION	RIGHT	
0.110	0.110	INTERSECTION	LEFT	
0.110	0.110	INTERSECTION	RIGHT	
0.118	0.118	INTERSECTION	RIGHT	
0.122	0.122	INTERSECTION	LEFT	
0.126	0.126	INTERSECTION	RIGHT	
0.132	0.132	INTERSECTION	LEFT	
0.138	0.138	INTERSECTION	RIGHT	
0.142	0.142	INTERSECTION	LEFT	
0.147	0.147	INTERSECTION	RIGHT	
0.154	0.154	INTERSECTION	LEFT	
0.163	0.163	INTERSECTION	RIGHT	

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0213 : CAMPGROUND LOOP SITES 71-85 ACCESS

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.168	0.168	INTERSECTION	LEFT	
0.189	0.189	INTERSECTION	LEFT	
0.189	0.189	INTERSECTION	RIGHT	
0.190	0.190			ROUTE ENDS AT ROUTE 200

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0214 : CAMPGROUND LOOP SITES 86-95 ACCESS

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 200
0.019	0.019	INTERSECTION	RIGHT	
0.021	0.021	INTERSECTION	LEFT	
0.030	0.030	INTERSECTION	RIGHT	
0.031	0.031	INTERSECTION	LEFT	
0.042	0.042	INTERSECTION	LEFT	
0.051	0.051	INTERSECTION	LEFT	
0.060	0.060	INTERSECTION	LEFT	
0.063	0.063	INTERSECTION	RIGHT	
0.072	0.072	INTERSECTION	LEFT	
0.077	0.077	INTERSECTION	RIGHT	
0.083	0.083	INTERSECTION	LEFT	
0.085	0.085	INTERSECTION	RIGHT	
0.094	0.094	INTERSECTION	LEFT	
0.095	0.095	INTERSECTION	RIGHT	
0.102	0.102	INTERSECTION	LEFT	
0.108	0.108	INTERSECTION	RIGHT	
0.109	0.109	INTERSECTION	LEFT	
0.119	0.119	INTERSECTION	RIGHT	
0.122	0.122	INTERSECTION	LEFT	
0.133	0.133	INTERSECTION	LEFT	
0.146	0.146	INTERSECTION	LEFT	
0.156	0.156	INTERSECTION	LEFT	
0.159	0.159	INTERSECTION	RIGHT	
0.169	0.169	INTERSECTION	RIGHT	
0.171	0.171	INTERSECTION	LEFT	
0.189	0.189	INTERSECTION	RIGHT	

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0214 : CAMPGROUND LOOP SITES 86-95 ACCESS

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.190	0.190	INTERSECTION	LEFT	
0.200	0.200			ROUTE ENDS AT ROUTE 200

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0215 : CAMPGROUND LOOP SITES 96-112 ACCESS

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 200
0.011	0.011	INTERSECTION	RIGHT	
0.018	0.018	INTERSECTION	RIGHT	
0.022	0.022	INTERSECTION	LEFT	
0.031	0.031	INTERSECTION	RIGHT	
0.035	0.035	INTERSECTION	LEFT	
0.043	0.043	INTERSECTION	RIGHT	
0.052	0.052	INTERSECTION	RIGHT	
0.062	0.062	INTERSECTION	RIGHT	
0.072	0.072	INTERSECTION	LEFT	
0.073	0.073	INTERSECTION	RIGHT	
0.083	0.083	INTERSECTION	RIGHT	
0.084	0.084	INTERSECTION	LEFT	
0.095	0.095	INTERSECTION	RIGHT	
0.099	0.099	INTERSECTION	LEFT	
0.107	0.107	INTERSECTION	RIGHT	
0.109	0.109	INTERSECTION	LEFT	
0.117	0.117	INTERSECTION	RIGHT	
0.121	0.121	INTERSECTION	LEFT	
0.126	0.126	INTERSECTION	RIGHT	
0.134	0.134	INTERSECTION	LEFT	
0.137	0.137	INTERSECTION	RIGHT	
0.148	0.148	INTERSECTION	RIGHT	
0.157	0.157	INTERSECTION	RIGHT	
0.166	0.166	INTERSECTION	RIGHT	
0.174	0.174	INTERSECTION	LEFT	
0.180	0.180	INTERSECTION	RIGHT	

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0215 : CAMPGROUND LOOP SITES 96-112 ACCESS

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.184	0.184	INTERSECTION	LEFT	
0.197	0.197	INTERSECTION	RIGHT	
0.198	0.198	INTERSECTION	LEFT	
0.200	0.200			ROUTE ENDS AT ROUTE 200

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0216 : CAMPGROUND LOOP SITES 113-128 ACCESS

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 200
0.008	0.008	INTERSECTION	RIGHT	
0.014	0.014	INTERSECTION	LEFT	
0.020	0.020	INTERSECTION	RIGHT	
0.023	0.023	INTERSECTION	LEFT	
0.032	0.032	INTERSECTION	RIGHT	
0.035	0.035	INTERSECTION	LEFT	
0.046	0.046	INTERSECTION	RIGHT	
0.048	0.048	INTERSECTION	LEFT	
0.054	0.054	INTERSECTION	RIGHT	
0.058	0.058	INTERSECTION	LEFT	
0.068	0.068	INTERSECTION	RIGHT	
0.069	0.069	INTERSECTION	LEFT	
0.080	0.080	INTERSECTION	RIGHT	
0.082	0.082	INTERSECTION	LEFT	
0.090	0.090	INTERSECTION	RIGHT	
0.092	0.092	INTERSECTION	LEFT	
0.104	0.104	INTERSECTION	LEFT	
0.106	0.106	INTERSECTION	RIGHT	
0.117	0.117	INTERSECTION	RIGHT	
0.118	0.118	INTERSECTION	LEFT	
0.126	0.126	INTERSECTION	LEFT	
0.126	0.126	INTERSECTION	RIGHT	
0.138	0.138	INTERSECTION	LEFT	
0.140	0.140	INTERSECTION	RIGHT	
0.149	0.149	INTERSECTION	LEFT	
0.150	0.150	INTERSECTION	RIGHT	

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0216 : CAMPGROUND LOOP SITES 113-128 ACCESS

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.159	0.159	INTERSECTION	RIGHT	
0.160	0.160	INTERSECTION	LEFT	
0.171	0.171	INTERSECTION	RIGHT	
0.172	0.172	INTERSECTION	LEFT	
0.184	0.184	INTERSECTION	LEFT	
0.186	0.186	INTERSECTION	RIGHT	
0.194	0.194	INTERSECTION	LEFT	
0.203	0.203	INTERSECTION	LEFT	
0.206	0.206	INTERSECTION	RIGHT	
0.210	0.210			ROUTE ENDS AT ROUTE 200

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0217 : CAMPGROUND LOOP SITES 129-145 ACCESS

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 200
0.014	0.014	INTERSECTION	LEFT	
0.015	0.015	INTERSECTION	RIGHT	
0.025	0.025	INTERSECTION	RIGHT	
0.029	0.029	INTERSECTION	LEFT	
0.036	0.036	INTERSECTION	RIGHT	
0.040	0.040	INTERSECTION	LEFT	
0.045	0.045	INTERSECTION	RIGHT	
0.053	0.053	INTERSECTION	LEFT	
0.055	0.055	INTERSECTION	RIGHT	
0.064	0.064	INTERSECTION	LEFT	
0.068	0.068	INTERSECTION	RIGHT	
0.077	0.077	INTERSECTION	LEFT	
0.079	0.079	INTERSECTION	RIGHT	
0.089	0.089	INTERSECTION	LEFT	
0.089	0.089	INTERSECTION	RIGHT	
0.099	0.099	INTERSECTION	LEFT	
0.106	0.106	INTERSECTION	RIGHT	
0.118	0.118	INTERSECTION	RIGHT	
0.120	0.120	INTERSECTION	LEFT	
0.126	0.126	INTERSECTION	RIGHT	
0.131	0.131	INTERSECTION	LEFT	
0.136	0.136	INTERSECTION	RIGHT	
0.141	0.141	INTERSECTION	LEFT	
0.150	0.150	INTERSECTION	RIGHT	
0.152	0.152	INTERSECTION	LEFT	
0.159	0.159	INTERSECTION	RIGHT	

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0217 : CAMPGROUND LOOP SITES 129-145 ACCESS

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.166	0.166	INTERSECTION	LEFT	
0.167	0.167	INTERSECTION	RIGHT	
0.176	0.176	INTERSECTION	LEFT	
0.180	0.180	INTERSECTION	RIGHT	
0.188	0.188	INTERSECTION	LEFT	
0.191	0.191	INTERSECTION	RIGHT	
0.203	0.203	INTERSECTION	LEFT	
0.213	0.213	INTERSECTION	RIGHT	
0.215	0.215	INTERSECTION	LEFT	
0.220	0.220			ROUTE ENDS AT ROUTE 200

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0218 : CAMPGROUND LOOP SITES 146-158 ACCESS

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 200
0.017	0.017	INTERSECTION	RIGHT	
0.027	0.027	INTERSECTION	RIGHT	
0.030	0.030	INTERSECTION	LEFT	
0.043	0.043	INTERSECTION	LEFT	
0.054	0.054	INTERSECTION	LEFT	
0.063	0.063	INTERSECTION	RIGHT	
0.065	0.065	INTERSECTION	LEFT	
0.072	0.072	INTERSECTION	RIGHT	HANDICAPPED
0.077	0.077	INTERSECTION	LEFT	
0.082	0.082	INTERSECTION	RIGHT	
0.091	0.091	INTERSECTION	LEFT	
0.094	0.094	INTERSECTION	RIGHT	
0.104	0.104	INTERSECTION	LEFT	
0.111	0.111	INTERSECTION	RIGHT	
0.117	0.117	INTERSECTION	LEFT	
0.129	0.129	INTERSECTION	LEFT	
0.141	0.141	INTERSECTION	RIGHT	HANDICAPPED
0.153	0.153	INTERSECTION	LEFT	
0.155	0.155	INTERSECTION	RIGHT	
0.163	0.163	INTERSECTION	LEFT	
0.166	0.166	INTERSECTION	RIGHT	
0.175	0.175	INTERSECTION	LEFT	
0.177	0.177	INTERSECTION	RIGHT	
0.185	0.185	INTERSECTION	LEFT	
0.187	0.187	INTERSECTION	RIGHT	
0.197	0.197	INTERSECTION	LEFT	

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0218 : CAMPGROUND LOOP SITES 146-158 ACCESS

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.199	0.199	INTERSECTION	RIGHT	
0.209	0.209	INTERSECTION	LEFT	
0.224	0.224	INTERSECTION	RIGHT	
0.230	0.230			ROUTE ENDS AT ROUTE 200

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0219 : CAMPGROUND LOOP SITES 159-174 ACCESS

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 200
0.012	0.012	INTERSECTION	RIGHT	
0.015	0.015	INTERSECTION	LEFT	
0.023	0.023	INTERSECTION	RIGHT	
0.032	0.032	INTERSECTION	LEFT	
0.035	0.035	INTERSECTION	RIGHT	
0.047	0.047	INTERSECTION	LEFT	
0.049	0.049	INTERSECTION	RIGHT	
0.059	0.059	INTERSECTION	RIGHT	
0.066	0.066	INTERSECTION	LEFT	
0.073	0.073	INTERSECTION	RIGHT	
0.078	0.078	INTERSECTION	LEFT	
0.085	0.085	INTERSECTION	RIGHT	
0.086	0.086	INTERSECTION	LEFT	
0.098	0.098	INTERSECTION	RIGHT	
0.102	0.102	INTERSECTION	LEFT	
0.109	0.109	INTERSECTION	RIGHT	
0.116	0.116	INTERSECTION	LEFT	
0.123	0.123	INTERSECTION	LEFT	
0.125	0.125	INTERSECTION	RIGHT	
0.139	0.139	INTERSECTION	RIGHT	
0.151	0.151	INTERSECTION	LEFT	
0.151	0.151	INTERSECTION	RIGHT	
0.161	0.161	INTERSECTION	LEFT	
0.161	0.161	INTERSECTION	RIGHT	
0.175	0.175	INTERSECTION	LEFT	
0.177	0.177	INTERSECTION	RIGHT	

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0219 : CAMPGROUND LOOP SITES 159-174 ACCESS

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.187	0.187	INTERSECTION	LEFT	
0.189	0.189	INTERSECTION	RIGHT	
0.201	0.201	INTERSECTION	RIGHT	
0.213	0.213	INTERSECTION	LEFT	
0.230	0.230			ROUTE ENDS AT ROUTE 200
0.230	0.230	INTERSECTION	RIGHT	

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0220 : CAMPGROUND LOOP SITES 175-191 ACCESS

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 200
0.034	0.034	INTERSECTION	LEFT	
0.049	0.049	INTERSECTION	LEFT	
0.062	0.062	INTERSECTION	LEFT	
0.072	0.072	INTERSECTION	LEFT	
0.084	0.084	INTERSECTION	LEFT	
0.100	0.100	INTERSECTION	LEFT	
0.113	0.113	INTERSECTION	LEFT	
0.124	0.124	INTERSECTION	LEFT	
0.142	0.142	INTERSECTION	LEFT	
0.157	0.157	INTERSECTION	LEFT	
0.170	0.170	INTERSECTION	LEFT	
0.181	0.181	INTERSECTION	LEFT	
0.200	0.200	INTERSECTION	LEFT	
0.213	0.213	INTERSECTION	LEFT	
0.223	0.223	INTERSECTION	LEFT	
0.241	0.241	INTERSECTION	RIGHT	
0.250	0.250			ROUTE ENDS AT ROUTE 200

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0221 : CAMPGROUND LOOP SITES 192-208 ACCESS

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 200
0.016	0.016	INTERSECTION	RIGHT	
0.026	0.026	INTERSECTION	RIGHT	
0.027	0.027	INTERSECTION	LEFT	
0.040	0.040	INTERSECTION	RIGHT	
0.043	0.043	INTERSECTION	LEFT	
0.049	0.049	INTERSECTION	RIGHT	
0.059	0.059	INTERSECTION	LEFT	
0.061	0.061	INTERSECTION	RIGHT	
0.069	0.069	INTERSECTION	RIGHT	
0.077	0.077	INTERSECTION	LEFT	
0.078	0.078	INTERSECTION	RIGHT	
0.091	0.091	INTERSECTION	LEFT	
0.093	0.093	INTERSECTION	RIGHT	
0.103	0.103	INTERSECTION	RIGHT	
0.105	0.105	INTERSECTION	LEFT	
0.115	0.115	INTERSECTION	LEFT	
0.125	0.125	INTERSECTION	RIGHT	
0.128	0.128	INTERSECTION	LEFT	
0.135	0.135	INTERSECTION	RIGHT	
0.144	0.144	INTERSECTION	LEFT	
0.147	0.147	INTERSECTION	RIGHT	
0.155	0.155	INTERSECTION	LEFT	
0.159	0.159	INTERSECTION	RIGHT	
0.169	0.169	INTERSECTION	LEFT	
0.171	0.171	INTERSECTION	RIGHT	
0.182	0.182	INTERSECTION	RIGHT	

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0221 : CAMPGROUND LOOP SITES 192-208 ACCESS

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.184	0.184	INTERSECTION	LEFT	
0.197	0.197	INTERSECTION	LEFT	
0.210	0.210	INTERSECTION	RIGHT	
0.217	0.217	INTERSECTION	LEFT	
0.224	0.224	INTERSECTION	RIGHT	
0.227	0.227	INTERSECTION	LEFT	
0.260	0.260			ROUTE ENDS AT ROUTE 200

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0400 : RESIDENCE LOOP ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 100
0.011	0.011	INTERSECTION	RIGHT	
0.013	0.013	INTERSECTION	LEFT	
0.062	0.062	INTERSECTION	LEFT	
0.085	0.085	INTERSECTION	LEFT	
0.100	0.100	INTERSECTION	LEFT	
0.116	0.116	INTERSECTION	LEFT	
0.135	0.135	INTERSECTION	LEFT	
0.146	0.146	INTERSECTION	LEFT	
0.188	0.188	INTERSECTION	RIGHT	
0.197	0.197	INTERSECTION	LEFT	
0.247	0.247	INTERSECTION	LEFT	
0.266	0.266	INTERSECTION	LEFT	
0.285	0.285	INTERSECTION	LEFT	
0.292	0.292	INTERSECTION	RIGHT	
0.315	0.315	INTERSECTION	LEFT	
0.338	0.338	INTERSECTION	LEFT	
0.347	0.347	INTERSECTION	RIGHT	RTE 401
0.369	0.369	INTERSECTION	LEFT	
0.539	0.539	CULVERT	N/A	
0.660	0.660	INTERSECTION	RIGHT	RTE 408
0.843	0.843	INTERSECTION	LEFT	
0.906	0.906	INTERSECTION	LEFT	
0.961	0.961	INTERSECTION	LEFT	
0.970	0.970			ROUTE ENDS AT LOOP THROUGH RESIDENCE AREA

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0401 : SPUR RESIDENCE ROAD WEST

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 402
0.025	0.025	INTERSECTION	RIGHT	
0.031	0.031	INTERSECTION	RIGHT	
0.033	0.033	INTERSECTION	RIGHT	
0.063	0.063	INTERSECTION	LEFT	
0.077	0.077	INTERSECTION	LEFT	
0.080	0.080			ROUTE ENDS AT RESIDENCE DRIVEWAY

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0402 : SPUR RESIDENCE ROAD EAST

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 400
0.015	0.015	CULVERT	N/A	
0.021	0.021	INTERSECTION	LEFT	RTE 401
0.037	0.037	INTERSECTION	LEFT	
0.051	0.051	INTERSECTION	LEFT	
0.115	0.115	INTERSECTION	LEFT	
0.120	0.120			ROUTE ENDS AT RESIDENCE LOOP

ORPI: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0409 : GROUP CAMPGROUND ACCESS ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 101
0.025	0.025	INTERSECTION	RIGHT	RTE 403
0.132	0.132	INTERSECTION	LEFT	
0.140	0.140			ROUTE ENDS AT SOUTH WATER TANK
0.169	0.169	INTERSECTION	LEFT	
0.178	0.178	INTERSECTION	RIGHT	

APPENDIX A: GLOSSARY OF TERMS AND ABBREVIATIONS

TERM OR ABBREVIATION	DESCRIPTION OR DEFINITION
8660	Numeric Code for Organ Pipe Cactus National Monument
AADT	Annually Adjusted Daily Traffic. Average daily traffic adjusted for the term period comprising 80% of annual visitation
CRS	Condition Rating Sheets. (Section 5)
Drainage Condition Rating	A visual rating (Good, Poor) of the drainage condition. (see Section 10)
Excellent	Excellent rating with an index value of 95 or greater
Fair	Fair rating with an index value between 61 and 84
Func. Class	Functional Classification (see Route ID, Section 4)
Good	Good rating with an index value between 85 and 94
IRI	International Roughness Index
Lane Width	Distance from road centerline to fogline, or from centerline to edge-of-pavement when no fogline exists
MRR	Manually Rated Route
NA	Not Applicable
NC	Not Collected
ORPI	Alpha Code for Organ Pipe Cactus National Monument
Paved Width	Distance from edge-of-pavement to edge-of-pavement
PCR	Pavement Condition Rating (see Section 10)

Poor	Poor Rating with an index value of 60 or less
RCI	Roughness Condition Index
SADT	Seasonal Annual Daily Traffic. Average daily traffic for the total defined "season"
SCR	Surface Condition Rating (see Section 10)
Shoulder Condition Rating	Visual rating (Good, Poor) of the condition of shoulder. (see 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 1 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.

Rating Index Formulas

Alligator Cracking Index = $100 - [40 * (\%low/70 + \%medium/30 + \%high/10)]$

Longitudinal Cracking Index = $100 - [40 * (\%low/350 + \%medium/200 + \%high/75)]$

Transverse Cracking Index = $100 - [(20 * (low/15.1 + medium/7.5)) + (40 * (high/1.9))]$

Patching Index = $100 - [40 * (\%patching / 80)]$

Rutting Index: $100 - [40 * ((low/160) + (med/80) + (high/40))]$

Roughness Condition Index: (RCI) = $32 * [5 * e^{(-0.0041 * \text{average IRI})}]$

These 0.02 Distress Rating Index values are then averaged over one mile sections for the mile-by-mile Distress Rating Indexes, Surface Condition Rating (SCR) and Pavement Condition Rating (PCR).

Surface Condition Rating (SCR) = $100 - [(100 - AC_INDEX) + (100 - LC_INDEX) + (100 - TC_INDEX) + (100 - PATCH_INDEX) + (100 - RUT_INDEX)]$

Pavement Condition Rating (PCR) = $(SCR * 0.60) + (RCI * 0.40)$

NOTE: Collection of roughness data is dependant 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.

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

Excellent	97
Good	90
Fair	73
Poor	45

Drainage Condition Rating Definitions

- Good:** Minimal overall drainage problems. If funding were available for pavement maintenance, 25% or less is estimated to correct drainage deficiencies.
- Poor:** Problems exist that jeopardizes the integrity of the road in this section. If funding were available for pavement maintenance, 50% to 100% is estimated to correct drainage deficiencies.

Drainage Condition Rating Criteria

The following are examples of basic criteria to help the rater to identify the different drainage ratings. While in the field, many other flaws will be discovered, but these criteria should give a feel for where the flaws would apply in the ratings.

Good Drainage

Most water clears the road prism adequately with little concern of base saturation.

- X Pavement has minor deficiencies that interrupt water flow.
- X Shoulders are mostly adequate as they relate to surrounding terrain. Shoulder design generally coincides with the drainage design.
- X Curbs have deficiencies, but still function without erosion.
- X Down drains are placed properly, but show signs of some deterioration.
- X Culverts are adequate in numbers and size however, minor deficiencies are evident.
- X Ditches are not paved, but solid and have enough area to maintain and carry required volume of water.

Poor Drainage

This section has areas of inadequate drainage ability that is causing base saturation that could cause a road failure.

- X Pavement grade is irregular and holds dangerous amounts of water (hydroplaning is a concern), or shows massive alligator cracking.
- X Shoulder design induces ponding that encroaches on the pavement (drivers try to avoid ponds).
- X Portions of curbs are missing, allowing water to escape causing erosion.
- X Drop inlets, due to various reasons, are only able to drain 50% or less efficiently.
- X Down drains show signs of water exiting in areas by the down drain causing erosion.
- X Culverts are functionally deficient including size, installation, location, or grade giving water opportunity to saturate the road base.
- X Ditches allow water opportunity to saturate the road base through various reasons such as low places in ditch where design has not allowed for water to drain, little or no room in the road prism for a needed ditch, or water is disappearing within the ditch.

Shoulder Condition Rating Definitions

- Good:** The shoulder is generally in good functional condition. If curbs are present, they are functional.
- Poor:** There is no shoulder because erosion has removed it. If curbs are present, they need to be replaced.

Shoulder Rating Criteria

The following are examples of basic criteria to help the rater to identify the different shoulder ratings. While in the field, many other flaws will be discovered, but these criteria should give a feel for where the flaws would apply in the ratings.

Good Shoulders

- X If shoulder is unpaved drop-offs are less than 1", but grading is required.
- X If shoulder is paved rut depth is less than 1/2", sealed cracks are present, and grading is required.
- X If curbs are present they are functional.

Poor Shoulder

- X If shoulder is unpaved drop-offs are greater than 4" and erosion has removed the shoulder.
- X If shoulder is paved rut depth is greater than 1". Open cracks are greater than 1/4" deep, and erosion has removed the shoulder.
- X If curbs are present they need replacement.
- X If curbs are present they need repairs, and there is erosion behind the curb.

APPENDIX C: DIGITAL IMAGE INFORMATION

All images collected in Cycle 3 are digital images. These images provide the best resolution for identifying sign inventories and pavement evaluations. The images can be viewed with an interactive software program called **Visi-Data**. Each park will have a copy of the Visi-Data program installed in the park for park personnel to access and use.

Only Cycle 3 data can be queried and reviewed using the Visi-Data software program. This program is a multimedia 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 trying to query. Associated digital right-of-way images from either the LAN, USB port, individual DVD, or from the Visi-web application, can be presented along with the GPS locations.

APPENDIX D: METADATA

ARAN ROUTE GPS DATA

Background information of route spatial data.

GPS Records: GPS data for NPS routes is stored in the MS Access database for the park. The coordinates of the road traces are stored in the 'PMS_20' table in the 'GPS_LAT' and 'GPS_LON' fields.

Data Collection Device:

Vehicle Information: Ford Van
Type of GPS Unit: NovAtel MiLLennium, 12 channel, dual frequency L1/L2, DGPS ready receiver w/MiLLennium 502 GPS antenna and OmniSTAR System 3000 LR
Inertial System: Applanix POS LV

Accuracy: Expected ground accuracy is 1 meter *

*The above accuracy assumes good GPS mission planning resulting in maximum GPS satellite observation and ideal environmental conditions. Due to less than ideal satellite and environmental conditions, some routes may lack the expected ground accuracy.

Geographic Datum: WGS 1984

Post Collection GPS Correction: Due to unanticipated GPS collection inaccuracies, some route locations have been digitized using DOQQ's and other data sources.

FHWA – NPS Road Inventory Program Cycle 3 Metadata for the Park Database

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

- Three canned reports are titled “Features in Good Condition”, “Features in Fair Condition,” and “Features in Poor Condition.” These titles could be misleading. In Cycle 3, condition assessments have been conducted on **signs only**. Condition assessments have not been conducted on non-sign features, such as culverts, guardrails, pullouts, etc. Although the database and canned reports might report a default value of “good” for un-assessed features, these condition values are not valid for import into FMSS.
- Database records that show a concrete surface type sometimes include index values that seem to show a perfect roadway (e.g., a Pavement Condition Rating (PCR) of 100). The Road Inventory Program does not actually conduct condition assessments of concrete surfaces. The perfect values are just default values assigned to unassessed sections of pavement and do not represent an assessment of the roadway surface's quality.
- 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_Visidata 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.

- Most roadway features are collected relative to the primary direction lane of a roadway, using the primary-direction video. Signs are the only features collected using the opposite-direction video.

Key to Notes in Tables

(1): Note that only one value fits in field, so even if this value varies throughout the route, only one value is recorded here.

(2): Note that some MP values listed here are estimates recorded during the Route ID process for use by the data collection crew (e.g. "FROM ROUTE 0010 AT MILEPOST 30.3"). They are estimates only and are not expected to match the more accurate milepost values included elsewhere in the database in the BEG_MP, END_MP, and MP fields.

(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. Features along the side of a roadway that are measured using the Surveyor software might not be located very accurately. Surveyor is known to be most accurate when measuring quantities near the center of the video frame, as opposed to in the edges of the video image.

(5): Only signs are evaluated for condition. No other features' conditions are assessed, so "N/A" was originally intended to be the default value for unassessed features. However, some non-sign features do have condition ratings in the database. These are not accurate, because no assessment was ever done on non-sign features.

(6): Condition assessments are not conducted on concrete (CO) surface types. Perfect values for concrete road sections are default values and do not represent a condition assessment of the concrete surfaces.

(7): 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 resolution. 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
RIP_CYCLE	X	3, for data collection cycle 3	Route ID Meeting	FHWA Determination	100%
STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested. (1)
PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	Untested
PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	Untested
RTE_NO	XXXXXX	Route number	Route ID Meeting	Park Input/FHWA Classification	Untested
RTE_NAME	(Text)	Route name	Route ID Meeting	Park Input	Untested. 50 characters fit in field
FUNCT_CLAS	X	Route functional classification	Route ID Meeting	Park Input/FHWA Classification	Untested
DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input/FHWA Determination	Untested
BEG_MP_EST	999.999 (miles)	Estimated starting MP	Route ID Meeting	Park Input/FHWA Determination	Estimated before data collected
END_MP_EST	999.999 (miles)	Estimated ending MP	Route ID Meeting	Park Input/FHWA Determination	Estimated before data collected
RTE_LENGTH	999.999 (miles)	Collected route length	ARAN Data Collection	Automatic Output	100%
FROM_DESC	(Text)	Beginning terminus of route	Route ID Meeting	Park Input/FHWA Determination	Estimated before data collected. (2)
TO_DESC	(Text)	Ending terminus of route	Route ID Meeting	Park Input/FHWA Determination	Estimated before data collected. (2)
NO_LANES	X	Number of lanes in route	ARAN Data Collection	Survey Crew Input	Untested. (1)
SURF_TYPE	XX	Surface type of route	ARAN Data Collection	Survey Crew Input	Untested. (1)
COMP_DIR	XX	Compass direction of route's primary lane (nearest cardinal direction)	Route ID Meeting	Park Input/FHWA Determination	Untested
COMMENTS	(Text)	Special information, if any	Contractor Post-processing	Contractor Input	Untested
FILENAME	XXXXXXXXXX	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
SECTION	XXXXXX	Route section ID	Route ID Meeting/ARAN Data Collection	Survey Crew Input/Automatic Output	100%
FKEY	9999999	Unique record ID	Contractor Post-processing	Database Processing	100%
DATE	DD/MM/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
BEG_MP	999.999 (miles)	Beginning MP collected	ARAN Data Collection	Automatic Output	100% (3)
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
RIP_CYCLE	X	3, for data collection cycle 3	Route ID Meeting	FHWA Determination	100%
STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested. (1)
PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	Untested
PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	Untested
RTE_NO	XXXXXXXX	Route number	Route ID Meeting	Park Input/FHWA Classification	Untested
FUNCT_CLAS	X	Route functional class	Route ID Meeting	Park Input/FHWA Classification	Untested
DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input/FHWA Determination	Untested
MP	999.999 (miles)	Feature location along route	ARAN Data Collection/Contractor Post-processing	Survey Crew Input/Video Processing	Untested (4)
EVENT	XXXX	Event category of feature	Contractor Post-processing	Video Processing	Untested
EVENT_CODE	XXXX	Event sub-category of feature	Contractor Post-processing	Video Processing	Untested
EVENT_DESC	(Text)	Description of feature/contents of sign	Contractor Post-processing	Video Processing	Untested
MUTCD	"N/A"	N/A. Intended to be sign MUTCD code	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to N/A
CONDITION	XXX	Sign condition (G-D, F-R, P-R, N/A)	Contractor Post-processing	Video Processing	Untested (5)
COMMENT	(Text)	Sign label, intersecting route, etc.	Contractor Post-processing	Database Processing	Untested
OFFSET	"N/A"	N/A. Intended to be offset from pavement edge	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to N/A
SIDE	XXX	Side of route; "N/A" if not on one side	Contractor Post-processing	Video Processing	Untested
STR_NUMBER	XXXXXXXXXXX	FHWA bridge structure number	FHWA Post-processing	Database Processing	Untested
GPS_LAT	"N/A"	N/A. Intended to be latitude coordinate	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to N/A
GPS_LON	"N/A"	N/A. Intended to be longitude coordinate	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to N/A
GPS_ELEV	"N/A"	N/A. Intended to be elevation	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to N/A
GPS_MODE	"N/A"	N/A. Intended to be GPS mode	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to N/A
VIDEO	<Park-C03VID-#>	Removable USB video hard drive number	Contractor Post-processing	Database Processing	Untested
IMAGE	(Text)	Filename of .jpg image showing feature	Contractor Post-processing	Automatic Output	Untested
DATE	DD/MM/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
FILENAME	XXXXXXXXXX	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
SECTION	XXXXXX	Route section ID	Route ID Meeting/ARAN Data Collection	Survey Crew Input/Automatic Output	100%
FKEY	9999999	Unique record ID	Contractor Post-processing	Database Processing	100%
VISL_FROM	999999 (millimiles)	Raw MP of first video frame showing feature	Contractor Post-processing	Database Processing	Untested
VISL_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
IDKEY	(Text)	Unique record ID used by VisiData	Contractor Post-processing	Database Processing	Untested
MP_REF	(Text)	Range of mileage to play in VisiData	Contractor Post-processing	Database Processing	Untested

PMS 20, PMS Mile & PMS Visidata Tables Metadata:

FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
RIP_CYCLE	X	3, for data collection cycle 3	Route ID Meeting	FHWA Determination	100%
STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested. (1)
PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	Untested
PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	Untested
RTE_NO	XXXXXX	Route number	Route ID Meeting	Park Input/FHWA Classification	Untested
FUNCT_CLASS	X	Route functional class	Route ID Meeting	Park Input/FHWA Classification	Untested
DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input/FHWA Determination	Untested
BEG_MP	999.999 (miles)	MP at start of road interval described by database record	Contractor Post-processing	Database Processing	100% (3)
END_MP	999.999 (miles)	MP at end of road interval described by database record	Contractor Post-processing	Database Processing	100% (3)
INT_LENGTH	999.9 (ft)	Length of road interval as aggregated for data table	Contractor Post-processing	Database Processing	100%
RTE_LENGTH	999.999 (miles)	Collected route length	ARAN Data Collection	Automatic Output	100%
NO_LANES	X	Number of lanes in route	ARAN Data Collection	Survey Crew Input	Untested. (1)
LANE_NO	X	Data collection lane	Contractor Post-processing	Database Processing	Untested
WX_LANE_WIDTH	99.999 (ft)	WiseCrax (crack detection software) analysis width	Contractor Post-processing	Automatic Output	Untested
LANE_WIDTH	99.999 (ft)	Width of lane	Contractor Post-processing	Video Processing	Untested
PAVE_WIDTH	99.999 (ft)	Full pavement width	Contractor Post-processing	Video Processing	Untested
SHLD_WIDTH_L	99.999 (ft)	Left shoulder width	Contractor Post-processing	Video Processing	Untested
SHLD_WIDTH_R	99.999 (ft)	Right shoulder width	Contractor Post-processing	Video Processing	Untested
SHLD_COND_L	XXXX	Left shoulder condition	ARAN Data Collection	Survey Crew Input	Untested
SHLD_COND_R	XXXX	Right shoulder condition	ARAN Data Collection	Survey Crew Input	Untested
DRAIN_COND_L	XXXX	Left drainage condition	ARAN Data Collection	Survey Crew Input	Untested
DRAIN_COND_R	XXXX	Right drainage condition	ARAN Data Collection	Survey Crew Input	Untested
SURF_TYPE	XX	Surface type of route	ARAN Data Collection	Survey Crew Input	Untested. (1)
PCR	999	Pavement Condition Rating	Contractor Post-processing	Database Processing	100% for calculation (6)
RCI	999	Roughness Condition Index; -1 if invalid IRI	Contractor Post-processing	Database Processing	100% for calculation

FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
SCR	999	Surface Condition Rating	Contractor Post-processing	Database Processing	100% for calculation (6)
IRI_AVG	999.9 (inches/mile)	Average IRI	Contractor Post-processing	Database Processing	Untested
IRI_SD	999.9 (inches/mile)	IRI standard deviation	Contractor Post-processing	Database Processing	Untested
IRI_L	999.9 (inches/mile)	Left wheel path IRI	ARAN Data Collection	Automatic Output	Untested
IRI_R	999.9 (inches/mile)	Right wheel path IRI	ARAN Data Collection	Automatic Output	Untested
IRI_FLAG	0 or -1	-1 if invalid IRI data	Contractor Post-processing	Database Processing	Untested
RUT_INDEX	999	Rut index	Contractor Post-processing	Database Processing	100% for calculation (6)
RUT_AVG	99.99 (inches)	Average rut depth of both wheelpaths	Contractor Post-processing	Database Processing	Untested (6)
RUT_MAX	99.99 (inches)	Maximum rut depth of both wheelpaths	Contractor Post-processing	Database Processing	Untested (6)
RUT_SD	9.9	Rut depth standard deviation	Contractor Post-processing	Database Processing	Untested (6)
RUT_LOW	999 (%)	Percent of low severity ruts (on a 0-200% scale) in both wheelpaths	Contractor Post-processing	Database Processing	Untested (6)
RUT_MED	999 (%)	Percent of medium severity ruts (on a 0-200% scale) in both wheelpaths	Contractor Post-processing	Database Processing	Untested (6)
RUT_HI	999 (%)	Percent of high severity ruts (on a 0-200% scale) in both wheelpaths	Contractor Post-processing	Database Processing	Untested (6)
XFALL	999.9 (% slope)	Cross fall at start of road interval	ARAN Data Collection	Automatic Output	Precise but inaccurate. Not reported in Cycle 4
GRADE	999.9 (% slope)	Grade at start of road interval	ARAN Data Collection	Automatic Output	Precise but inaccurate. Not reported in Cycle 4
AC_INDEX	999	Alligator cracking index	Contractor Post-processing	Database Processing	100% for calculation (6)
AC_LOW	999.9999 (%)	Percent of WiseCrax measured lane area with low-severity alligator cracking	Contractor Post-processing	Automatic Output	(6) (7)
AC_MED	999.9999 (%)	Percent of WiseCrax measured lane area with medium-severity alligator cracking	Contractor Post-processing	Automatic Output	(6) (7)
AC_HI	999.9999 (%)	Percent of WiseCrax measured lane area with high-severity alligator cracking	Contractor Post-processing	Automatic Output	(6) (7)
LC_INDEX	999	Longitudinal cracking index	Contractor Post-processing	Database Processing	100% for calculation (6)
LC_LOW	999.99 (%)	Low-severity longitudinal cracking in lane as a percentage of road interval length	Contractor Post-processing	Automatic Output	(6) (7)
LC_MED	999.99 (%)	Medium-severity longitudinal cracking in lane as a percentage of road interval length	Contractor Post-processing	Automatic Output	(6) (7)
LC_HI	999.99 (%)	High-severity longitudinal cracking in lane as a percentage of road interval length	Contractor Post-processing	Automatic Output	(6) (7)
TC_INDEX	999	Transverse cracking index	Contractor Post-processing	Database Processing	100% for calculation (6)
TC_LOW	999.99 (cracks)	Count of low-severity transverse cracks, where one crack unit equals the WiseCrax measured lane width	Contractor Post-processing	Automatic Output	(6) (7)
TC_MED	999.99 (cracks)	Count of medium-severity transverse cracks, where one crack unit equals the WiseCrax measured lane width	Contractor Post-processing	Automatic Output	(6) (7)
TC_HI	999.99 (cracks)	Count of high-severity transverse cracks, where one crack unit equals the WiseCrax measured lane width	Contractor Post-processing	Automatic Output	(6) (7)
PATCH_INDEX	999	Patching index	Contractor Post-processing	Database Processing	100% for calculation (6)

FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
PATCHING	999.9999 (%)	Percent of WiseCrax measured lane area affected by patching	Contractor Post-processing	Manual Pavement Video Processing	Untested (6)
GPS_LAT	999.9999999	Latitude coordinate	ARAN Data Collection	Automatic Output	See GPS Metadata sheet distributed with data
GPS_LON	-999.9999999	Longitude coordinate	ARAN Data Collection	Automatic Output	See GPS Metadata sheet distributed with data
GPS_ELEV	999999.9	Elevation	ARAN Data Collection	Automatic Output	See GPS Metadata sheet distributed with data
GPS_MODE	XXX	GPS mode during collection	ARAN Data Collection	Automatic Output	See GPS Metadata sheet distributed with data
VIDEO	<Par/>-C03VID<#>	Removable USB video hard drive number	Contractor Post-processing	Database Processing	Untested
IMAGE	(Text)	Filename of .jpg image showing road interval	Contractor Post-processing	Automatic Output	Untested
SPEED	999 (miles/hour)	Average ARAN speed during data collection	ARAN Data Collection	Automatic Output	Untested
BRIDGE_FLAG	0 or 1	Flag indicating presence of bridge in interval	ARAN Data Collection	Survey Crew Input	Untested
CONSTR_FLAG	0 or 1	Flag indicating construction in interval	ARAN Data Collection	Survey Crew Input	Untested
LANEDEV_FLG	0 or 1	Flag indicating lane deviation in interval	ARAN Data Collection	Survey Crew Input	Untested
DATE	DD/MM/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
NODISTRESS	0 OR 1	Flag indicating absence of pavement distress	Contractor Post-processing	Database Processing	100%
FILENAME	XXXXXXXXXX	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
SECTION	XXXXXX	Route section ID	Route ID Meeting/ARAN Data Collection	Survey Crew Input/Automatic Output	100%
FKEY	99999999	Unique record ID	Contractor Post-processing	Database Processing	100%
VISL_FROM	999999 (millimiles)	Raw MP of first video frame in section	Contractor Post-processing	Database Processing	Untested
VISL_TO	999999 (millimiles)	Raw MP of last video frame in section	Contractor Post-processing	Database Processing	Untested
IDKEY	(Text)	Unique record ID used by VisiData	Contractor Post-processing	Database Processing	Untested
MP_REF	(Text)	Range of mileage to play in VisiData	Contractor Post-processing	Database Processing	Untested

Cycle 3 Shapefile Metadata

Metadata is provided for all shapefiles used for the creation of RIP report documents. The metadata for each shapefile associated with the park can be found in Section 10 of the PDF report provided on your park CD.

All shapefiles have the following spatial characteristics:

Geographic_Coordinate_Units: Decimal degrees
Spheroid: WGS 1984

orpi_mi

Metadata also available as

Metadata:

- [Identification Information](#)
 - [Data Quality Information](#)
 - [Spatial Data Organization Information](#)
 - [Spatial Reference Information](#)
 - [Entity and Attribute Information](#)
 - [Distribution Information](#)
 - [Metadata Reference Information](#)
-

Identification_Information:

Citation:

Citation_Information:

Originator: The TSR Group

Publication_Date: 2005

Title: orpi_mi

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: Routes

Purpose: Road Inventory Program

Supplemental_Information:

Data created by The TSR Group from GPS coordinates provided in the PMS_20 table. The shapefile is processed to aggregate adjacent segments with the same PCR rating provided in the PMS_mile table.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2005

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -112.816803

East_Bounding_Coordinate: -112.759453

North_Bounding_Coordinate: 32.200085

South_Bounding_Coordinate: 31.880850

Keywords:

Theme:

Theme_Keyword_Thesaurus: ORPI

Theme_Keyword: ORPI

Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Dan VanGilder

Contact_Organization: EFLHD

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Native_Data_Set_Environment:

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog
8.3.0.800

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report: Good

Completeness_Report: Complete for routes

Lineage:

Source_Information:

Type_of_Source_Media: GPS

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: String

Point_and_Vector_Object_Count: 39

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 0.000000

Longitude_Resolution: 0.000000

Geographic_Coordinate_Units: Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1927

Ellipsoid_Name: Clarke 1866

Semi-major_Axis: 6378206.400000
Denominator_of_Flattening_Ratio: 294.978698

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: orpi_mi

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain:

Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: FNODE_

Attribute_Definition: Length of feature

Attribute_Definition_Source: ESRI

Attribute:

Attribute_Label: TNODE_

Attribute:

Attribute_Label: LPOLY_

Attribute_Definition: Route number

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: RPOLY_

Attribute_Definition: Collected route length

Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: LENGTH

Attribute_Definition: Numeric PCR definition

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 0

Range_Domain_Maximum: 100

Attribute:

Attribute_Label: ORPI_MI_

Attribute_Definition: Verbal PCR definition

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: POOR

Enumerated_Domain_Value_Definition: PCR value <= 60

Enumerated_Domain:

Enumerated_Domain_Value: FAIR

Enumerated_Domain_Value_Definition: PCR value 61-84

Enumerated_Domain:

Enumerated_Domain_Value: GOOD

Enumerated_Domain_Value_Definition: PCR value 85-94

Enumerated_Domain:

Enumerated_Domain_Value: EXCELLENT

Enumerated_Domain_Value_Definition: PCR value 95-100

Attribute:

Attribute_Label: ORPI_MI_ID

Attribute_Definition: Indicates whether feature has been edited for graphic purposes.

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 1

Enumerated_Domain_Value_Definition: Edit has been made to feature for graphic purposes

Enumerated_Domain:

Enumerated_Domain_Value: 0

Enumerated_Domain_Value_Definition: No edit made to feature.

Attribute:

Attribute_Label: ID

Attribute:

Attribute_Label: RTE_NO

Attribute:

Attribute_Label: BMP

Attribute:

Attribute_Label: EMP

Attribute:

Attribute_Label: PCR

Attribute:

Attribute_Label: PCR_RATE

Attribute:

Attribute_Label: RT_LENGTH

Attribute:

Attribute_Label: PCRMI

Attribute:

Attribute_Label: PCR_RATEMI

Attribute:

Attribute_Label: PCR_RATEAV

Attribute:

Attribute_Label: PCRAV

Attribute:

Attribute_Label: TSR_EDIT

Distribution_Information:

Resource_Description: Downloadable Data

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 0.016

Metadata_Reference_Information:

Metadata_Date: 20060119

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: EFLHD Sterling

Contact_Person: Dan VanGilder

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Extensions:

Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>

Profile_Name: ESRI Metadata Profile

Generated by [mp](#) version 2.7.33 on Thu Jan 19 12:46:50 2006

orpi_pkg_03

Metadata also available as

Metadata:

- [Identification Information](#)
 - [Data Quality Information](#)
 - [Spatial Data Organization Information](#)
 - [Spatial Reference Information](#)
 - [Entity and Attribute Information](#)
 - [Distribution Information](#)
 - [Metadata Reference Information](#)
-

Identification_Information:

Citation:

Citation_Information:

Originator: Eastern Federal Lands Highway Division

Publication_Date: Unknown

Title: orpi_pkg_03

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: Parking Areas

Purpose: Road Inventory Program

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 11/19/2001

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -112.813420

East_Bounding_Coordinate: -112.800946

North_Bounding_Coordinate: 31.955233

South_Bounding_Coordinate: 31.938718

Keywords:

Theme:

Theme_Keyword_Thesaurus: ORPI

Theme_Keyword: ORPI

Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS

Point_of_Contact:

Contact_Information:

*Contact_Person_Primary:**Contact_Person:* Dan VanGilder*Contact_Organization:* EFLHD*Contact_Position:* GIS Coordinator*Contact_Address:**Address_Type:* mailing and physical address*Address:* 21400 Ridgetop Circle*City:* Sterling*State_or_Province:* Virginia*Postal_Code:* 20166*Country:* United States*Contact_Voice_Telephone:* 703-404-6361*Contact_Electronic_Mail_Address:* dvangilder@fhwa.dot.gov*Native_Data_Set_Environment:*

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog
8.3.0.800

*Data_Quality_Information:**Attribute_Accuracy:**Attribute_Accuracy_Report:* Good*Completeness_Report:* Complete for parking areas*Lineage:**Source_Information:**Type_of_Source_Media:* GPS*Spatial_Data_Organization_Information:**Direct_Spatial_Reference_Method:* Vector*Point_and_Vector_Object_Information:**SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:* G-polygon*Point_and_Vector_Object_Count:* 10*Spatial_Reference_Information:**Horizontal_Coordinate_System_Definition:**Geographic:**Latitude_Resolution:* 0.000000*Longitude_Resolution:* 0.000000*Geographic_Coordinate_Units:* Decimal degrees*Geodetic_Model:**Horizontal_Datum_Name:* North American Datum of 1927*Ellipsoid_Name:* Clarke 1866*Semi-major_Axis:* 6378206.400000*Denominator_of_Flattening_Ratio:* 294.978698

*Entity_and_Attribute_Information:**Detailed_Description:**Entity_Type:**Entity_Type_Label:* orpi_pkg_03*Attribute:**Attribute_Label:* FID*Attribute_Definition:* Internal feature number.*Attribute_Definition_Source:* ESRI*Attribute_Domain_Values:**Unrepresentable_Domain:*

Sequential unique whole numbers that are automatically generated.

*Attribute:**Attribute_Label:* Shape*Attribute_Definition:* Feature geometry.*Attribute_Definition_Source:* ESRI*Attribute_Domain_Values:**Unrepresentable_Domain:* Coordinates defining the features.*Attribute:**Attribute_Label:* PARK_ALPHA*Attribute_Definition:* Park alpha code*Attribute_Definition_Source:* Route ID Meeting*Attribute:**Attribute_Label:* RTE_NO*Attribute_Definition:* Route number*Attribute_Definition_Source:* Route ID Meeting*Attribute:**Attribute_Label:* RTE_NAME*Attribute_Definition:* Route name*Attribute_Definition_Source:* Route ID Meeting*Attribute:**Attribute_Label:* FEATURE*Attribute:**Attribute_Label:* SURF_TYPE*Attribute_Definition:* Surface type of route*Attribute_Domain_Values:**Attribute:**Attribute_Label:* CONDITION*Attribute_Definition:* Condition rating for route*Attribute:**Attribute_Label:* PHOTOS*Attribute_Definition:* Photo filename associated with feature*Attribute:**Attribute_Label:* COMMENT*Attribute_Definition:* Field comment*Attribute:**Attribute_Label:* GPS_DATE*Attribute_Definition:* Date of GPS collection*Attribute:**Attribute_Label:* DATAFILE*Attribute:**Attribute_Label:* SQ_FT

Attribute_Definition: Feature area in square feet

Distribution_Information:

Resource_Description: Downloadable Data

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 0.018

Metadata_Reference_Information:

Metadata_Date: 20060119

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: EFLHD Sterling

Contact_Person: Dan VanGilder

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Extensions:

Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>

Profile_Name: ESRI Metadata Profile

Generated by [mp](#) version 2.7.33 on Thu Jan 19 12:47:30 2006

orpi_mi_pt

Metadata also available as

Metadata:

- [Identification Information](#)
 - [Data Quality Information](#)
 - [Spatial Data Organization Information](#)
 - [Spatial Reference Information](#)
 - [Entity and Attribute Information](#)
 - [Distribution Information](#)
 - [Metadata Reference Information](#)
-

Identification_Information:

Citation:

Citation_Information:

Originator: The TSR Group

Publication_Date: 2005

Title: orpi_mi_pt

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: Mile Points

Purpose: Road Inventory Program

Supplemental_Information:

Data created by The TSR Group from GPS coordinates provided in the PMS_20 table. All attributes found in the PMS_20 table are found on the miles points.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2005

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: Not Available

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -112.812645

East_Bounding_Coordinate: -112.759453

North_Bounding_Coordinate: 32.200085

South_Bounding_Coordinate: 31.889278

Keywords:

Theme:

Theme_Keyword_Thesaurus: ORPI

Theme_Keyword: ORPI

Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Dan VanGilder

Contact_Organization: EFLHD Sterling

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Native_Data_Set_Environment:

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 8.3.0.800

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report: Good

Completeness_Report: Complete for mile points

Lineage:

Source_Information:

Type_of_Source_Media: GPS

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Entity point

Point_and_Vector_Object_Count: 49

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 0.000000

Longitude_Resolution: 0.000000

Geographic_Coordinate_Units: Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1927

Ellipsoid_Name: Clarke 1866

Semi-major_Axis: 6378206.400000

Denominator_of_Flattening_Ratio: 294.978698

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: orpi_mi_pt

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain:

Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: RIP_CYCLE

Attribute_Definition: 3, for data collection cycle 3

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: STATE

Attribute_Definition: State where route is located

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: PARK_ALPHA

Attribute_Definition: Park alpha code

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: PARK_NO

Attribute_Definition: Park numeric code

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: RTE_NO

Attribute_Definition: Route number

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: FUNCT_CLAS

Attribute_Definition: Route functional class

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: DIRECTION

Attribute_Definition: Survey lane: PRI (primary) or OPP (opposite)

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: BEG_MP

Attribute_Definition: MP at end of road interval described by database record

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: END_MP

Attribute_Definition: MP at end of road interval described by database record

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: INT_LENGTH

Attribute_Definition: Length of road interval as aggregated from data table

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: RTE_LENGTH

Attribute_Definition: Collected route length

Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: NO_LANES

Attribute_Definition: Number of lanes in route

Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: LANE_NO

Attribute_Definition: Data collection lane

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: WX_LANE_WI

Attribute_Definition: WiseCrax (crack detection software) analysis width

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: LANE_WIDTH

Attribute_Definition: Width of lane

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: PAVE_WIDTH

Attribute_Definition: Full pavement width

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: SHLD_WIDTH

Attribute_Definition: Left shoulder width

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: SHLD_WID_1

Attribute_Definition: Right shoulder width

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: SHLD_COND_

Attribute_Definition: Left shoulder condition

Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: SHLD_COND1

Attribute_Definition: Right shoulder condition

Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: DRAIN_COND
Attribute_Definition: Left drainage condition
Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: DRAIN_CO_1
Attribute_Definition: Right drainage condition
Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: SURF_TYPE
Attribute_Definition: Surface type of route
Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: PCR
Attribute_Definition: Pavement Condition Rating
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: RCI
Attribute_Definition: Roughness Condition Index; -1 if invalid IRI
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: SCR
Attribute_Definition: Surface Condition Rating
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: IRI_AVG
Attribute_Definition: Average IRI
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: IRI_SD
Attribute_Definition: IRI Standard Deviation
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: IRI_L
Attribute_Definition: Left wheel path IRI
Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: IRI_R
Attribute_Definition: Right wheel path IRI
Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: IRI_FLAG
Attribute_Definition: -1 if invalid IRI data
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: RUT_INDEX
Attribute_Definition: Rut index
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: RUT_AVG
Attribute_Definition: Average rut depth of both wheelpaths
Attribute_Definition_Source: Contractor Post-processing

*Attribute:**Attribute_Label:* RUT_MAX*Attribute_Definition:* Maximum rut depth of both wheelpaths*Attribute_Definition_Source:* Contractor Post-processing*Attribute:**Attribute_Label:* RUT_SD*Attribute_Definition:* Rut depth standard deviation*Attribute_Definition_Source:* Contractor Post-processing*Attribute:**Attribute_Label:* RUT_LOW*Attribute_Definition:*

Percent of low severity ruts (on a 0-200% scale) in both wheelpaths

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* RUT_MED*Attribute_Definition:*

Percent of medium severity ruts (on a 0-200% scale) in both wheelpaths

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* RUT_HI*Attribute_Definition:*

Percent of high severity ruts (on a 0-200% scale) in both wheelpaths

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* XFALL*Attribute_Definition:* Cross fall at start of road interval*Attribute_Definition_Source:* ARAN Data Collection*Attribute:**Attribute_Label:* GRADE*Attribute_Definition:* Grade at start of road interval*Attribute_Definition_Source:* ARAN Data Collection*Attribute:**Attribute_Label:* AC_INDEX*Attribute_Definition:* Alligator cracking index*Attribute_Definition_Source:* Contractor Post-processing*Attribute:**Attribute_Label:* AC_LOW*Attribute_Definition:*

Percent of WiseCrax measured lane area with low-severity alligator cracking

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* AC_MED*Attribute_Definition:*

Percent of WiseCrax measured lane area with medium-severity alligator cracking

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* AC_HI*Attribute_Definition:*

Percent of WiseCrax measured lane area with high-severity alligator cracking

Attribute_Definition_Source: Contractor Post-processing

*Attribute:**Attribute_Label:* LC_INDEX*Attribute_Definition:* Longitudinal cracking index*Attribute_Definition_Source:* Contractor Post-processing*Attribute:**Attribute_Label:* LC_LOW*Attribute_Definition:*

Low-severity longitudinal cracking in lane as a percentage of road interval length

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* LC_MED*Attribute_Definition:*

Medium-severity longitudinal cracking in lane as a percentage of road interval length

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* LC_HI*Attribute_Definition:*

High-severity longitudinal cracking in lane as a percentage of road interval length

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* TC_INDEX*Attribute_Definition:* Transverse cracking index*Attribute_Definition_Source:* Contractor Post-processing*Attribute:**Attribute_Label:* TC_LOW*Attribute_Definition:*

Count of low-severity transverse cracks, where one crack unit equals the WiseCrax measured land width

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* TC_MED*Attribute_Definition:*

Count of medium-severity transverse cracks, where one crack unit equals the WiseCrax measured land width

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* TC_HI*Attribute_Definition:*

Count of high-severity transverse cracks, where one crack unit equals the WiseCrax measured land width

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* PATCH_INDE*Attribute_Definition:* Patching index*Attribute_Definition_Source:* Contractor Post-processing*Attribute:**Attribute_Label:* PATCHING*Attribute_Definition:* Percent of WiseCrax measured lane area affected by patching

Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: GPS_LAT
Attribute_Definition: Latitude coordinate
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: GPS_LON
Attribute_Definition: Longitude coordinate
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: GPS_ELEV
Attribute_Definition: Elevation
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: GPS_MODE
Attribute_Definition: GPS mode during collection
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: VIDEO
Attribute_Definition: Removable USB video hard drive number
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: IMAGE
Attribute_Definition: Filename of .jpg image showing road interval
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: SPEED
Attribute_Definition: Average ARAN speed during data collection
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: BRIDGE_FL
Attribute_Definition: Flag indicating presence of bridge in interval
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: CONSTR_FL
Attribute_Definition: Flag indicating construction in interval
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: LANEDEV_FL
Attribute_Definition: Flag indicating lane deviation in interval
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: DATE
Attribute_Definition: Data collection date
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: NODISTRESS
Attribute_Definition: Flag indicating absence of pavement distress
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: FILENAME

Attribute_Definition: Filename of raw data files
Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: SECTION
Attribute_Definition: route section ID
Attribute_Definition_Source: Route ID Meeting / ARAN Data Collection

Attribute:

Attribute_Label: FKEY
Attribute_Definition: Unique record ID
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: VISI_FROM
Attribute_Definition: Raw MP of first video frame in section
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: VISI_TO
Attribute_Definition: Raw MP of last video frame in section
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: IDKEY
Attribute_Definition: Unique record ID used by VisiData
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: MP_REF
Attribute_Definition: Range of mileage to play in VisiData
Attribute_Definition_Source: Contractor Post-processing

Distribution_Information:

Resource_Description: Downloadable Data

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 0.030

Metadata_Reference_Information:

Metadata_Date: 20060119

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: EFLHD Sterling

Contact_Person: Dan VanGilder

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Extensions:

Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>

Profile_Name: ESRI Metadata Profile

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orpi_nonnps

Metadata also available as

Metadata:

- [Identification Information](#)
 - [Data Quality Information](#)
 - [Spatial Data Organization Information](#)
 - [Spatial Reference Information](#)
 - [Entity and Attribute Information](#)
 - [Distribution Information](#)
 - [Metadata Reference Information](#)
-

Identification_Information:

Citation:

Citation_Information:

Originator: The TSR Group

Publication_Date: 2005

Title: orpi_nonnps

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: non-NPS roads

Purpose: Road Inventory Program

Supplemental_Information:

Data created by The TSR Group from heads-up digitizing of roads representing non-NPS roads for graphic purposes

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2005

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -122.064907

East_Bounding_Coordinate: -122.062400

North_Bounding_Coordinate: 42.770833

South_Bounding_Coordinate: 42.770203

Keywords:

Theme:

Theme_Keyword_Thesaurus: ORPI

Theme_Keyword: ORPI

Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Dan VanGilder

Contact_Organization: EFLHD

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Native_Data_Set_Environment:

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog
8.3.0.800

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report: Good

Completeness_Report: Complete for non-NPS roads

Lineage:

Source_Information:

Type_of_Source_Media: Heads-up digitized

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: String

Point_and_Vector_Object_Count: 0

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 0.000000

Longitude_Resolution: 0.000000

Geographic_Coordinate_Units: Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1927

Ellipsoid_Name: Clarke 1866

Semi-major_Axis: 6378206.400000

Denominator_of_Flattening_Ratio: 294.978698

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: orpi_nonnps

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain:

Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: Id

Attribute_Definition: Name of road if available

Attribute:

Attribute_Label: NAME

Distribution_Information:

Resource_Description: Downloadable Data

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 0.008

Metadata_Reference_Information:

Metadata_Date: 20060119

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: EFLHD Sterling

Contact_Person: Dan VanGilder

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Extensions:

Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>

Profile_Name: ESRI Metadata Profile

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orpi_pkg_03_map

Metadata also available as

Metadata:

- [Identification Information](#)
 - [Data Quality Information](#)
 - [Spatial Data Organization Information](#)
 - [Spatial Reference Information](#)
 - [Entity and Attribute Information](#)
 - [Distribution Information](#)
 - [Metadata Reference Information](#)
-

Identification_Information:

Citation:

Citation_Information:

Originator: Eastern Federal Lands Highway Division

Publication_Date: Unknown

Title: orpi_pkg_03_map

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: Copy of Parking Areas

Purpose: Road Inventory Program

Supplemental_Information:

This shapefile is a copy of the source parking shapefile. The features are edited as needed for graphic purposes.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 11/19/2001

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -112.813416

East_Bounding_Coordinate: -112.800923

North_Bounding_Coordinate: 31.955229

South_Bounding_Coordinate: 31.938686

Keywords:

Theme:

Theme_Keyword_Thesaurus: ORPI

Theme_Keyword: ORPI

Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Dan VanGilder

Contact_Organization: EFLHD

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Native_Data_Set_Environment:

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 8.3.0.800

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report: Good

Completeness_Report: Complete for parking areas

Lineage:

Source_Information:

Type_of_Source_Media: GPS

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: G-polygon

Point_and_Vector_Object_Count: 10

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 0.000000

Longitude_Resolution: 0.000000

Geographic_Coordinate_Units: Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1927

Ellipsoid_Name: Clarke 1866

Semi-major_Axis: 6378206.400000

Denominator_of_Flattening_Ratio: 294.978698

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: orpi_pkg_03_map

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain:

Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: PARK_ALPHA

Attribute_Definition: Park alpha code

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: RTE_NO

Attribute_Definition: Route number

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: RTE_NAME

Attribute_Definition: Route name

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: FEATURE

Attribute:

Attribute_Label: SURF_TYPE

Attribute_Definition: Surface type of route

Attribute_Domain_Values:

Attribute:

Attribute_Label: CONDITION

Attribute_Definition: Condition rating for route

Attribute:

Attribute_Label: PHOTOS

Attribute_Definition: Photo filename associated with feature

Attribute:

Attribute_Label: COMMENT

Attribute_Definition: Field comment

Attribute:

Attribute_Label: GPS_DATE

Attribute_Definition: Date of GPS collection

*Attribute:**Attribute_Label:* DATAFILE*Attribute:**Attribute_Label:* SQ_FT*Attribute_Definition:* Feature area in square feet

*Distribution_Information:**Resource_Description:* Downloadable Data*Standard_Order_Process:**Digital_Form:**Digital_Transfer_Information:**Transfer_Size:* 0.018

*Metadata_Reference_Information:**Metadata_Date:* 20060119*Metadata_Contact:**Contact_Information:**Contact_Organization_Primary:**Contact_Organization:* EFLHD Sterling*Contact_Person:* Dan VanGilder*Contact_Position:* GIS Coordinator*Contact_Address:**Address_Type:* mailing and physical address*Address:* 21400 Ridgetop Circle*City:* Sterling*State_or_Province:* Virginia*Postal_Code:* 20166*Country:* United States*Contact_Voice_Telephone:* 703-404-6361*Contact_Electronic_Mail_Address:* dvangilder@fhwa.dot.gov*Metadata_Standard_Name:* FGDC Content Standards for Digital Geospatial Metadata*Metadata_Standard_Version:* FGDC-STD-001-1998*Metadata_Time_Convention:* local time*Metadata_Extensions:**Online_Linkage:* <<http://www.esri.com/metadata/esriprof80.html>>*Profile_Name:* ESRI Metadata Profile

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orpi_seg

Metadata also available as

Metadata:

- [Identification Information](#)
 - [Data Quality Information](#)
 - [Spatial Data Organization Information](#)
 - [Spatial Reference Information](#)
 - [Entity and Attribute Information](#)
 - [Distribution Information](#)
 - [Metadata Reference Information](#)
-

Identification_Information:

Citation:

Citation_Information:

Originator: The TSR Group

Publication_Date: 2005

Title: orpi_seg

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: Routes

Purpose: Road Inventory Program

Supplemental_Information:

Data created by The TSR Group from GPS coordinates provided in the PMS_20 table. The shapefile is processed to aggregate adjacent segments with the same PCR rating.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2005

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -112.816803

East_Bounding_Coordinate: -112.759453

North_Bounding_Coordinate: 32.200085

South_Bounding_Coordinate: 31.880850

Keywords:

Theme:

Theme_Keyword_Thesaurus: ORPI

Theme_Keyword: ORPI

Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Dan VanGilder

Contact_Organization: EFLHD

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Native_Data_Set_Environment:

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog
8.3.0.800

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report: Good

Completeness_Report: Complete for routes

Lineage:

Source_Information:

Type_of_Source_Media: GPS

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: String

Point_and_Vector_Object_Count: 59

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 0.000000

Longitude_Resolution: 0.000000

Geographic_Coordinate_Units: Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1927

Ellipsoid_Name: Clarke 1866

Semi-major_Axis: 6378206.400000
Denominator_of_Flattening_Ratio: 294.978698

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: orpi_seg

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain:

Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: FNODE_

Attribute_Definition: Length of feature

Attribute_Definition_Source: ESRI

Attribute:

Attribute_Label: TNODE_

Attribute:

Attribute_Label: LPOLY_

Attribute_Definition: Route number

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: RPOLY_

Attribute_Definition: Collected route length

Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: LENGTH

Attribute_Definition:

Numeric PCR definition. Average PCR value based on programatic averaging of adjacent segments.

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 0

Range_Domain_Maximum: 100

Attribute:

Attribute_Label: ORPI_SEG_

Attribute_Definition: Verbal PCR definition based on value in PCRAV field

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: POOR

Enumerated_Domain_Value_Definition: PCR value <= 60
Enumerated_Domain:
Enumerated_Domain_Value: FAIR
Enumerated_Domain_Value_Definition: PCR value 61-84
Enumerated_Domain:
Enumerated_Domain_Value: GOOD
Enumerated_Domain_Value_Definition: PCR value 85-94
Enumerated_Domain:
Enumerated_Domain_Value: EXCELLENT
Enumerated_Domain_Value_Definition: PCR value 95-100

Attribute:

Attribute_Label: ORPI_SEG_I
Attribute_Definition: Indicates whether feature has been edited for graphic purposes.
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 1
Enumerated_Domain_Value_Definition: Edit has been made to feature for graphic purposes
Enumerated_Domain:
Enumerated_Domain_Value: 0
Enumerated_Domain_Value_Definition: No edit made to feature.

Attribute:

Attribute_Label: ID

Attribute:

Attribute_Label: RTE_NO

Attribute:

Attribute_Label: BMP

Attribute:

Attribute_Label: EMP

Attribute:

Attribute_Label: PCR

Attribute:

Attribute_Label: PCR_RATE

Attribute:

Attribute_Label: RT_LENGTH

Attribute:

Attribute_Label: PCRMI

Attribute:

Attribute_Label: PCR_RATEMI

Attribute:

Attribute_Label: PCR_RATEAV

Attribute:

Attribute_Label: PCRAV

Attribute:

Attribute_Label: TSR_EDIT

Distribution_Information:

Resource_Description: Downloadable Data

Standard_Order_Process:

Digital_Form:
Digital_Transfer_Information:
Transfer_Size: 0.016

Metadata_Reference_Information:
Metadata_Date: 20060119
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: EFLHD Sterling
Contact_Person: Dan VanGilder
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
City: Sterling
State_or_Province: Virginia
Postal_Code: 20166
Country: United States
Contact_Voice_Telephone: 703-404-6361
Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Extensions:
Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>
Profile_Name: ESRI Metadata Profile

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