



The Road Inventory of Mammoth Cave National Park MACA - 5530



national park service



Road Inventory Program

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



Mammoth Cave National Park in Kentucky





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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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Mammoth Cave National Park Summaries

Overall Park Mileage Summary

PARK TOTAL SUMMARY ITEMS	TOTAL	DATE
Paved ARAN Driven Route Miles	44.09	9/23/2003
Unpaved Estimated Route Miles	28.50	9/23/2003
Paved ARAN and Unpaved Route Miles	72.59	
Paved ARAN Driven Lane Miles	76.50	9/23/2003
Paved MRR Lane Miles	0.24	9/23/2003
Parking Lot Lane Miles	10.22	9/23/2003
Total Paved Lane Miles	86.96	

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)

Mammoth Cave National Park 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	4.94	\$148,200
Good	11.34	\$1,247,400
Fair	14.14	\$7,918,400
Poor	13.67	\$21,051,800
Totals	44.09	\$30,365,800

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).

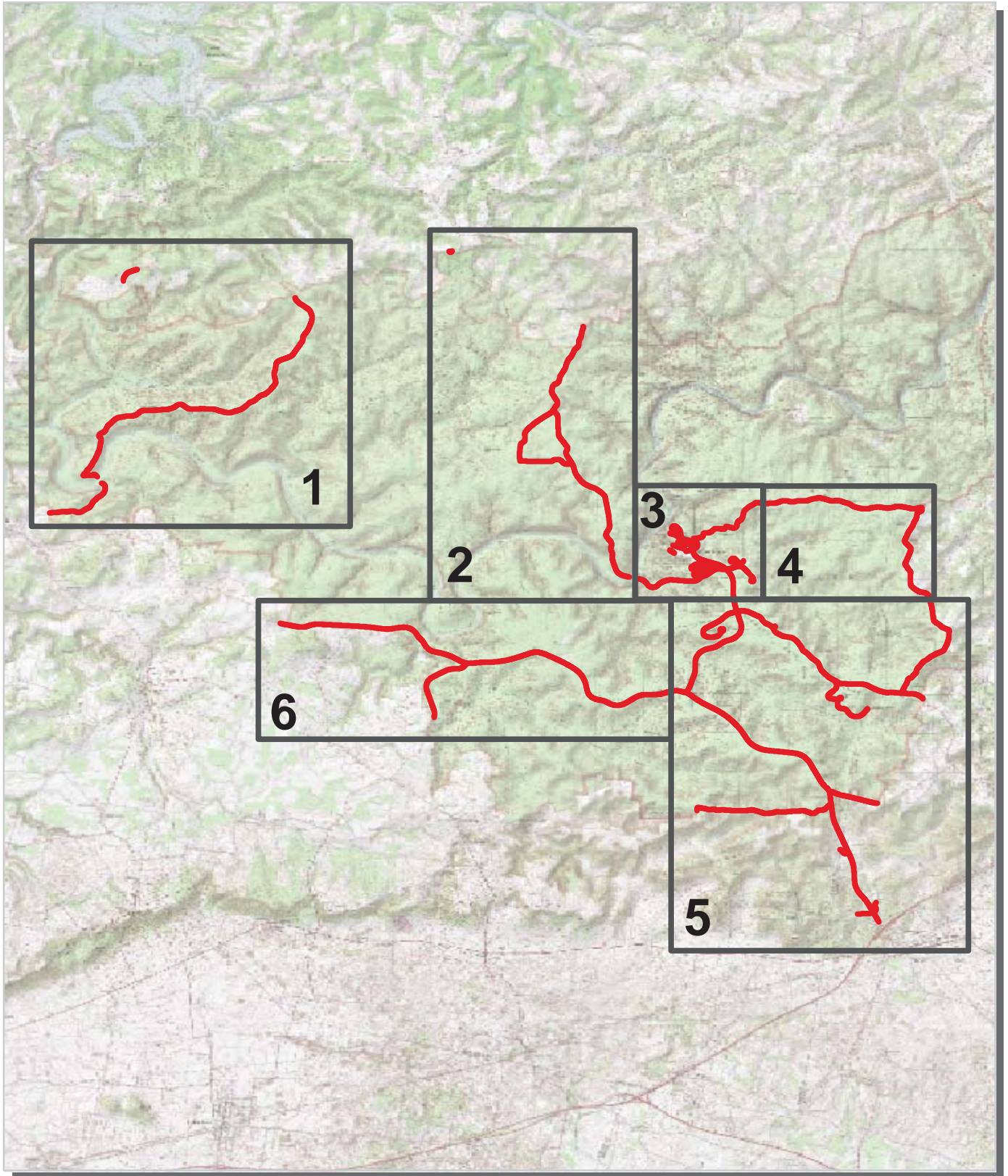
These numbers are for preliminary planning purposes only and should not be used for project level proposals. For park planning level analysis, apply your park multiplier for more accurate regional costs.

Mammoth Cave National Park 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	3.60	8.17%	6.65	15.08%	8.03	18.21%	3.28	7.44%	21.56
2	8.20	18.60%	5.01	11.36%	2.51	5.69%	1.42	3.22%	17.14
3	1.55	3.52%	1.90	4.31%	0.60	1.36%	0.18	0.41%	4.23
4									
5	0.32	0.73%	0.58	1.32%	0.20	0.45%	0.06	0.14%	1.16
6									
7									
8									
Totals	13.67	31.00%	14.14	32.07%	11.34	25.72%	4.94	11.20%	44.09

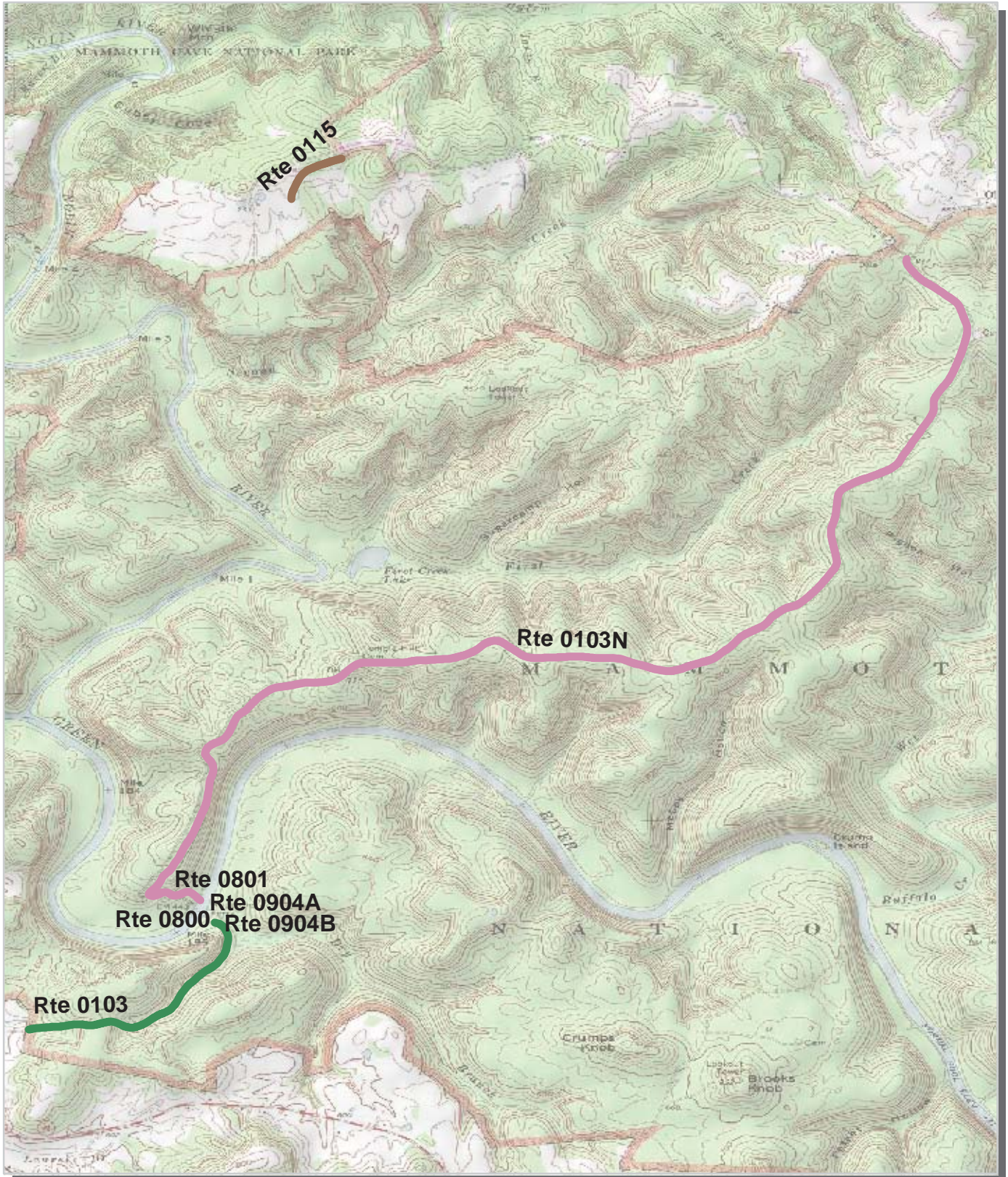
Mammoth Cave National Park Route Location Key Map



 Park Owned Routes



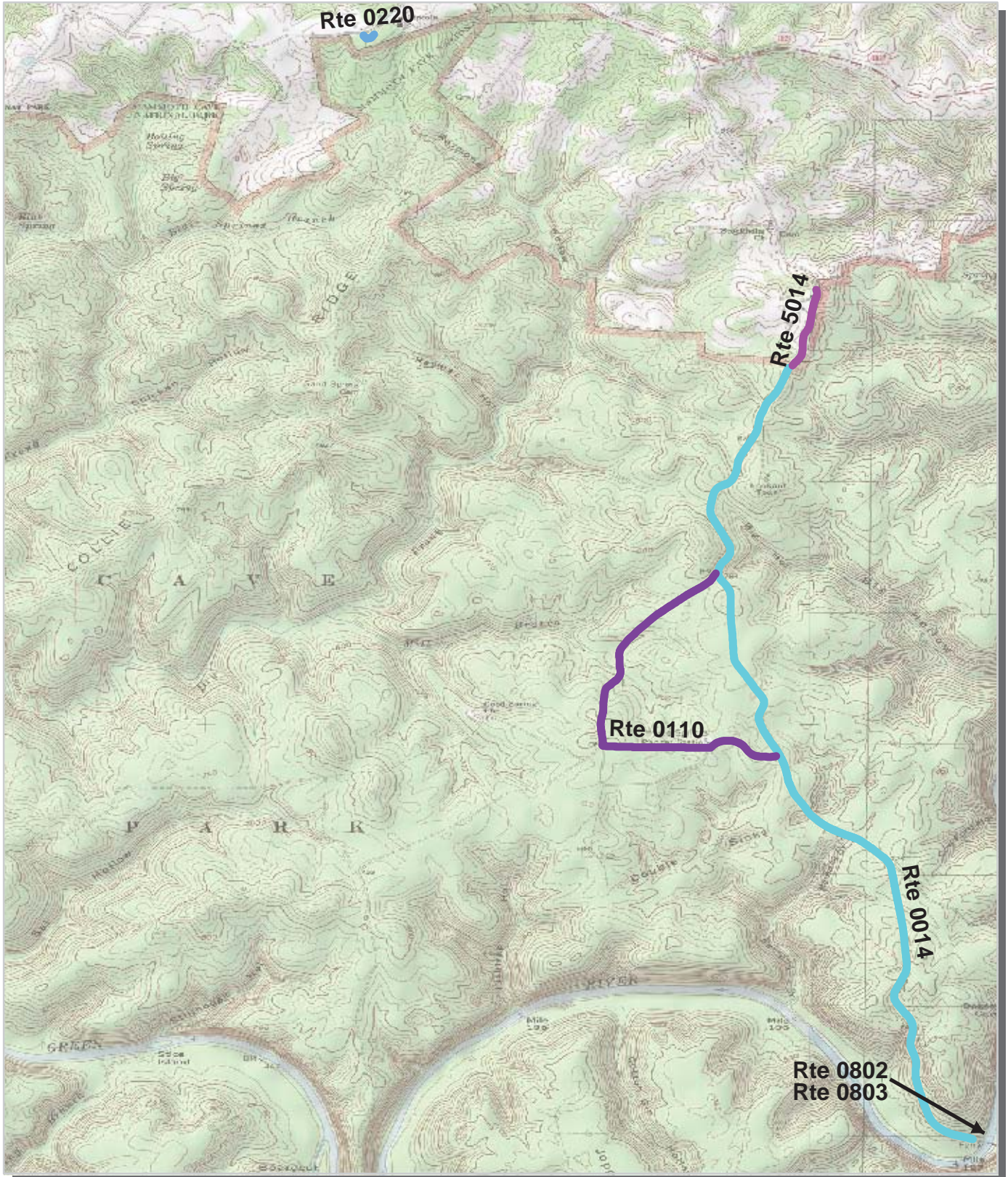
Mammoth Cave National Park Route Location Area Map 1



Unique colors used to differentiate routes



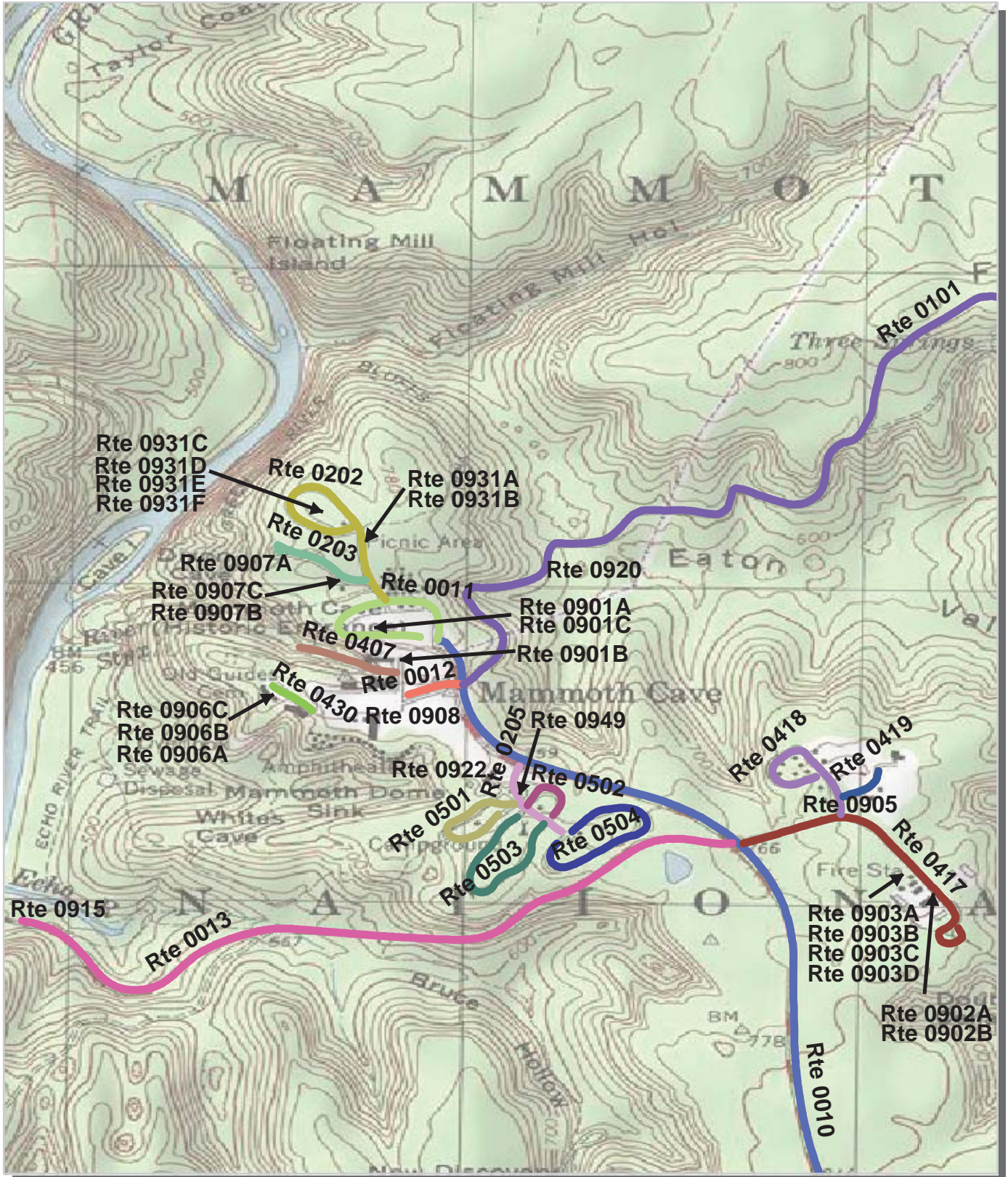
Mammoth Cave National Park Route Location Area Map 2



Unique colors used to differentiate routes



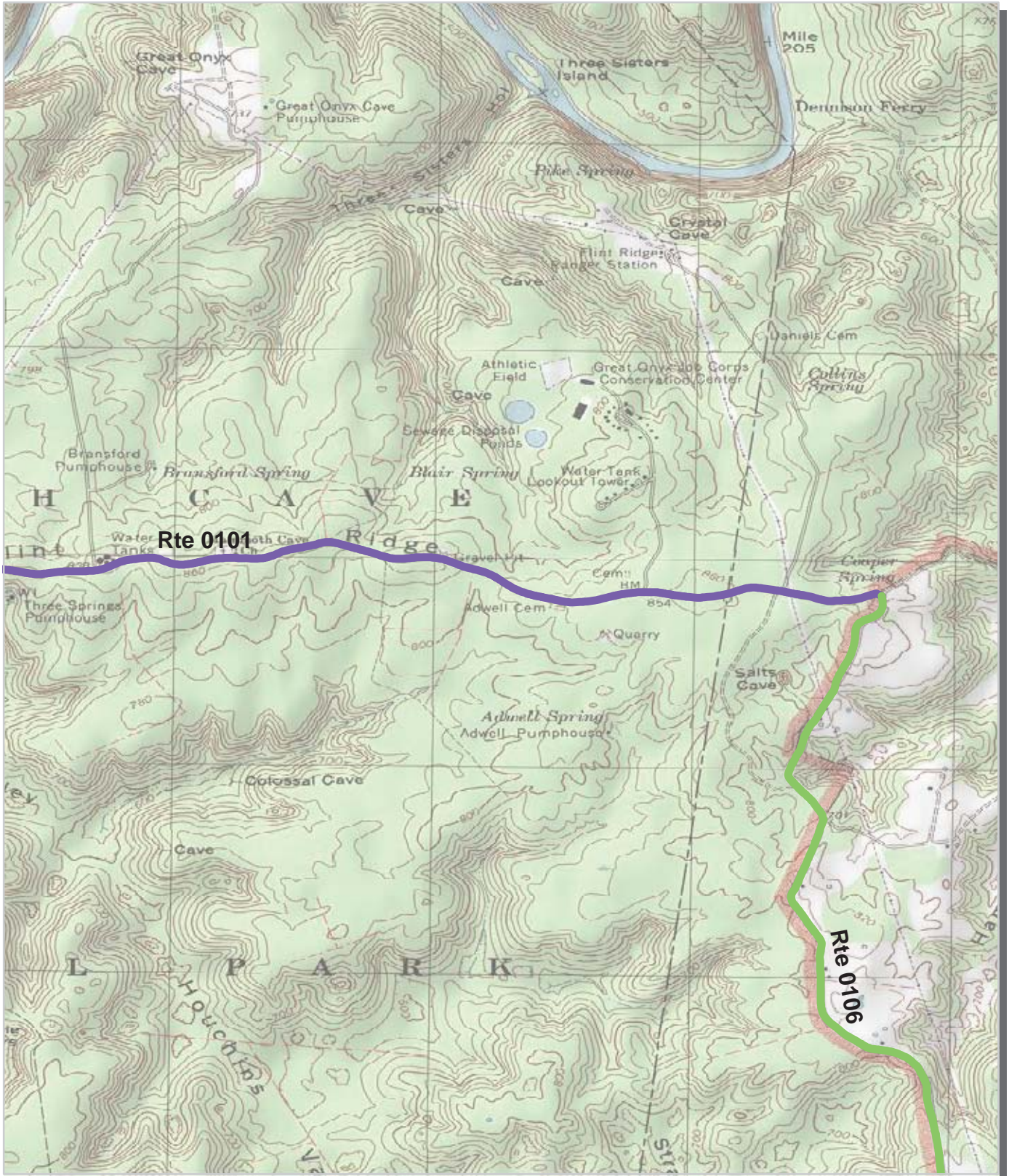
Mammoth Cave National Park Route Location Area Map 3



Unique colors used to differentiate routes



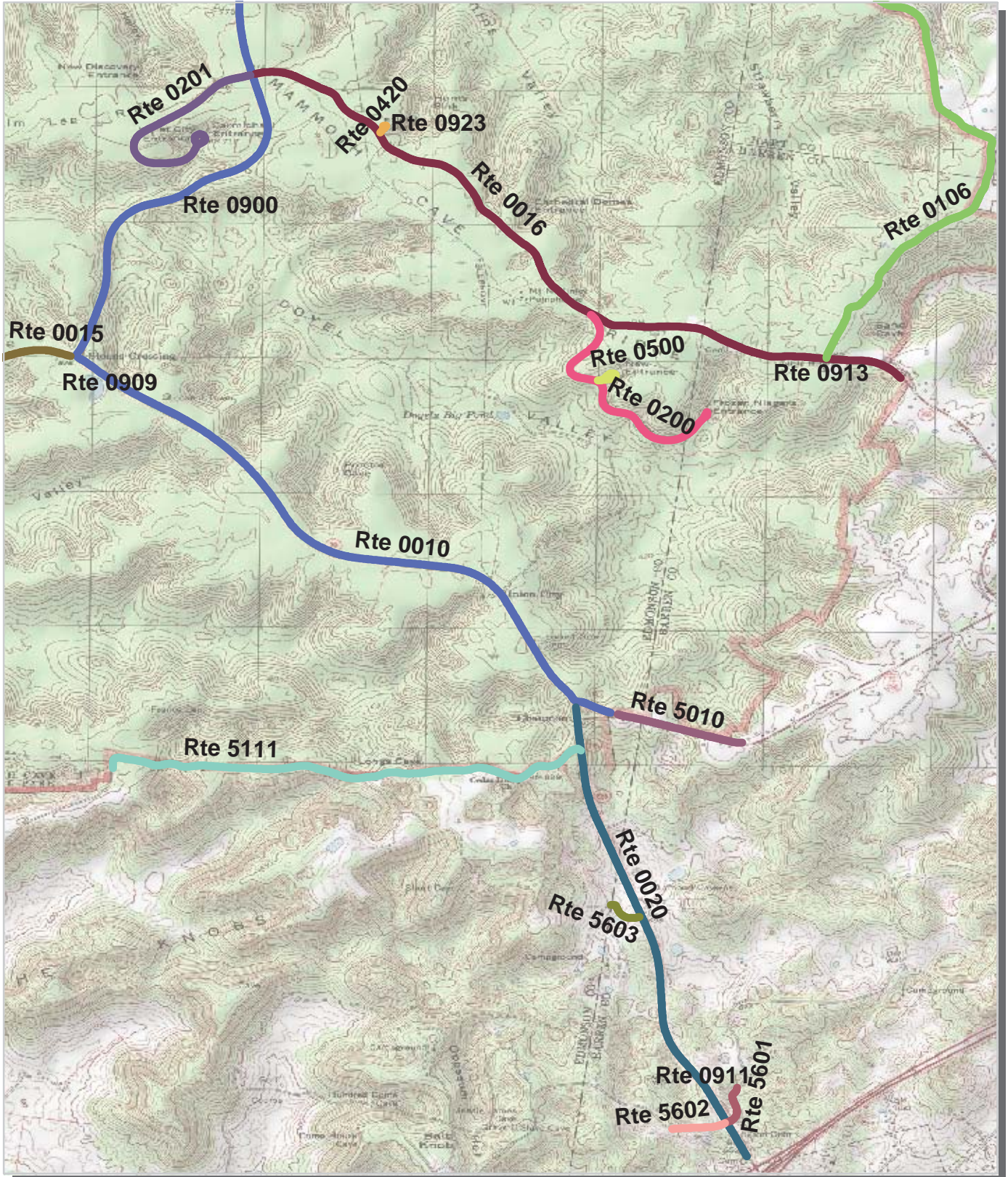
Mammoth Cave National Park Route Location Area Map 4



Unique colors used to differentiate routes



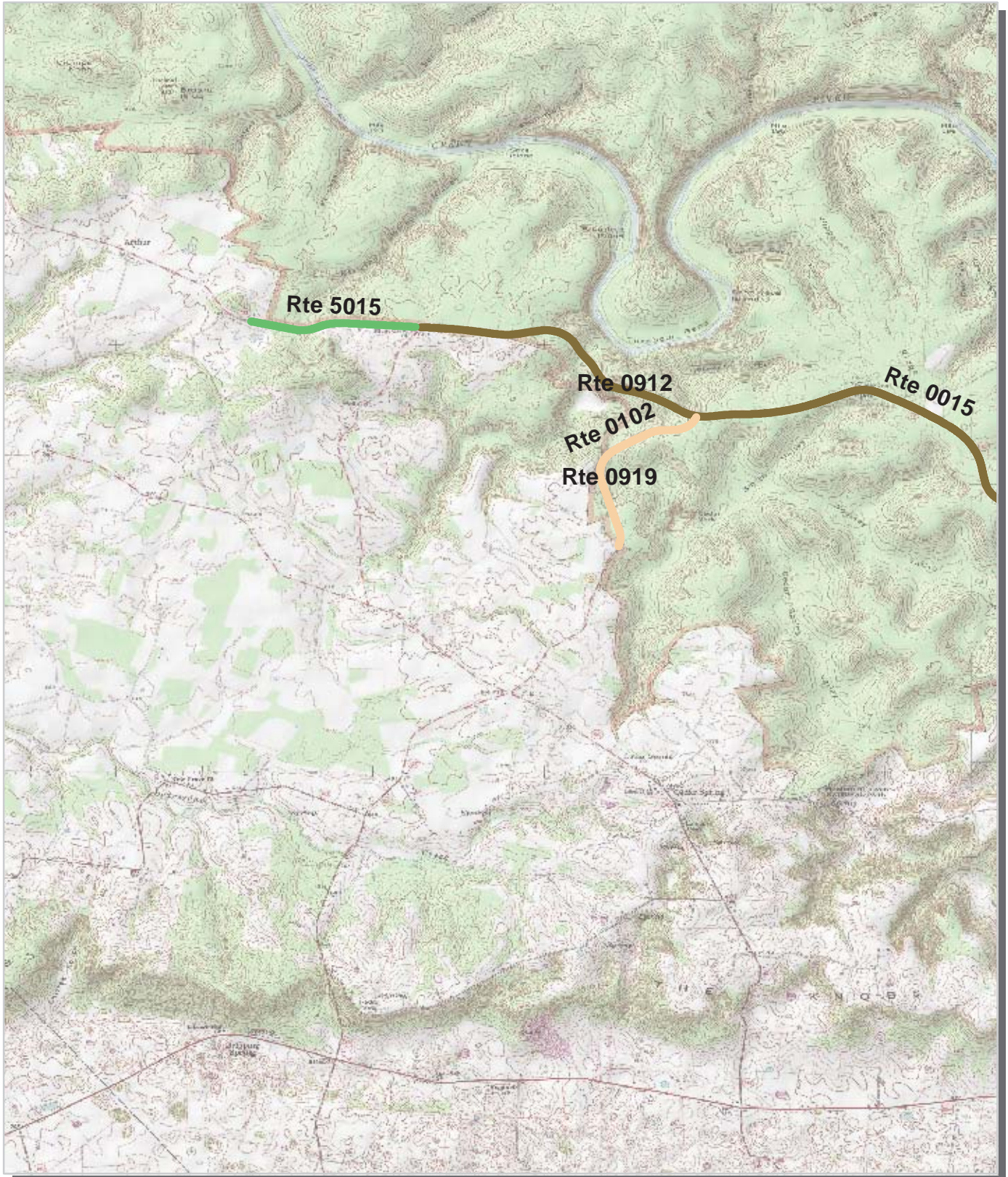
Mammoth Cave National Park Route Location Area Map 5



Unique colors used to differentiate routes



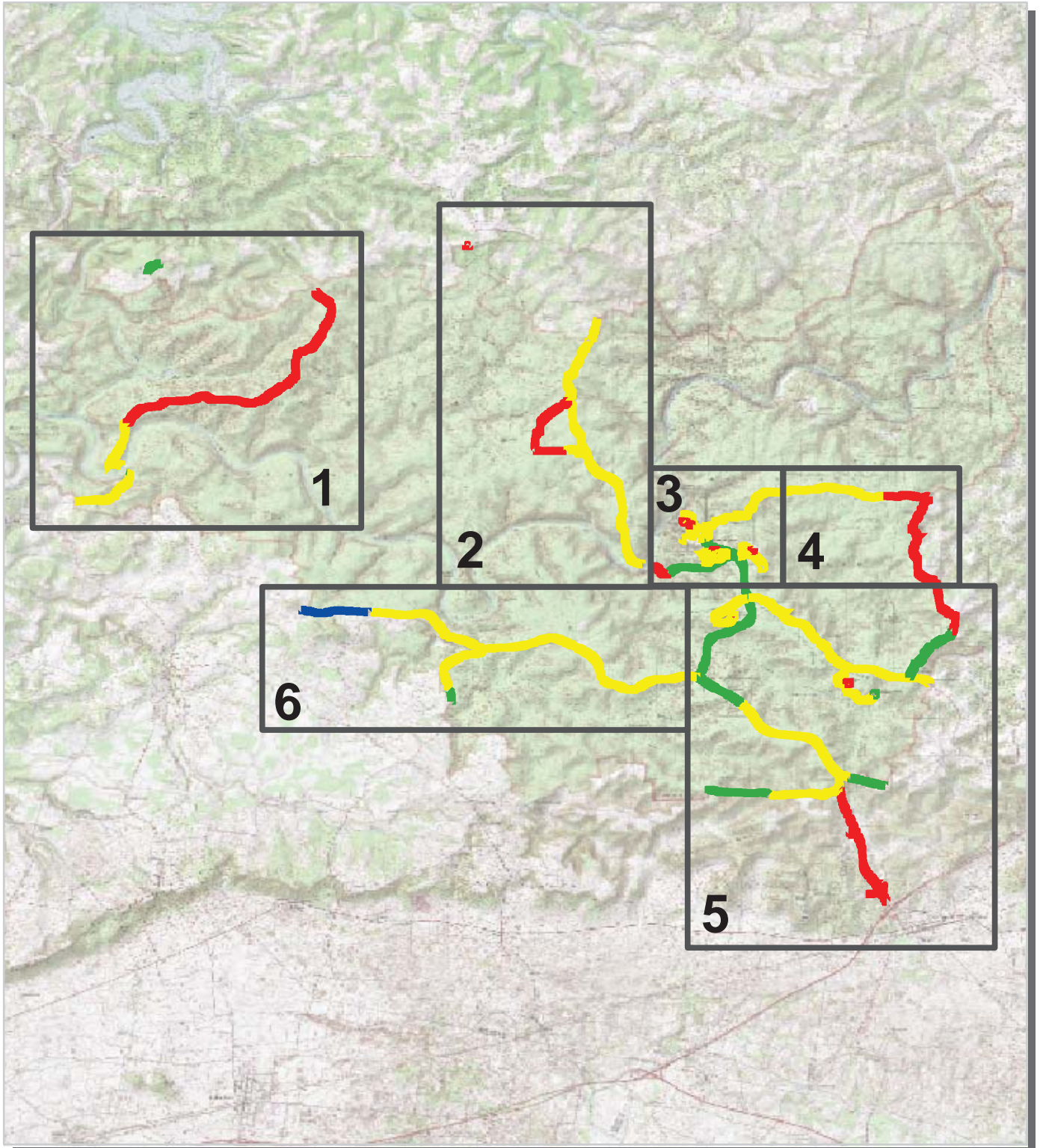
Mammoth Cave National Park Route Location Area Map 6



Unique colors used to differentiate routes



Mammoth Cave National Park Route Condition Key Map PCR - Mile by Mile

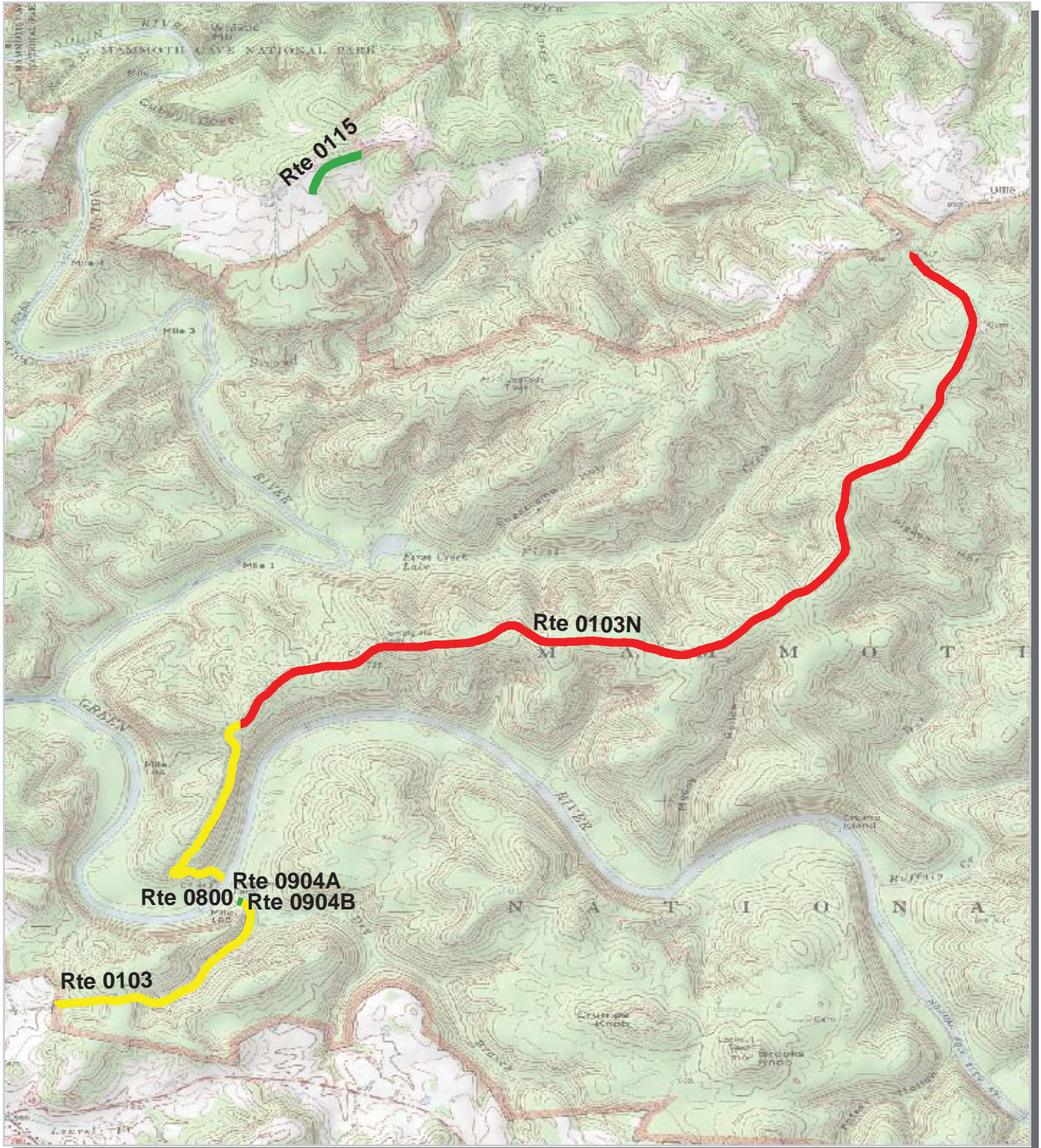






PCR	Poor	█	Fair	█	Good	█	Excellent	█
		(<=60)		(61 - 84)		(85 - 94)		(95 - 100)

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



Mammoth Cave National Park Route Condition Area Map 1 PCR - Mile by Mile

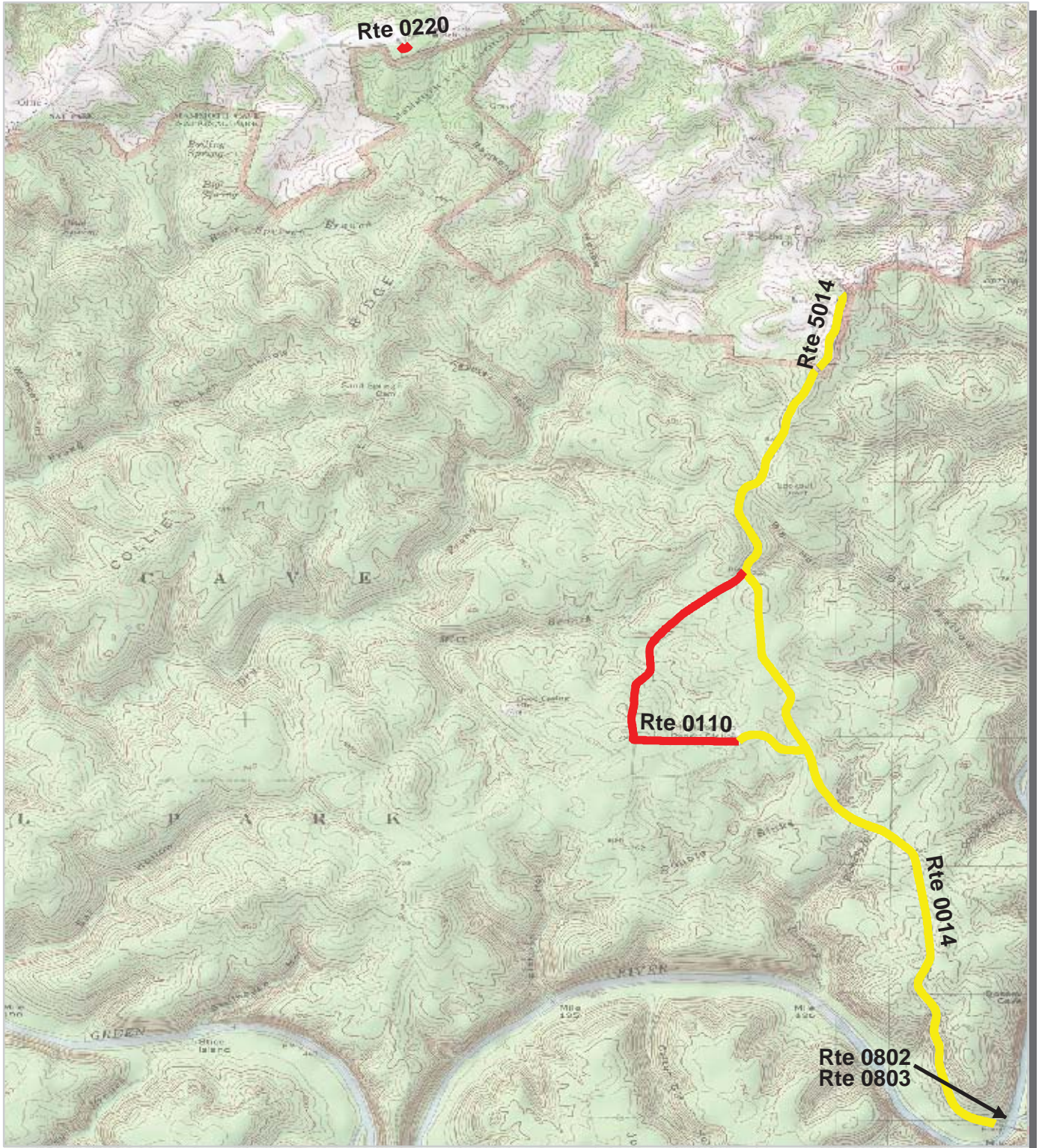






PCR	Poor	Fair	Good	Excellent
				
	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)

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



Mammoth Cave National Park Route Condition Area Map 2 PCR - Mile by Mile

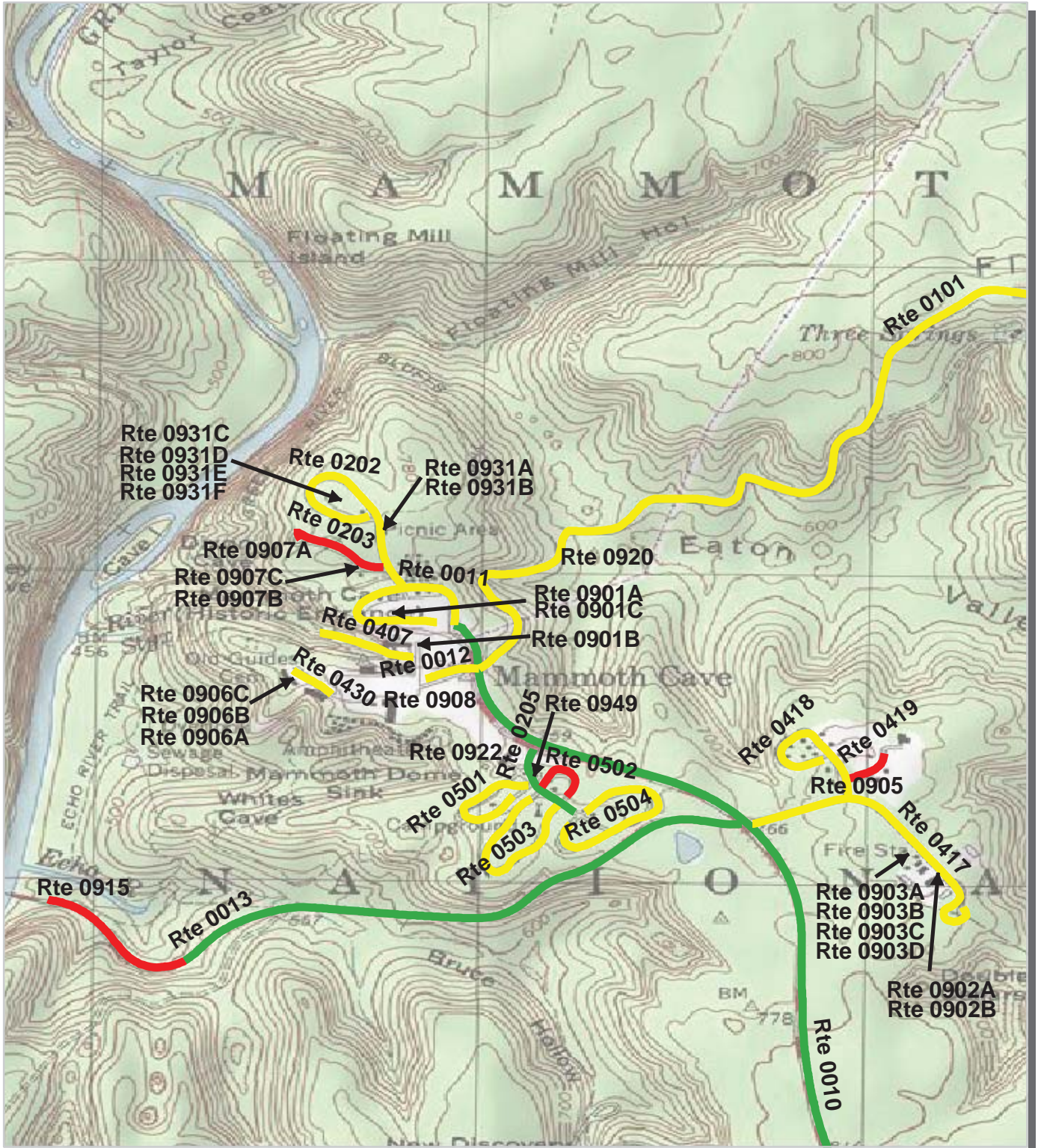


PCR	Poor	Fair	Good	Excellent
				
	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)

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



Mammoth Cave National Park Route Condition Area Map 3 PCR - Mile by Mile

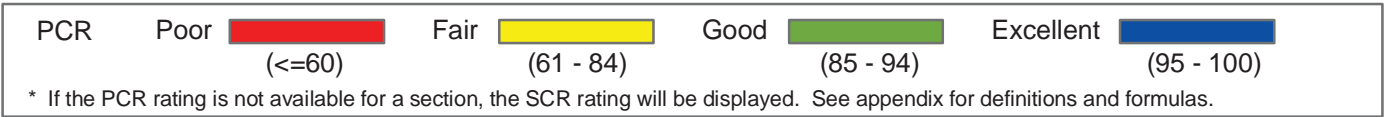
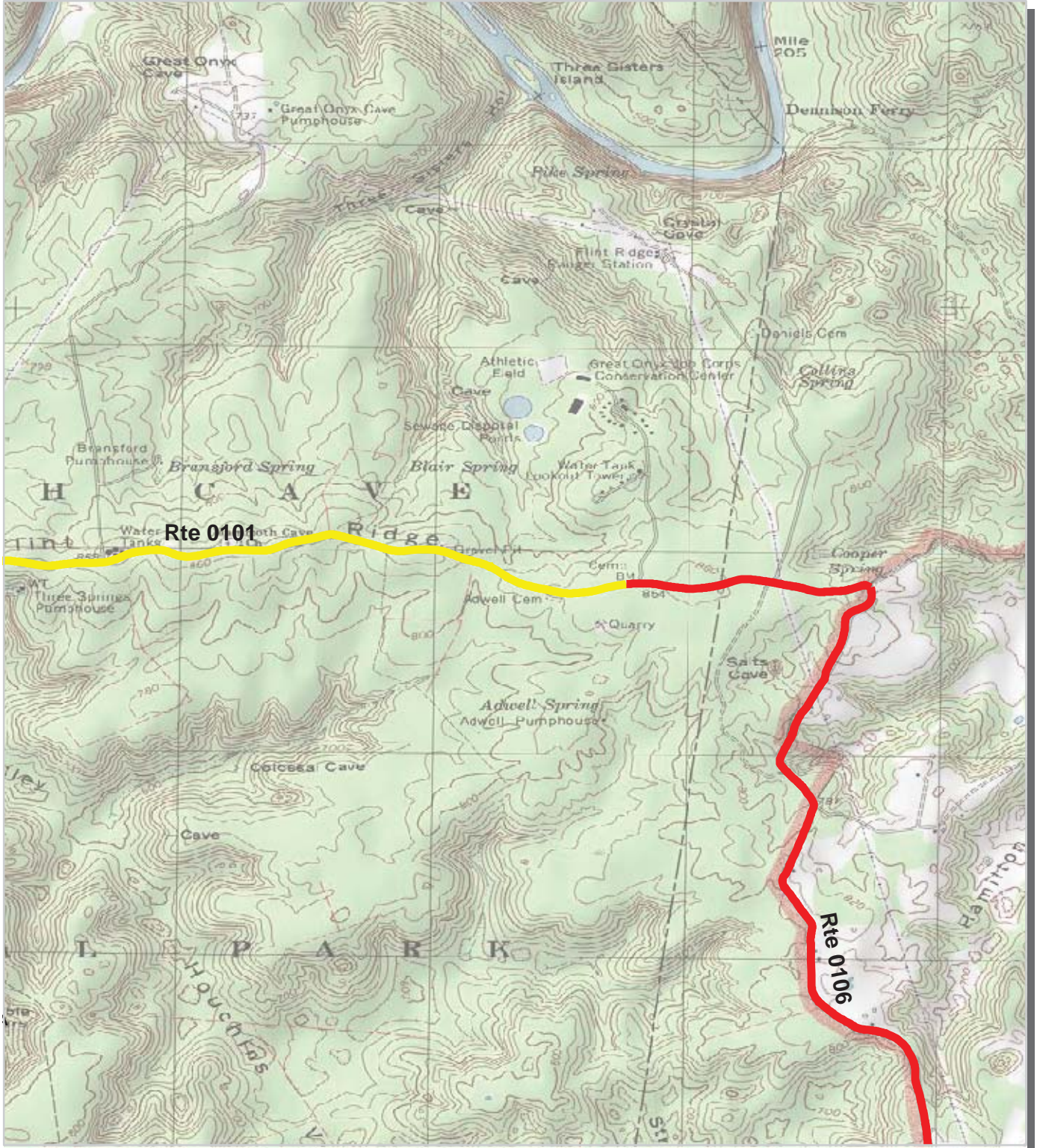


PCR	Poor	Fair	Good	Excellent
	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)

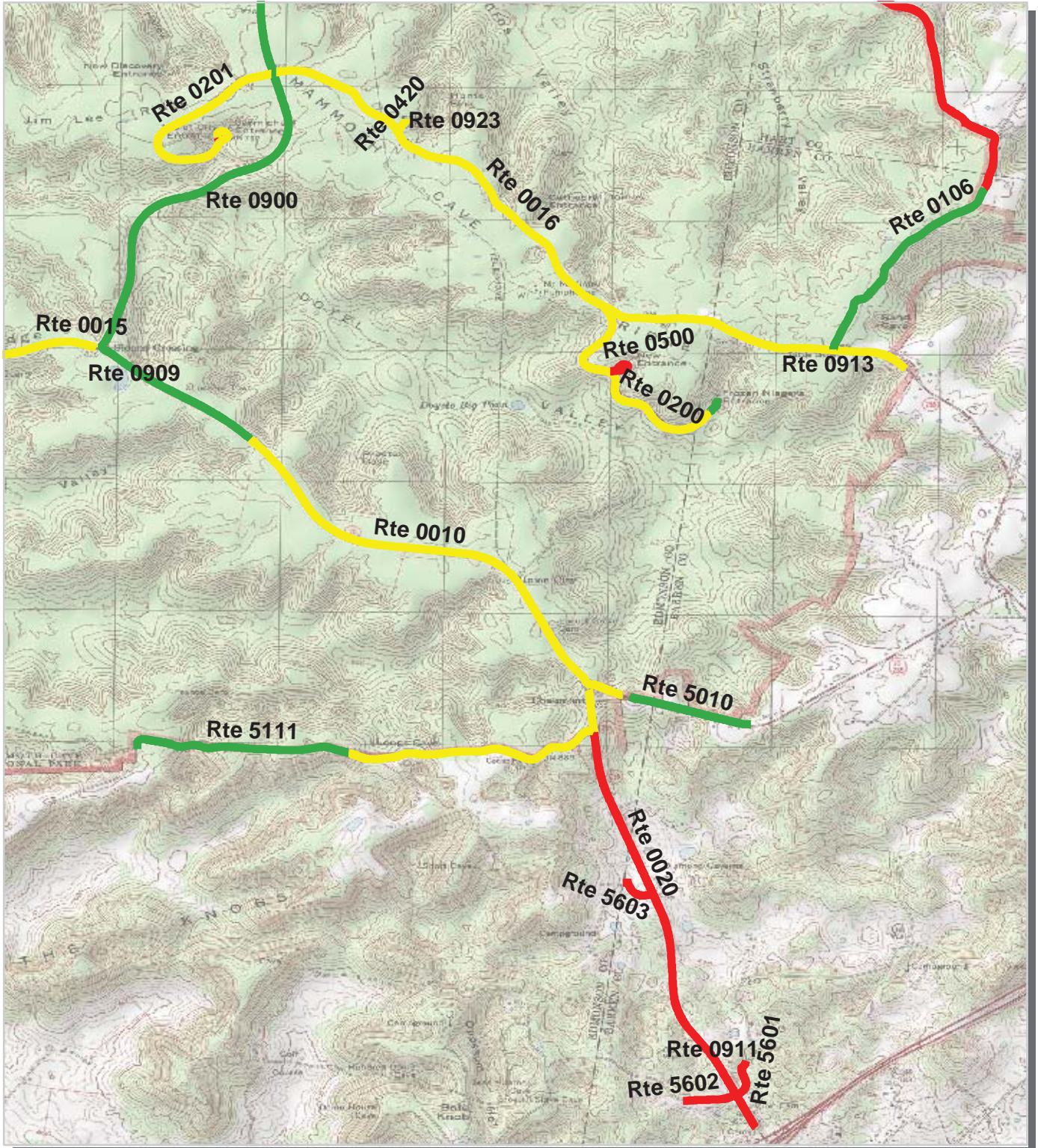
* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.



Mammoth Cave National Park Route Condition Area Map 4 PCR - Mile by Mile



Mammoth Cave National Park Route Condition Area Map 5 PCR - Mile by Mile

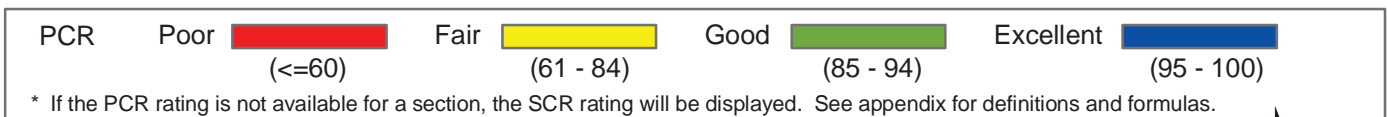
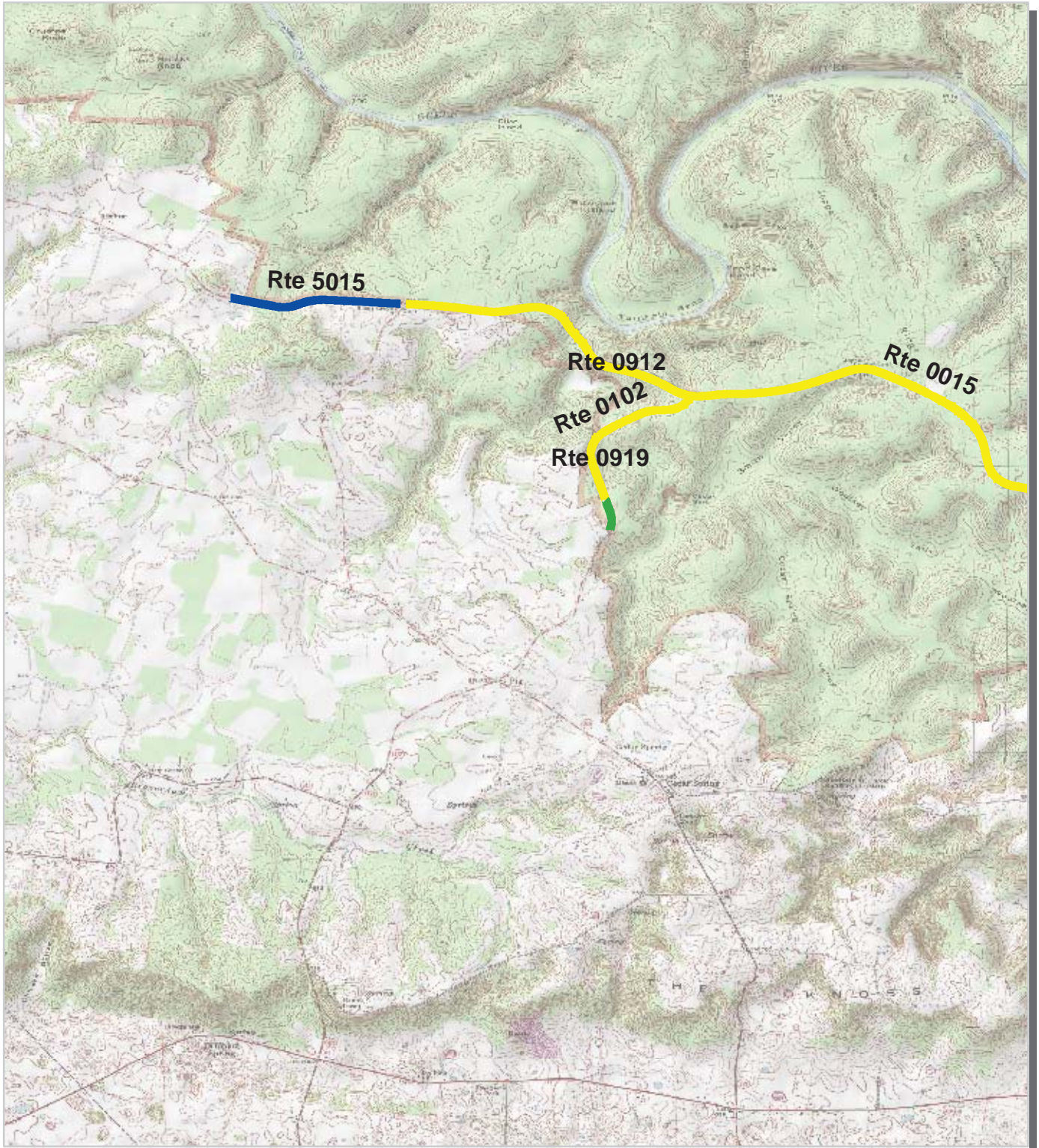


PCR	Poor	Fair	Good	Excellent
	(≤ 60)	(61 - 84)	(85 - 94)	(95 - 100)

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



Mammoth Cave National Park Route Condition Area Map 6 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 =

MACA

Mammoth Cave National Park

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	50610	MAMMOTH CAVE PARKWAY	From Highway 70 / 255 at Park Sign on Boundary	To Route 0011	5.74	0.00	5.74	1	2	0	AS
0011	85738	VISITOR CENTER PARKING ACCESS ROAD	From End of Route 0010	To End of loop around Route 0901A	0.40	0.00	0.40	3	2,1	0	AS
0012	50613	HOTEL ENTRANCE RD	From Route 0010 at MP 5.60 on Left	To Route 0908	0.10	0.00	0.10	1	2	0	AS
0013	50112	GREEN RIVER FERRY ROAD SOUTH	From Route 0010 at MP 5.07	To Route 0803, Green River Ferry Crossing Ramp # 1	1.30	0.00	1.30	1	2	0	AS
0014	50113	GREEN RIVER FERRY ROAD NORTH	From North Park Boundary	To Route 0802, Green River Ferry Crossing Ramp #2	4.17	0.00	4.17	1	2	0	AS
0015	6061	BROWNSVILLE ROAD	From West Park Boundary at intersection of County Highway 2325 and Route 5015	To Route 0010	5.04	0.00	5.04	1	2	0	AS
0016	50612	CAVE CITY ROAD	From Highway 255 East Boundary	To Route 0010	2.99	0.00	2.99	1	2	0	AS
0020	85739	PARK CITY ROAD	From I-65 AT Park Boundary (Park City)	To Route 0010 (Chaumont Intersection)	2.22	0.00	2.22	1	2	0	AS
0101	50614	FLINT RIDGE ROAD	From Route 0010 at MP 5.63 on Right	To Park Boundary at End Route 0106 (Park Ridge Road)	3.61	0.00	3.61	2	2	0	AS
0102	50609	CEDAR SINK ROAD	From Route 0015 at MP 1.73 on Right	To Southwest Park Boundary	1.22	0.00	1.22	2	2	0	AS
0103	50608	HOUCHINS FERRY ROAD SOUTH	From Brownsville Park Boundary	To Route 0800, Houchins Ferry Crossing Ramp #1	1.03	0.00	1.03	2	2	0	AS
0103N	50144	HOUCHINS FERRY ROAD NORTH	From Route 0801 Houchin Ferry Ramp Crossing #2	To Ollie Road, Ollie Ridge Road Intersection	5.33	0.00	5.33	2	2	0	AS
0104	50143	GREAT ONYX CAVE ROAD	From Route 0101 at MP 1.70 on Left	To Great Onyx Cave (Gated)	0.00	2.09	2.09	2	1	0	GR
0105	50138	CRYSTAL CAVE ROAD	From Route 0101 at MP 3.40 on Left	To Crystal Cave (Gated)	0.00	1.36	1.36	2	1	0	GR
0106	50625	PARK RIDGE ROAD	From Route 0016 at MP 0.30 on Right	To Park Boundary at end Route 0101	3.60	0.00	3.60	2	2,1	0	AS
0107	50155	LITTLE JORDAN ROAD (UGLY CREEK)	From County Route 1352	To East Boundary at Dennison Ferry North	0.00	4.80	4.80	3	1	0	GR
0109	50142	GOOD SPRING CHURCH ROAD	From Route 0110 at MP 1.00 on Right	To End of Loop at Good Spring Church	0.00	0.50	0.50	2	1	0	GR
0110	50110	MAPLE SPRINGS LOOP	From Route 0014 at MP 1.1 on Right	To Route 0014 at MP 2.1 on Right	1.33	0.00	1.33	3	1	0	AS
0113	50146	JOPPA RIDGE ROAD	From Route 0013 at MP 0.80 on Left	To Route 0015	0.00	2.16	2.16	3	1	0	GR
0114	50139	DENNISON FERRY ROAD	From County Route 218 (County Flint Ridge Road)	To Canoe Launch at Dennison Ferry	0.00	1.54	1.54	2	1	0	GR
0115	50115	OLLIE RIDGE RD (GREAT ONYX JOB CORP CENTER)	From Park Boundary	To Center Entrance Gate	0.30	0.00	0.30	3	2	0	AS
0200	50617	FROZEN NIAGARA ENTRANCE ROAD	From Route 0016 at MP 1.2 on Left	To End of Loop	1.09	0.00	1.09	2	2	0	AS
0201	50616	CARMICHAEL ENTRANCE ROAD	From Route 0010 at MP 4.4 on Left	To End of Loop at Cave Entrance	1.03	0.00	1.03	2	2	0	AS

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 =	

MACA

Mammoth Cave National Park

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							
0202	50117	PICNIC GROUNDS ROAD	From Route 0011	To End of Loop	0.45	0.00	0.45	3	2,1	0	AS
0203	50118	PICNIC SHELTER ROAD	From Route 0202	To End of Loop	0.19	0.00	0.19	3	2,1	0	AS
0205	85740	CAMPGROUND ACCESS ROAD	From Route 0010 at MP 5.45 on Left	To Route 0504	0.18	0.00	0.18	2	2	0	AS
0215	50151	MAPLE SPRINGS GROUP CAMPGROUND ROAD	From Route 0110 North at MP 1.09 on Left	To Route 0110 South at MP 1.13 on Left	0.00	0.10	0.10	3	1	0	GR
0219	86302	FIRST CREEK TRAILHEAD ROAD	From Route 0103N at MP 5.3 on Left	To End	0.00	0.15	0.15	3	1	0	GR
0220	85741	LINCOLN LOOP TRAILHEAD ROAD	From Ollie Road at Lincoln Trailhead	To End of Loop	0.07	0.00	0.07	3	1	0	AS
0221	50156	WILKINS CEMETERY ROAD	From Route 0107	To End	0.00	0.00	0.00	2	1	0	GR
0222	56048	HOUCHINS FERRY CAMPGROUND ROAD	From Route 0103	To End of Loop	0.00	0.00	0.00	3	1	0	GR
0223	85742	MAPLE SPRINGS LOOP CAMPGROUND	From Route 0110	To Route 0110	0.24	0.00	0.24	3	1	14,113	AS
0400	50133	CEDAR SINK SERVICE ROAD	From Route 0015 at MP 1.80 on Right	To Route 0102	0.00	1.32	1.32	6	1	0	GR
0403	50128	BRANSFORD SPRING ROAD	From Route 0104	To End	0.00	0.17	0.17	5	1	0	GR
0404	50147	LICK LOG ROAD	From Route 0114	To End	0.00	0.29	0.29	6	1	0	GR
0406	50154	ROCK QUARRY ROAD	From Route 0015 at MP 4.51 on Right	To Quarry	0.00	0.21	0.21	6	1	0	GR
0407	50626	HISTORIC ENTRANCE ROAD	From Route 0901B	To End at Historic Cave Entrance	0.18	0.00	0.18	3	1	0	AS
0409	50141	FIRST CREEK TOWER ROAD	From Park Boundary at Clell Road (County)	To End of Road	0.00	3.20	3.20	3	1	0	GR
0411	50132	BUFFALO FERRY ROAD	From South Park Boundary	To Green River	0.00	1.78	1.78	3	1	0	GR
0412	50129	BROOKS CEMETERY ROAD	From Route 0411	To Cemetery	0.00	0.36	0.36	3	1	0	GR
0416	50152	NEW DISCOVERY ROAD	From Route 0201 at MP 0.12 on Right	To End	0.00	0.54	0.54	3	1	0	GR
0417	50116	PARK MAINTENANCE ROAD	From Route 0010 at MP 5	To End of Loop (in Boneyard)	0.58	0.00	0.58	5	2,1	0	AS
0418	50119	RESIDENCE LOOP ROAD	From Route 0417	To End of Loop	0.32	0.00	0.32	5	2	0	AS
0419	50120	RESIDENCE ROAD	From Route 0418	To Route 0946	0.10	0.00	0.10	5	2	0	AS
0420	50623	ELEVATOR SHAFT ROAD	From Route 0016 at MP 2.4 on Right	To End of Loop	0.08	0.00	0.08	2	2,1	0	AS
0422	50134	COLLINS SPRINGS ROAD	From Route 0105	To End	0.00	0.40	0.40	5	1	0	GR
0423	50127	ADWELL SPRINGS ROAD	From Route 0101 at MP 2.98 on Right	To End	0.00	0.40	0.40	5	1	0	GR
0428	50140	DOYLE VALLEY SERVICE ROAD	From Route 0010	To End of Road	0.00	1.00	1.00	3	1	0	GR
0430	50111	MOTEL ROAD	From Southwest End of Route 0908	To End at Route 0906C	0.10	0.00	0.10	3	2	0	AS
0431	86305	POINT X SEWAGE LIFT STATION ROAD	From Route 0013 at MP 0.07 on Right	To End of Route	0.00	0.00	0.00	6	1	0	GR
0432	86306	SUNSET POINT SEWAGE LIFT STATION ACCESS ROAD	From End of Route 0908	To End at Pump House	0.00	0.08	0.08	6	1	0	GR

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
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MACA

Mammoth Cave National Park

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							
0433	86308	MOUNT MCKINLEY UTILITY AREA	From Route 0016 at MP 1.39 on Left	To End of Route	0.00	0.00	0.00	5	1	0	GR
0500	50619	NEW ENTRANCE LOOP	From Route 0200	To Route 0200	0.16	0.00	0.16	5	2	0	AS
0501	50122	VISITOR CENTER CAMPGROUND LOOP D	From Route 0205 at MP 0.07 on Right	To End of Loop	0.26	0.00	0.26	3	1	0	AS
0502	50109	VISITOR CENTER CAMPGROUND LOOP A	From Route 0205 at MP 0.1 on Left	To Route 0205	0.14	0.00	0.14	3	1	0	AS
0503	50123	VISITOR CENTER CAMPGROUND LOOP C	From Route 0205 at MP 0.13 on Right	To Route 0205	0.38	0.00	0.38	3	1	0	AS
0504	50124	VISITOR CENTER CAMPGROUND LOOP B	From End of Route 0205	To End of Loop	0.40	0.00	0.40	3	1	0	AS
0700	50137	UPRD-CRAFT SHOP ACCESS ROAD	From	To	0.00	0.02	0.02	ZZ		0	GR
0701	50156	UPRD-WILKINS CEMETERY ROAD	From	To	0.00	0.50	0.50	ZZ		0	GR
0702	56048	UPRD-HOUCHINS FERRY ROAD	From	To	0.00	4.98	4.98	ZZ		0	GR
0703	57781	UPRD-PARK CITY CEMETERY ROAD	From	To	0.00	0.10	0.10	ZZ		0	GR
0704	80625	UPRD-JAMES CEMETERY ROAD	From	To	0.00	0.45	0.45	ZZ		0	GR
0800	86313	HOUCHINS FERRY NORTH CROSSING RAMP #1	At End of Route 0103		0.00	0.00	0.00	9	0	1,420	CO
0801	86314	HOUCHINS FERRY NORTH CROSSING RAMP #2	At Beginning of Route 0103N		0.00	0.00	0.00	9	0	711	CO
0802	86316	GREEN RIVER FERRY CROSSING RAMP #2	At End of Route 0014		0.00	0.00	0.00	9	0	610	CO
0803	86317	GREEN RIVER FERRY CROSSING RAMP #1	At End of Route 0013		0.00	0.00	0.00	9	0	1,262	CO
0900	50187	DOYLE VALLEY OVERLOOK	Adjacent To Route 0010 at MP 3.65 on Right		0.00	0.00	0.00	9	0	8,600	AS
0901A	50169	MACA MAIN VISITOR CENTER PARKING	Adjacent To Route 0011 on Inside of loop		0.00	0.00	0.00	9	0	182,697	AS
0901B	50165	HOTEL SERVICES AND PARK HQ PARKING	Adjacent To Route 0908		0.00	0.00	0.00	9	0	16,057	AS
0901C	86318	MACA VISITOR CENTER BUS PARKING AREA	Adjacent To Route 0011		0.00	0.00	0.00	9	0	13,449	AS
0902A	50172	MACA MAINTENANCE PARKING	Adjacent To Route 0417		0.00	0.00	0.00	9	0	43,808	AS
0902B	50170	CONCESSION SERVICE PARKING	Adjacent To Route 0417		0.00	0.00	0.00	9	0	16,232	AS
0903A	50184	RANGER STATION PARKING AREA A	Adjacent To Route 0417		0.00	0.00	0.00	9	0	9,979	AS
0903B	86323	RANGER STATION PARKING AREA B	From Route 0903A	To End	0.00	0.00	0.00	9	0	6,501	CO
0903C	86325	RANGER STATION PARKING AREA C	Adjacent To Route 0903A		0.00	0.00	0.00	9	0	3,829	CO
0903D		RANGER STATION PARKING AREA D	Adjacent To Route 0417		0.00	0.00	0.00	9	0	2,834	CO
0904A	50167	HOUCHINS FERRY ROAD SOUTH PARKING	Adjacent To Route 0103 near End on Right		0.00	0.00	0.00	9	0	1,603	AS
0904B	86327	HOUCHINS FERRY ROAD SOUTH BOAT TRAILER PARKING	Adjacent To Route 0103 near End on Left		0.00	0.00	0.00	9	0	3,166	AS

NPS/RIP Route ID Report

(Numerical By Route #)

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

MACA

Mammoth Cave National Park

Rte. #	FMSS Asset #	Route Name	Route Description From To	Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
0905	50185	RESIDENCE PARKING	From Route 0417 To Route 0419	0.00	0.00	0.00	9	0	8,243	AS
0906A	50175	MOTEL PARKING A	Adjacent To Route 0430	0.00	0.00	0.00	9	0	2,377	AS
0906B	50176	MOTEL PARKING B	Adjacent To Route 0430	0.00	0.00	0.00	9	0	2,648	AS
0906C		MOTEL PARKING C	At End of Route 0430	0.00	0.00	0.00	9	0	2,760	AS
0907A	50182	PICNIC SHELTER PARKING A	Adjacent To Route 0203 at MP 0.10 on Right	0.00	0.00	0.00	9	0	7,783	AS
0907B	50183	PICNIC SHELTER PARKING B	Adjacent To Route 0203 at MP 0.02 on Left	0.00	0.00	0.00	9	0	2,323	AS
0907C	86328	PICNIC SHELTER PARKING C	Adjacent To Route 0203 at MP 0.02 on Right	0.00	0.00	0.00	9	0	1,706	AS
0908	50164	HOTEL PARKING	At End of Route 0012	0.00	0.00	0.00	9	0	123,423	AS
0909	50191	SLOANS CROSSING PICNIC/POND PARKING	Adjacent To Route 0010 at MP 2.5	0.00	0.00	0.00	9	0	9,386	AS
0911	50179	SOUTH ENTRANCE SIGN PARKING	Adjacent To Route 0020 at MP 0.4 on Right	0.00	0.00	0.00	9	0	9,751	AS
0912	50193	TURNHOLE BEND NATURE TRAIL PARKING	Adjacent To Route 0015 at MP 1.3 on Left	0.00	0.00	0.00	9	0	6,049	AS
0913	50189	SAND CAVE PARKING	Adjacent To Route 0016 at MP 0.15 on Right	0.00	0.00	0.00	9	0	6,313	AS
0915	50163	GREEN RIVER FERRY PARKING	Adjacent To Route 0013 at MP 1.30 on Right	0.00	0.00	0.00	9	0	20,650	AS
0918	50204	MAPLE SPRINGS TRAILHEAD PARKING	Adjacent To Route 0110	0.00	0.00	0.00	9	0	0	GR
0919	50157	CEDAR SINK TRAILHEAD PARKING	Adjacent To Route 0102 at MP 0.57 on Left	0.00	0.00	0.00	9	0	5,798	AS
0920	50194	WOODLAND COTTAGES PARKING	Adjacent To Route 0011	0.00	0.00	0.00	9	0	9,697	AS
0922	50160	SERVICES PARKING (POST OFFICE/DUMP STATION/GAS)	Adjacent To Route 0010 and Route 0205	0.00	0.00	0.00	9	0	46,198	AS
0923	50162	ELEVATOR PARKING	Adjacent To Route 0420	0.00	0.00	0.00	9	0	4,633	AS
0931A	50180	PICNIC GROUNDS PARKING AREA A	Adjacent To Route 0202 at MP 0.10 on Left	0.00	0.00	0.00	9	0	1,147	AS
0931B	54926	PICNIC GROUNDS PARKING AREA B	Adjacent To Route 0202 at MP 0.11 on Left	0.00	0.00	0.00	9	0	1,039	AS
0931C	54928	PICNIC GROUNDS PARKING AREA C	Adjacent To Route 0202 at MP 0.21 on Left	0.00	0.00	0.00	9	0	3,454	AS
0931D	54930	PICNIC GROUNDS PARKING AREA D	Adjacent To Route 0202 at MP 0.23 on Left	0.00	0.00	0.00	9	0	1,479	AS
0931E	86329	PICNIC GROUNDS PARKING AREA E	Adjacent To Route 0202 at MP 0.40 on Left	0.00	0.00	0.00	9	0	2,277	AS
0931F	86330	PICNIC GROUNDS PARKING AREA F	Adjacent To Route 0202 at MP 0.41 on Left	0.00	0.00	0.00	9	0	1,459	AS
0933	50196	DENNISON FERRY DAY USE PARKING	Adjacent To Route 0114	0.00	0.00	0.00	9	0	0	GR
0935	50201	FIRST CREEK PARKING	Adjacent To Route 0103N	0.00	0.00	0.00	9	0	0	GR
0936	50202	ADWELL CEMETERY PARKING	Adjacent To Route 0101	0.00	0.00	0.00	9	0	0	GR
0938	50207	HOUCHINS FERRY NORTH PARKING	Adjacent To Route 0103 at MP 0.02 on Left	0.00	0.00	0.00	9	0	0	GR
0939	83606	TEMPLE HILL CEMETERY PARKING	Adjacent To Route 0103N at MP 1.70 on Left	0.00	0.00	0.00	9	0	0	GR

NPS/RIP Route ID Report

(Numerical By Route #)

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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 =

MACA

Mammoth Cave National Park

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							
0940	83607	TEMPLE HILL TRAILHEAD PARKING	Adjacent To Route 0103N at MP 2.0 on Right		0.00	0.00	0.00	9	0	0	GR
0941	50148	JAGGERS CEMETERY PARKING	Adjacent To Route 0103N at MP 5.10 on Right		0.00	0.00	0.00	9	0	0	GR
0942	50149	LOCUST GROVE CEMETERY PARKING	From Route 0010	To Cemetery	0.00	0.00	0.00	9	0	0	GR
0943	50150	MAMMOTH CAVE CHURCH PARKING	From Route 0101 at MP 2.01 on Left	To End	0.00	0.00	0.00	9	0	0	GR
0944	50200	LITTLE HOPE CHURCH PARKING	From Route 0016 at MP 0.69 on Right	To End	0.00	0.00	0.00	9	0	0	GR
0945	50145	JOPPA CHURCH CEMETERY PARKING	From Route 0015 at MP 2.70 on Left	To End	0.00	0.00	0.00	9	0	0	GR
0946	61219	ADMINISTRATION AREA EMPLOYEE PARKING	At End of Route 0419		0.00	0.00	0.00	9	0	0	GR
0947	50205	S & RM EMPLOYEE PARKING #1	Adjacent To Route 0417 at MP on Right		0.00	0.00	0.00	9	0	0	GR
0948	83608	S & RM EMPLOYEE PARKING #2	Adjacent To Route 0417 at MP on Left		0.00	0.00	0.00	9	0	0	GR
0949	86331	RV TURNAROUND PARKING	Adjacent To Route 0205 at MP 0.08 on Left		0.00	0.00	0.00	9	0	4,003	AS
0950	86290	NORTH GREEN RIVER FERRY PARKING	Adjacent To Route 0014 at MP 4.21 on Right		0.00	0.00	0.00	9	0	0	GR
5010	85743	STATE HIGHWAY 70/255 (MAMMOTH CAVE PARKWAY EXTENDED)	From 0.5 Miles East of Park Boundary on State Highway 70/255	To Park Boundary / Begin Route 0010	0.50	0.00	0.50	8	2	0	AS
5014	85754	GREEN RIVER FERRY ROAD NORTH	From Little Jordan Road	To North Park Boundary at Begin Route 0014	0.40	0.00	0.40	2	2	0	AS
5015	85755	STATE HIGHWAY 70/BROWNSVILLE ROAD EXTENSION	From State Highway 70 at Taxidermy Business on Left	To Park Boundary at County Highway 2325/Begin Route 0015	0.92	0.00	0.92	2	2	0	AS
5111	50622	CEDAR HILL CHURCH ROAD	From Route 0020	To Old Mexico Road (Private Road) on Right	1.88	0.00	1.88	2	1	0	AS
5601	50621	DOYLE ROAD	From Route 0020 at MP 0.18	To Park Boundary Marker on Left (Fence Post)	0.19	0.00	0.19	8	2	0	AS
5602	50126	ZION CEMETERY ROAD	From Route 0020 at MP 0.18	To Park Boundary Marker on Right (Fence Post)	0.22	0.00	0.22	7	2	0	AS
5603	50121	SHORT CAVE ROAD	From Route 0020 AT MP 1.20 on Left	To Park Boundary Marker on Left (Fence Line)	0.15	0.00	0.15	7	2	0	OC
Totals:					48.59	28.50	77.09			611,465	

NPS/RIP Route ID Report

(Numerical By Route #)

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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.

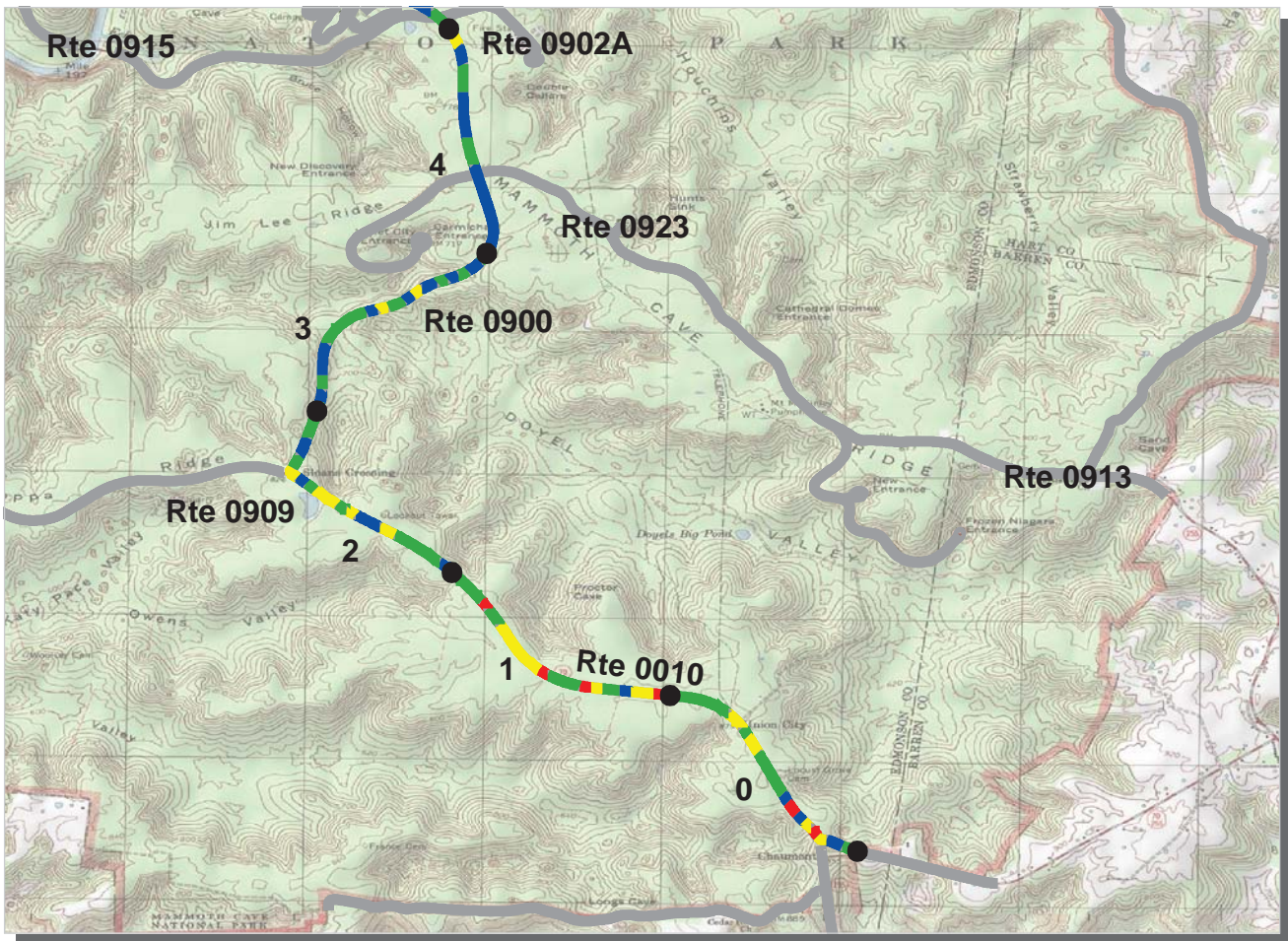
Surface Type Abbreviations:

- 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.



PCR	Poor	(<=60)	Fair	(61 - 84)	Good	(85 - 94)	Excellent	(95 - 100)
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* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

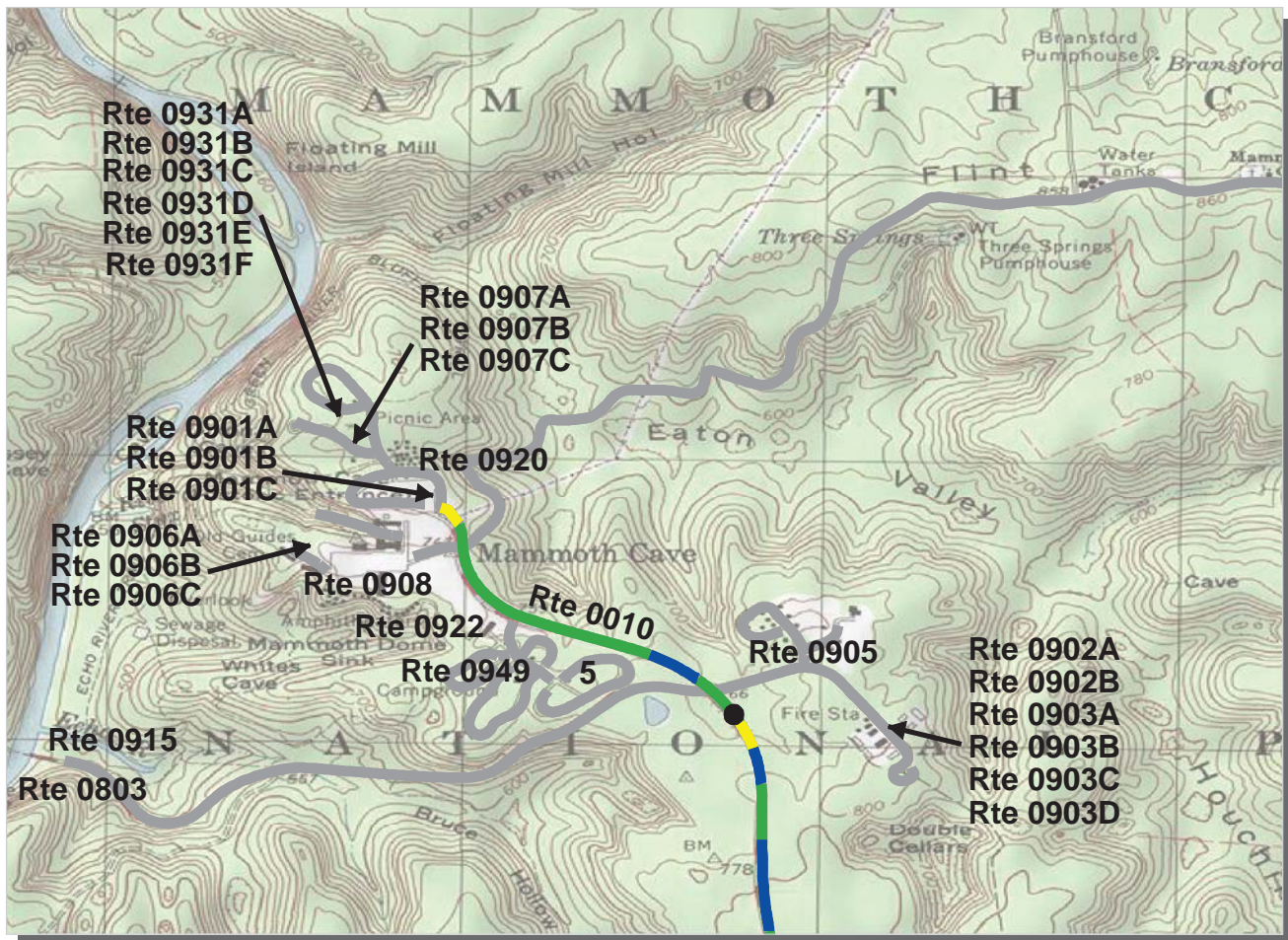
Southeast Region
MACA : Mammoth Cave National Park

ROUTE: 0010 Mammoth Cave Parkway **TOTAL LENGTH: 5.74 Miles**

Section Number	0	1	2	3	4
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)	24	24	20	25	21
Lane Width (ft)	11	13	10	15	11
Shoulder Width (ft)	5	6	5	6	6
Roadway Condition Information					
PCR (Pavement Condition Rating)	81	74	85	91	91
RCI (Roughness Condition Index)	98	97	96	94	98
SCR (Surface Condition Rating)	72	59	79	88	86
Alligator Cracking Index	92	86	96	98	96
Rutting Index	84	82	87	93	93
Patching Index	100	92	99	98	100
Transverse Cracking Index	96	97	97	99	99
Longitudinal Cracking Index	97	97	97	98	97
Shoulder Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD
Drainage Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD

ROUTE: 0010 Mammoth Cave Parkway

* 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.

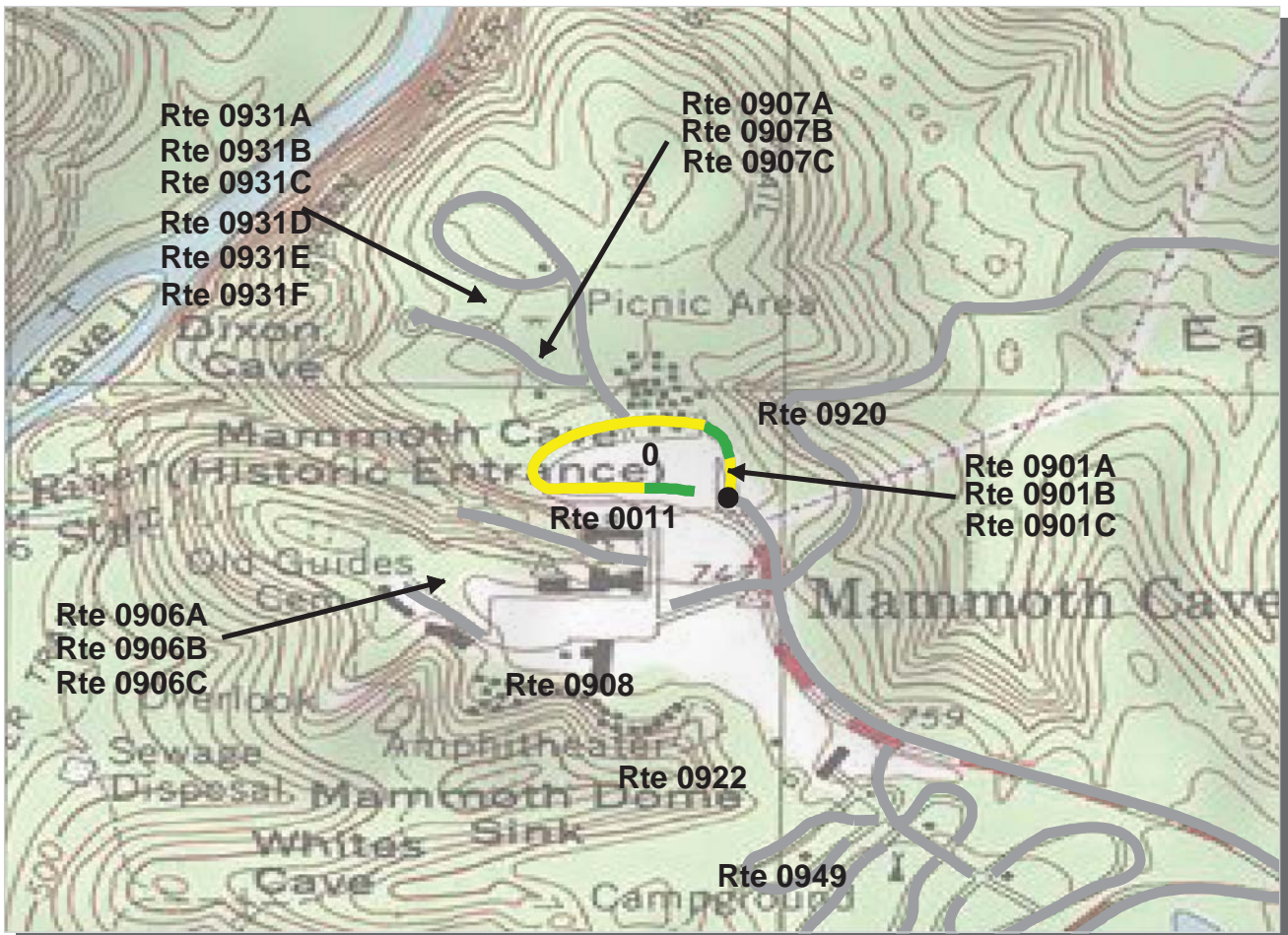
Southeast Region
MACA : Mammoth Cave National Park

ROUTE: 0010 Mammoth Cave Parkway **TOTAL LENGTH: 5.74 Miles**

Section Number	5			
Section Length (mi)	0.74			
AADT	**			
SADT	**			
ADT Date	**			
Cross Section Information				
Number of Lanes	2			
Paved Width (ft)	20			
Lane Width (ft)	9			
Shoulder Width (ft)	4			
Roadway Condition Information				
PCR (Pavement Condition Rating)	88			
RCI (Roughness Condition Index)	93			
SCR (Surface Condition Rating)	85			
Alligator Cracking Index	98			
Rutting Index	92			
Patching Index	99			
Transverse Cracking Index	98			
Longitudinal Cracking Index	95			
Shoulder Condition Rating	GOOD			
Drainage Condition Rating	GOOD			

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

ROUTE: 0010 Mammoth Cave Parkway



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.

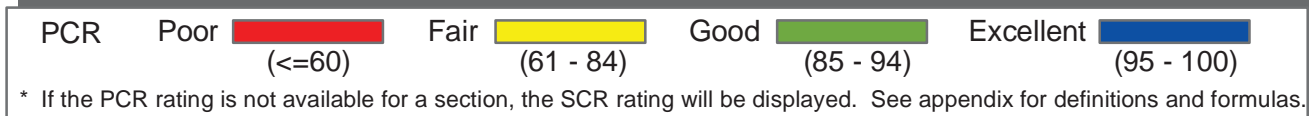
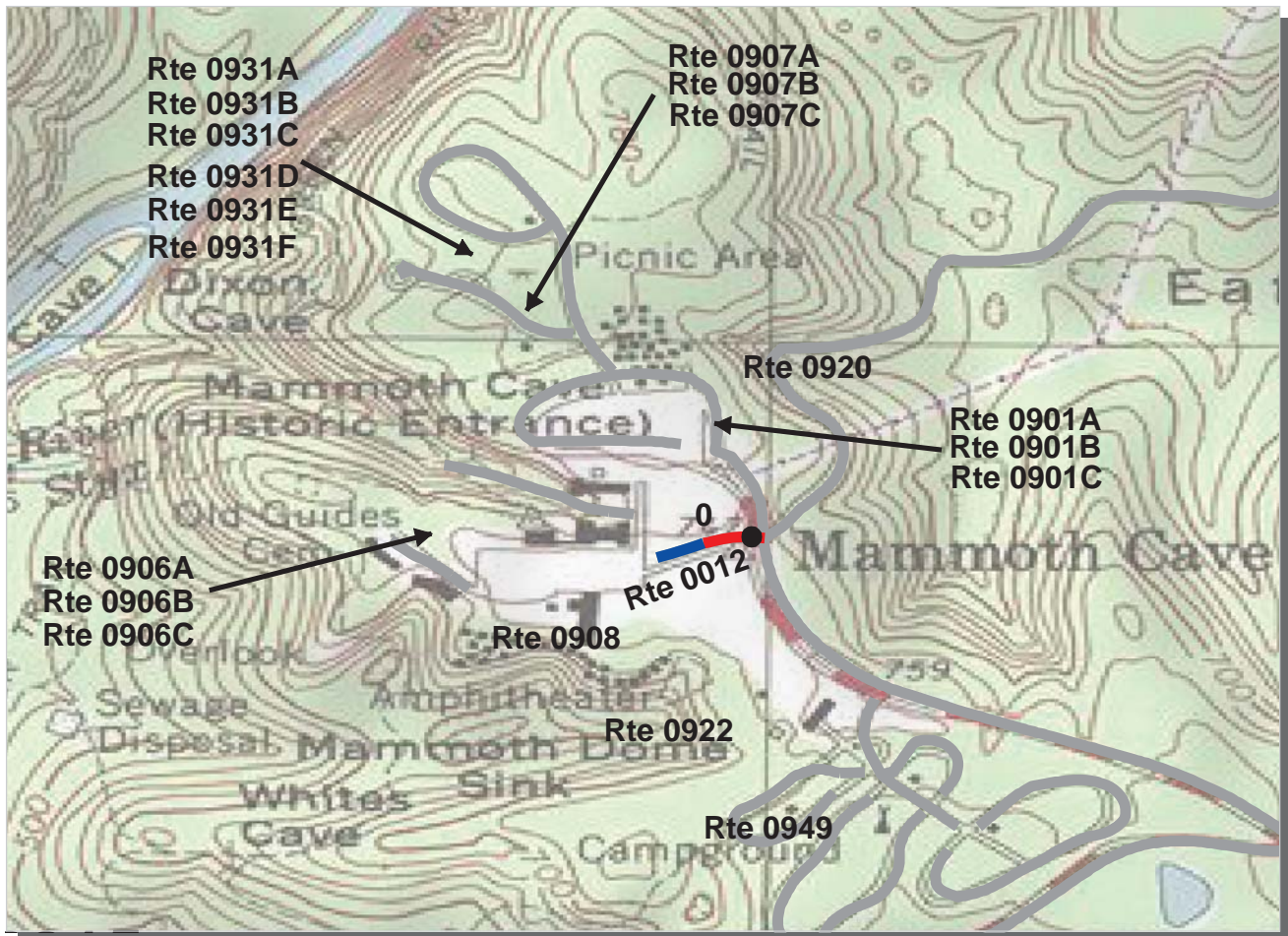
Southeast Region
MACA : Mammoth Cave National Park

ROUTE: 0011 Visitor Center Parking Access Road **TOTAL LENGTH: 0.40 Miles**

Section Number	0			
Section Length (mi)	0.40			
AADT	**			
SADT	**			
ADT Date	**			
Cross Section Information				
Number of Lanes	2			
Paved Width (ft)	21			
Lane Width (ft)	12			
Shoulder Width (ft)	0			
Roadway Condition Information				
PCR (Pavement Condition Rating)	80			
RCI (Roughness Condition Index)	81			
SCR (Surface Condition Rating)	80			
Alligator Cracking Index	98			
Rutting Index	89			
Patching Index	98			
Transverse Cracking Index	96			
Longitudinal Cracking Index	97			
Shoulder Condition Rating	N/A			
Drainage Condition Rating	GOOD			

ROUTE: 0011 Visitor Center Parking 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>



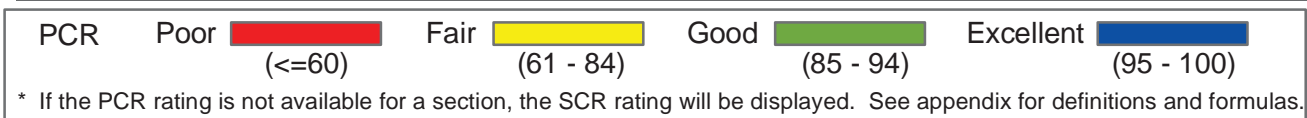
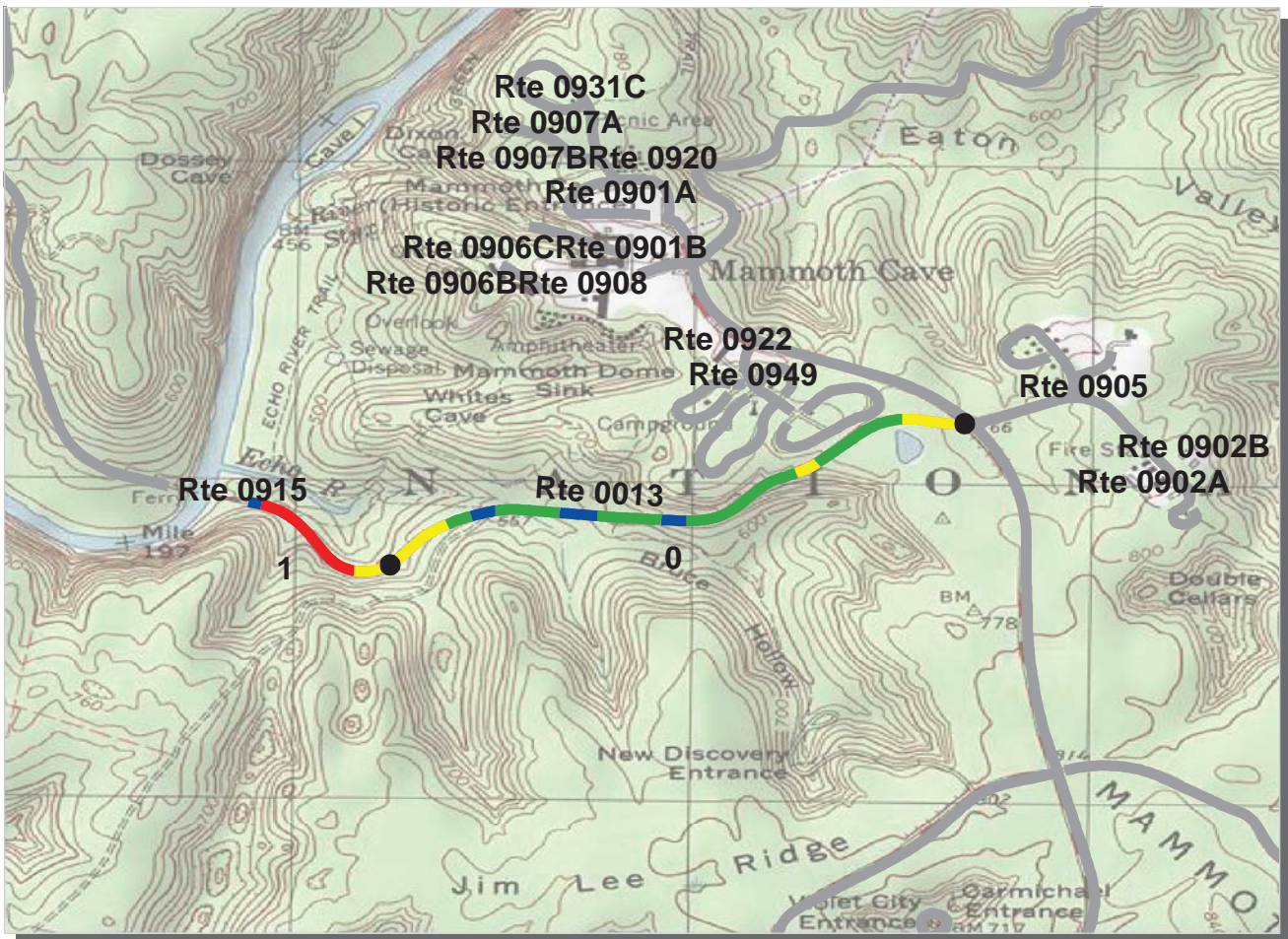
Southeast Region
MACA : Mammoth Cave National Park

ROUTE: 0012 Hotel Entrance Rd **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)	22				
Lane Width (ft)	11				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	74				
RCI (Roughness Condition Index)	79				
SCR (Surface Condition Rating)	76				
Alligator Cracking Index	98				
Rutting Index	93				
Patching Index	99				
Transverse Cracking Index	92				
Longitudinal Cracking Index	93				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0012 Hotel Entrance Rd

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



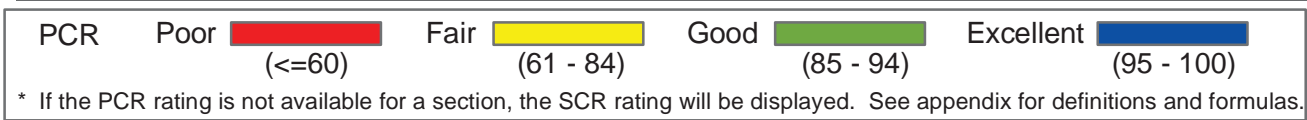
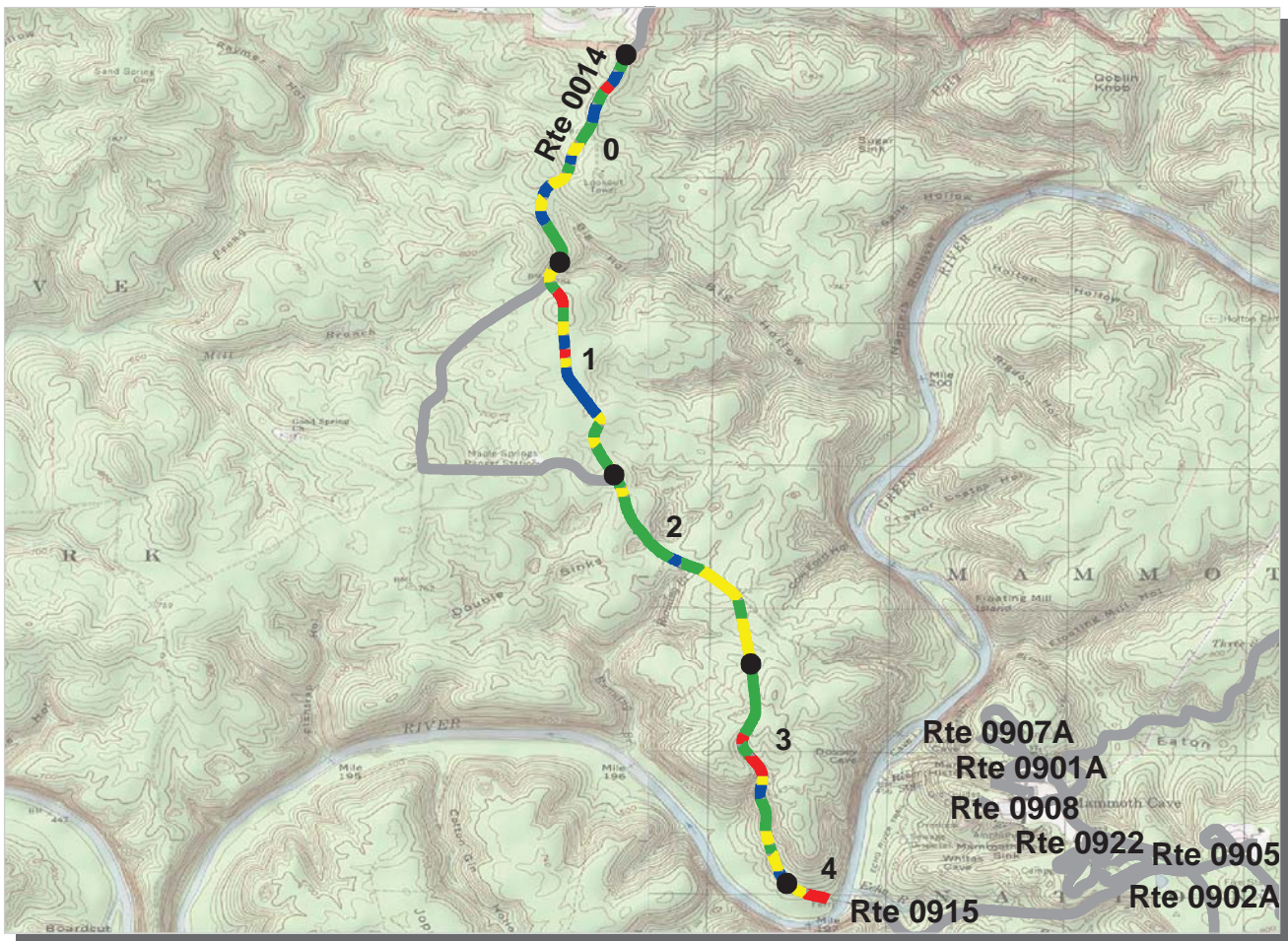
Southeast Region
MACA : Mammoth Cave National Park

ROUTE: 0013 Green River Ferry Road South **TOTAL LENGTH: 1.30 Miles**

Section Number	0	1		
Section Length (mi)	1.00	0.30		
AADT	**			
SADT	**			
ADT Date	**			
Cross Section Information				
Number of Lanes	2	2		
Paved Width (ft)	19	19		
Lane Width (ft)	9	9		
Shoulder Width (ft)	5	5		
Roadway Condition Information				
PCR (Pavement Condition Rating)	85	51		
RCI (Roughness Condition Index)	94	85		
SCR (Surface Condition Rating)	81	29		
Alligator Cracking Index	96	48		
Rutting Index	86	71		
Patching Index	100	100		
Transverse Cracking Index	99	100		
Longitudinal Cracking Index	98	96		
Shoulder Condition Rating	GOOD	GOOD		
Drainage Condition Rating	GOOD	GOOD		

ROUTE: 0013 Green River Ferry Road South

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



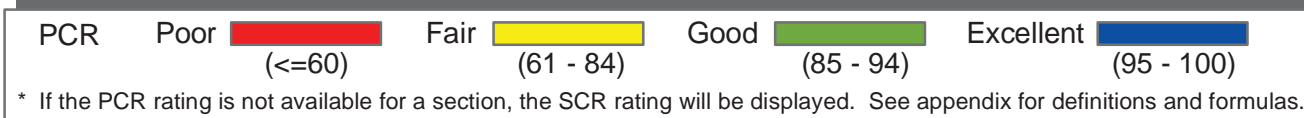
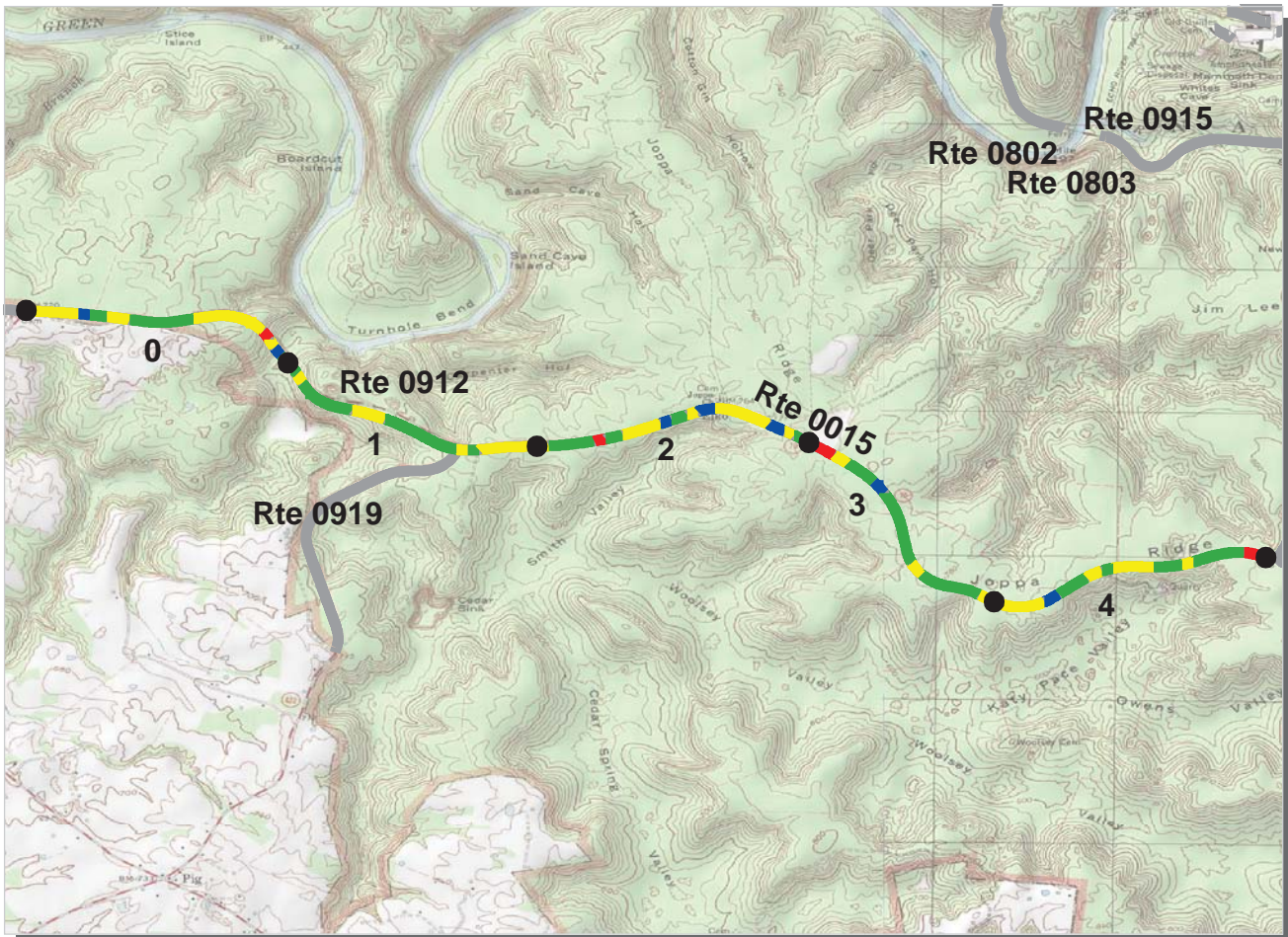
Southeast Region
MACA : Mammoth Cave National Park

ROUTE: 0014 Green River Ferry Road North **TOTAL LENGTH: 4.17 Miles**

Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	0.17
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	17	17	17	17	16
Lane Width (ft)	8	8	9	8	8
Shoulder Width (ft)	0	0	0	5	5
Roadway Condition Information					
PCR (Pavement Condition Rating)	84	81	83	81	69
RCI (Roughness Condition Index)	89	85	93	92	90
SCR (Surface Condition Rating)	81	79	76	74	69
Alligator Cracking Index	96	92	98	88	94
Rutting Index	85	86	80	85	75
Patching Index	99	99	99	100	100
Transverse Cracking Index	99	99	99	99	99
Longitudinal Cracking Index	98	98	99	99	99
Shoulder Condition Rating	N/A	N/A	N/A	GOOD	GOOD
Drainage Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD

ROUTE: 0014 Green River Ferry Road North

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



Southeast Region
MACA : Mammoth Cave National Park

ROUTE: 0015 Brownsville Road **TOTAL LENGTH: 5.04 Miles**

Section Number	0	1	2	3	4
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)	19	19	19	19	21
Lane Width (ft)	10	10	10	10	10
Shoulder Width (ft)	5	5	4	7	6
Roadway Condition Information					
PCR (Pavement Condition Rating)	79	83	81	82	79
RCI (Roughness Condition Index)	95	99	99	97	97
SCR (Surface Condition Rating)	69	73	70	72	67
Alligator Cracking Index	93	98	93	94	94
Rutting Index	80	78	79	79	76
Patching Index	99	100	100	99	99
Transverse Cracking Index	98	98	98	98	98
Longitudinal Cracking Index	97	98	98	98	97
Shoulder Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD
Drainage Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD

ROUTE: 0015 Brownsville 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.

Southeast Region

MACA : Mammoth Cave National Park

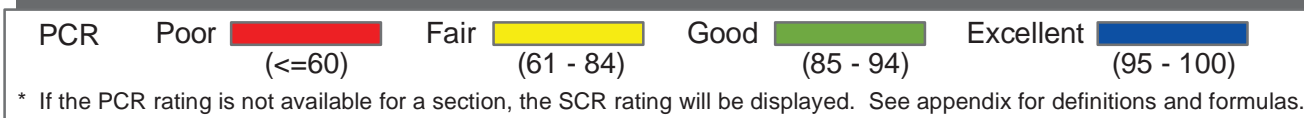
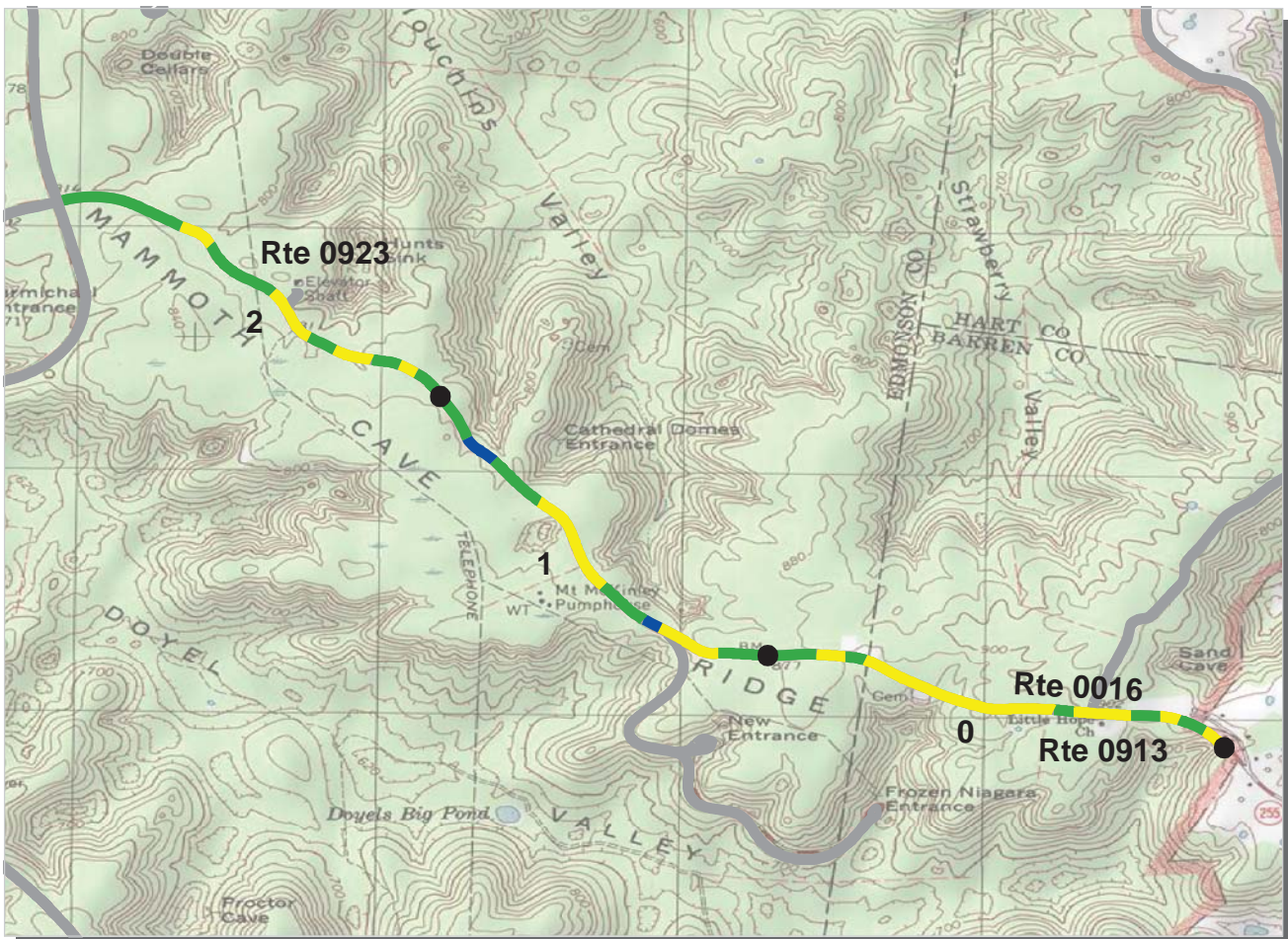
ROUTE: 0015 Brownsville Road

TOTAL LENGTH: 5.04 Miles

Section Number	5				
Section Length (mi)	0.04				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	30				
Lane Width (ft)	10				
Shoulder Width (ft)	7				
Roadway Condition Information					
PCR (Pavement Condition Rating)	73				
RCI (Roughness Condition Index)	84				
SCR (Surface Condition Rating)	65				
Alligator Cracking Index	96				
Rutting Index	72				
Patching Index	100				
Transverse Cracking Index	99				
Longitudinal Cracking Index	97				
Shoulder Condition Rating	GOOD				
Drainage Condition Rating	GOOD				

ROUTE: 0015 Brownsville Road

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



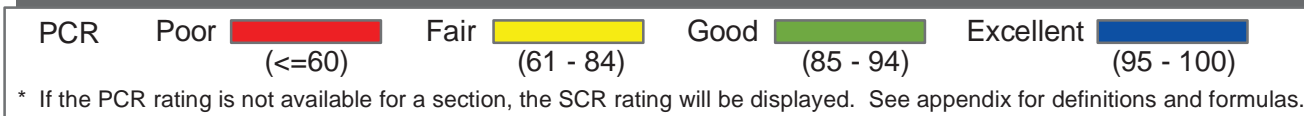
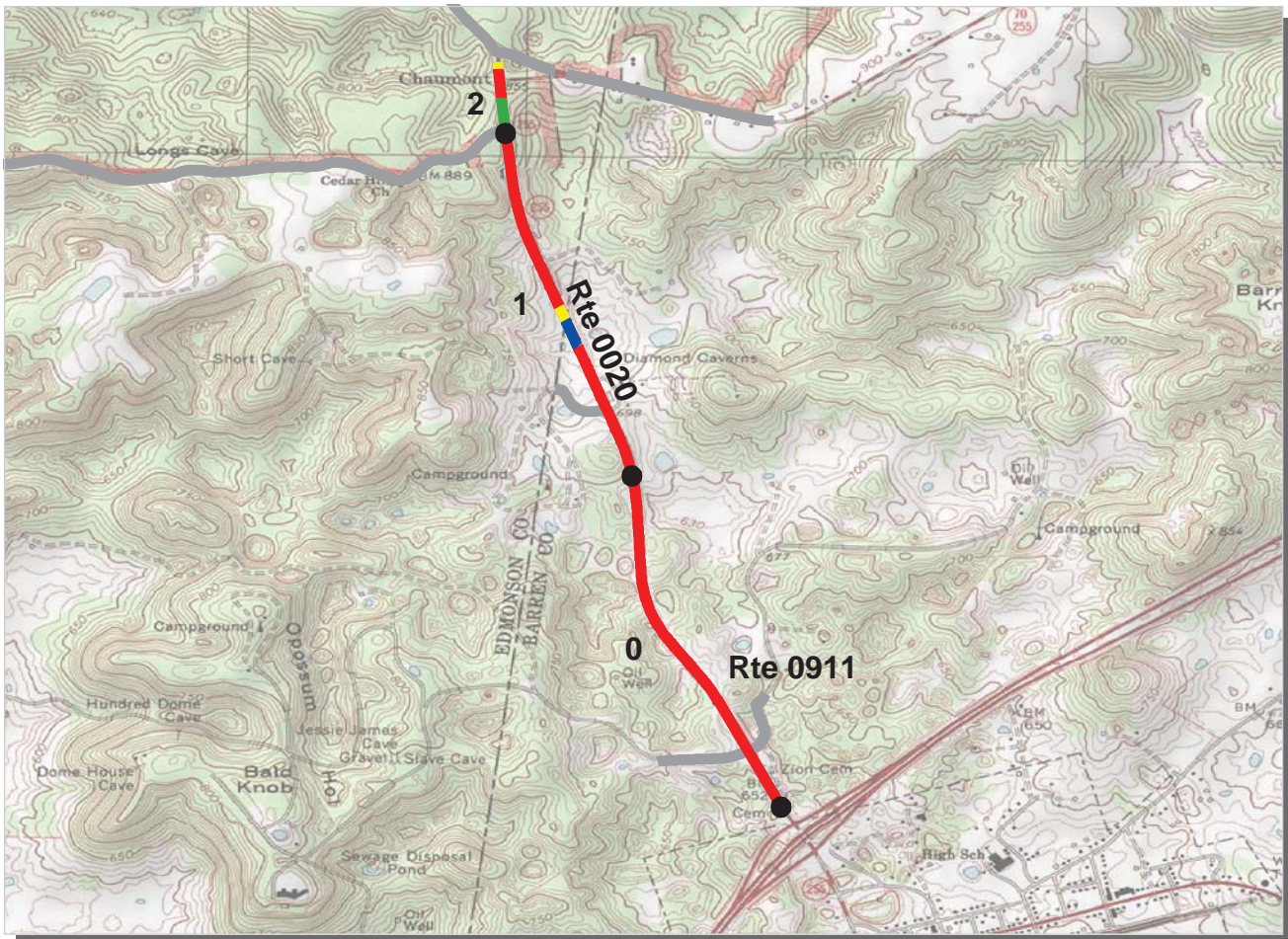
Southeast Region
MACA : Mammoth Cave National Park

ROUTE: 0016 Cave City Road **TOTAL LENGTH: 2.99 Miles**

Section Number	0	1	2		
Section Length (mi)	1.00	1.00	0.99		
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2		
Paved Width (ft)	20	18	19		
Lane Width (ft)	10	9	10		
Shoulder Width (ft)	0	5	6		
Roadway Condition Information					
PCR (Pavement Condition Rating)	79	83	83		
RCI (Roughness Condition Index)	88	94	94		
SCR (Surface Condition Rating)	74	76	76		
Alligator Cracking Index	98	95	97		
Rutting Index	79	83	83		
Patching Index	99	99	99		
Transverse Cracking Index	99	99	98		
Longitudinal Cracking Index	96	98	97		
Shoulder Condition Rating	N/A	GOOD	GOOD		
Drainage Condition Rating	GOOD	GOOD	GOOD		

ROUTE: 0016 Cave City Road

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



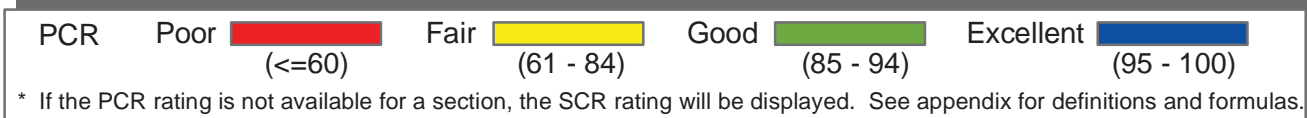
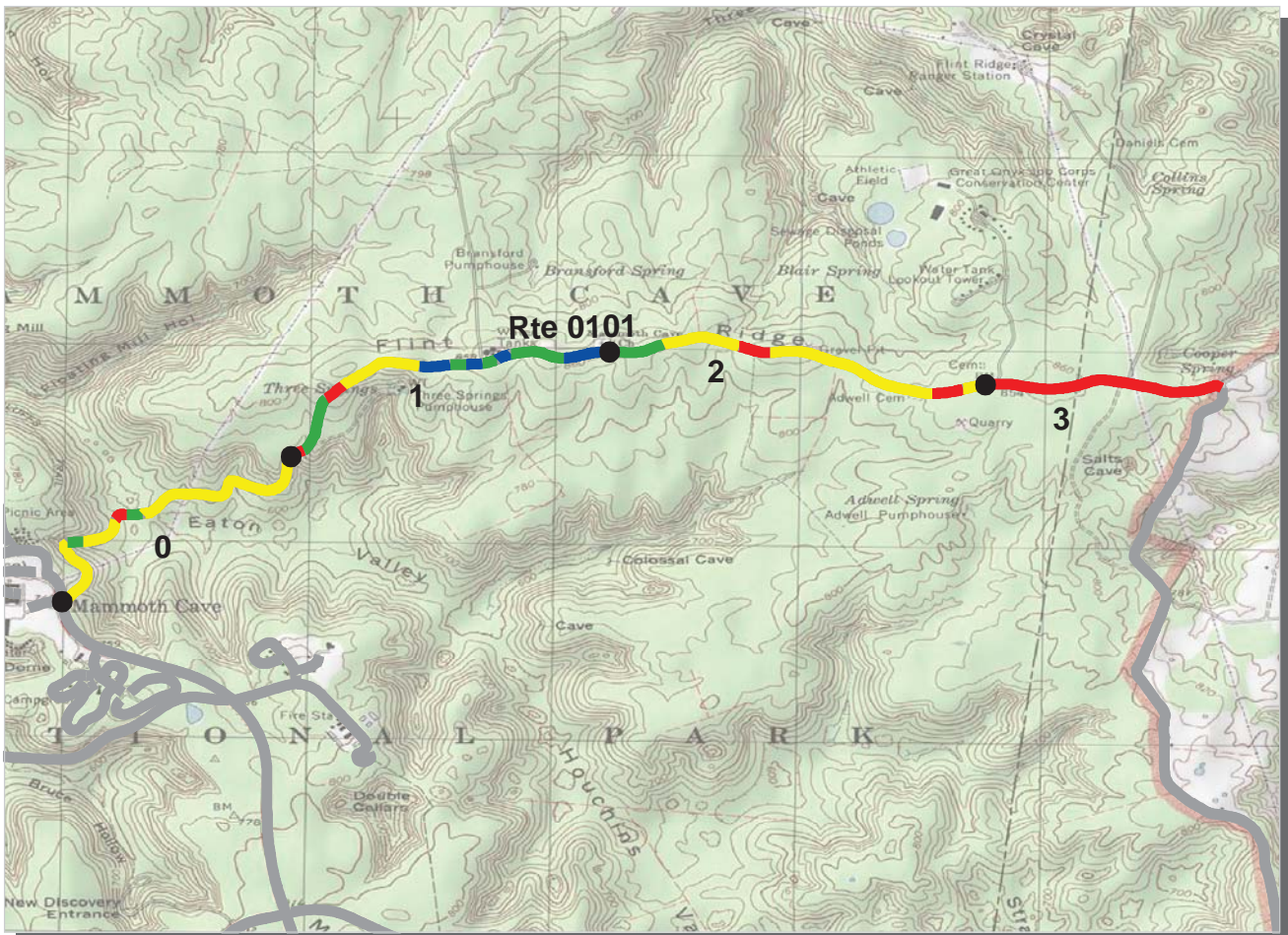
Southeast Region
MACA : Mammoth Cave National Park

ROUTE: 0020 Park City Road **TOTAL LENGTH: 2.22 Miles**

Section Number	0	1	2		
Section Length (mi)	1.00	1.00	0.22		
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2		
Paved Width (ft)	22	23	24		
Lane Width (ft)	11	11	10		
Shoulder Width (ft)	4	4	8		
Roadway Condition Information					
PCR (Pavement Condition Rating)	38	40	62		
RCI (Roughness Condition Index)	78	79	94		
SCR (Surface Condition Rating)	11	14	41		
Alligator Cracking Index	75	53	84		
Rutting Index	60	58	72		
Patching Index	95	99	100		
Transverse Cracking Index	70	78	96		
Longitudinal Cracking Index	81	79	81		
Shoulder Condition Rating	GOOD	GOOD	GOOD		
Drainage Condition Rating	GOOD	GOOD	GOOD		

ROUTE: 0020 Park City Road

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



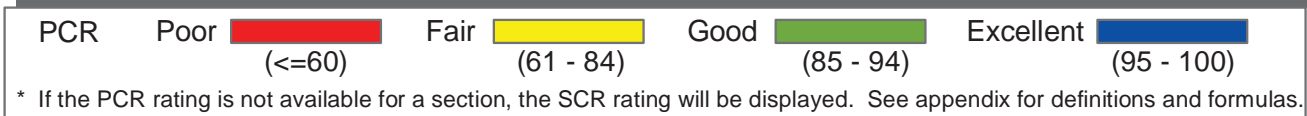
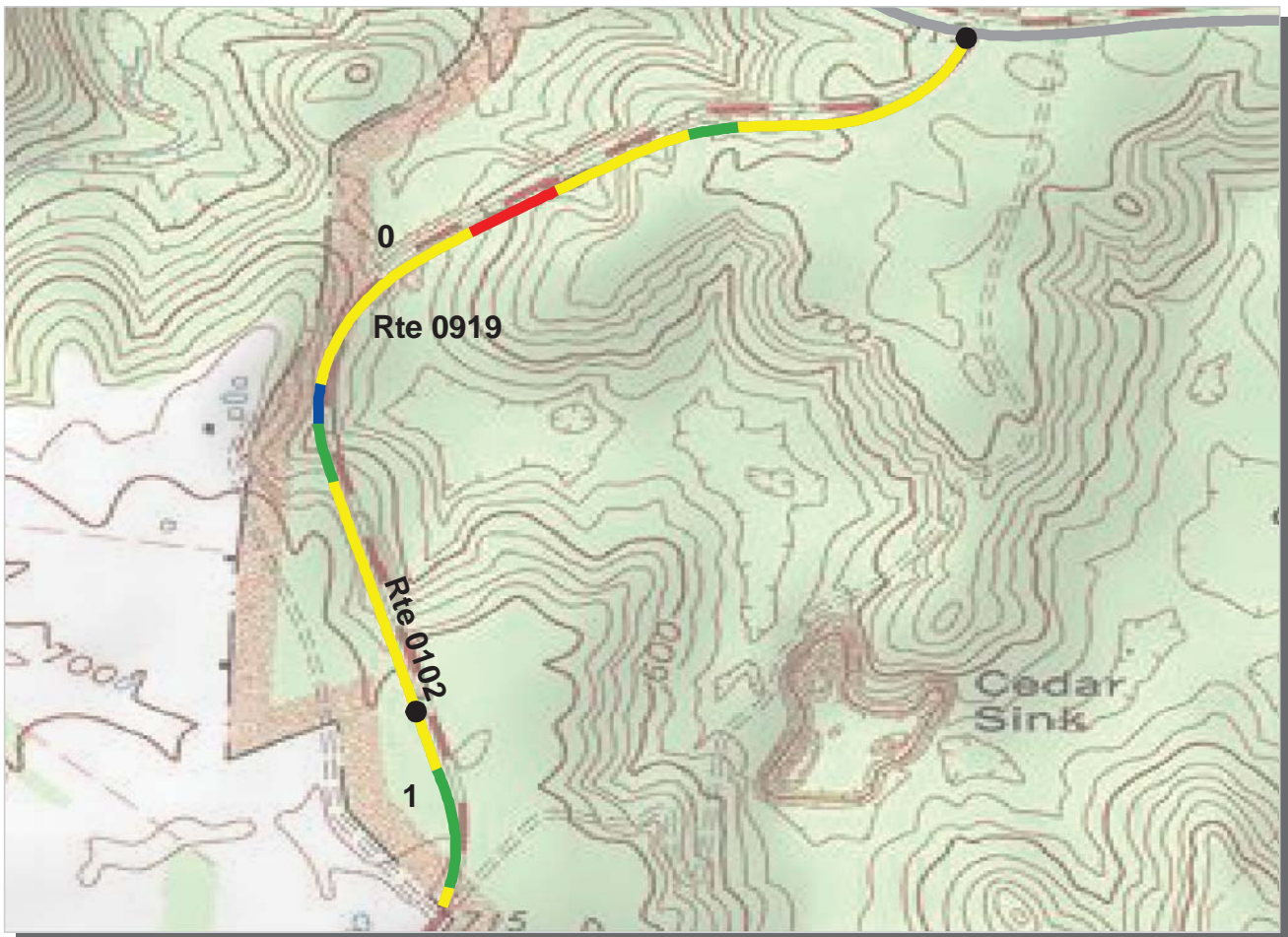
Southeast Region
MACA : Mammoth Cave National Park

ROUTE: 0101 Flint Ridge Road **TOTAL LENGTH: 3.61 Miles**

Section Number	0	1	2	3
Section Length (mi)	1.00	1.00	1.00	0.61
AADT	**			
SADT	**			
ADT Date	**			
Cross Section Information				
Number of Lanes	2	2	2	2
Paved Width (ft)	18	19	18	19
Lane Width (ft)	9	9	9	9
Shoulder Width (ft)	5	5	0	0
Roadway Condition Information				
PCR (Pavement Condition Rating)	70	83	68	39
RCI (Roughness Condition Index)	77	87	87	46
SCR (Surface Condition Rating)	64	79	56	34
Alligator Cracking Index	86	97	86	86
Rutting Index	85	90	74	46
Patching Index	99	99	99	99
Transverse Cracking Index	99	99	99	99
Longitudinal Cracking Index	93	92	94	98
Shoulder Condition Rating	GOOD	GOOD	N/A	N/A
Drainage Condition Rating	GOOD	GOOD	GOOD	GOOD

ROUTE: 0101 Flint Ridge Road

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



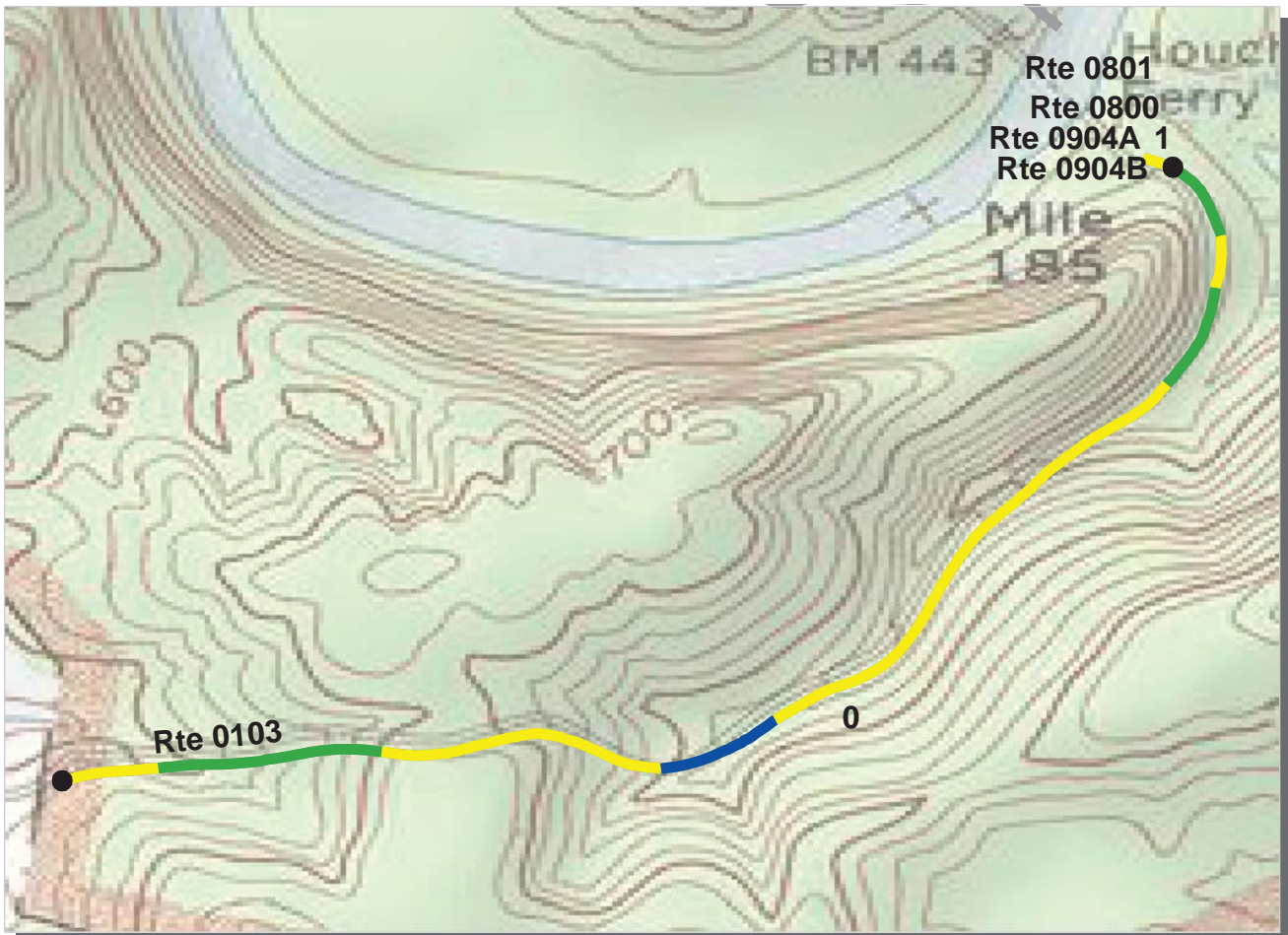
Southeast Region
MACA : Mammoth Cave National Park

ROUTE: 0102 CEDAR SINK ROAD **TOTAL LENGTH: 1.22 Miles**

Section Number	0	1			
Section Length (mi)	1.00	0.22			
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	20	20			
Lane Width (ft)	10	10			
Shoulder Width (ft)	6	6			
Roadway Condition Information					
PCR (Pavement Condition Rating)	76	85			
RCI (Roughness Condition Index)	68	85			
SCR (Surface Condition Rating)	81	85			
Alligator Cracking Index	97	100			
Rutting Index	87	88			
Patching Index	98	100			
Transverse Cracking Index	99	98			
Longitudinal Cracking Index	98	99			
Shoulder Condition Rating	GOOD	GOOD			
Drainage Condition Rating	GOOD	GOOD			

ROUTE: 0102 CEDAR SINK ROAD

* NC designates data not collected N/A designates not applicable
 ** See website for traffic data: <http://www.epl.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.

Southeast Region

MACA : Mammoth Cave National Park

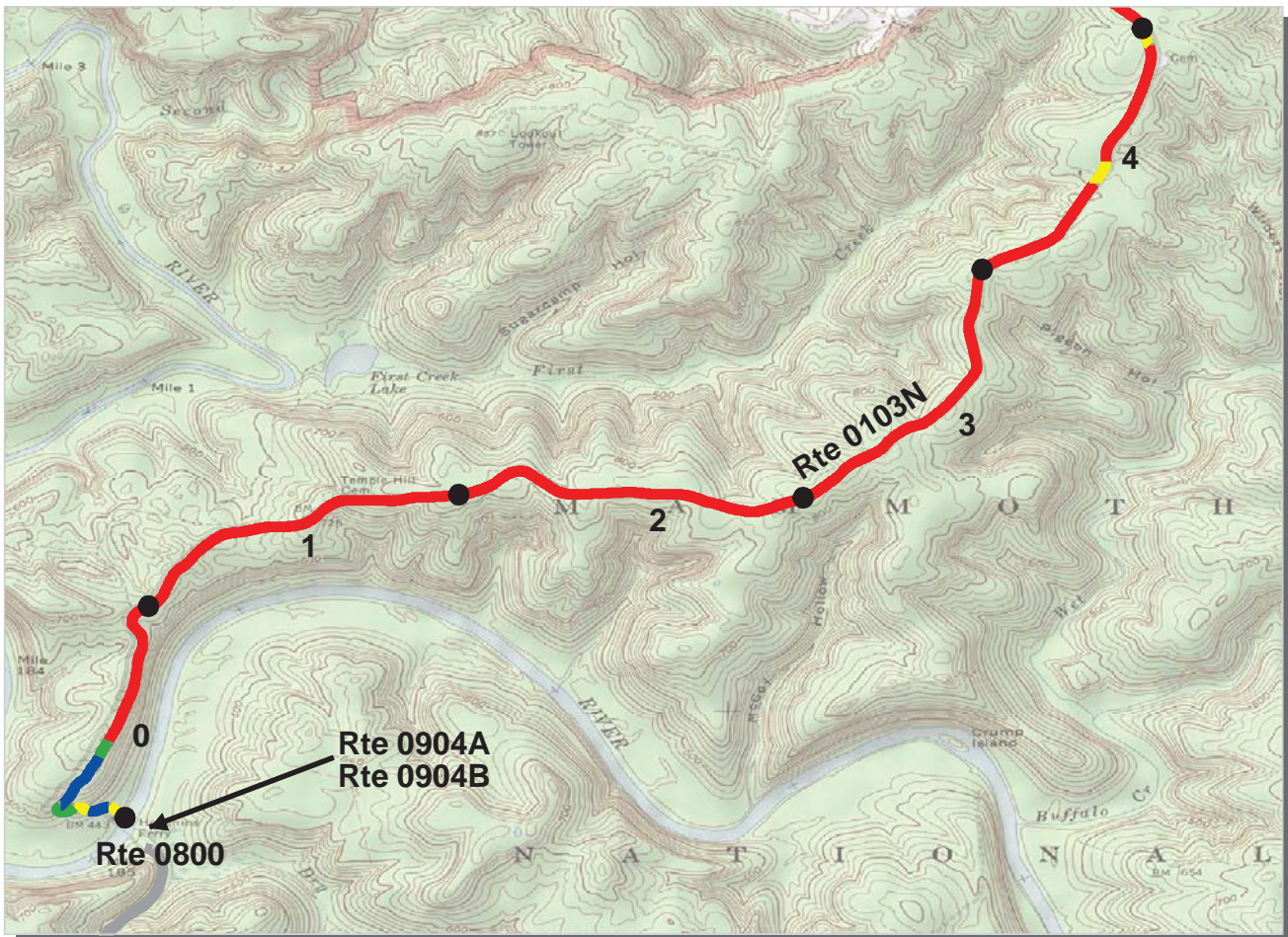
ROUTE: 0103 HOUCHINS FERRY ROAD SOUTH

TOTAL LENGTH: 1.03 Miles

Section Number	0	1			
Section Length (mi)	1.00	0.03			
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	17	17			
Lane Width (ft)	9	9			
Shoulder Width (ft)	0	0			
Roadway Condition Information					
PCR (Pavement Condition Rating)	84	90			
RCI (Roughness Condition Index)	68	-1			
SCR (Surface Condition Rating)	95	90			
Alligator Cracking Index	100	100			
Rutting Index	95	90			
Patching Index	100	100			
Transverse Cracking Index	100	100			
Longitudinal Cracking Index	100	100			
Shoulder Condition Rating	N/A	N/A			
Drainage Condition Rating	GOOD	GOOD			

ROUTE: 0103 HOUCHINS FERRY ROAD SOUTH

* NC designates data not collected N/A 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.

Southeast Region

MACA : Mammoth Cave National Park

ROUTE: 0103N HOUCHINS FERRY ROAD NORTH

TOTAL LENGTH: 5.33 Miles

Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1	1	1	1	1
Paved Width (ft)	15	11	11	11	11
Lane Width (ft)	15	11	11	11	11
Shoulder Width (ft)	0	0	0	0	0
Roadway Condition Information					
PCR (Pavement Condition Rating)	64	38	30	37	51
RCI (Roughness Condition Index)	53	47	55	53	56
SCR (Surface Condition Rating)	65	36	21	30	48
Alligator Cracking Index	100	100	100	100	100
Rutting Index	65	36	21	30	48
Patching Index	100	100	100	100	100
Transverse Cracking Index	99	100	100	100	100
Longitudinal Cracking Index	100	100	100	100	100
Shoulder Condition Rating	N/A	N/A	N/A	N/A	N/A
Drainage Condition Rating	GOOD	GOOD	N/C	N/C	N/C

ROUTE: 0103N HOUCHINS FERRY ROAD NORTH

* NC designates data not collected N/A 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.

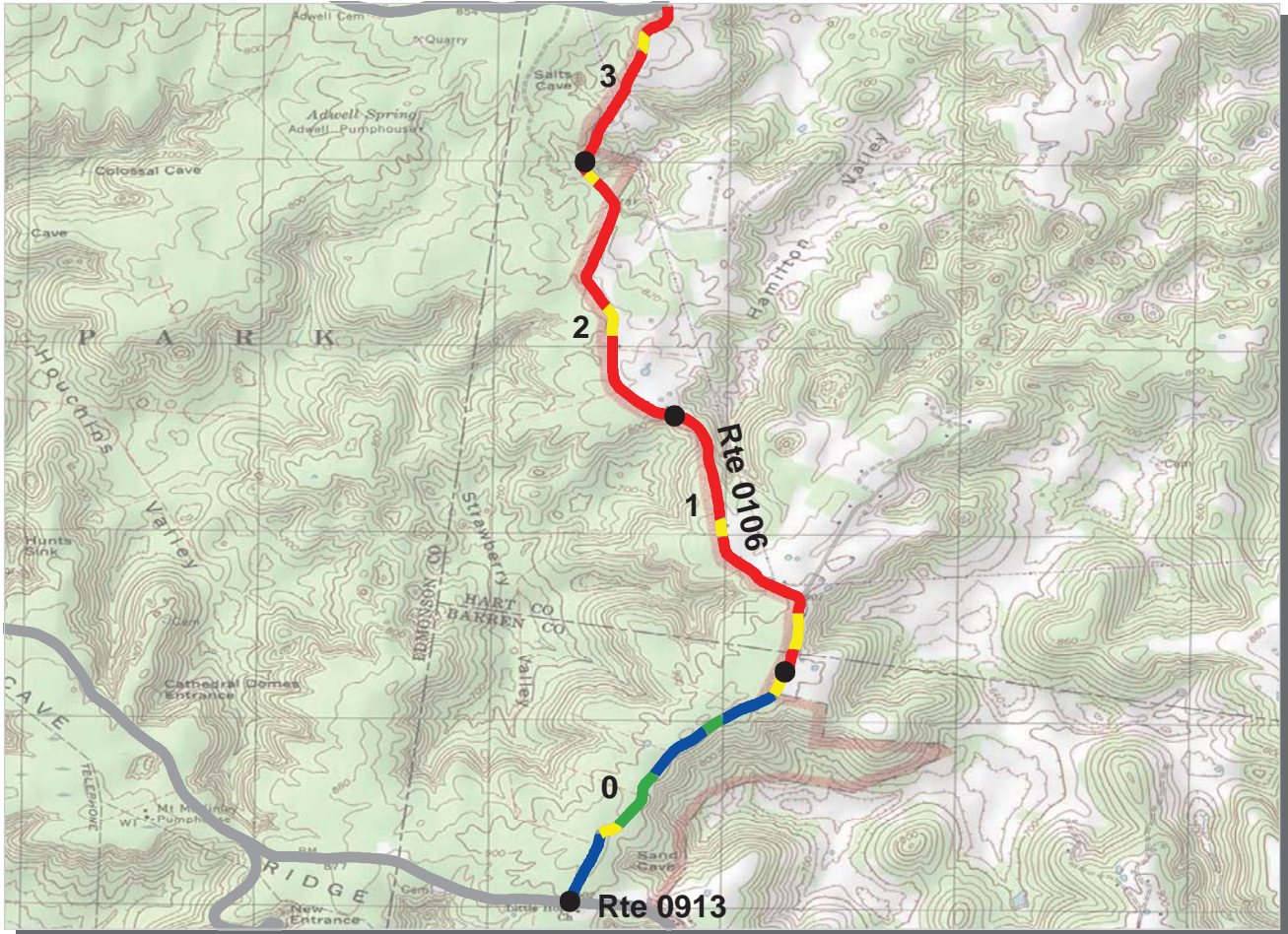
Southeast Region
MACA : Mammoth Cave National Park

ROUTE: 0103N HOUCHINS FERRY ROAD NORTH TOTAL LENGTH: 5.33 Miles

Section Number	5				
Section Length (mi)	0.33				
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)	54				
RCI (Roughness Condition Index)	58				
SCR (Surface Condition Rating)	54				
Alligator Cracking Index	100				
Rutting Index	54				
Patching Index	100				
Transverse Cracking Index	100				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	N/C				

ROUTE: 0103N HOUCHINS FERRY ROAD NORTH

* NC designates data not collected N/A 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.

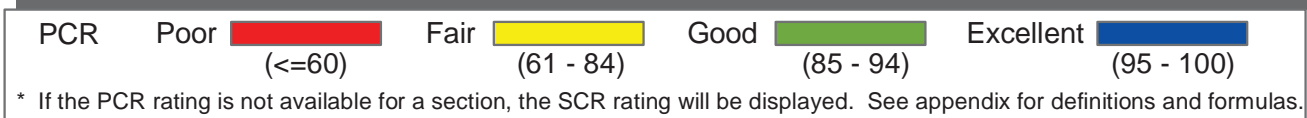
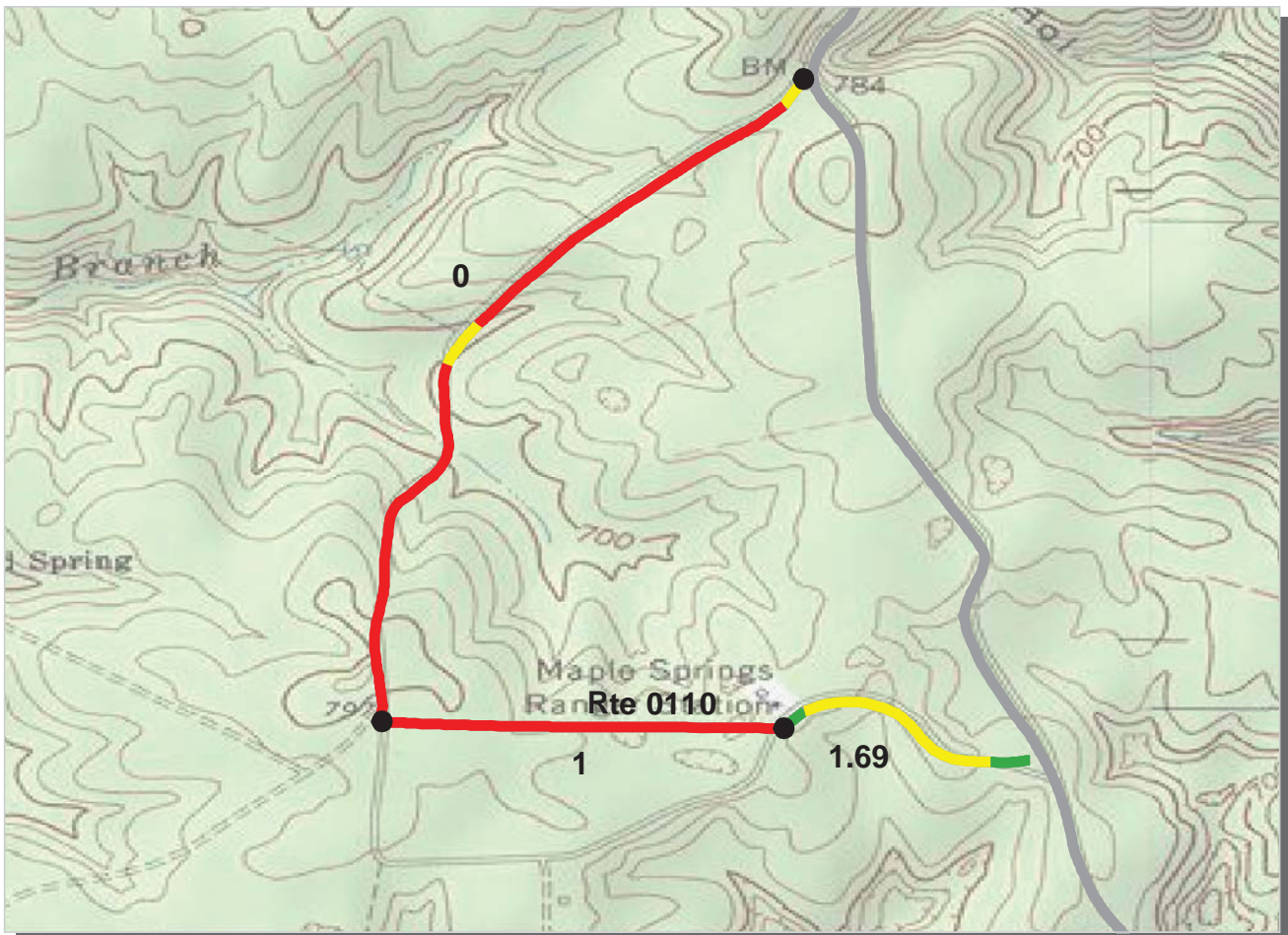
Southeast Region
MACA : Mammoth Cave National Park

ROUTE: 0106 PARK RIDGE ROAD **TOTAL LENGTH: 3.60 Miles**

Section Number	0	1	2	3	
Section Length (mi)	1.00	1.00	1.00	0.60	
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	1	1	1	
Paved Width (ft)	16	14	12	10	
Lane Width (ft)	8	14	12	10	
Shoulder Width (ft)	0	0	0	0	
Roadway Condition Information					
PCR (Pavement Condition Rating)	88	45	47	47	
RCI (Roughness Condition Index)	81	53	60	45	
SCR (Surface Condition Rating)	93	43	43	49	
Alligator Cracking Index	99	98	99	98	
Rutting Index	94	48	48	52	
Patching Index	99	97	95	99	
Transverse Cracking Index	99	99	99	99	
Longitudinal Cracking Index	99	99	99	98	
Shoulder Condition Rating	N/A	N/A	N/A	N/A	
Drainage Condition Rating	GOOD	GOOD	GOOD	GOOD	

ROUTE: 0106 PARK RIDGE ROAD

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



Southeast Region
MACA : Mammoth Cave National Park

ROUTE: 0110 MAPLE SPRINGS LOOP **TOTAL LENGTH: 1.33 Miles**

	0	1	1.69		
Section Number	0	1	1.69		
Section Length (mi)	1.00	0.02	0.31		
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1	1	2		
Paved Width (ft)	12	12	23		
Lane Width (ft)	12	12	11		
Shoulder Width (ft)	0	0	4		
Roadway Condition Information					
PCR (Pavement Condition Rating)	44	9	76		
RCI (Roughness Condition Index)	47	-1	65		
SCR (Surface Condition Rating)	45	9	80		
Alligator Cracking Index	87	46	100		
Rutting Index	56	63	80		
Patching Index	99	100	100		
Transverse Cracking Index	99	100	100		
Longitudinal Cracking Index	99	100	100		
Shoulder Condition Rating	N/A	N/A	GOOD		
Drainage Condition Rating	GOOD	GOOD	GOOD		

ROUTE: 0110 MAPLE SPRINGS LOOP

* NC designates data not collected N/A 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.

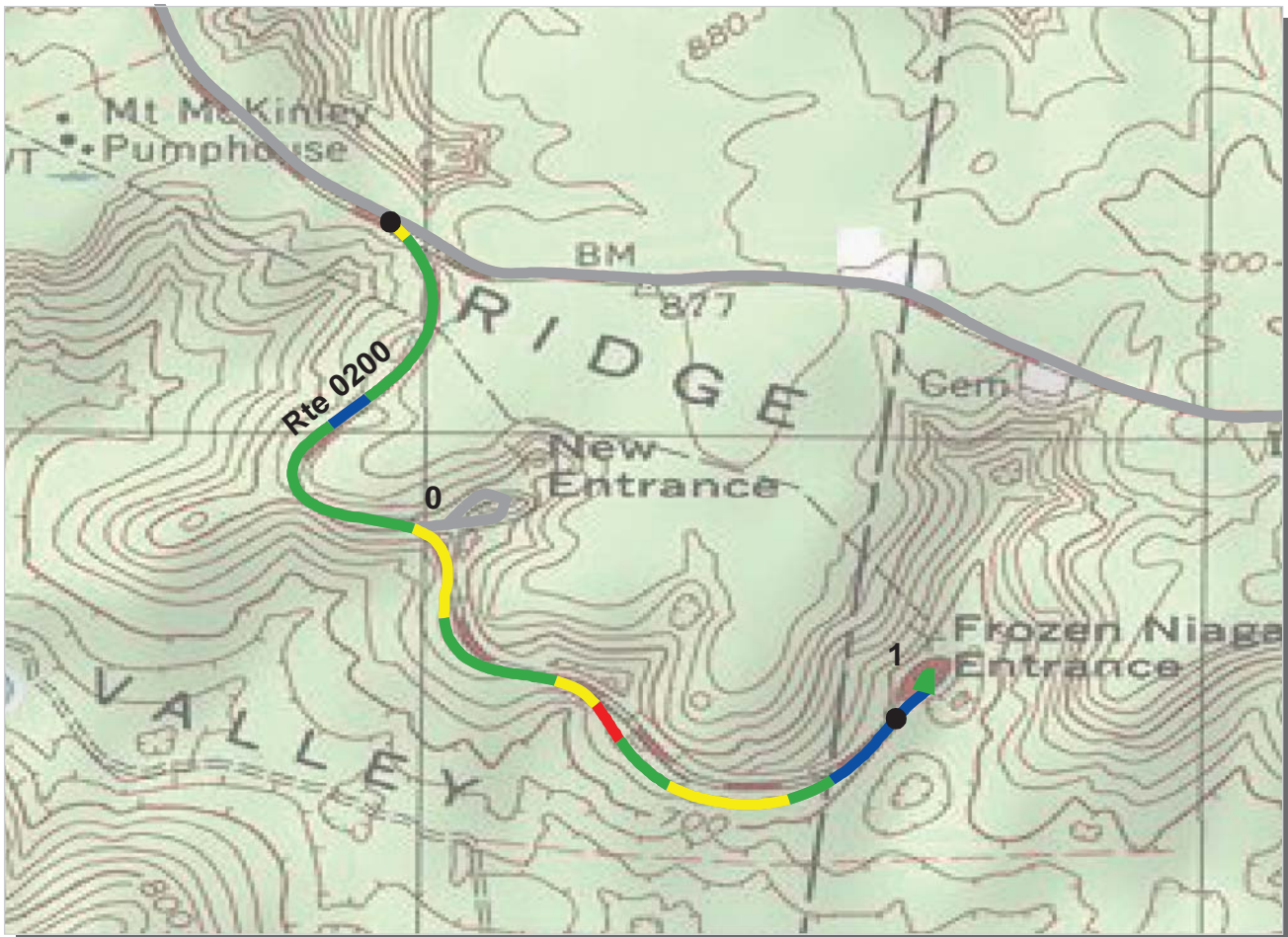
Southeast Region
MACA : Mammoth Cave National Park

ROUTE: 0115 OLLIE RIDGE RD (GREAT ONYX JOB CORP CENTER) TOTAL LENGTH: 0.30 Miles

Section Number	0				
Section Length (mi)	0.30				
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)	90				
RCI (Roughness Condition Index)	92				
SCR (Surface Condition Rating)	88				
Alligator Cracking Index	93				
Rutting Index	96				
Patching Index	100				
Transverse Cracking Index	99				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0115 OLLIE RIDGE RD (GREAT ONYX JOB CORP CENTER)

* NC designates data not collected N/A 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.

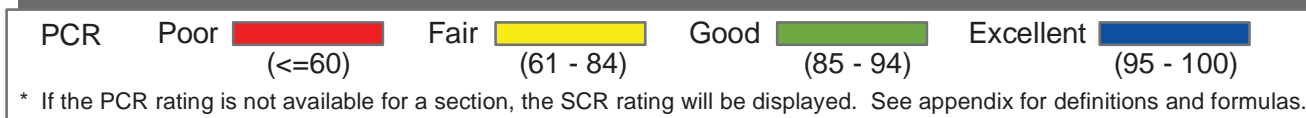
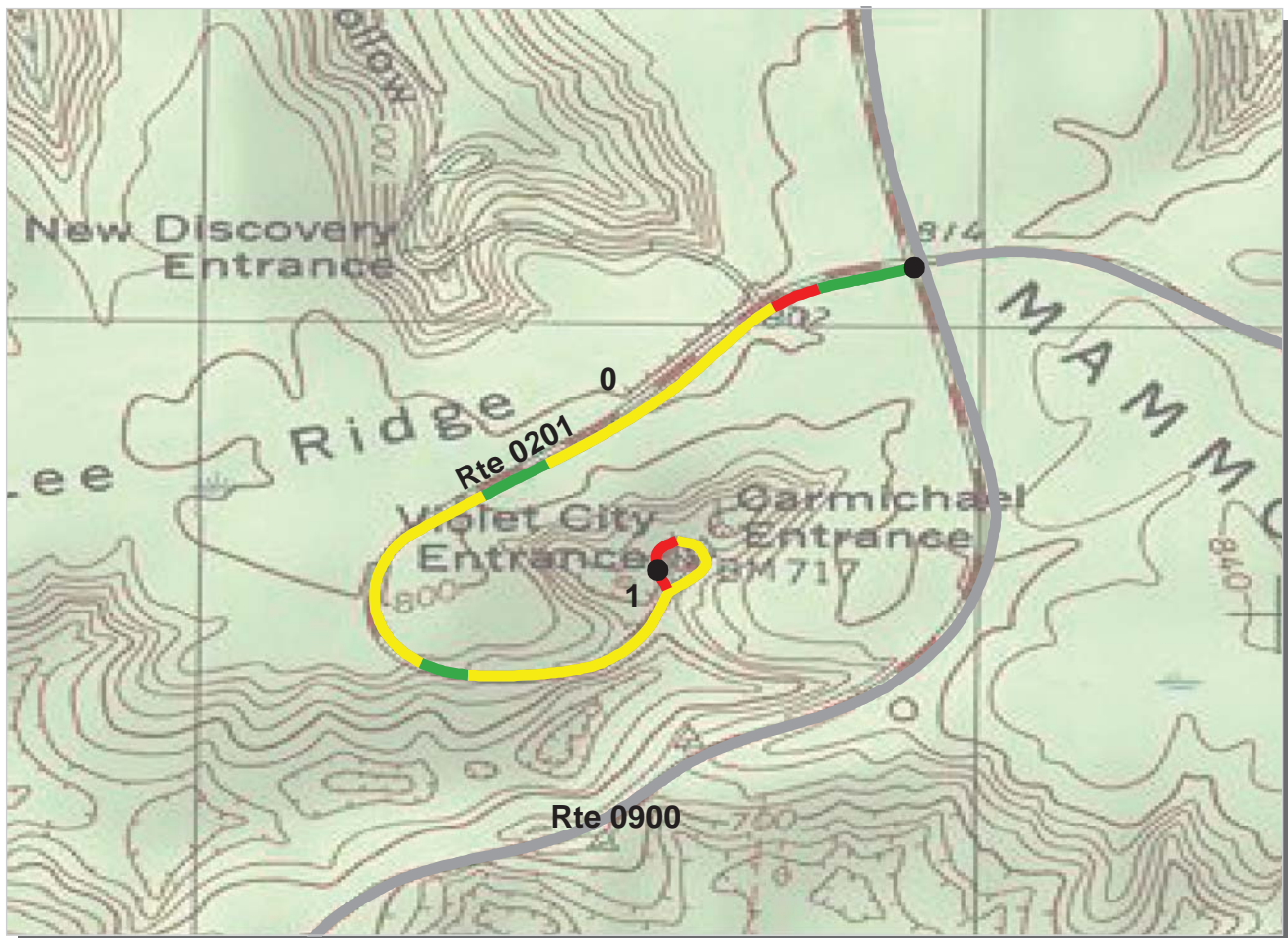
Southeast Region
MACA : Mammoth Cave National Park

ROUTE: 0200 FROZEN NIAGARA ENTRANCE ROAD **TOTAL LENGTH: 1.09 Miles**

Section Number	0	1			
Section Length (mi)	1.00	0.09			
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	20	20			
Lane Width (ft)	10	10			
Shoulder Width (ft)	5	5			
Roadway Condition Information					
PCR (Pavement Condition Rating)	81	89			
RCI (Roughness Condition Index)	91	100			
SCR (Surface Condition Rating)	75	89			
Alligator Cracking Index	91	100			
Rutting Index	85	94			
Patching Index	100	100			
Transverse Cracking Index	99	98			
Longitudinal Cracking Index	98	96			
Shoulder Condition Rating	GOOD	GOOD			
Drainage Condition Rating	GOOD	GOOD			

ROUTE: 0200 FROZEN NIAGARA ENTRANCE ROAD

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



Southeast Region

MACA : Mammoth Cave National Park

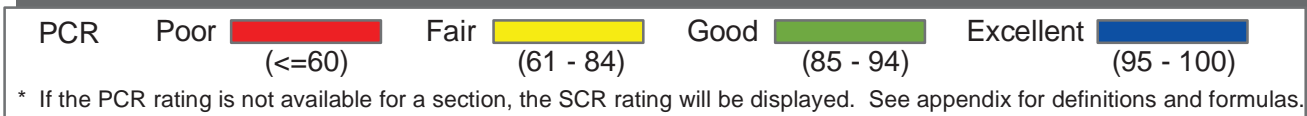
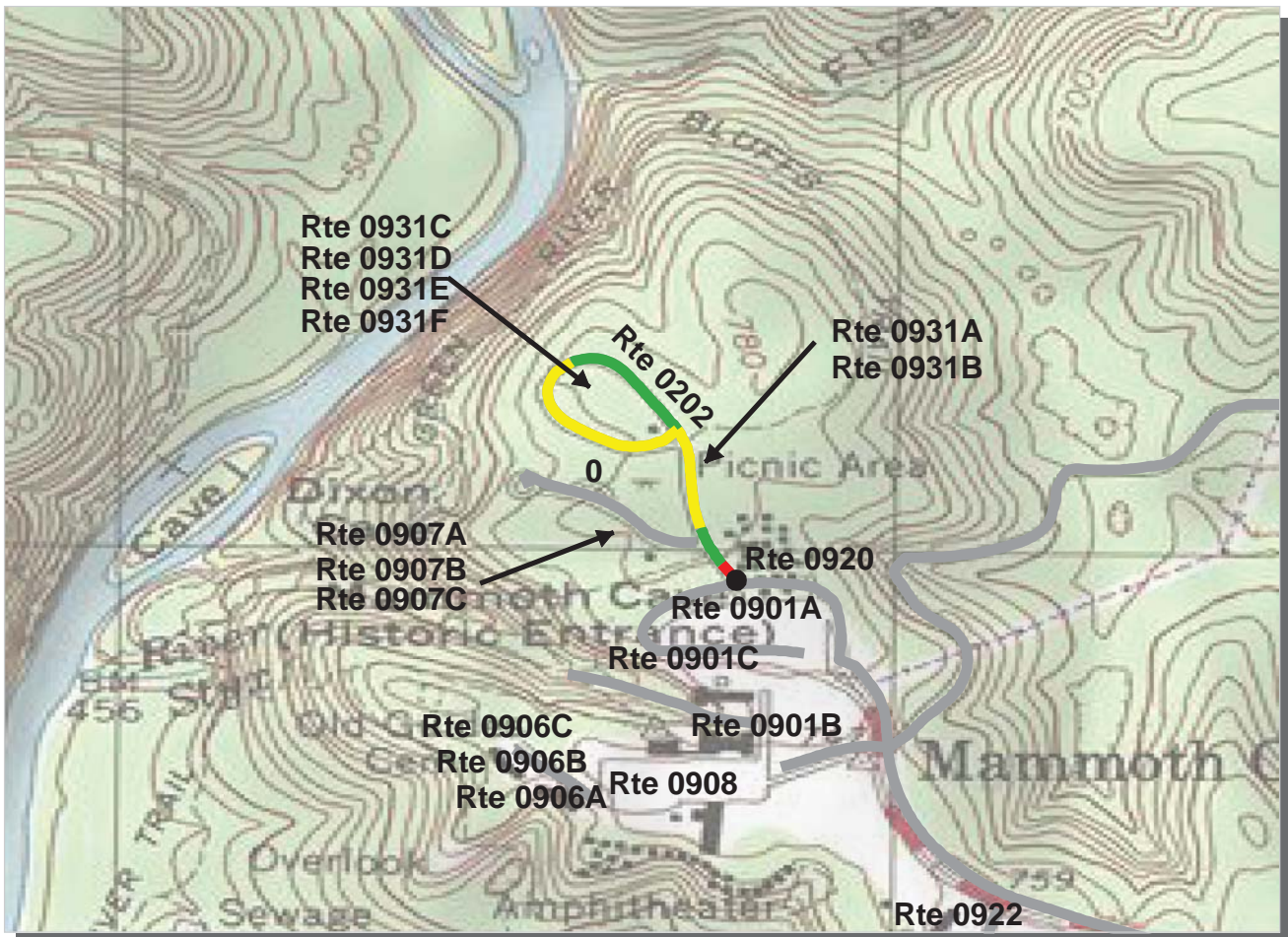
ROUTE: 0201 CARMICHAEL ENTRANCE ROAD

TOTAL LENGTH: 1.03 Miles

Section Number	0	1			
Section Length (mi)	1.00	0.03			
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	19	18			
Lane Width (ft)	9	9			
Shoulder Width (ft)	7	7			
Roadway Condition Information					
PCR (Pavement Condition Rating)	71	55			
RCI (Roughness Condition Index)	64	29			
SCR (Surface Condition Rating)	74	72			
Alligator Cracking Index	94	100			
Rutting Index	82	72			
Patching Index	100	100			
Transverse Cracking Index	98	100			
Longitudinal Cracking Index	98	100			
Shoulder Condition Rating	GOOD	GOOD			
Drainage Condition Rating	GOOD	GOOD			

ROUTE: 0201 CARMICHAEL ENTRANCE ROAD

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



Southeast Region

MACA : Mammoth Cave National Park

ROUTE: 0202 PICNIC GROUNDS ROAD

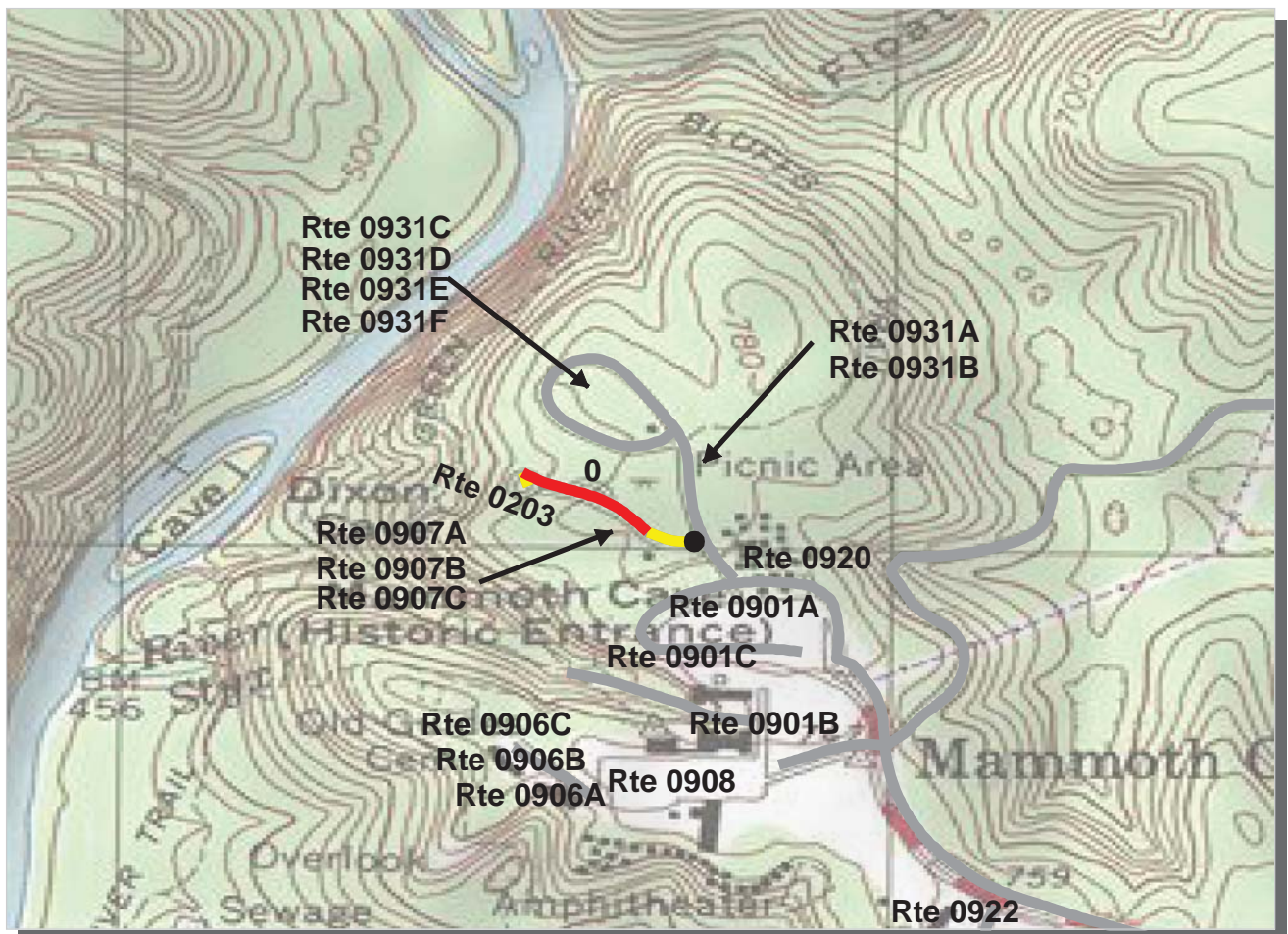
TOTAL LENGTH: 0.45 Miles

Section Number	0				
Section Length (mi)	0.45				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	18				
Lane Width (ft)	9				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	78				
RCI (Roughness Condition Index)	67				
SCR (Surface Condition Rating)	85				
Alligator Cracking Index	99				
Rutting Index	87				
Patching Index	99				
Transverse Cracking Index	99				
Longitudinal Cracking Index	98				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0202 PICNIC GROUNDS ROAD

* NC designates data not collected N/A 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.

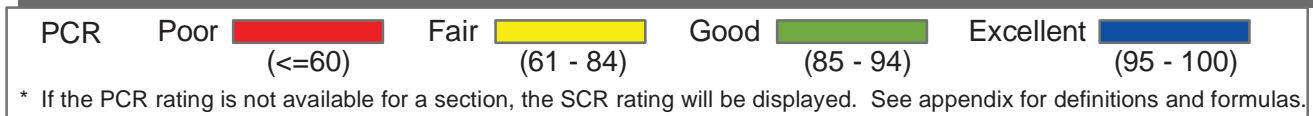
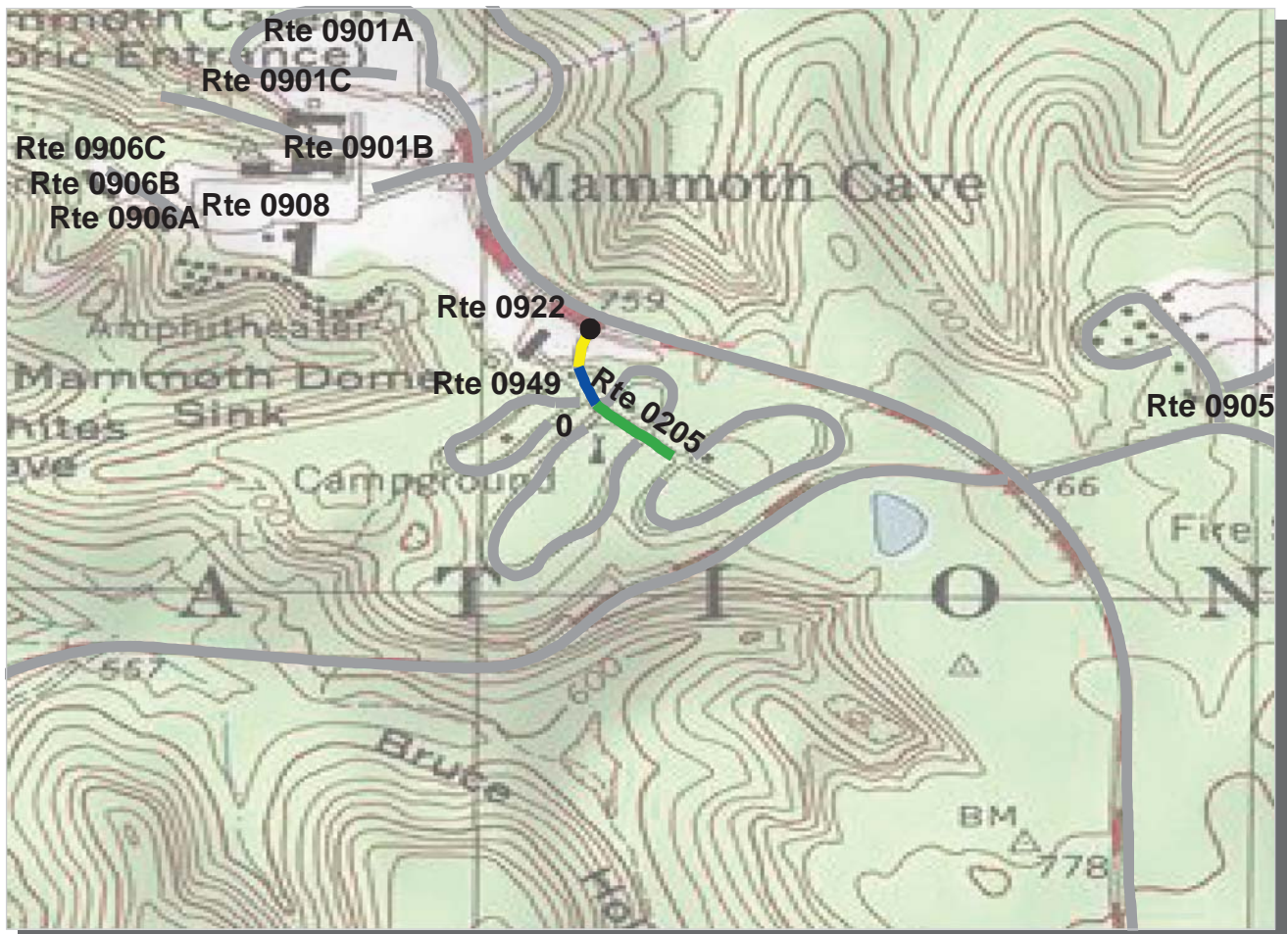
Southeast Region
MACA : Mammoth Cave National Park

ROUTE: 0203 PICNIC SHELTER ROAD **TOTAL LENGTH: 0.19 Miles**

Section Number	0			
Section Length (mi)	0.19			
AADT	**			
SADT	**			
ADT Date	**			
Cross Section Information				
Number of Lanes	2			
Paved Width (ft)	17			
Lane Width (ft)	8			
Shoulder Width (ft)	6			
Roadway Condition Information				
PCR (Pavement Condition Rating)	47			
RCI (Roughness Condition Index)	43			
SCR (Surface Condition Rating)	48			
Alligator Cracking Index	100			
Rutting Index	50			
Patching Index	99			
Transverse Cracking Index	99			
Longitudinal Cracking Index	99			
Shoulder Condition Rating	GOOD			
Drainage Condition Rating	GOOD			

ROUTE: 0203 PICNIC SHELTER ROAD

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



Southeast Region

MACA : Mammoth Cave National Park

ROUTE: 0205 CAMPGROUND ACCESS ROAD

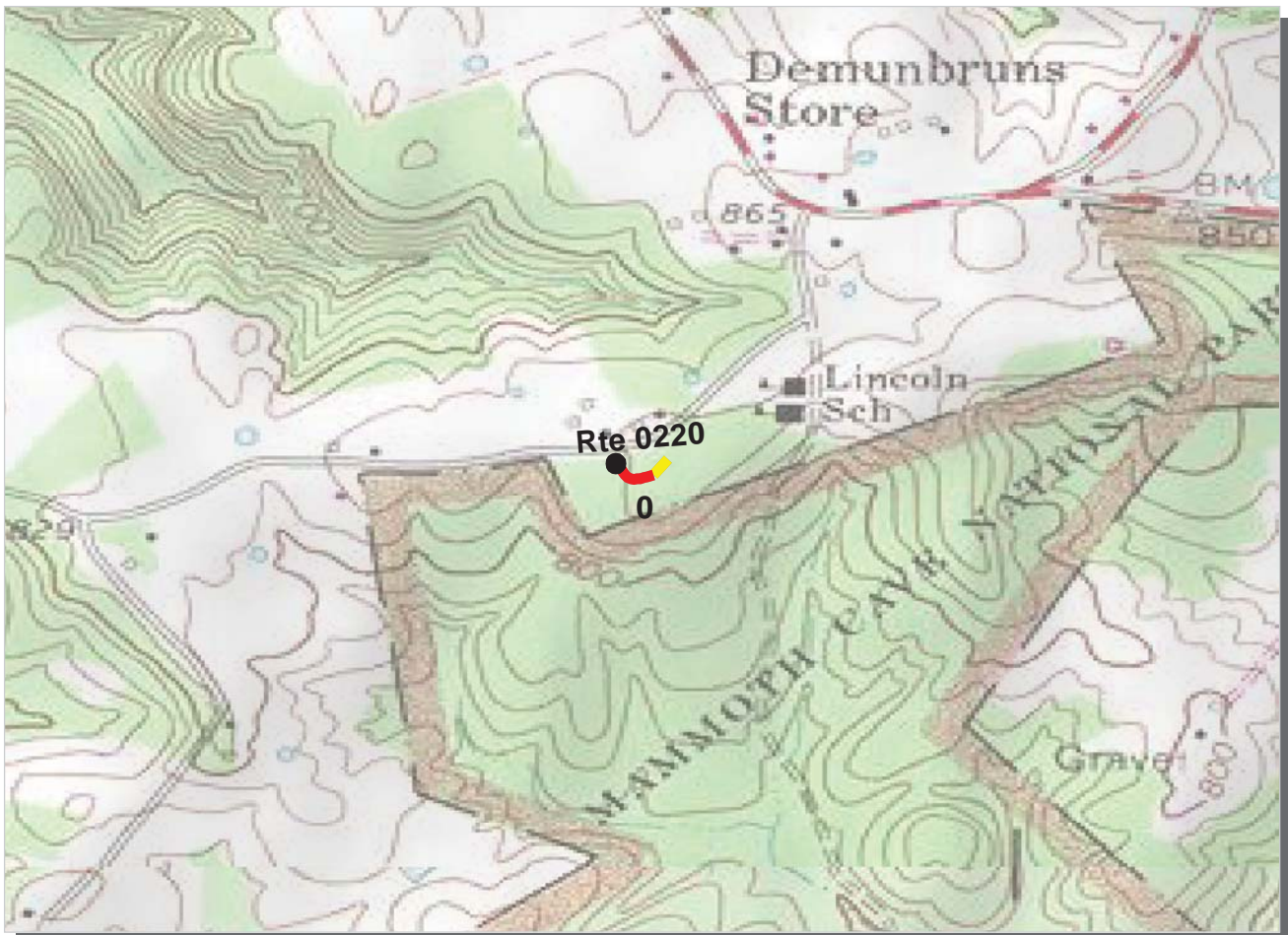
TOTAL LENGTH: 0.18 Miles

Section Number	0				
Section Length (mi)	0.18				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	19				
Lane Width (ft)	9				
Shoulder Width (ft)	5				
Roadway Condition Information					
PCR (Pavement Condition Rating)	90				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	90				
Alligator Cracking Index	99				
Rutting Index	92				
Patching Index	100				
Transverse Cracking Index	99				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	GOOD				
Drainage Condition Rating	GOOD				

ROUTE: 0205 CAMPGROUND ACCESS ROAD

* NC designates data not collected N/A 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.

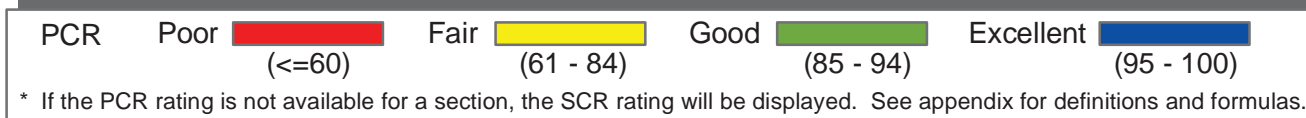
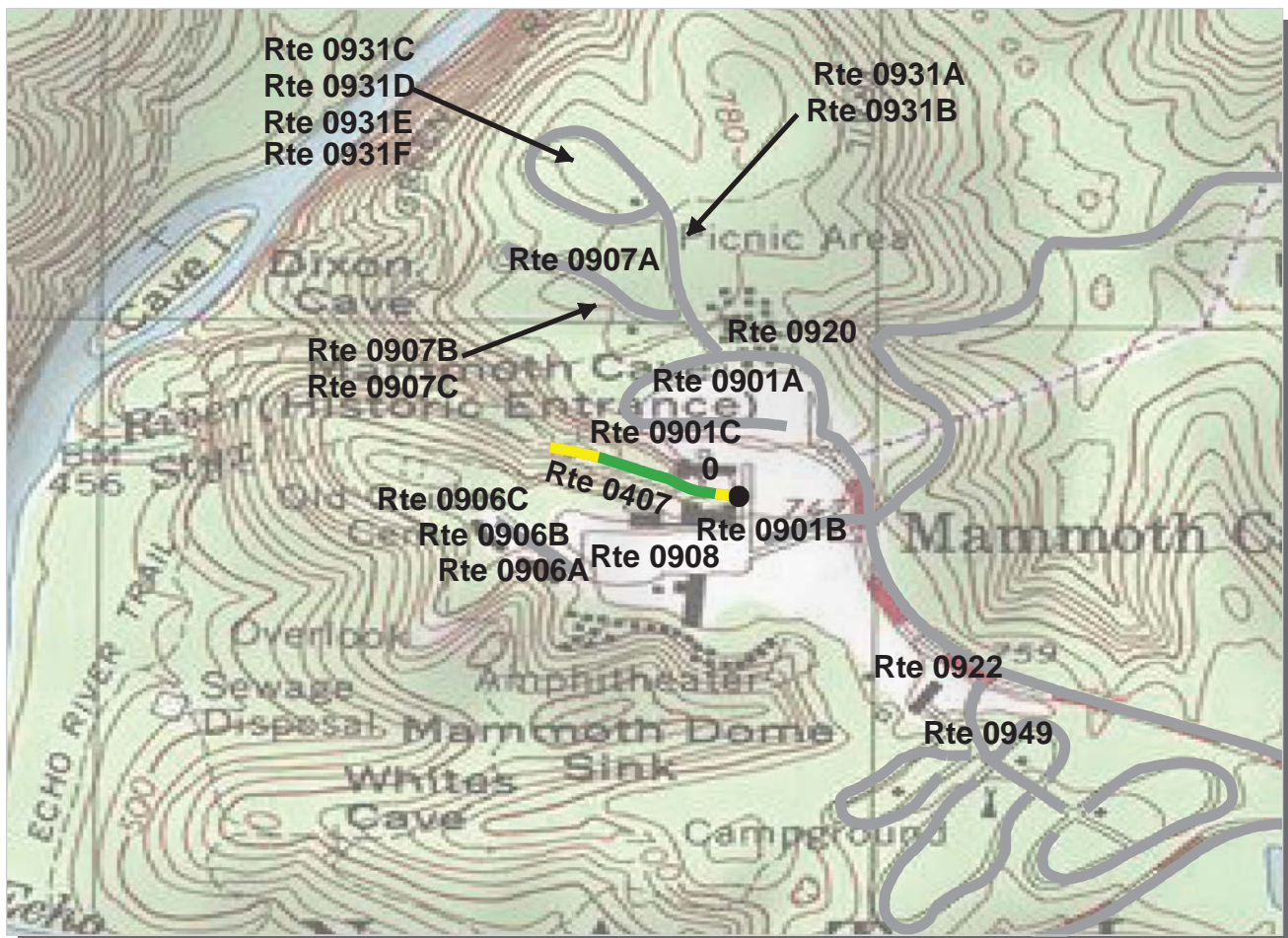
Southeast Region
MACA : Mammoth Cave National Park

ROUTE: 0220 LINCOLN LOOP TRAILHEAD ROAD TOTAL LENGTH: 0.07 Miles

Section Number	0				
Section Length (mi)	0.07				
AAADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	12				
Lane Width (ft)	12				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	59				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	59				
Alligator Cracking Index	96				
Rutting Index	62				
Patching Index	100				
Transverse Cracking Index	100				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0220 LINCOLN LOOP TRAILHEAD ROAD

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



Southeast Region

MACA : Mammoth Cave National Park

ROUTE: 0407 HISTORIC ENTRANCE ROAD

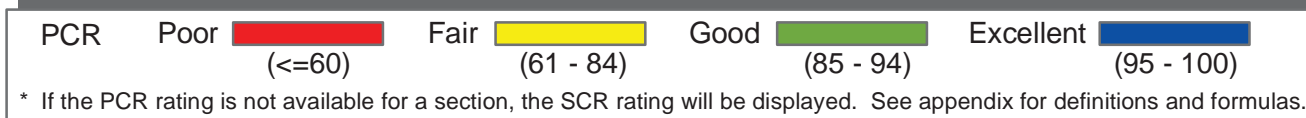
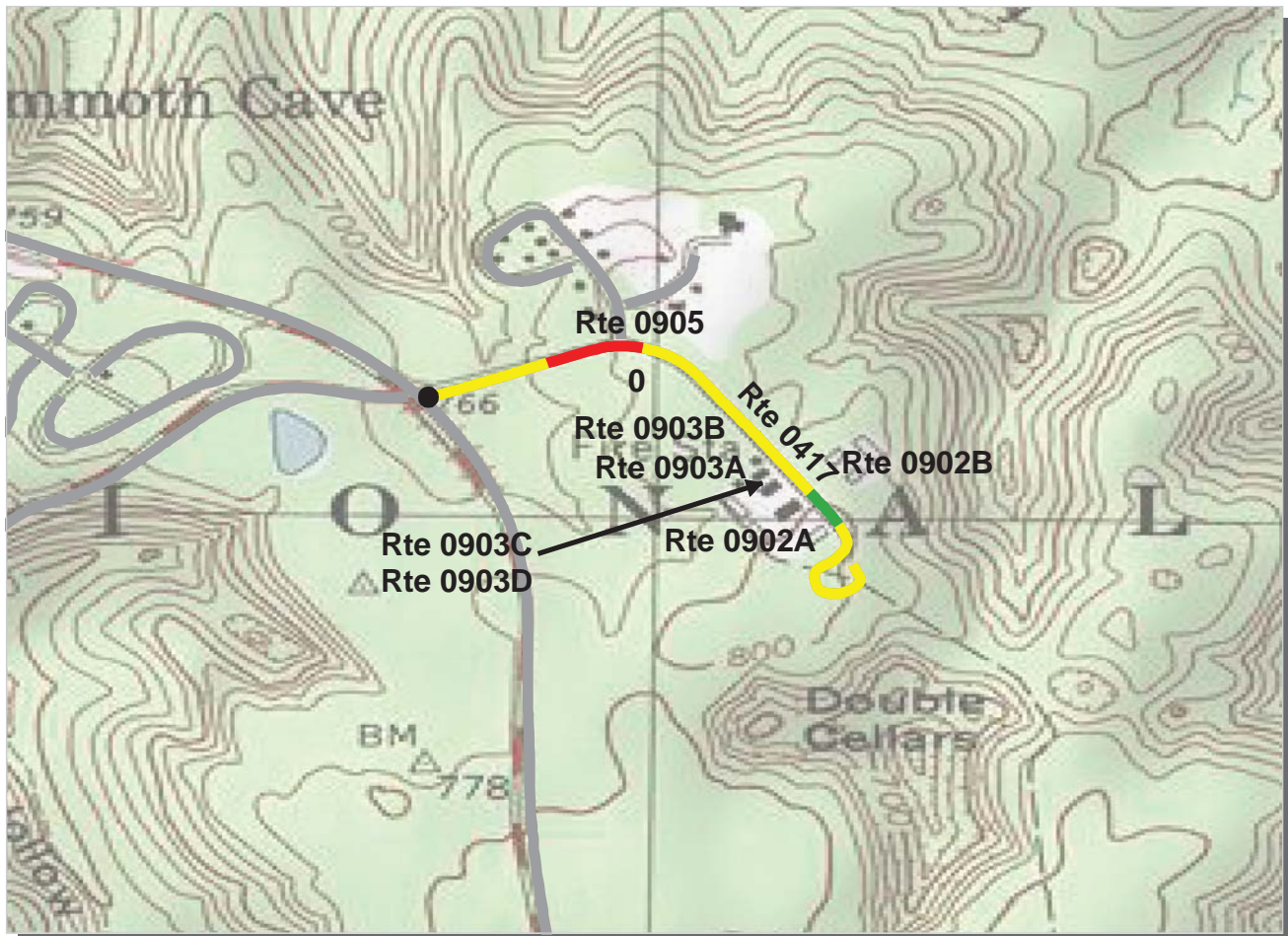
TOTAL LENGTH: 0.18 Miles

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)	74				
RCI (Roughness Condition Index)	73				
SCR (Surface Condition Rating)	74				
Alligator Cracking Index	96				
Rutting Index	80				
Patching Index	98				
Transverse Cracking Index	99				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0407 HISTORIC ENTRANCE ROAD

* NC designates data not collected N/A designates not applicable

** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



Southeast Region

MACA : Mammoth Cave National Park

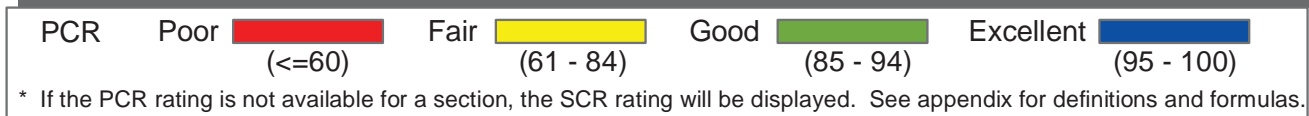
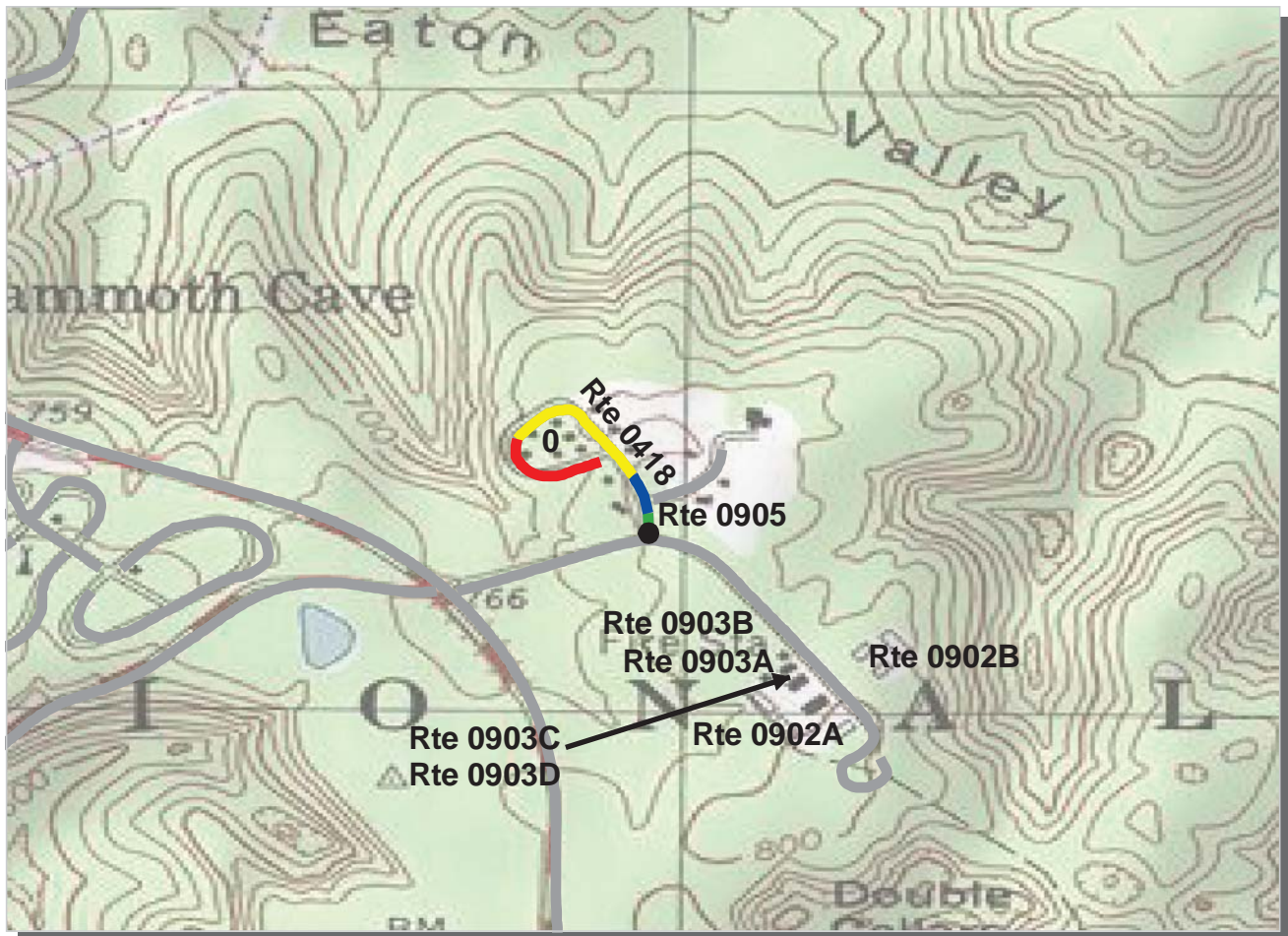
ROUTE: 0417 PARK MAINTENANCE ROAD

TOTAL LENGTH: 0.58 Miles

Section Number	0			
Section Length (mi)	0.58			
AADT	**			
SADT	**			
ADT Date	**			
Cross Section Information				
Number of Lanes	2			
Paved Width (ft)	18			
Lane Width (ft)	9			
Shoulder Width (ft)	5			
Roadway Condition Information				
PCR (Pavement Condition Rating)	74			
RCI (Roughness Condition Index)	79			
SCR (Surface Condition Rating)	72			
Alligator Cracking Index	90			
Rutting Index	84			
Patching Index	98			
Transverse Cracking Index	99			
Longitudinal Cracking Index	98			
Shoulder Condition Rating	GOOD			
Drainage Condition Rating	GOOD			

ROUTE: 0417 PARK MAINTENANCE ROAD

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



Southeast Region

MACA : Mammoth Cave National Park

ROUTE: 0418 RESIDENCE LOOP ROAD

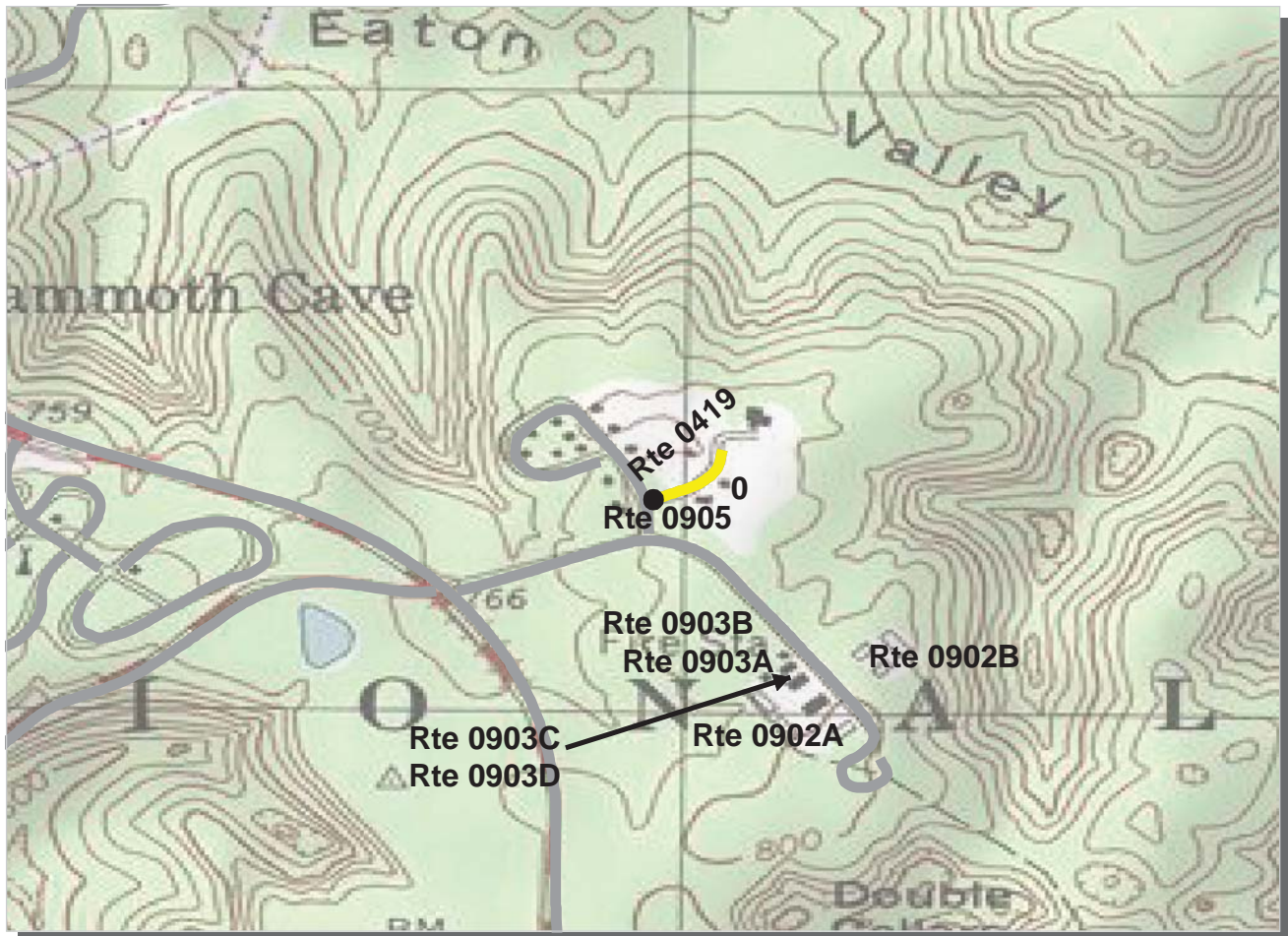
TOTAL LENGTH: 0.32 Miles

Section Number	0			
Section Length (mi)	0.32			
AADT	**			
SADT	**			
ADT Date	**			
Cross Section Information				
Number of Lanes	2			
Paved Width (ft)	17			
Lane Width (ft)	8			
Shoulder Width (ft)	5			
Roadway Condition Information				
PCR (Pavement Condition Rating)	68			
RCI (Roughness Condition Index)	55			
SCR (Surface Condition Rating)	67			
Alligator Cracking Index	97			
Rutting Index	77			
Patching Index	93			
Transverse Cracking Index	99			
Longitudinal Cracking Index	98			
Shoulder Condition Rating	GOOD			
Drainage Condition Rating	GOOD			

ROUTE: 0418 RESIDENCE LOOP ROAD

* NC designates data not collected N/A designates not applicable

** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



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

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

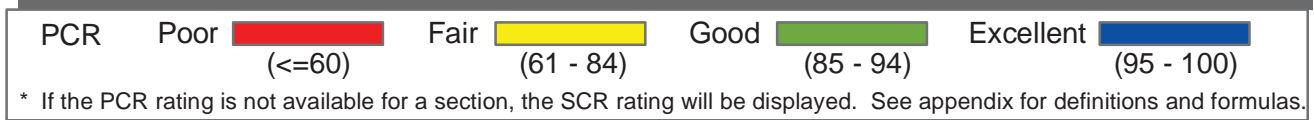
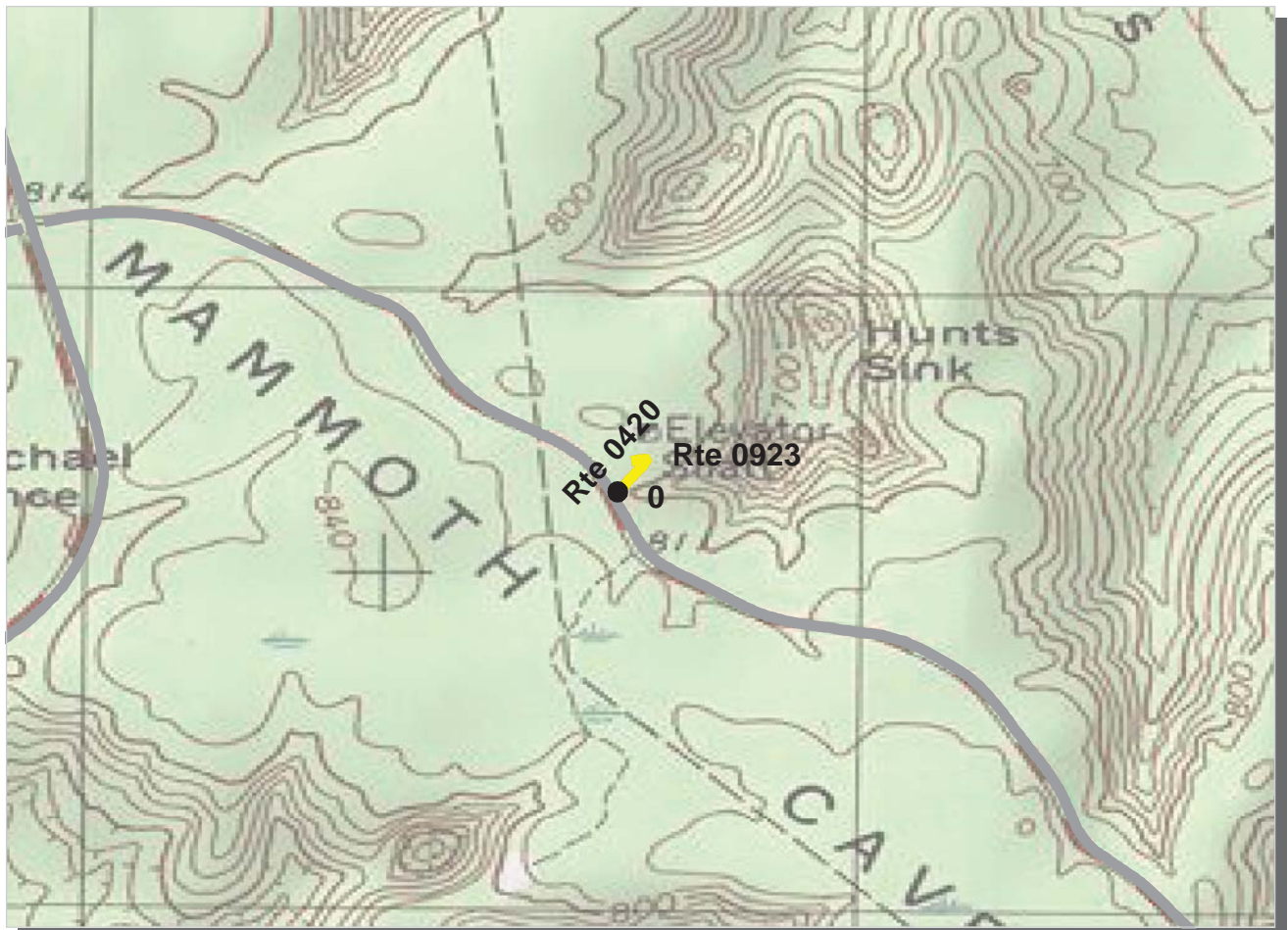
Southeast Region
MACA : Mammoth Cave National Park

ROUTE: 0419 RESIDENCE ROAD **TOTAL LENGTH: 0.10 Miles**

Section Number	0				
Section Length (mi)	0.10				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	11				
Lane Width (ft)	11				
Shoulder Width (ft)	4				
Roadway Condition Information					
PCR (Pavement Condition Rating)	53				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	53				
Alligator Cracking Index	70				
Rutting Index	81				
Patching Index	99				
Transverse Cracking Index	98				
Longitudinal Cracking Index	97				
Shoulder Condition Rating	GOOD				
Drainage Condition Rating	GOOD				

ROUTE: 0419 RESIDENCE ROAD

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



Southeast Region

MACA : Mammoth Cave National Park

ROUTE: 0420 ELEVATOR SHAFT ROAD

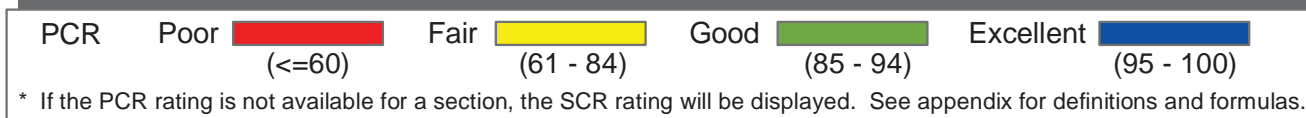
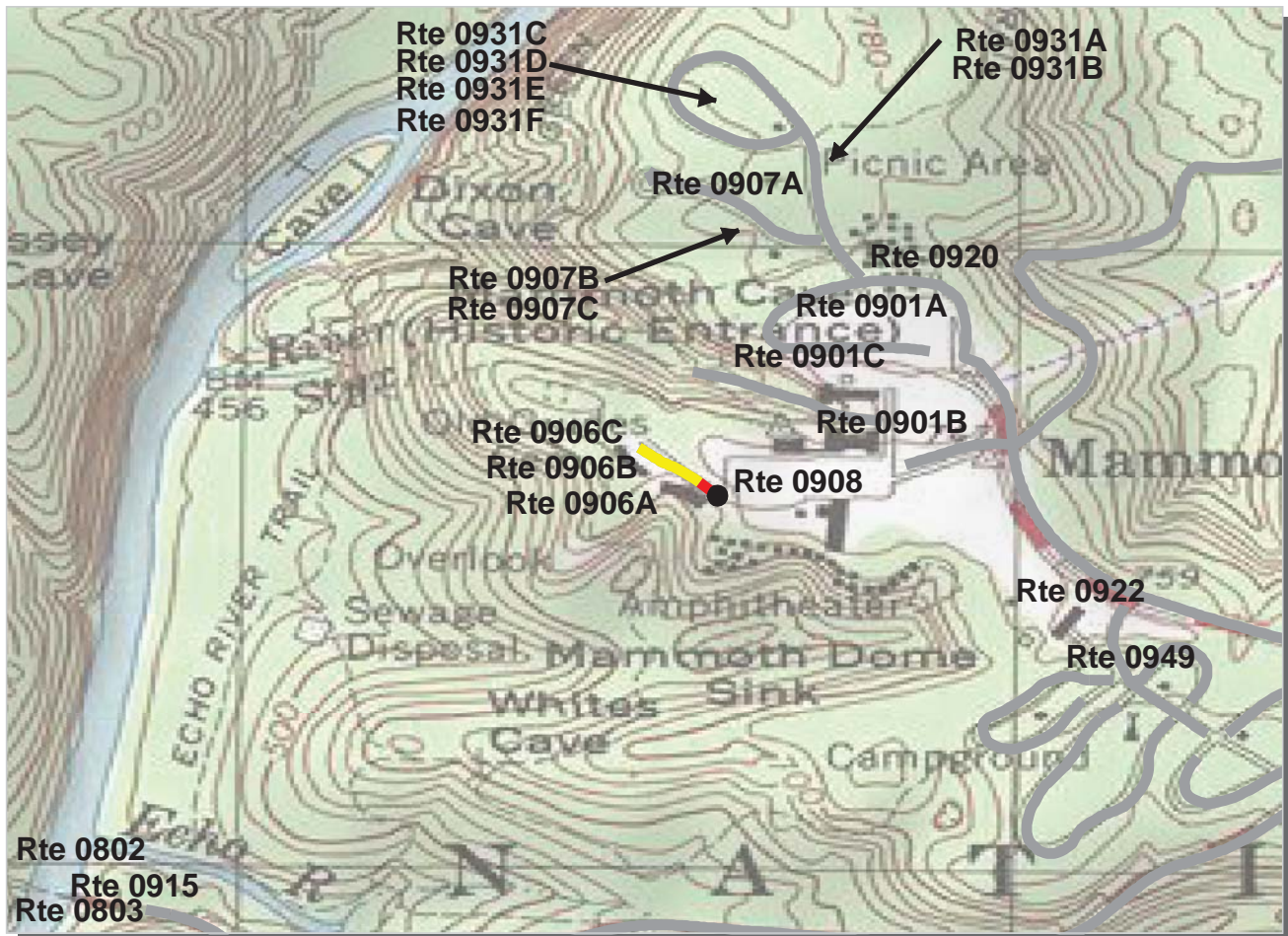
TOTAL LENGTH: 0.08 Miles

Section Number	0				
Section Length (mi)	0.08				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	16				
Lane Width (ft)	16				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	71				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	71				
Alligator Cracking Index	100				
Rutting Index	72				
Patching Index	100				
Transverse Cracking Index	99				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0420 ELEVATOR SHAFT ROAD

* NC designates data not collected N/A designates not applicable

** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



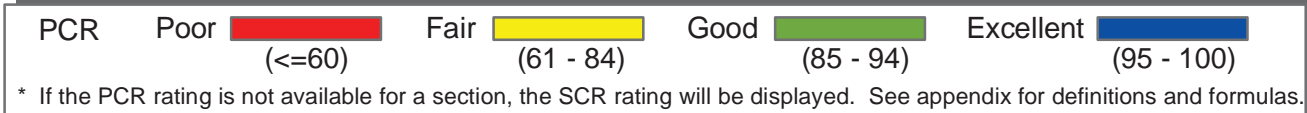
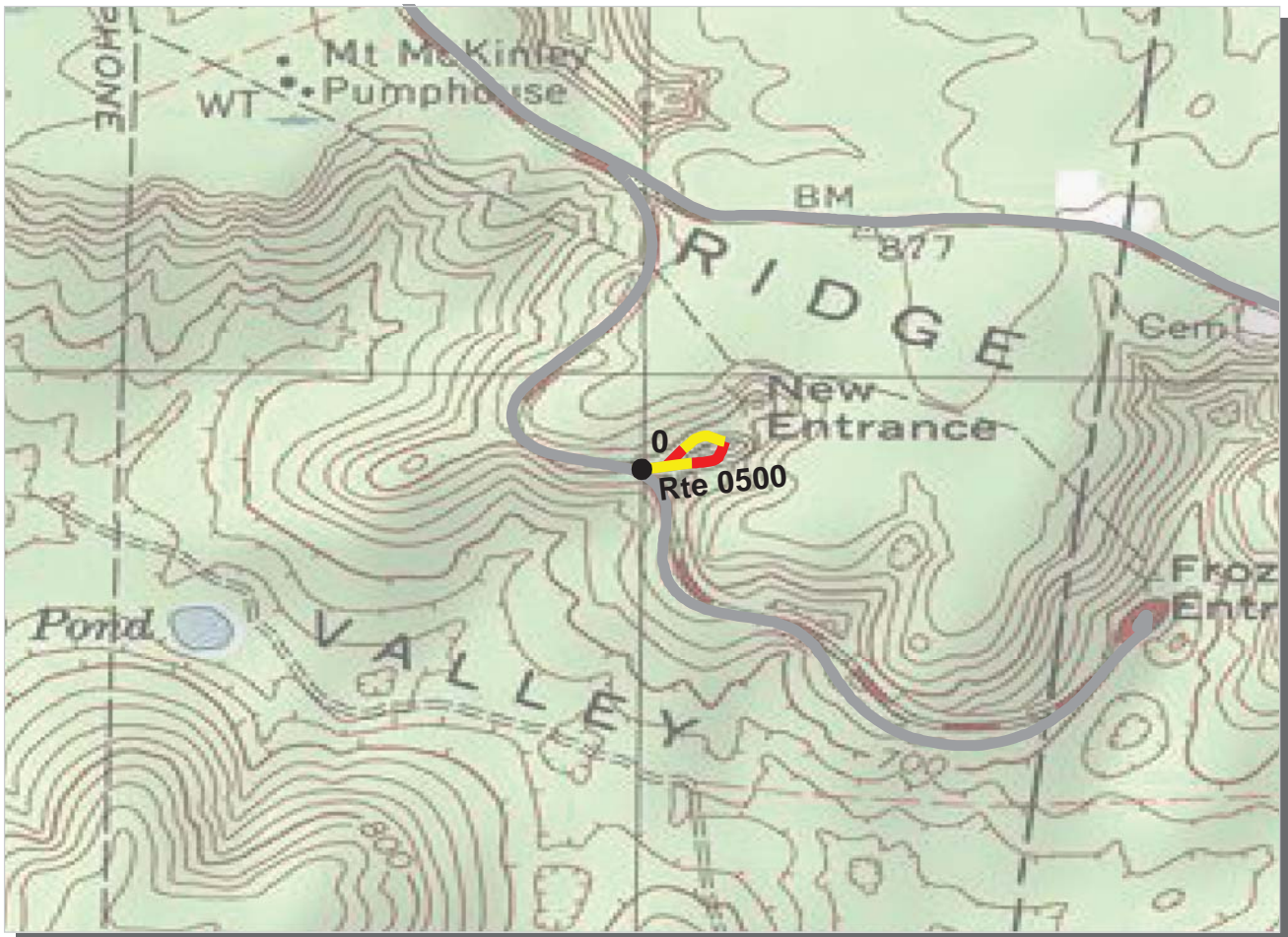
Southeast Region
MACA : Mammoth Cave National Park

ROUTE: 0430 MOTEL 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)	17				
Lane Width (ft)	8				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	62				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	62				
Alligator Cracking Index	94				
Rutting Index	71				
Patching Index	99				
Transverse Cracking Index	99				
Longitudinal Cracking Index	98				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0430 MOTEL ROAD

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



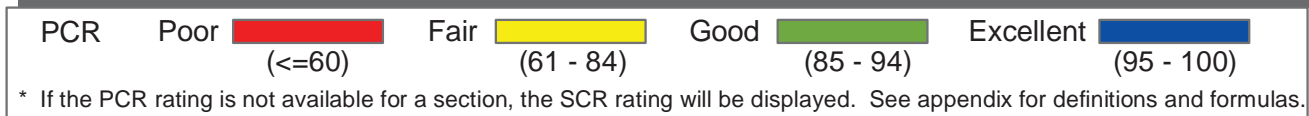
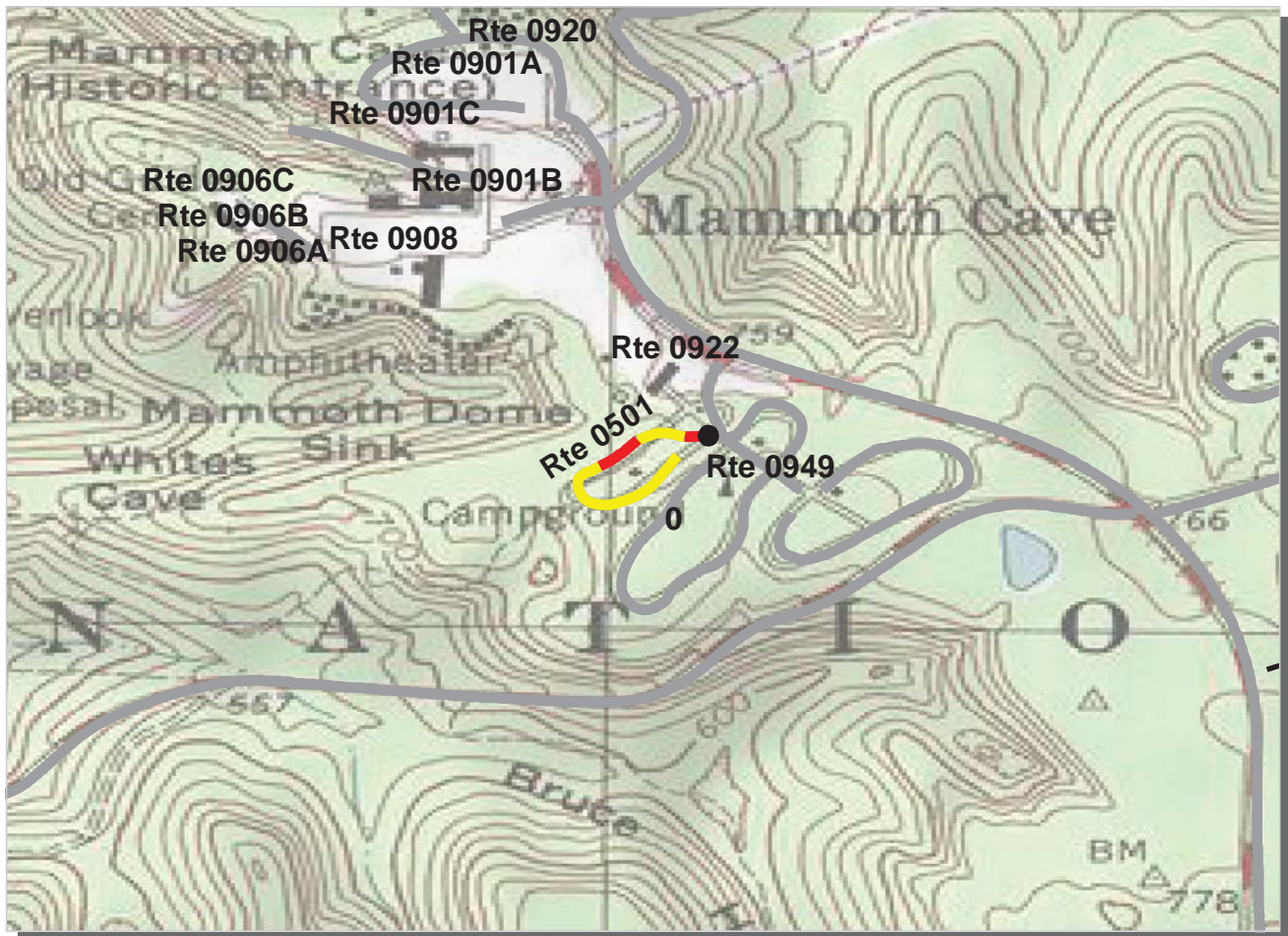
Southeast Region
MACA : Mammoth Cave National Park

ROUTE: 0500 NEW ENTRANCE LOOP **TOTAL LENGTH: 0.16 Miles**

Section Number	0				
Section Length (mi)	0.16				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	18				
Lane Width (ft)	9				
Shoulder Width (ft)	7				
Roadway Condition Information					
PCR (Pavement Condition Rating)	45				
RCI (Roughness Condition Index)	51				
SCR (Surface Condition Rating)	46				
Alligator Cracking Index	76				
Rutting Index	73				
Patching Index	99				
Transverse Cracking Index	96				
Longitudinal Cracking Index	96				
Shoulder Condition Rating	GOOD				
Drainage Condition Rating	GOOD				

ROUTE: 0500 NEW ENTRANCE LOOP

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



Southeast Region

MACA : Mammoth Cave National Park

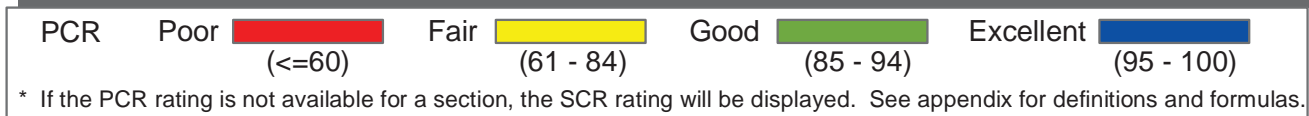
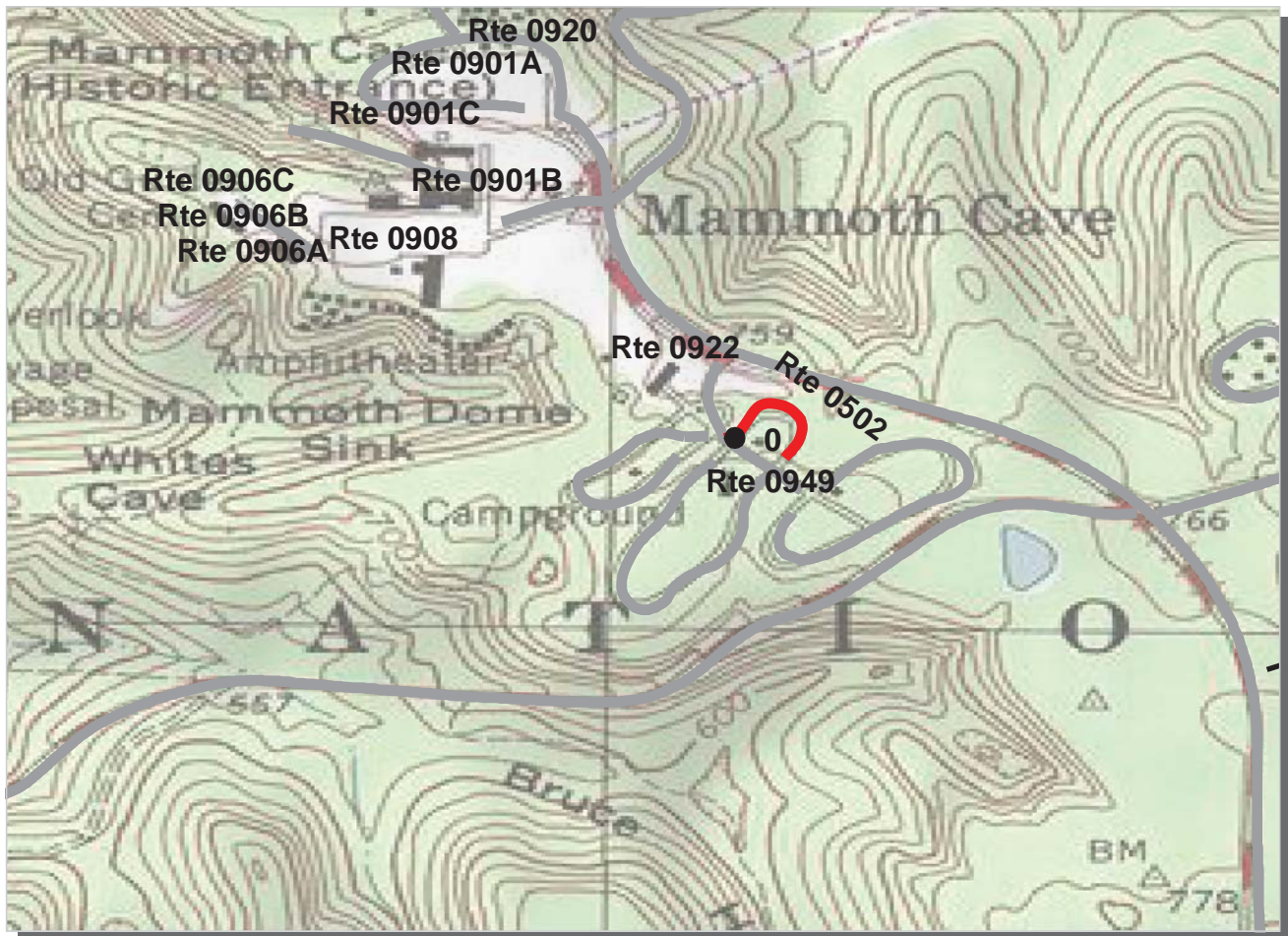
ROUTE: 0501 VISITOR CENTER CAMPGROUND LOOP D TOTAL LENGTH: 0.26 Miles

Section Number	0			
Section Length (mi)	0.26			
AADT	**			
SADT	**			
ADT Date	**			
Cross Section Information				
Number of Lanes	1			
Paved Width (ft)	12			
Lane Width (ft)	12			
Shoulder Width (ft)	0			
Roadway Condition Information				
PCR (Pavement Condition Rating)	67			
RCI (Roughness Condition Index)	NC			
SCR (Surface Condition Rating)	67			
Alligator Cracking Index	100			
Rutting Index	68			
Patching Index	100			
Transverse Cracking Index	99			
Longitudinal Cracking Index	99			
Shoulder Condition Rating	N/A			
Drainage Condition Rating	GOOD			

ROUTE: 0501 VISITOR CENTER CAMPGROUND LOOP D

* NC designates data not collected N/A designates not applicable

** See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



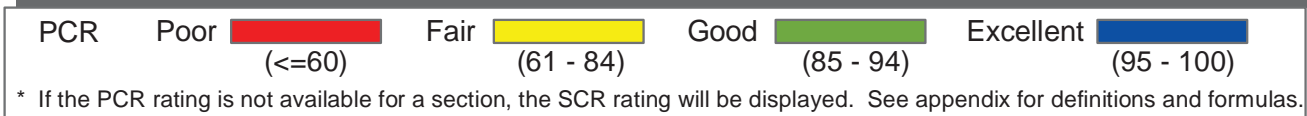
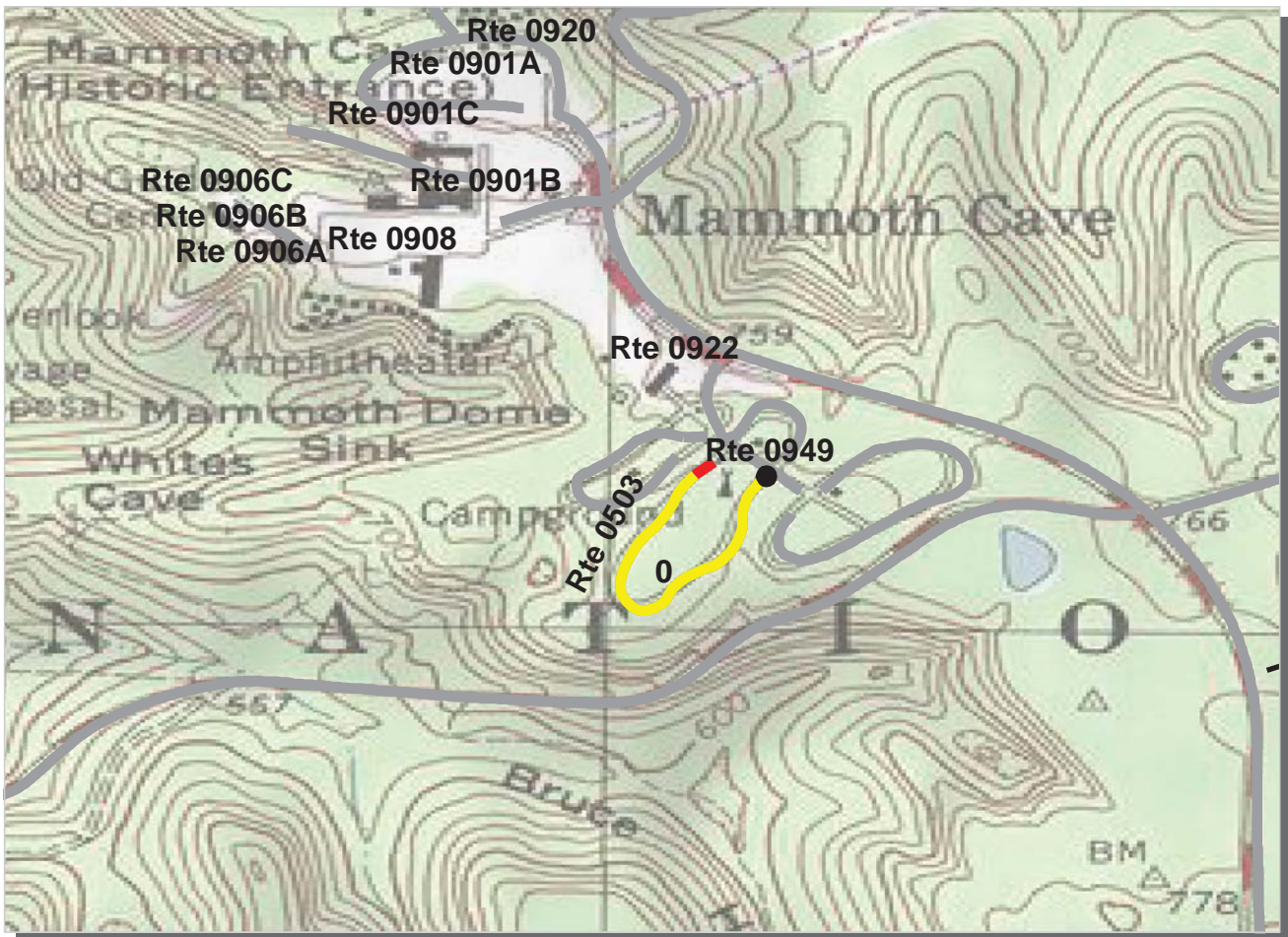
Southeast Region
MACA : Mammoth Cave National Park

ROUTE: 0502 VISITOR CENTER CAMPGROUND LOOP A TOTAL LENGTH: 0.14 Miles

Section Number	0				
Section Length (mi)	0.14				
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)	46				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	46				
Alligator Cracking Index	100				
Rutting Index	46				
Patching Index	100				
Transverse Cracking Index	100				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0502 VISITOR CENTER CAMPGROUND LOOP A

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



Southeast Region

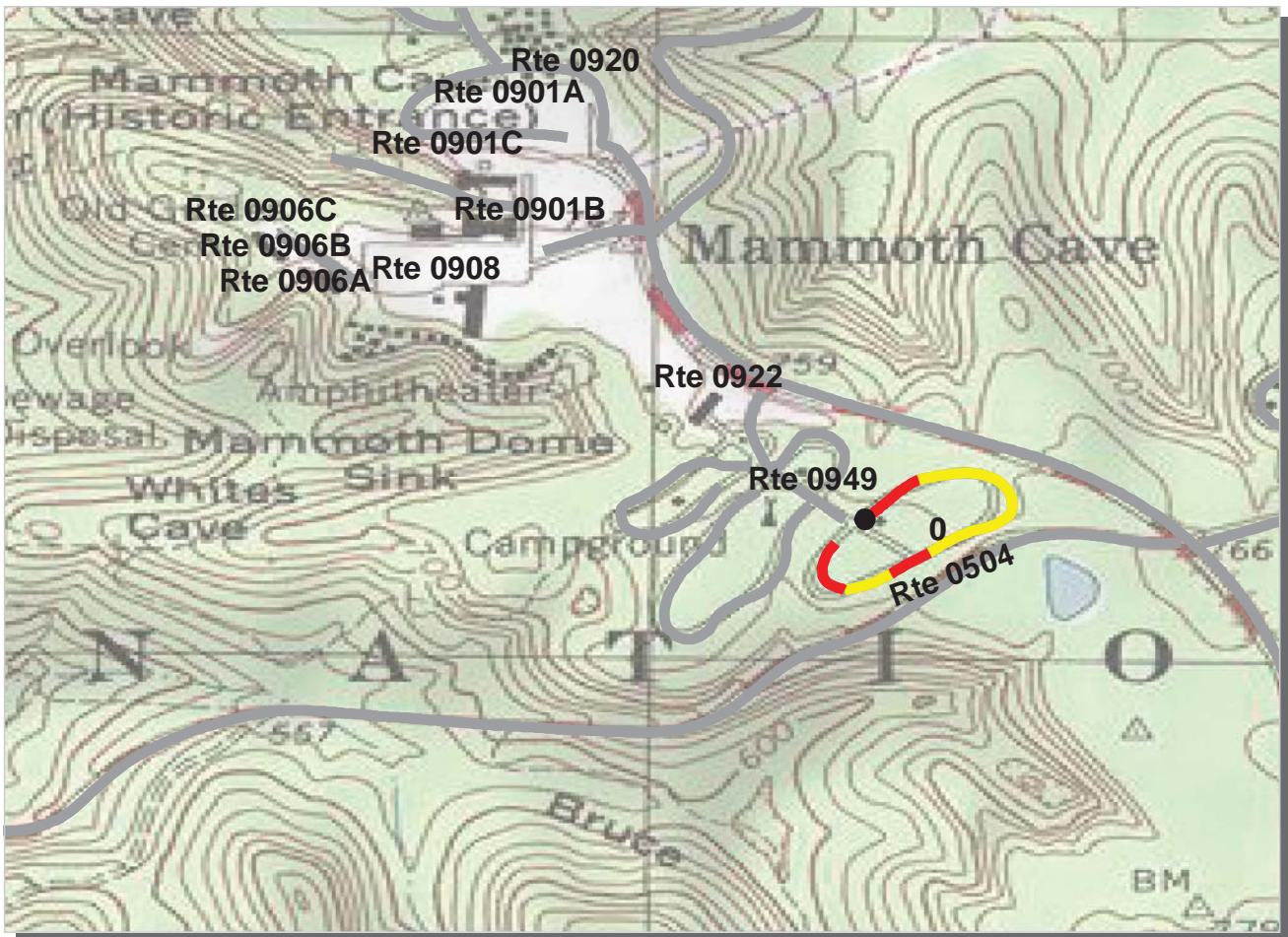
MACA : Mammoth Cave National Park

ROUTE: 0503 VISITOR CENTER CAMPGROUND LOOP C TOTAL LENGTH: 0.38 Miles

Section Number	0				
Section Length (mi)	0.38				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	12				
Lane Width (ft)	12				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	74				
RCI (Roughness Condition Index)	93				
SCR (Surface Condition Rating)	73				
Alligator Cracking Index	99				
Rutting Index	74				
Patching Index	100				
Transverse Cracking Index	99				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0503 VISITOR CENTER CAMPGROUND LOOP C

* NC designates data not collected N/A 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.

Southeast Region
MACA : Mammoth Cave National Park

ROUTE: 0504 VISITOR CENTER CAMPGROUND LOOP B TOTAL LENGTH: 0.40 Miles

Section Number	0				
Section Length (mi)	0.40				
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)	65				
RCI (Roughness Condition Index)	57				
SCR (Surface Condition Rating)	66				
Alligator Cracking Index	99				
Rutting Index	68				
Patching Index	99				
Transverse Cracking Index	99				
Longitudinal Cracking Index	98				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0504 VISITOR CENTER CAMPGROUND LOOP B

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

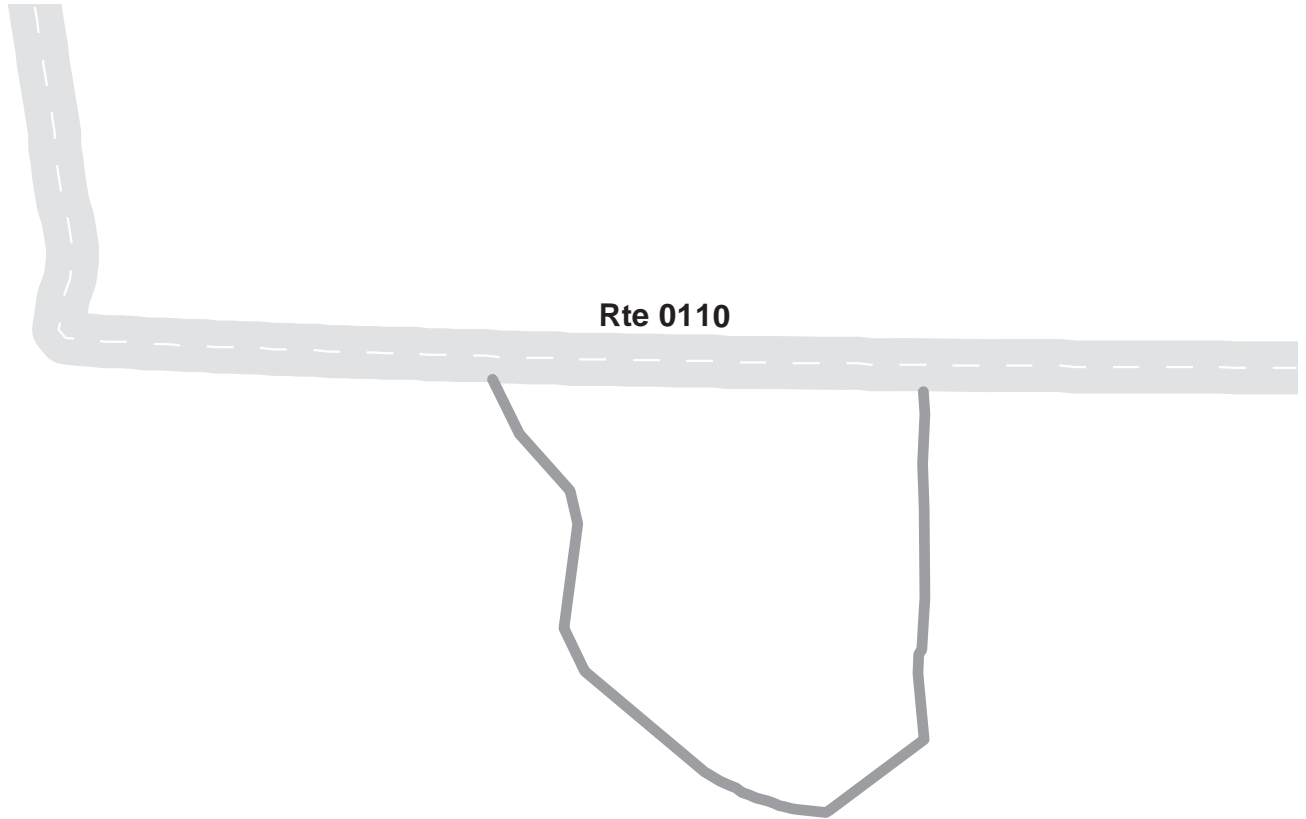
Mammoth Cave National Park

Route 0223

Maple Springs Loop Campground
From Route 0110

Route	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles *	Condition / PCR	Surface Type
0223	0.24	11.00	14113	0.24	NC / -1	AS

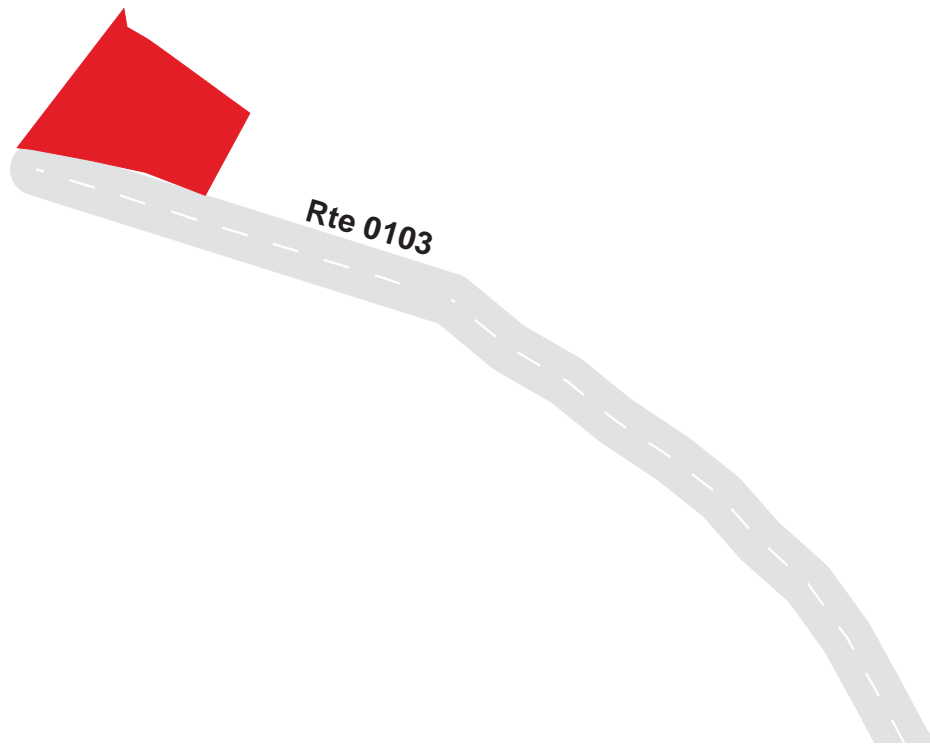
* Lane miles are based on 11' lane widths



Mammoth Cave National Park
Route 0800
 HOUCHINS FERRY NORTH CROSSING RAMP #1
 At End of Route 0103

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0800	Public	7/2/2003	1420	0.02	CO	GOOD / 90

* Lane miles are based on 11' lane widths



Mammoth Cave National Park

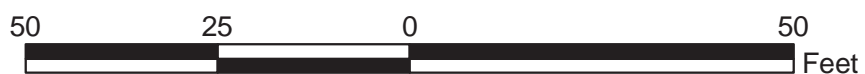
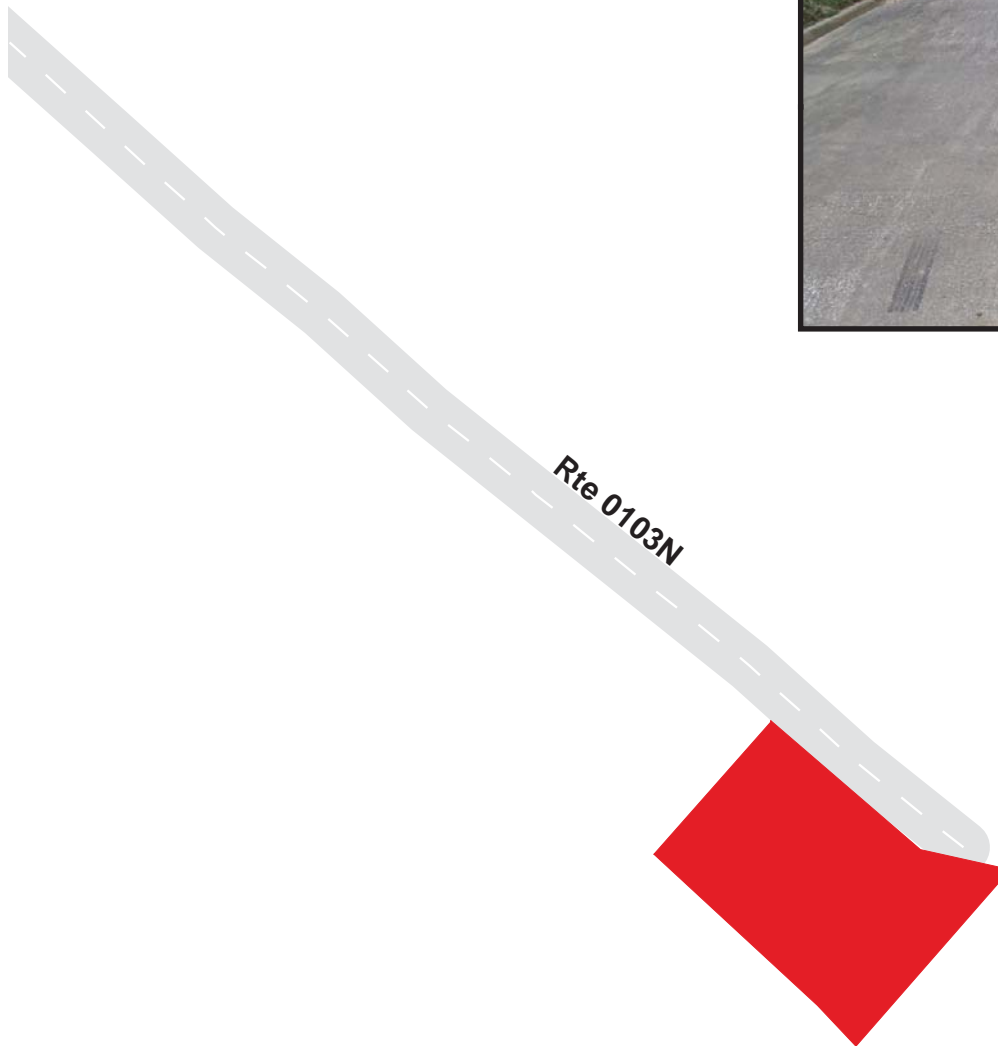
Route 0801

HOUCHINS FERRY NORTH CROSSING RAMP #2

At Beginning of Route 0103N

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0801	Public	6/30/2003	711	0.01	CO	GOOD / 90

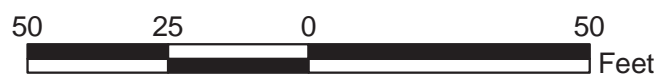
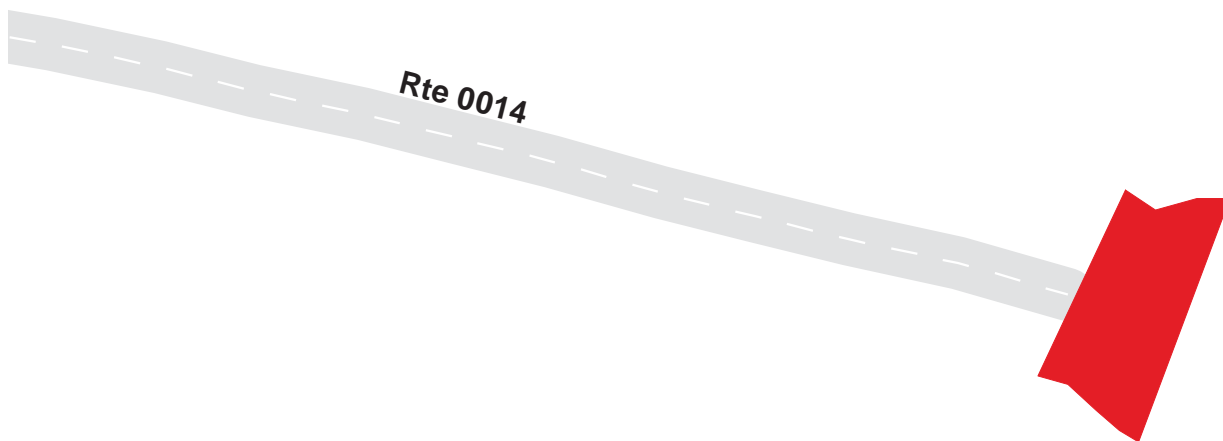
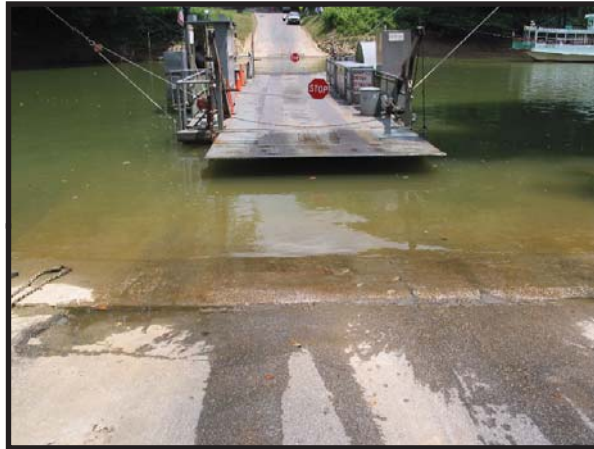
* Lane miles are based on 11' lane widths



Mammoth Cave National Park
Route 0802
 GREEN RIVER FERRY CROSSING RAMP #2
 At End of Route 0014

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0802	Public	7/2/2003	610	0.01	CO	GOOD / 90

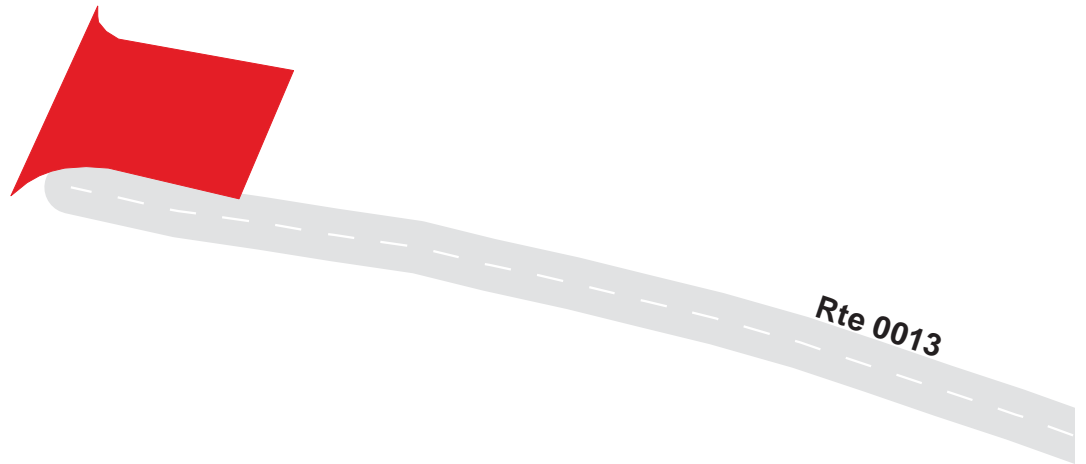
* Lane miles are based on 11' lane widths



Mammoth Cave National Park
Route 0803
 GREEN RIVER FERRY CROSSING RAMP #1
 At End of Route 0013

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0803	Public	7/1/2003	1262	0.02	CO	GOOD / 90

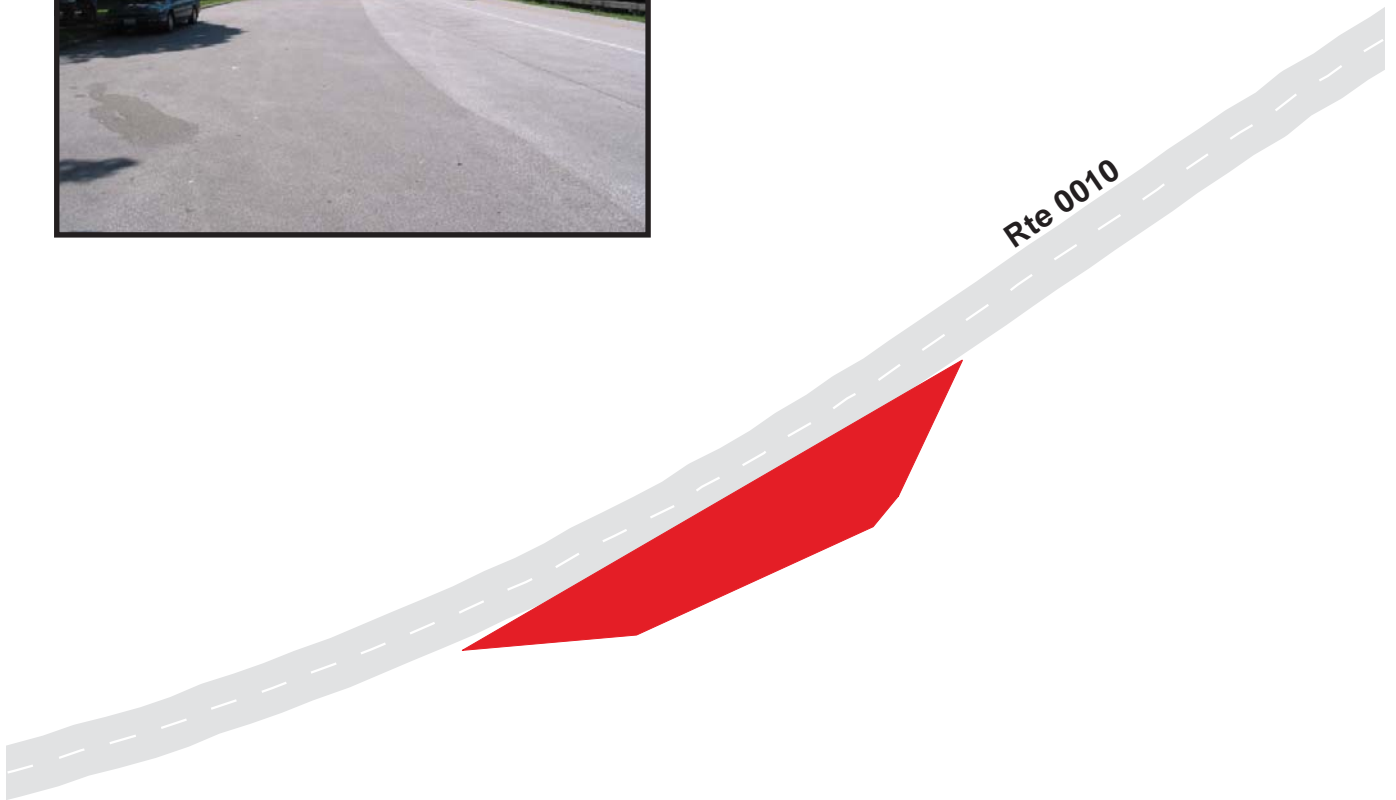
* Lane miles are based on 11' lane widths



Mammoth Cave National Park
Route 0900
 DOYLE VALLEY OVERLOOK
 Adjacent To Route 0010 at MP 3.65 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0900	Public	7/2/2003	8600	0.15	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Mammoth Cave National Park

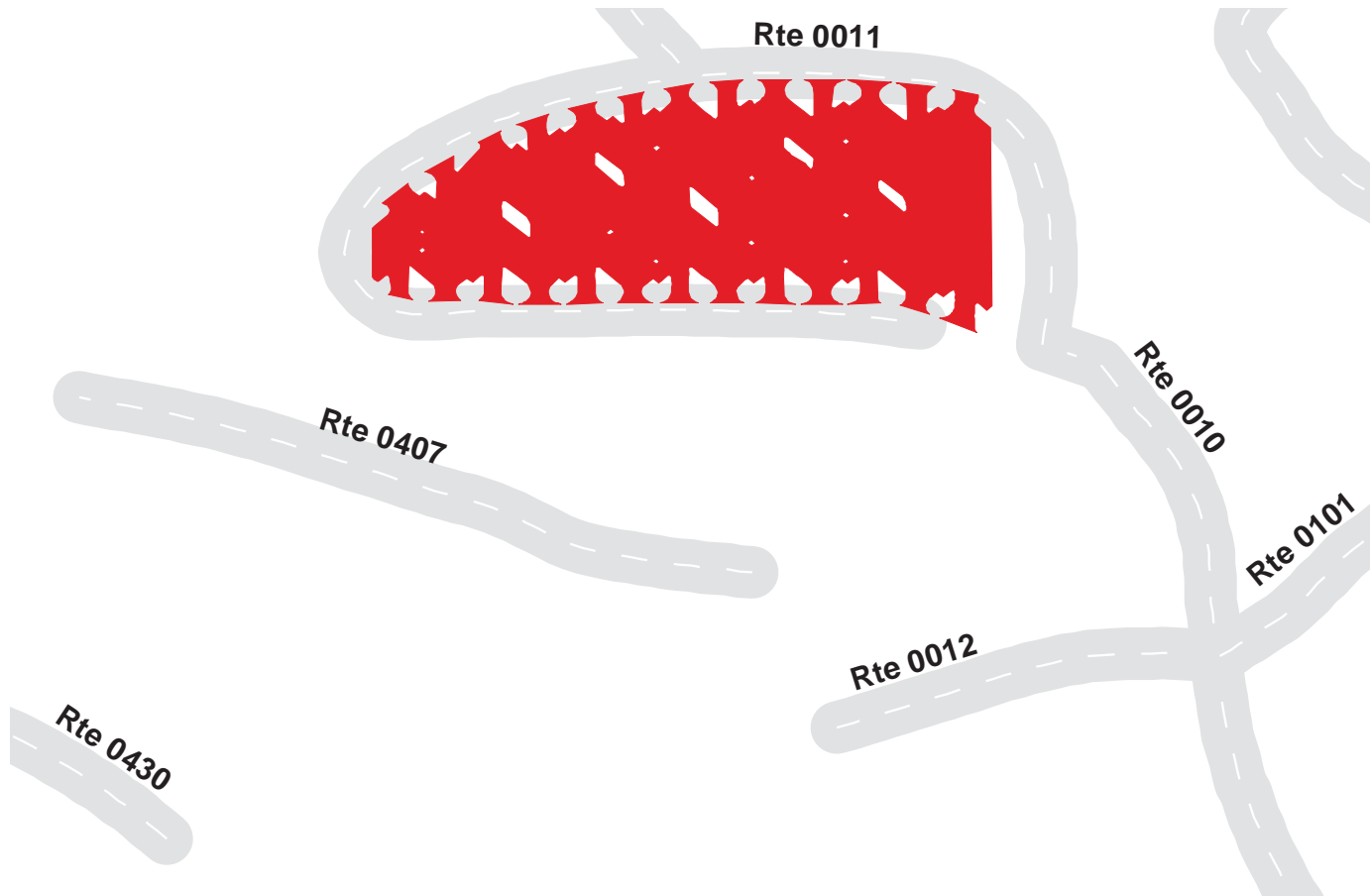
Route 0901A

MACA MAIN VISITOR CENTER PARKING

Adjacent To Route 0011 on Inside of loop

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0901A	Public	7/2/2003	182697	3.15	AS	GOOD / 90

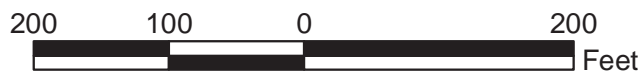
* Lane miles are based on 11' lane widths



Mammoth Cave National Park
Route 0901B
HOTEL SERVICES AND PARK HQ PARKING
Adjacent To Route 0908

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0901B	NonPublic	7/2/2003	16057	0.28	AS	POOR / 45

* Lane miles are based on 11' lane widths



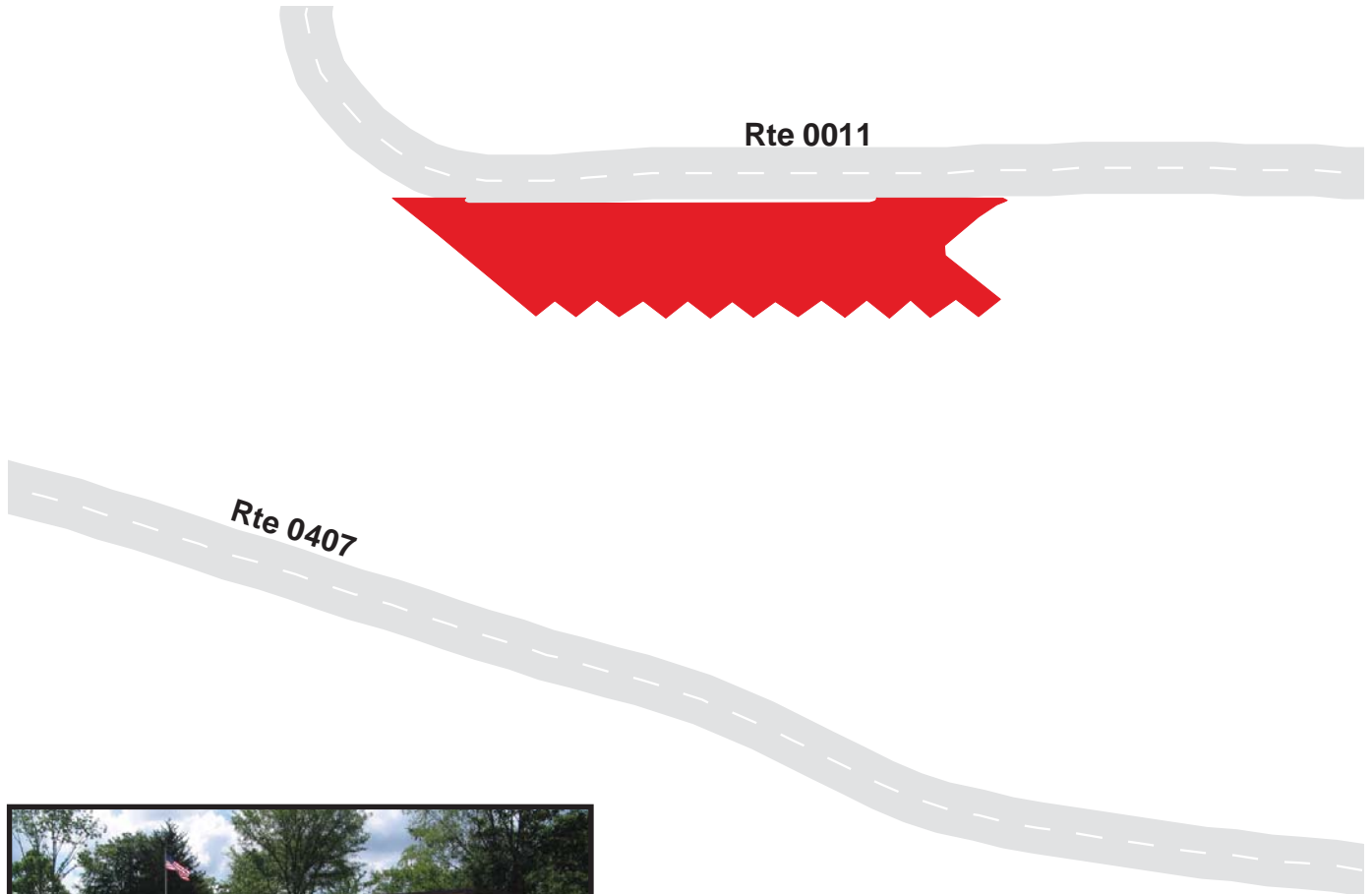
Mammoth Cave National Park

Route 0901C

MACA VISITOR CENTER BUS PARKING AREA
Adjacent To Route 0011

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0901C	Public	7/2/2003	13449	0.23	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Mammoth Cave National Park

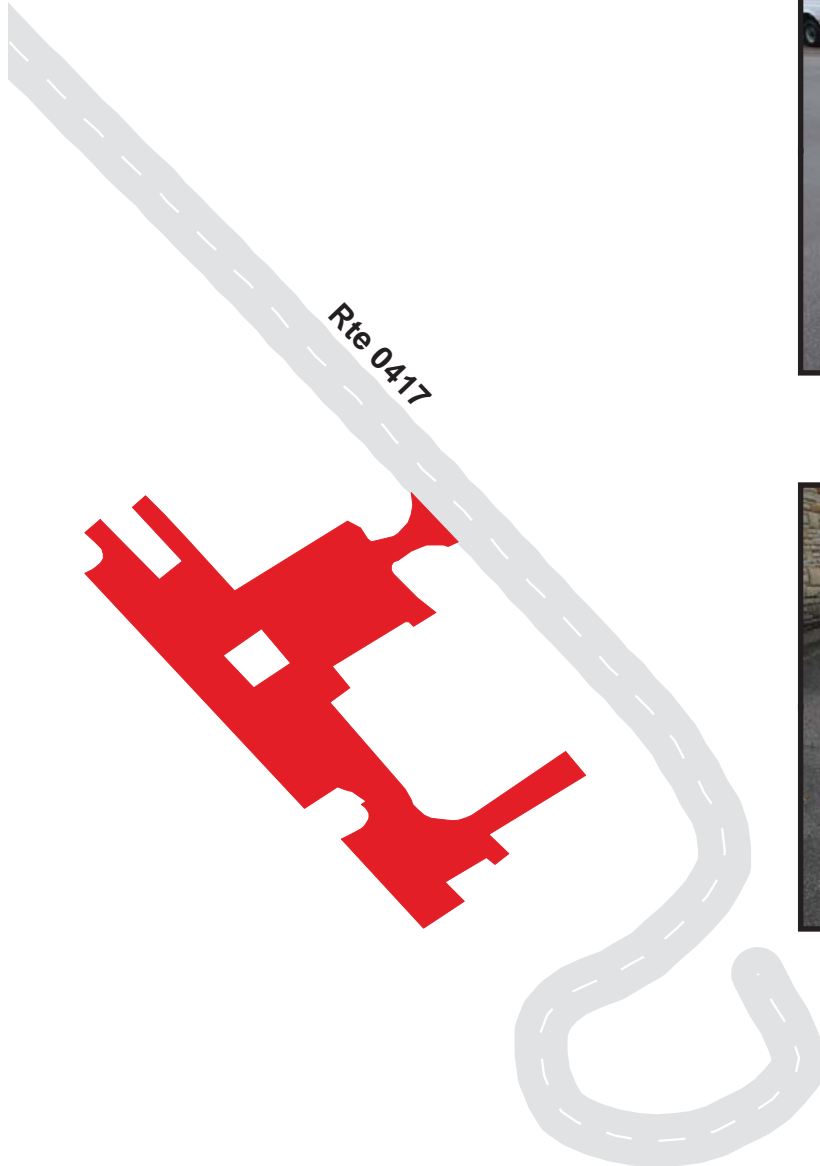
Route 0902A

MACA MAINTENANCE PARKING

Adjacent To Route 0417

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0902A	NonPublic	7/1/2003	43808	0.75	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Mammoth Cave National Park

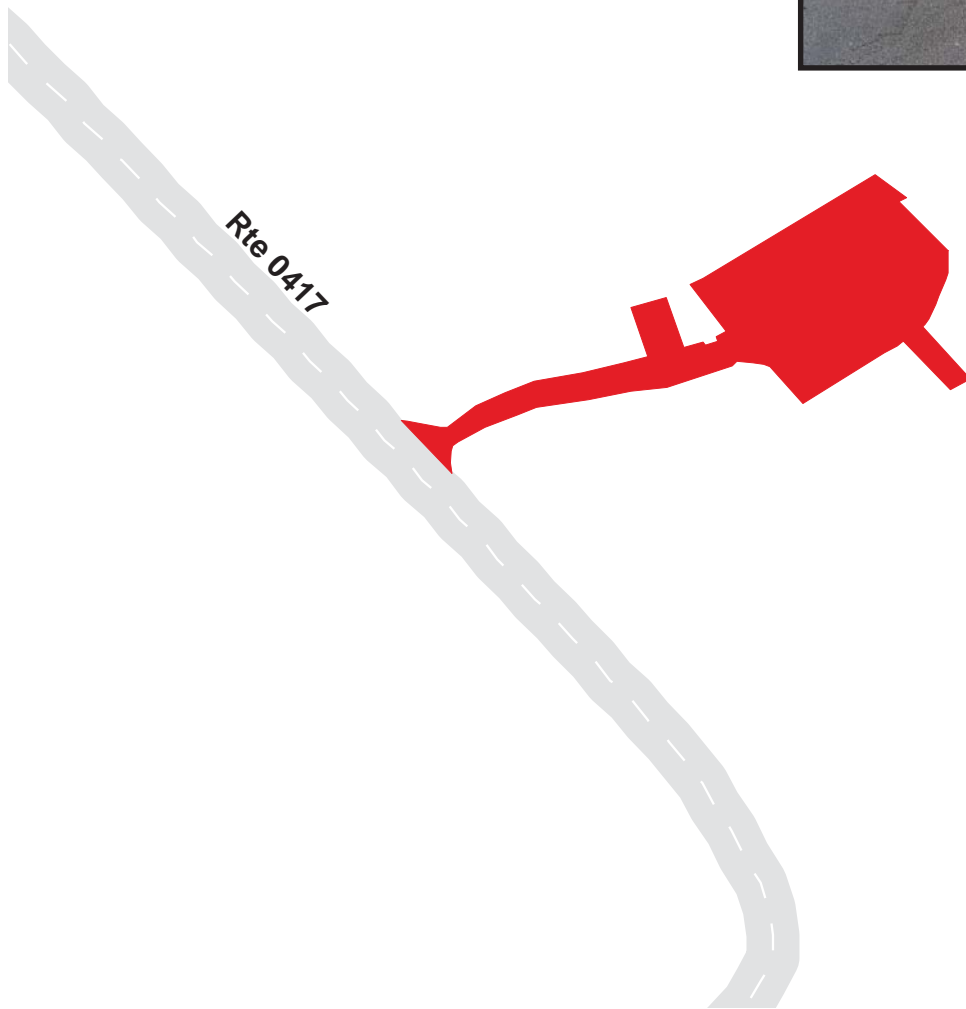
Route 0902B

CONCESSION SERVICE PARKING

Adjacent To Route 0417

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0902B	NonPublic	7/1/2003	16232	0.28	AS	GOOD / 90

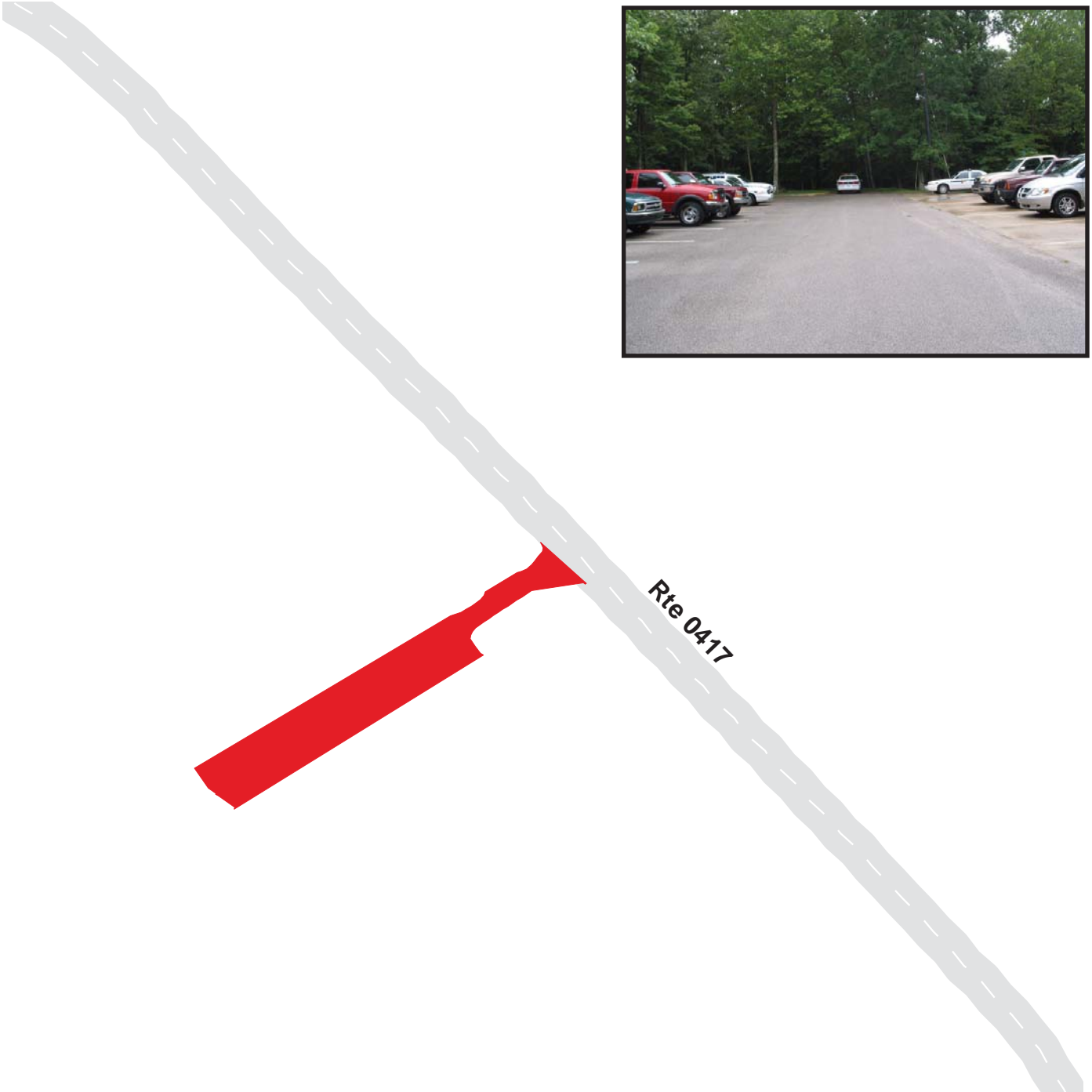
* Lane miles are based on 11' lane widths



Mammoth Cave National Park
Route 0903A
 RANGER STATION PARKING AREA A
 Adjacent To Route 0417

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0903A	NonPublic	7/1/2003	9979	0.17	AS	GOOD / 90

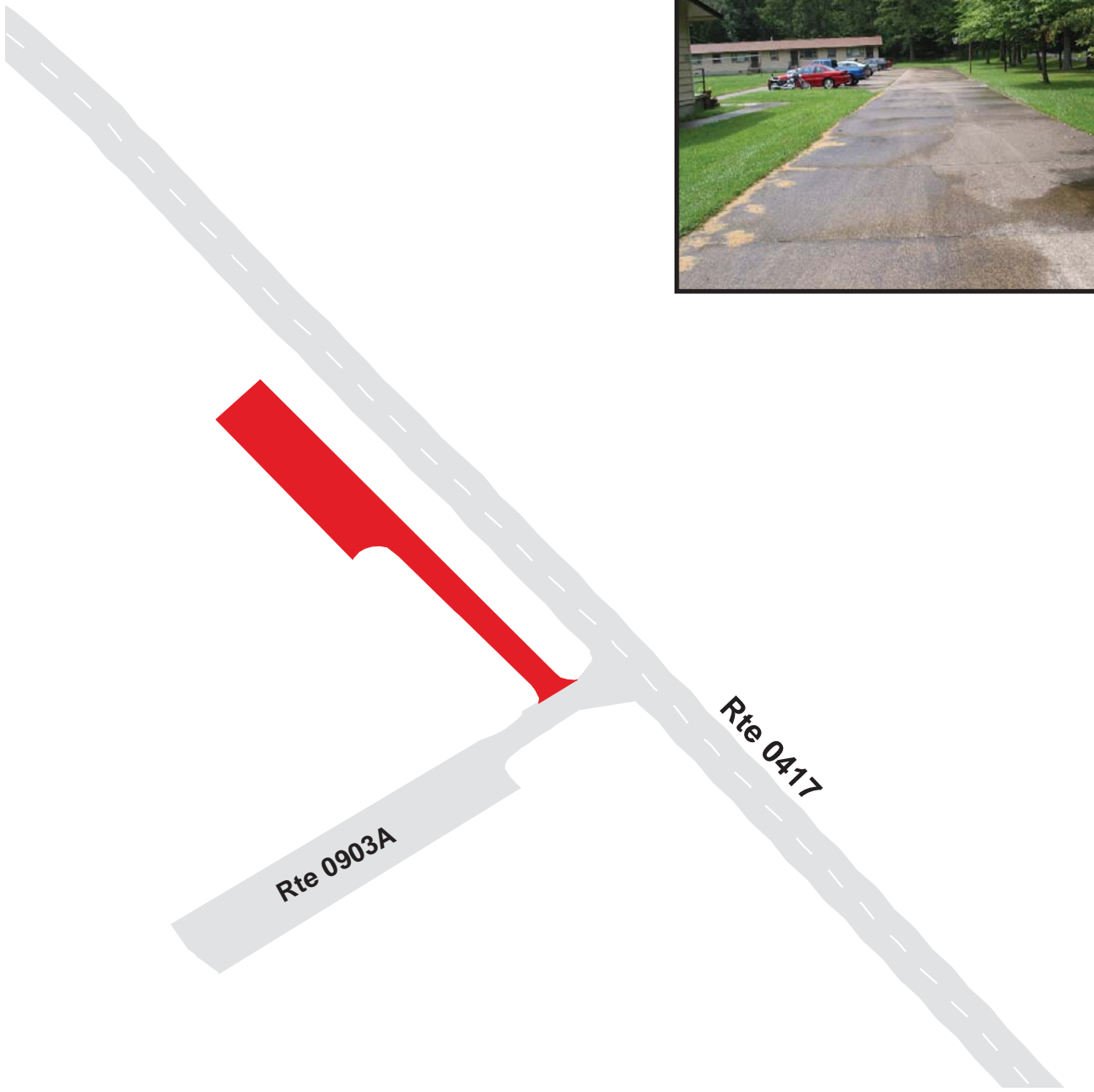
* Lane miles are based on 11' lane widths



Mammoth Cave National Park
Route 0903B
 RANGER STATION PARKING AREA B
 From Route 0903A

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0903B	NonPublic	7/1/2003	6501	0.11	CO	GOOD / 90

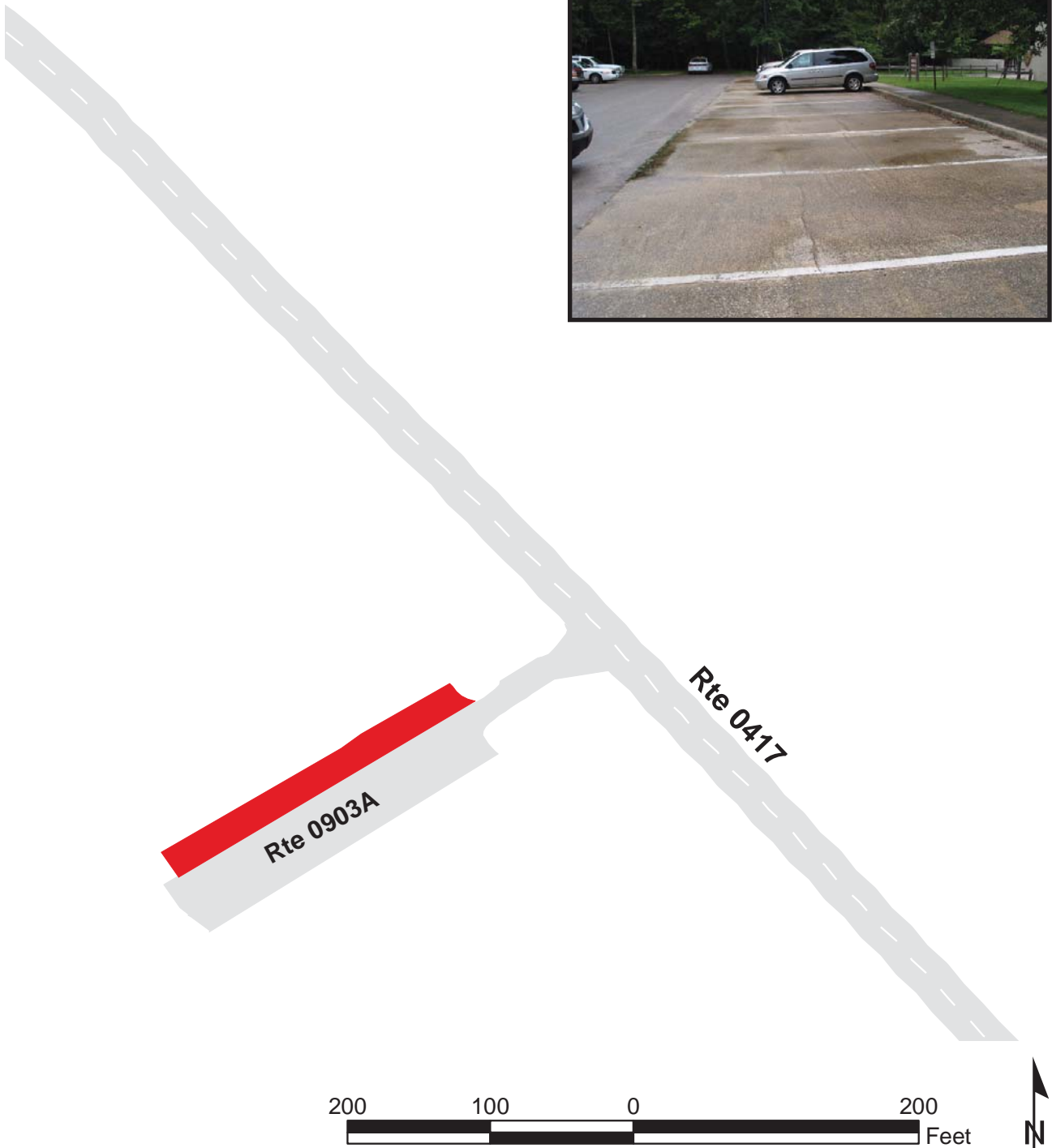
* Lane miles are based on 11' lane widths



Mammoth Cave National Park
Route 0903C
 RANGER STATION PARKING AREA C
 Adjacent To Route 0903A

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0903C	NonPublic	7/1/2003	3829	0.07	CO	GOOD / 90

* Lane miles are based on 11' lane widths



Mammoth Cave National Park
Route 0903D
 RANGER STATION PARKING AREA D
 Adjacent To Route 0417

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0903D	Public	7/1/2003	2834	0.05	CO	GOOD / 90

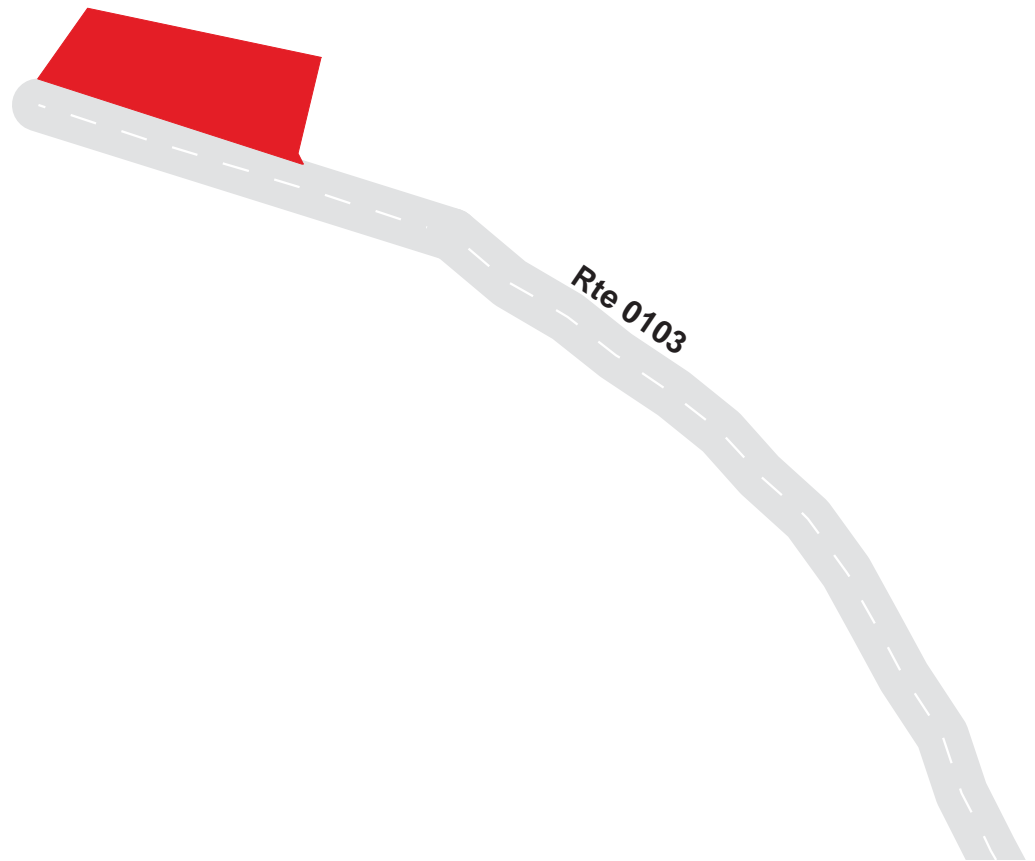
* Lane miles are based on 11' lane widths



Mammoth Cave National Park
Route 0904A
 HOUCHINS FERRY ROAD SOUTH PARKING
 Adjacent To Route 0103 near End on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0904A	Public	7/1/2003	1603	0.03	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Mammoth Cave National Park

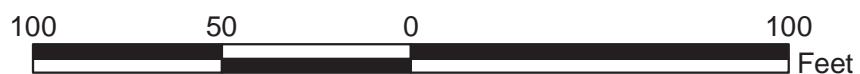
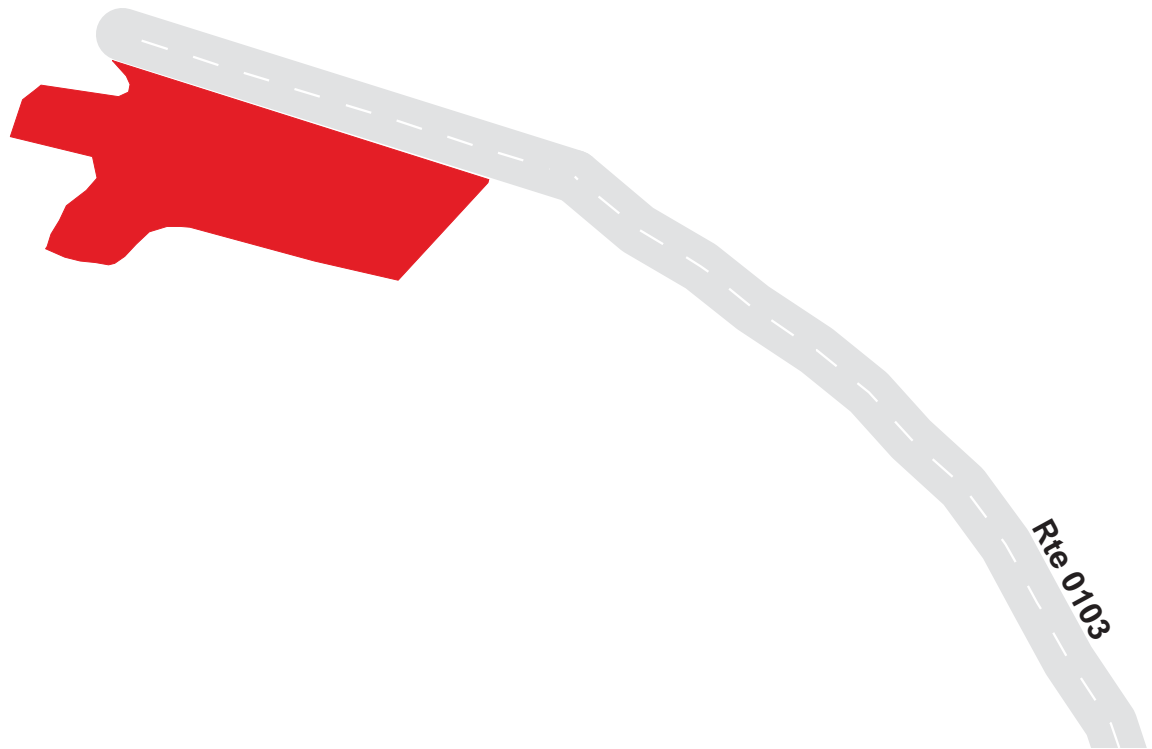
Route 0904B

HOUCHINS FERRY ROAD SOUTH BOAT TRAILER PARKING

Adjacent To Route 0103 near End on Left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0904B	Public	7/1/2003	3166	0.05	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Mammoth Cave National Park

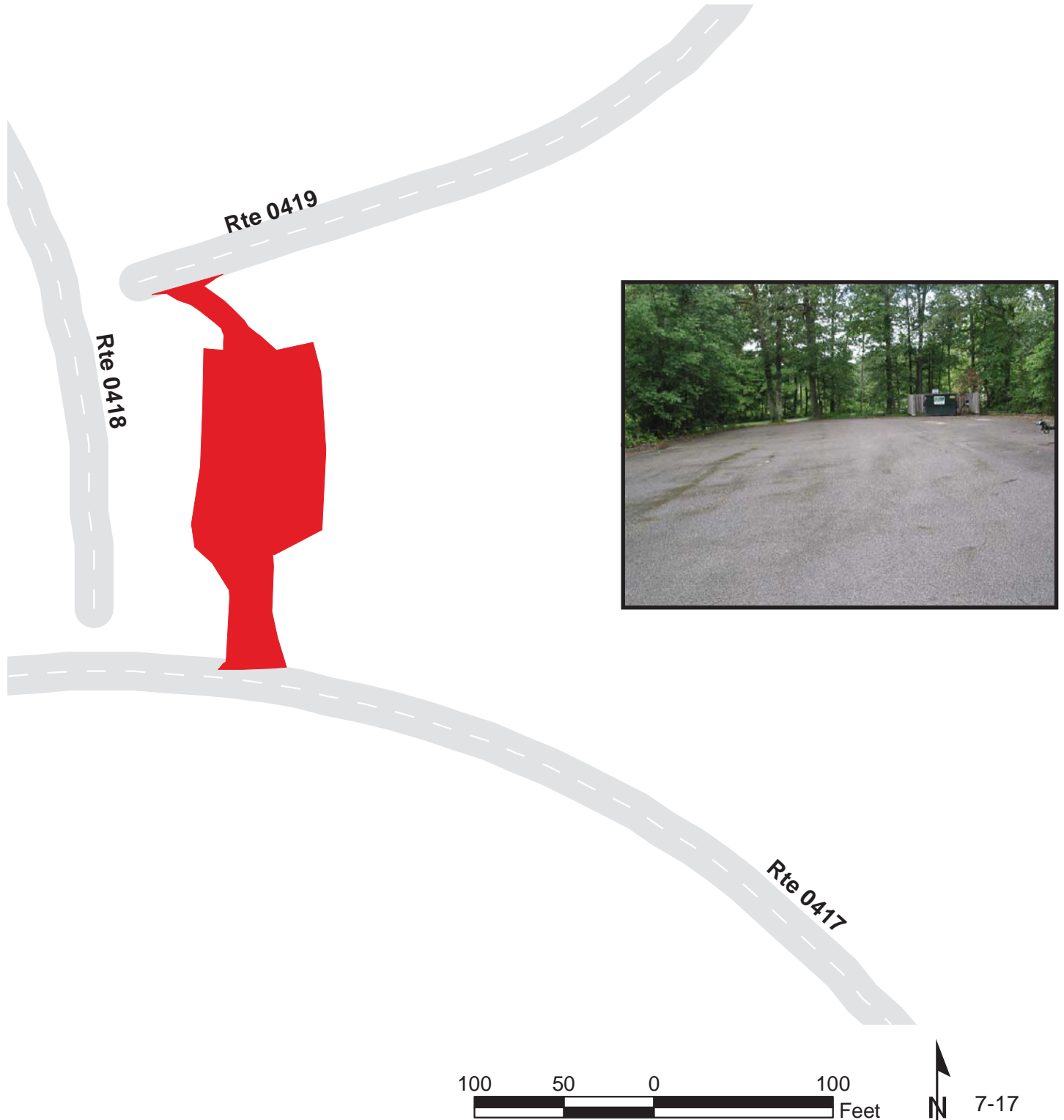
Route 0905

RESIDENCE PARKING

From Route 0417

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0905	NonPublic	7/1/2003	8243	0.14	AS	GOOD / 90

* Lane miles are based on 11' lane widths



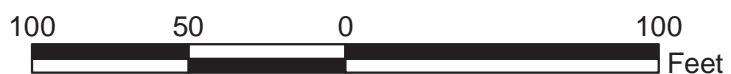
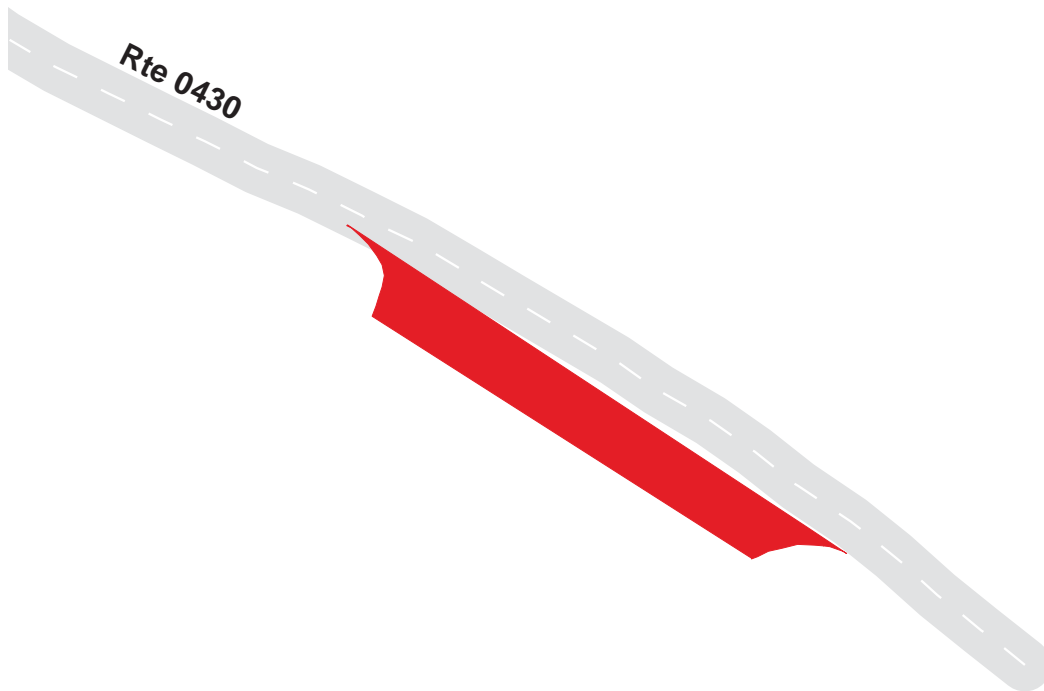
Mammoth Cave National Park

Route 0906A

MOTEL PARKING A
Adjacent To Route 0430

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0906A	Public	7/2/2003	2377	0.04	AS	FAIR / 73

* Lane miles are based on 11' lane widths



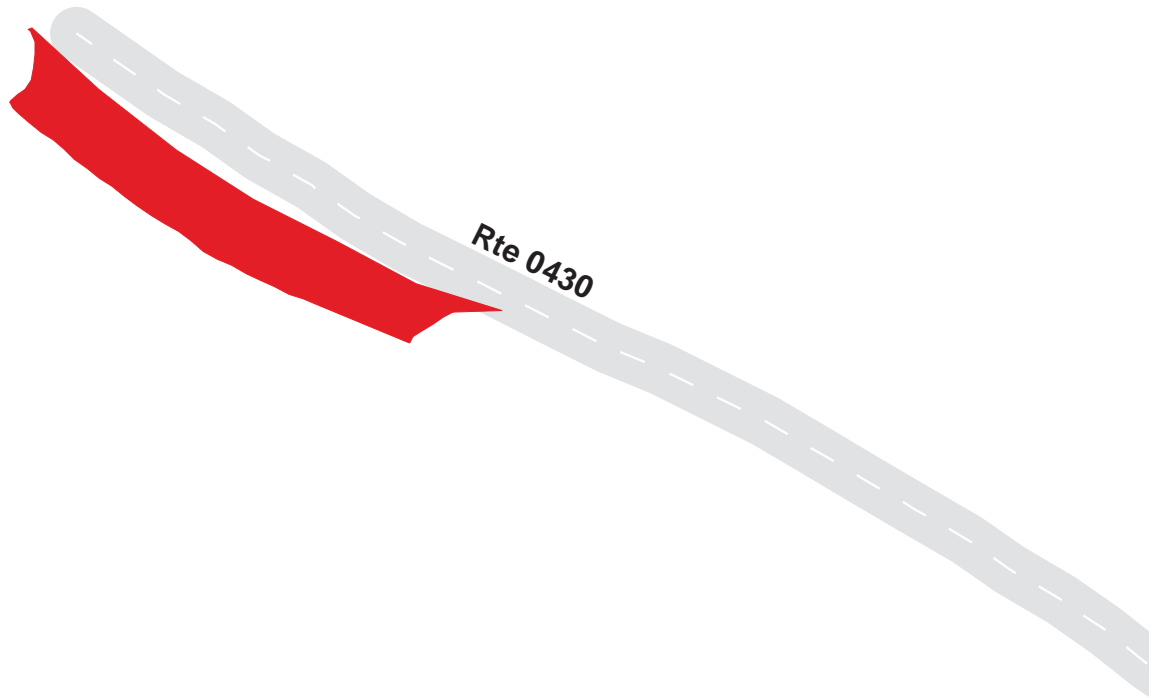
Mammoth Cave National Park

Route 0906B

MOTEL PARKING B
Adjacent To Route 0430

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0906B	Public	7/2/2003	2648	0.05	AS	FAIR / 73

* Lane miles are based on 11' lane widths



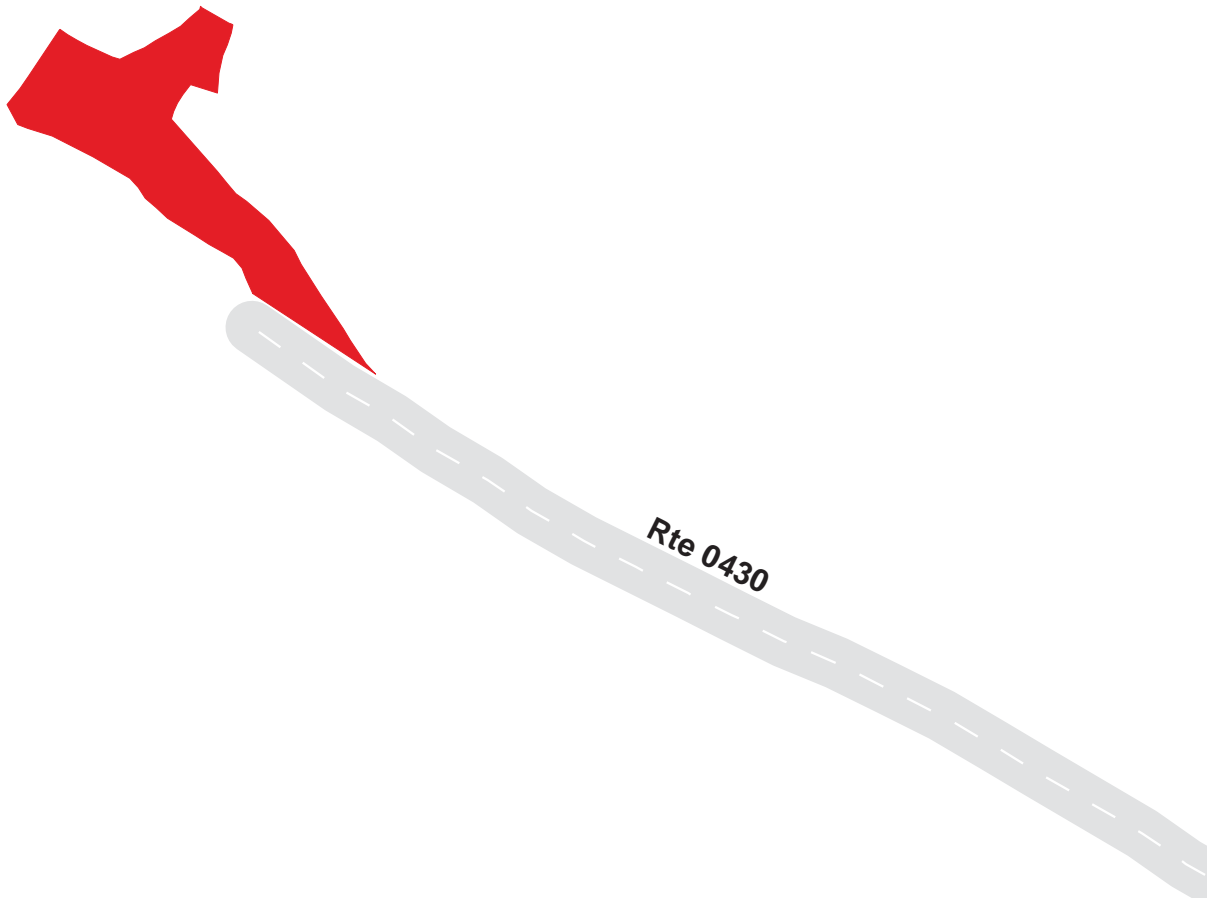
Mammoth Cave National Park

Route 0906C

MOTEL PARKING C
At End of Route 0430

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0906C	Public	7/1/2003	2760	0.05	AS	FAIR / 73

* Lane miles are based on 11' lane widths



Mammoth Cave National Park

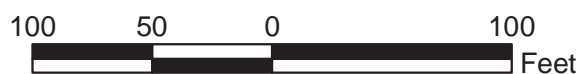
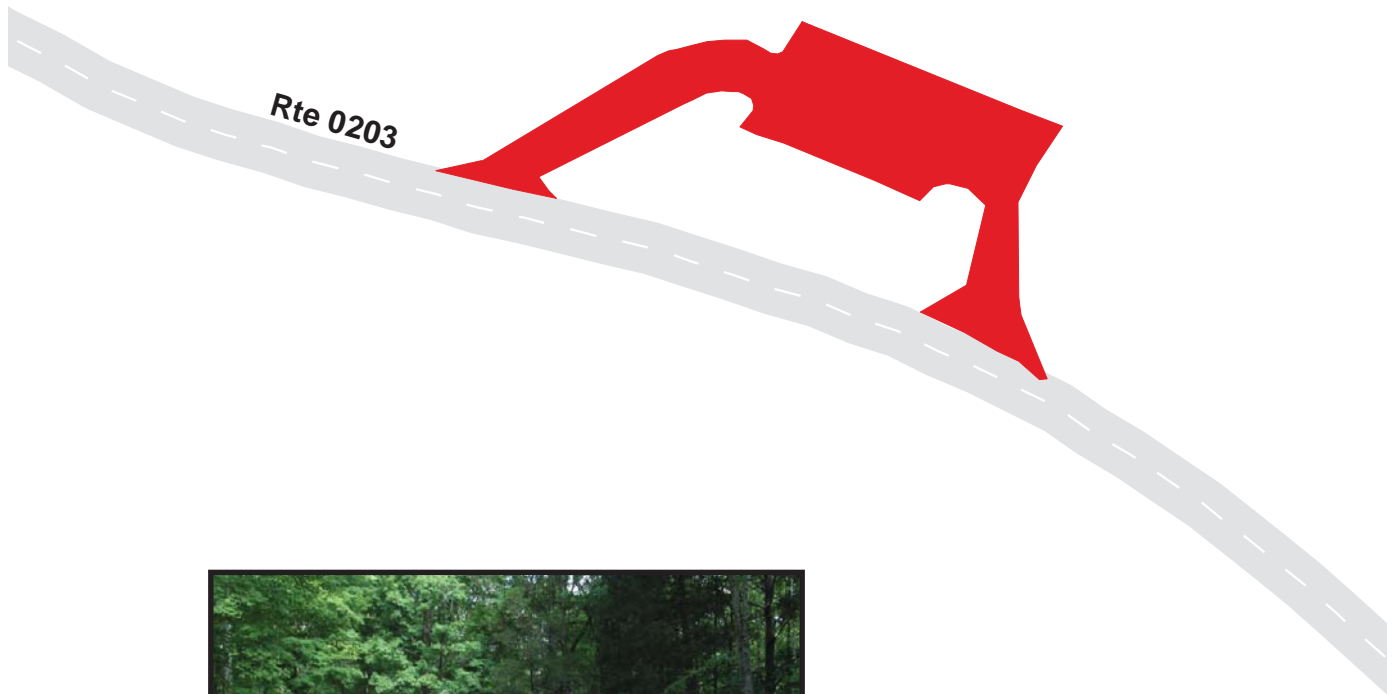
Route 0907A

PICNIC SHELTER PARKING A

Adjacent To Route 0203 at MP 0.10 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0907A	Public	7/2/2003	7783	0.13	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Mammoth Cave National Park
Route 0907B
 PICNIC SHELTER PARKING B
 Adjacent To Route 0203 at MP 0.02 on Left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0907B	Public	7/2/2003	2323	0.04	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Mammoth Cave National Park

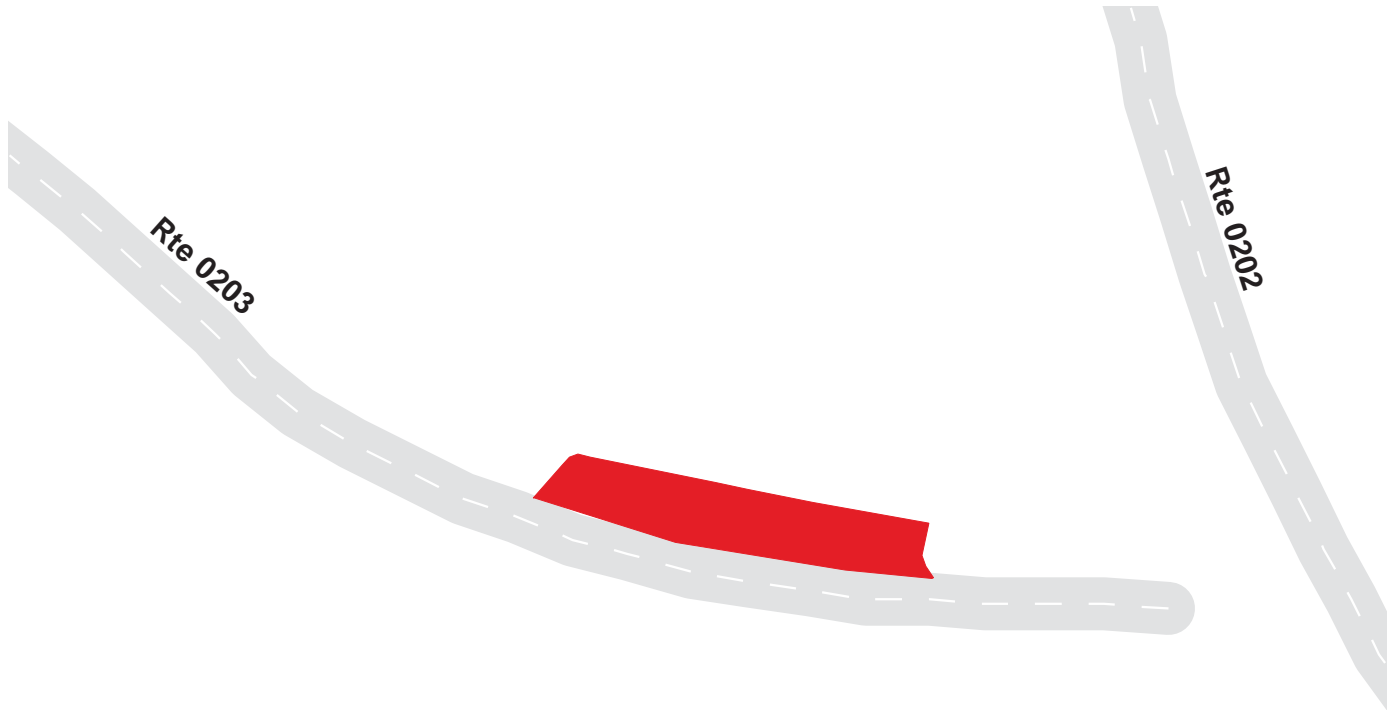
Route 0907C

PICNIC SHELTER PARKING C

Adjacent To Route 0203 at MP 0.02 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0907C	Public	7/2/2003	1706	0.03	AS	GOOD / 90

* Lane miles are based on 11' lane widths



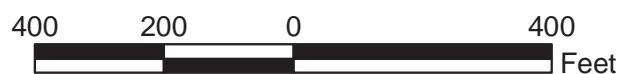
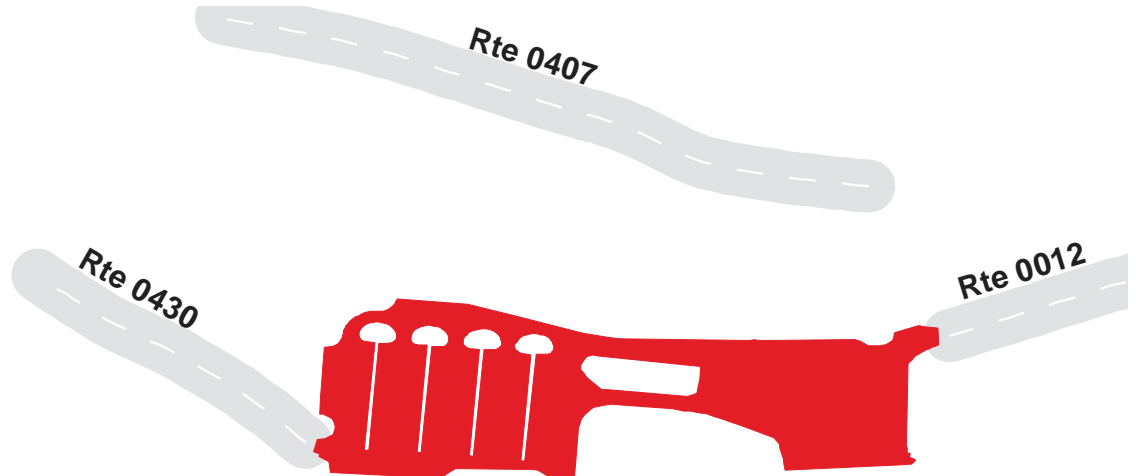
Mammoth Cave National Park

Route 0908

HOTEL PARKING
At End of Route 0012

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0908	Public	7/2/2003	123423	2.13	AS	FAIR / 73

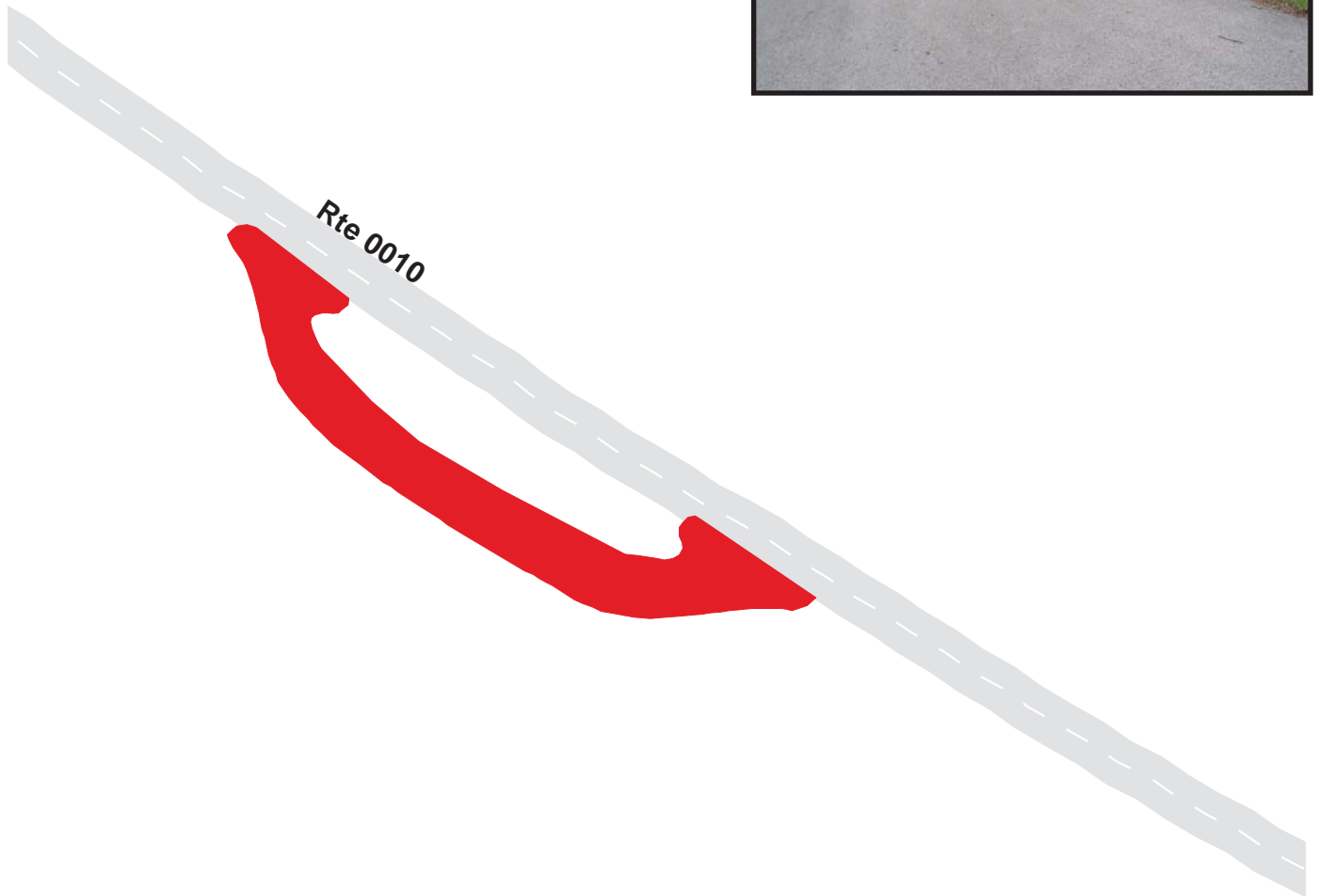
* Lane miles are based on 11' lane widths



Mammoth Cave National Park
Route 0909
 SLOANS CROSSING PICNIC/POND PARKING
 Adjacent To Route 0010 at MP 2.5

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0909	Public	7/1/2003	9386	0.16	AS	GOOD / 90

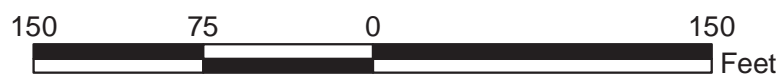
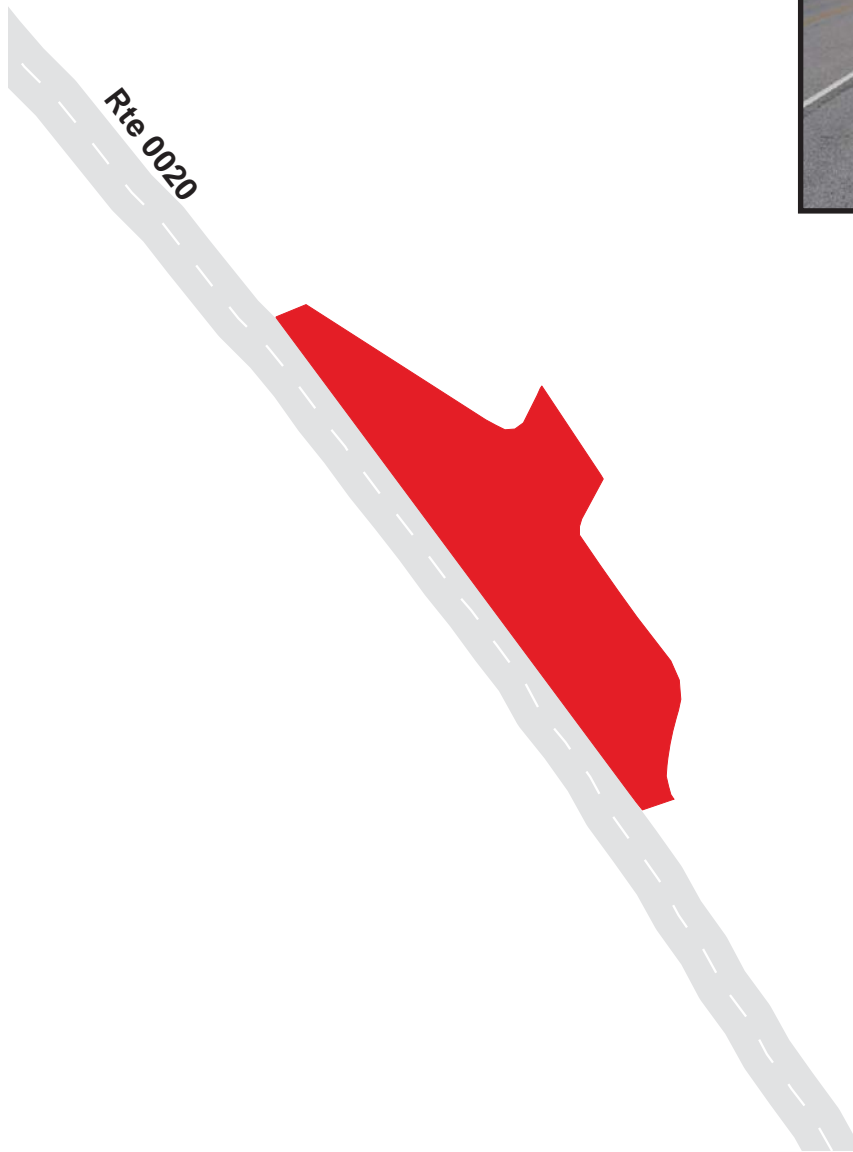
* Lane miles are based on 11' lane widths



Mammoth Cave National Park
Route 0911
 SOUTH ENTRANCE SIGN PARKING
 Adjacent To Route 0020 at MP 0.4 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0911	Public	7/1/2003	9751	0.17	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Mammoth Cave National Park

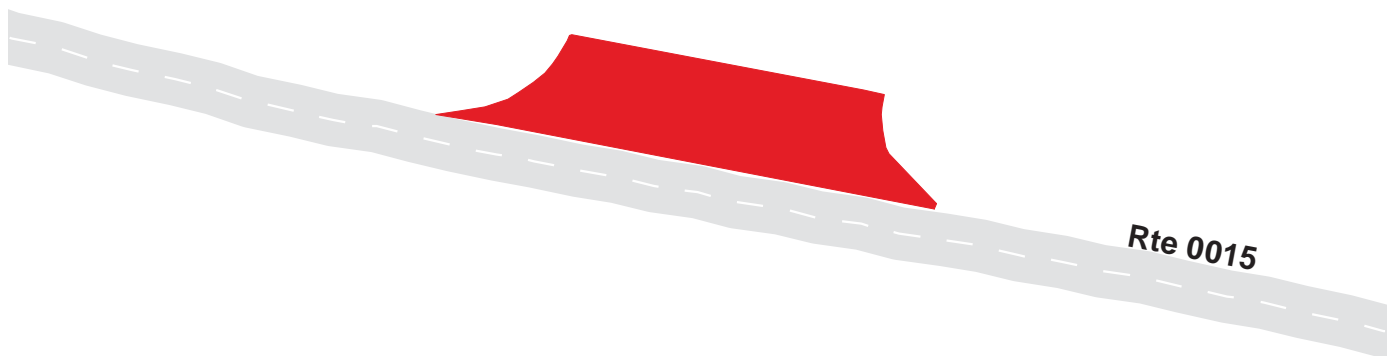
Route 0912

TURNHOLE BEND NATURE TRAIL PARKING

Adjacent To Route 0015 at MP 1.3 on Left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0912	Public	7/1/2003	6049	0.10	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Mammoth Cave National Park
Route 0913
 SAND CAVE PARKING
 Adjacent To Route 0016 at MP 0.15 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0913	Public	7/1/2003	6313	0.11	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Mammoth Cave National Park

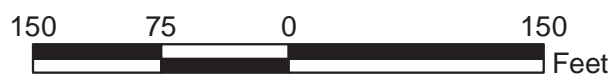
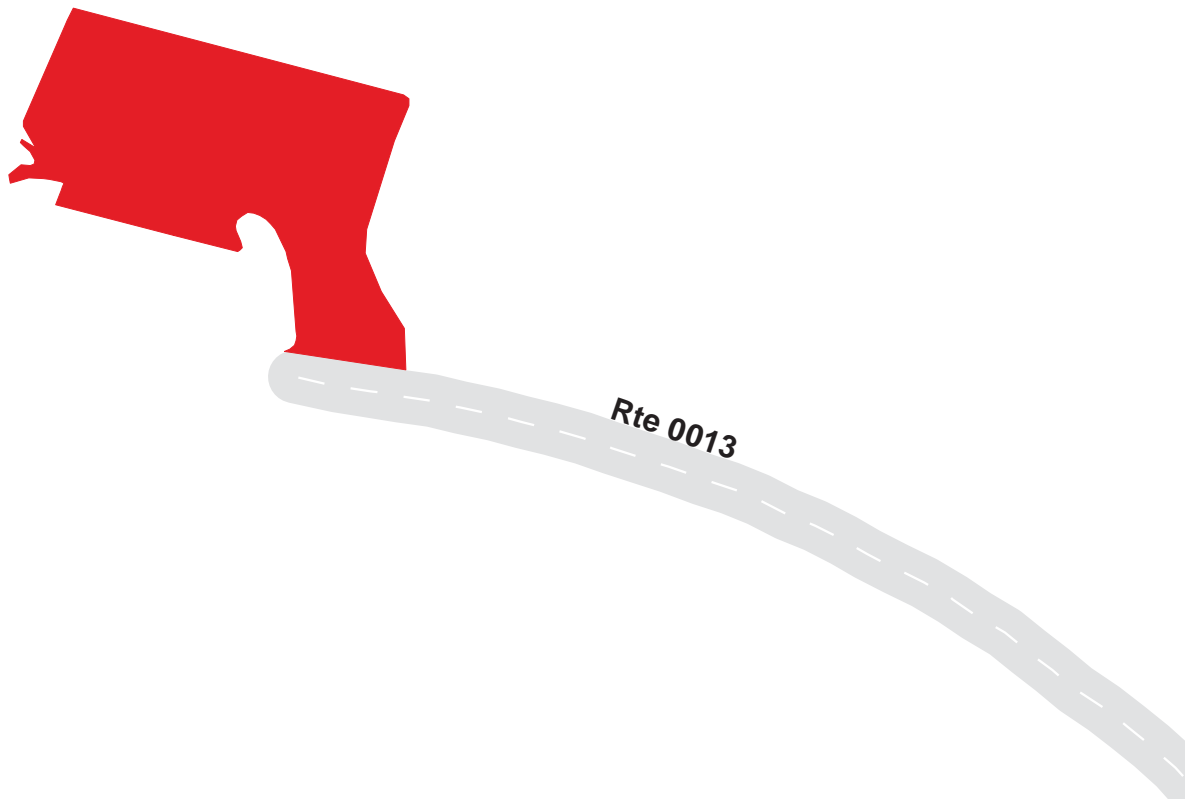
Route 0915

GREEN RIVER FERRY PARKING

Adjacent To Route 0013 at MP 1.30 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0915	Public	7/1/2003	20650	0.36	AS	GOOD / 90

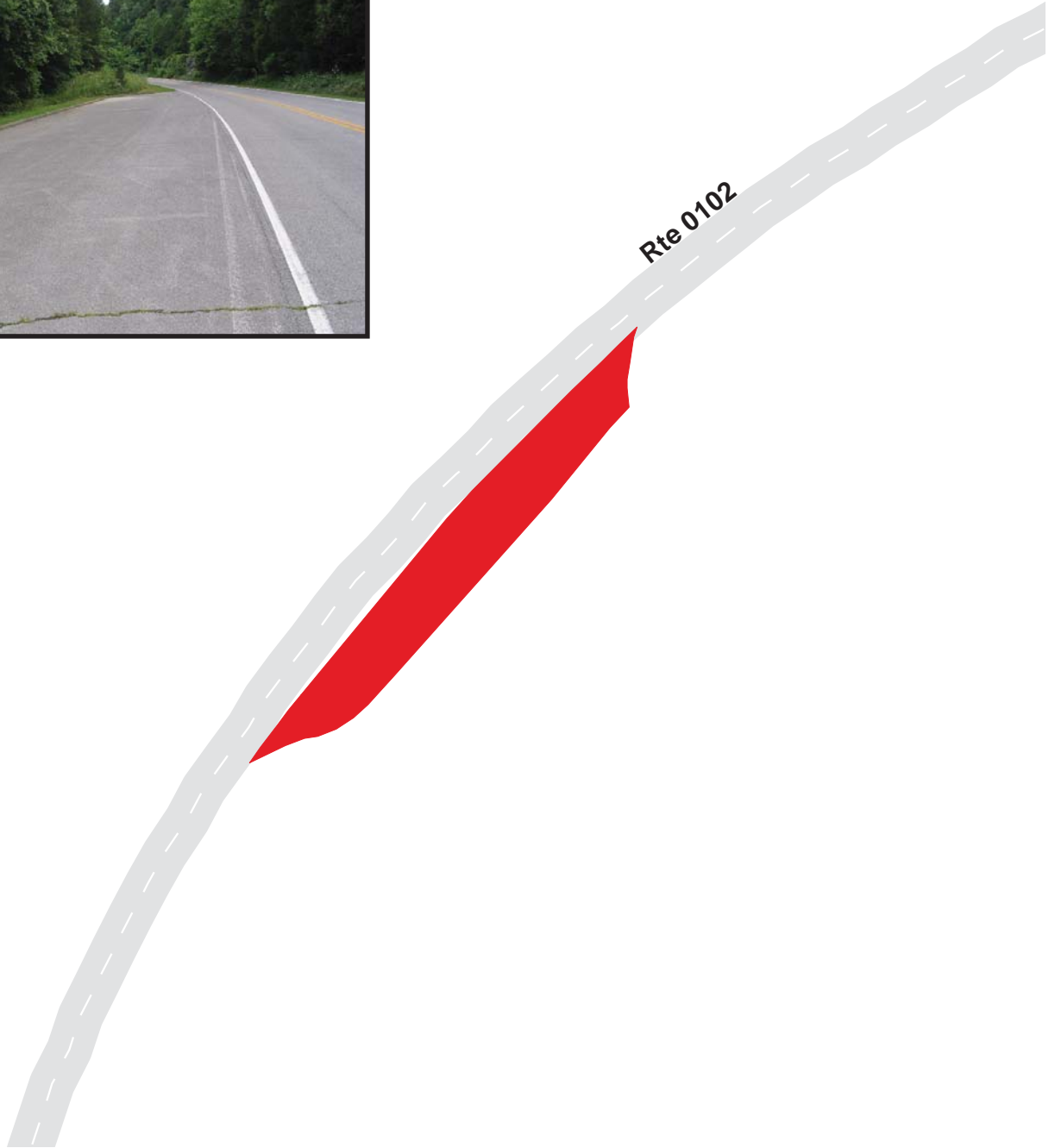
* Lane miles are based on 11' lane widths



Mammoth Cave National Park
Route 0919
 CEDAR SINK TRAILHEAD PARKING
 Adjacent To Route 0102 at MP 0.57 on Left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0919	Public	7/1/2003	5798	0.10	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Mammoth Cave National Park

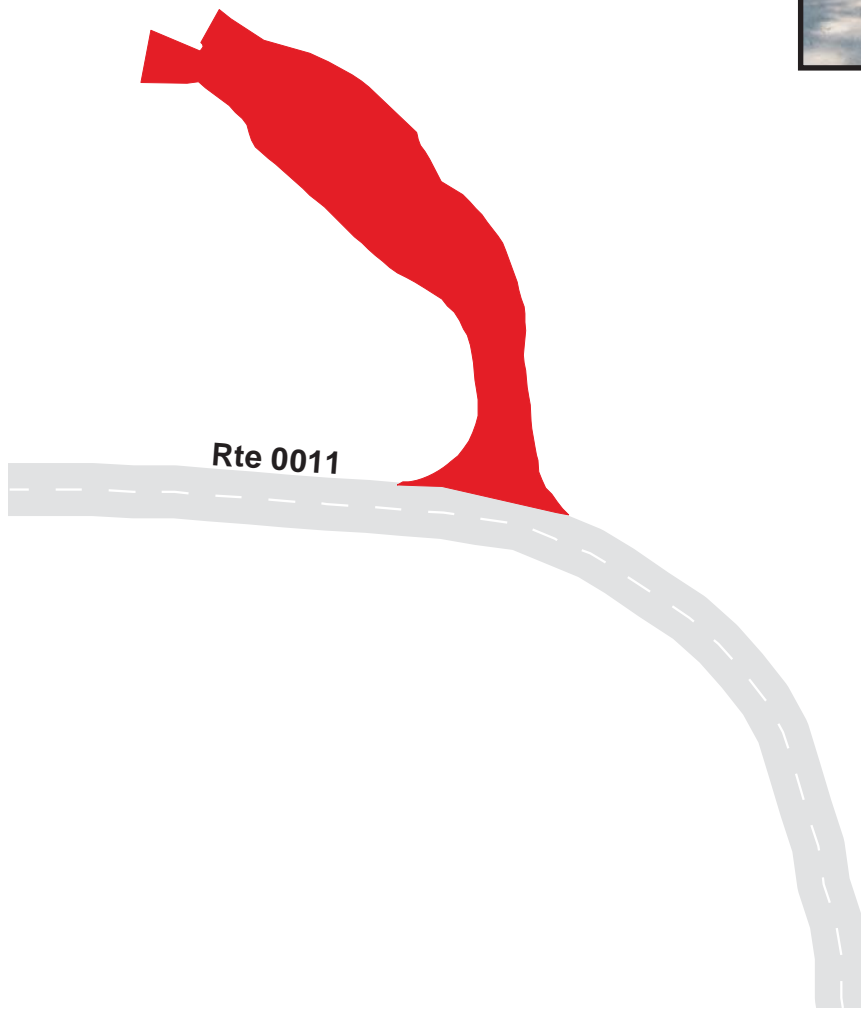
Route 0920

WOODLAND COTTAGES PARKING

Adjacent To Route 0011

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0920	Public	7/2/2003	9697	0.17	AS	FAIR / 73

* Lane miles are based on 11' lane widths



Mammoth Cave National Park

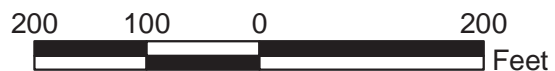
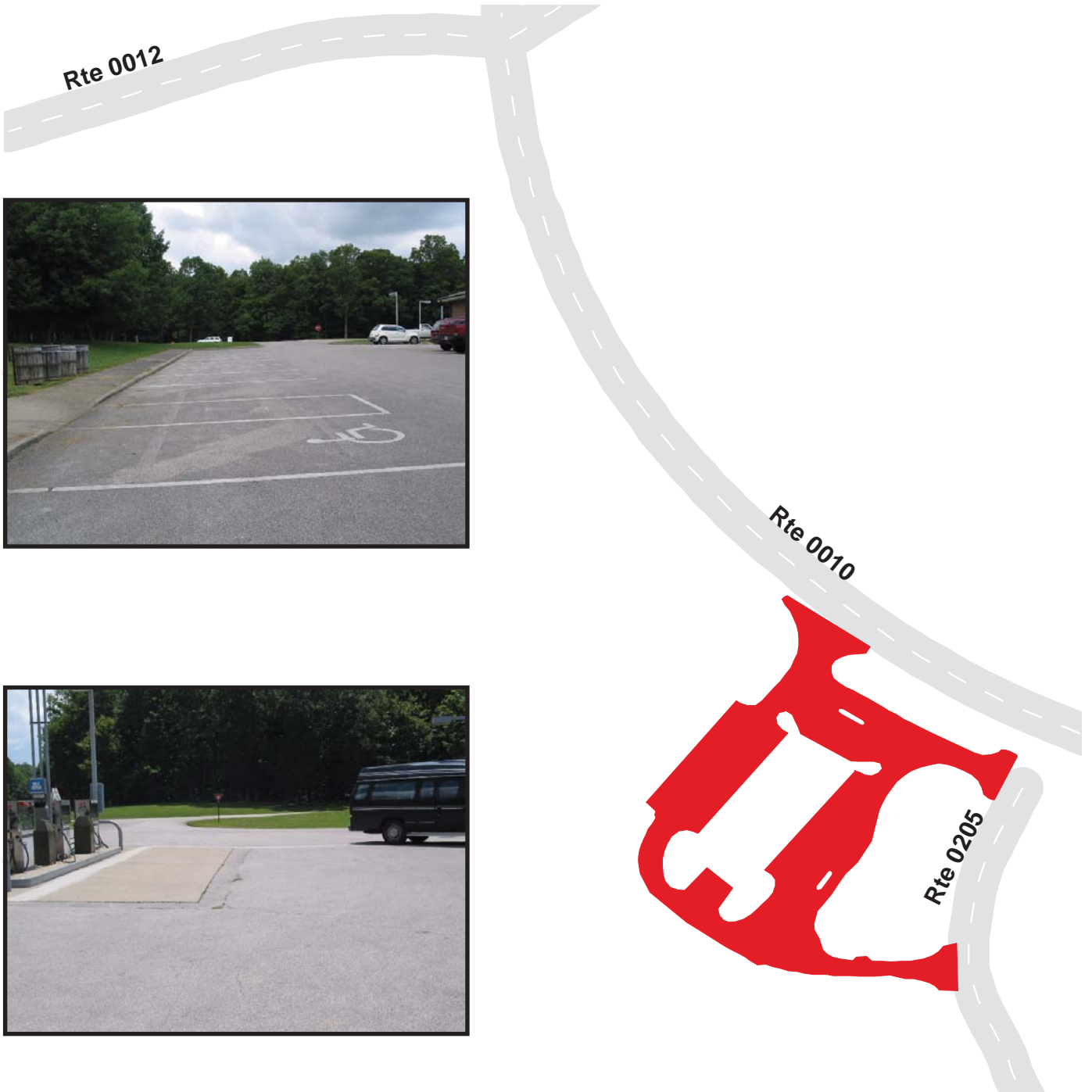
Route 0922

SERVICES PARKING (POST OFFICE/DUMP STATION/GAS)

Adjacent To Route 0010 and Route 0205

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0922	Public	7/2/2003	46198	0.80	AS	GOOD / 90

* Lane miles are based on 11' lane widths



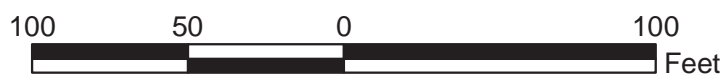
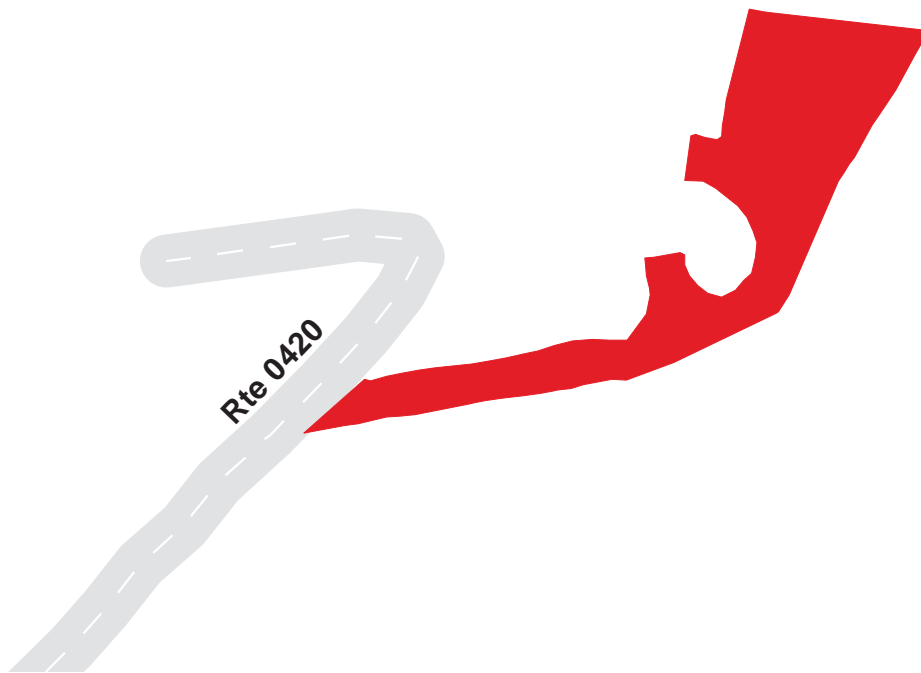
Mammoth Cave National Park

Route 0923

ELEVATOR PARKING
Adjacent To Route 0420

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0923	Public	7/1/2003	4633	0.08	AS	GOOD / 90

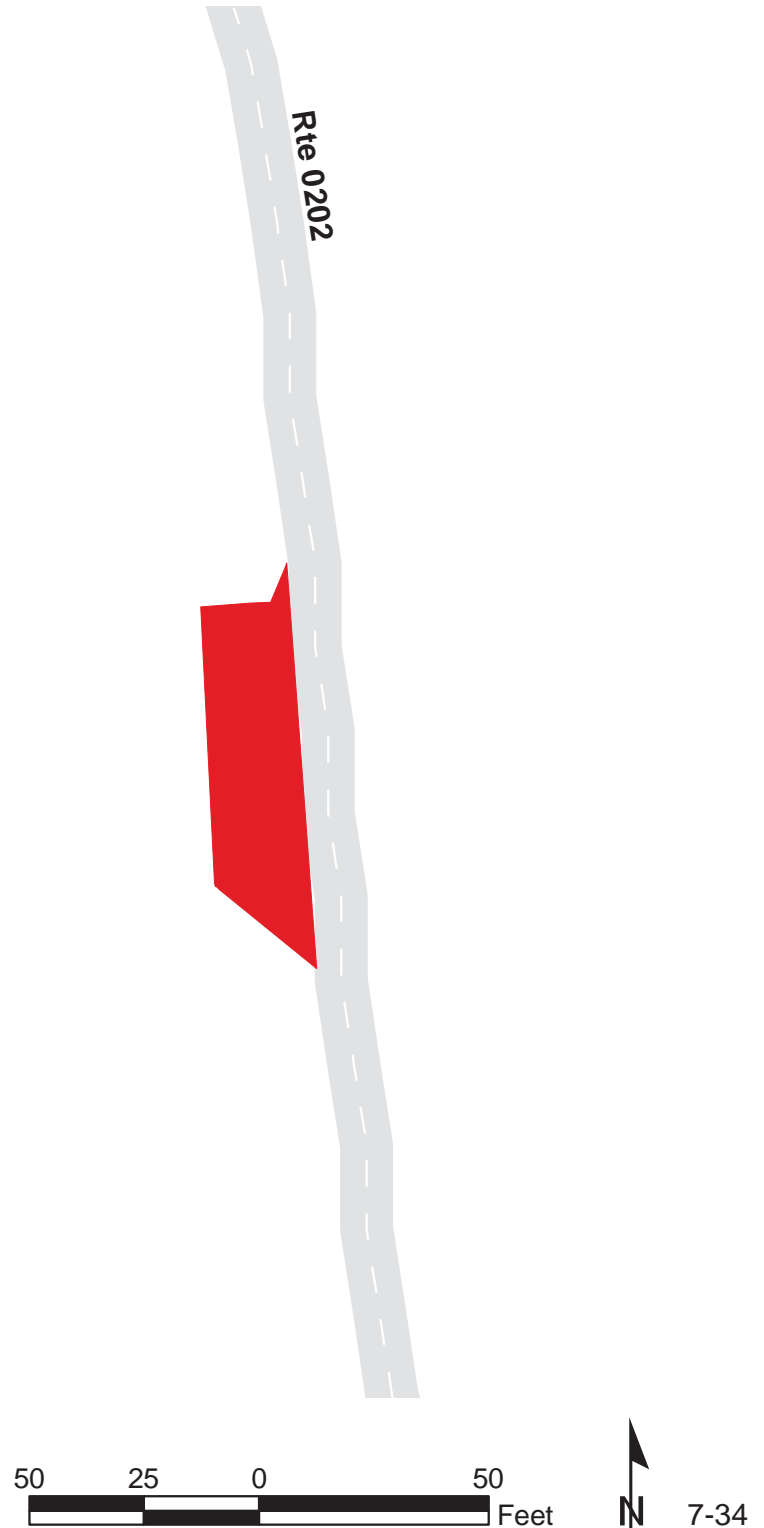
* Lane miles are based on 11' lane widths



Mammoth Cave National Park
Route 0931A
 PICNIC GROUNDS PARKING AREA A
 Adjacent To Route 0202 at MP 0.10 on Left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0931A	Public	7/2/2003	1147	0.02	AS	GOOD / 90

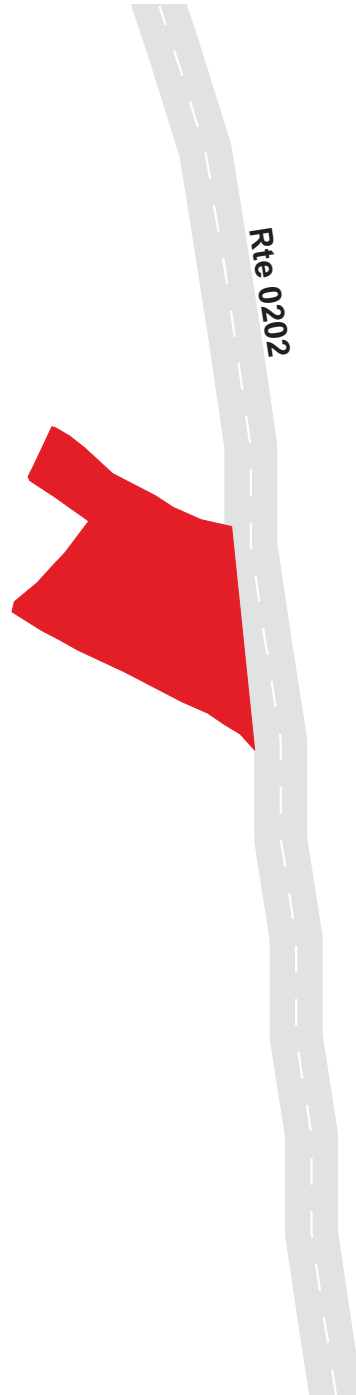
* Lane miles are based on 11' lane widths



Mammoth Cave National Park
Route 0931B
 PICNIC GROUNDS PARKING AREA B
 Adjacent To Route 0202 at MP 0.11 on Left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0931B	Public	7/2/2003	1039	0.02	AS	GOOD / 90

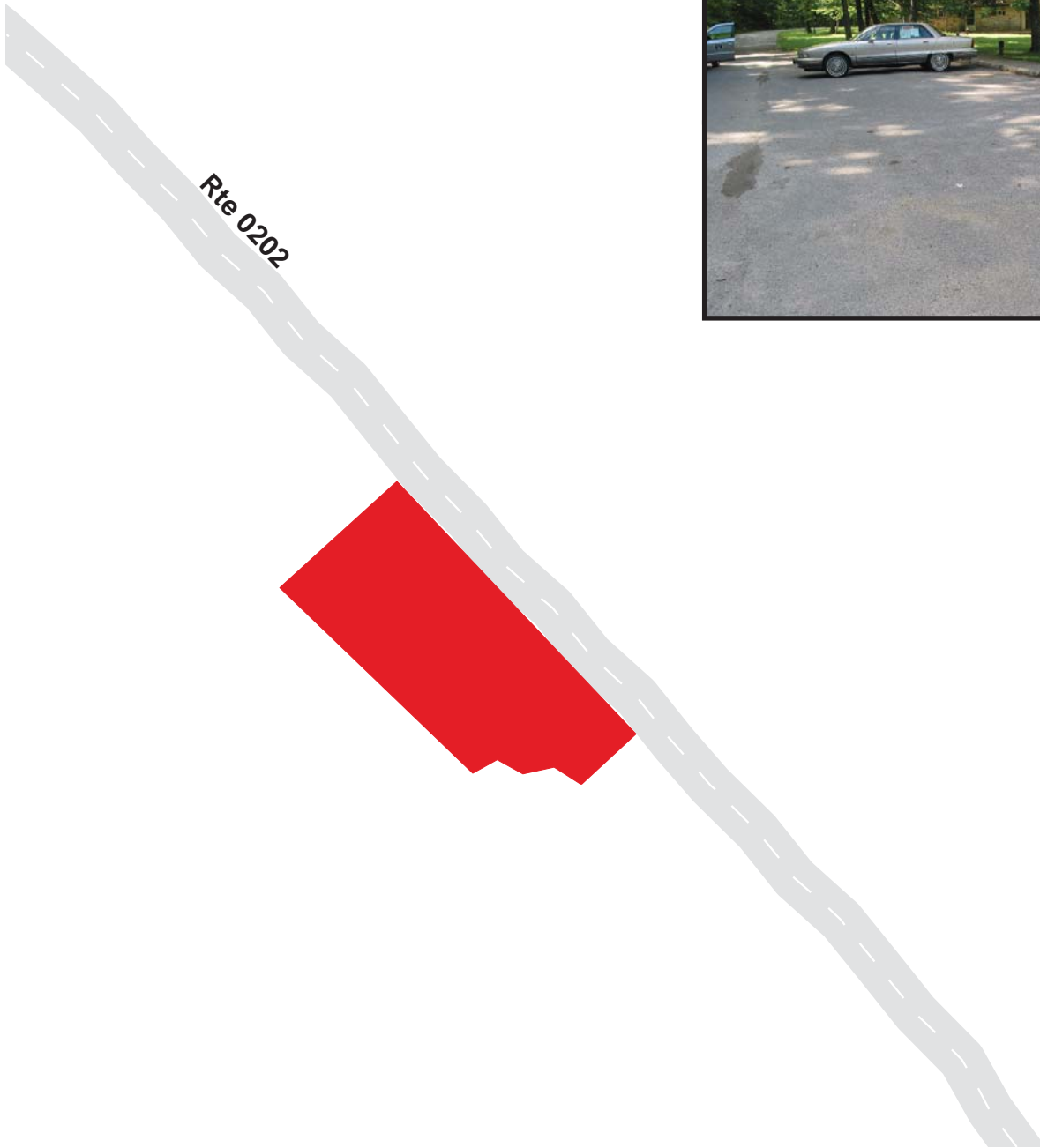
* Lane miles are based on 11' lane widths



Mammoth Cave National Park
Route 0931C
 PICNIC GROUNDS PARKING AREA C
 Adjacent To Route 0202 at MP 0.21 on Left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0931C	Public	7/2/2003	3454	0.06	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Mammoth Cave National Park
Route 0931D
 PICNIC GROUNDS PARKING AREA D
 Adjacent To Route 0202 at MP 0.23 on Left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0931D	Public	7/2/2003	1479	0.03	AS	GOOD / 90

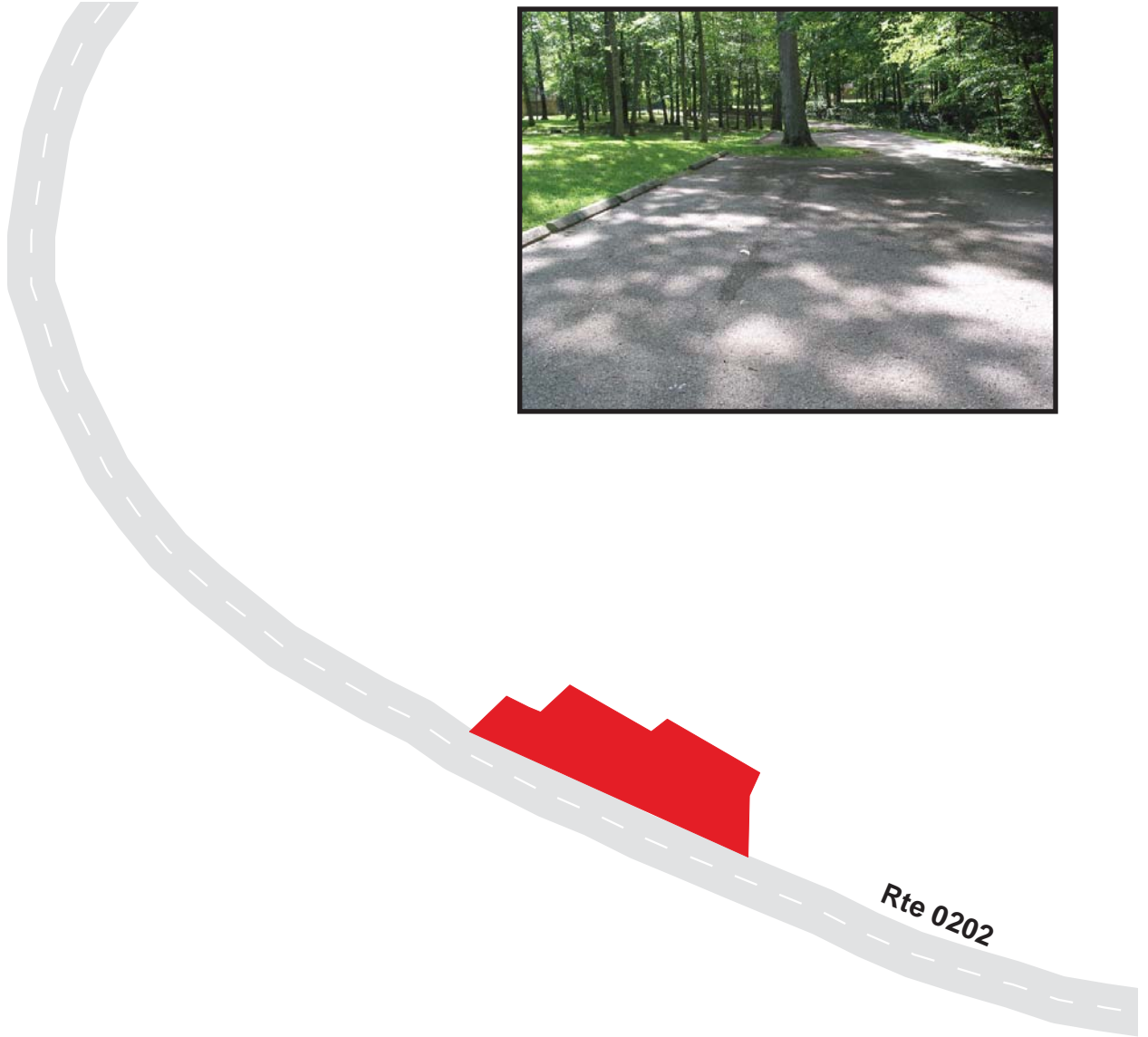
* Lane miles are based on 11' lane widths



Mammoth Cave National Park
Route 0931E
 PICNIC GROUNDS PARKING AREA E
 Adjacent To Route 0202 at MP 0.40 on Left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0931E	Public	7/2/2003	2277	0.04	AS	GOOD / 90

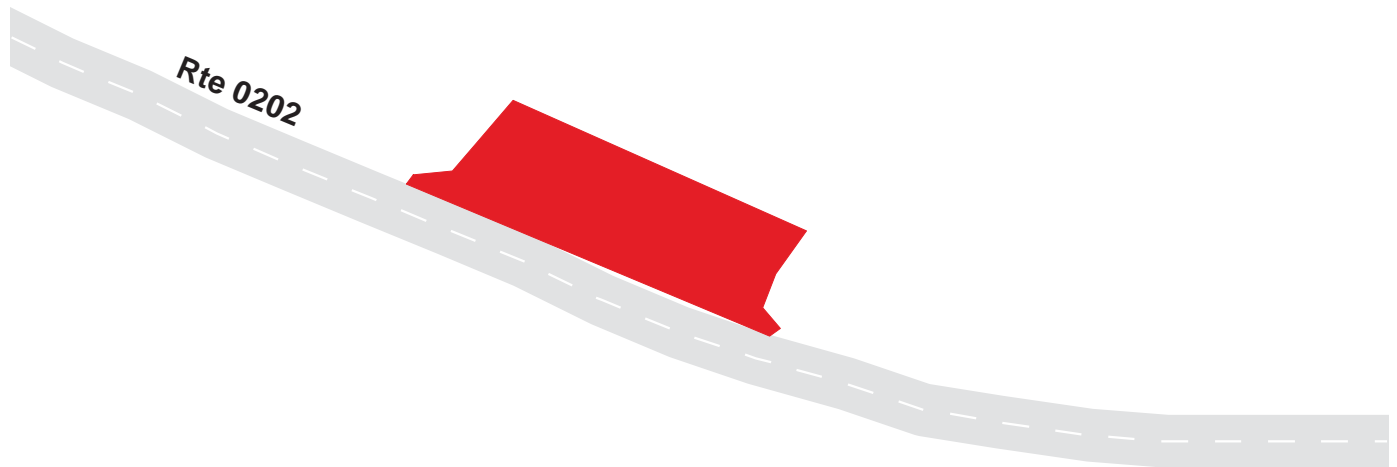
* Lane miles are based on 11' lane widths



Mammoth Cave National Park
Route 0931F
 PICNIC GROUNDS PARKING AREA F
 Adjacent To Route 0202 at MP 0.41 on Left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0931F	Public	7/2/2003	1459	0.03	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Mammoth Cave National Park

Route 0949

RV TURNAROUND PARKING

Adjacent To Route 0205 at MP 0.08 on Left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0949	Public	7/2/2003	4003	0.07	AS	FAIR / 73

* Lane miles are based on 11' lane widths



MACA: PARKWIDE MAINTENANCE FEATURES SUMMARY

<i>FEATURE</i>	<i>PARK TOTAL</i>	<i>UNIT</i>
BRIDGE	0	EACH
CATTLE GUARD	0	EACH
CULVERT	166	EACH
CURB	4,715	LINEAR FEET
DROP INLET	19	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	22,361	LINEAR FEET
INTERSECTION	256	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	1	EACH
PAVED DITCH	12,759	LINEAR FEET
PULLOUT	0	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

MACA: ROUTE MAINTENANCE FEATURES SUMMARY

<i>FEATURE</i>	<i>ROUTE 0010 MAMMOTH CAVE PARKWAY</i>	<i>ROUTE 0011 VISITOR CENTER PARKING ACCESS ROAD</i>	<i>ROUTE 0012 HOTEL ENTRANCE RD</i>	<i>ROUTE 0013 GREEN RIVER FERRY ROAD SOUTH</i>	<i>ROUTE 0014 GREEN RIVER FERRY ROAD NORTH</i>	<i>ROUTE 0015 BROWNSVILLE ROAD</i>	<i>UNIT</i>
BRIDGE	0	0	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	28	0	1	5	25	14	EACH
CURB	1,822	681	0	269	0	454	LINEAR FEET
DROP INLET	5	4	0	1	1	0	EACH
GUARD WALL	0	0	0	0	0	0	LINEAR FEET
GUARDRAIL	2,809	0	0	0	0	2,988	LINEAR FEET
INTERSECTION	18	31	4	5	9	7	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	2,424	0	0	1,088	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

MACA: ROUTE MAINTENANCE FEATURES SUMMARY

<i>FEATURE</i>	<i>ROUTE 0016 CAVE CITY ROAD</i>	<i>ROUTE 0020 PARK CITY ROAD</i>	<i>ROUTE 0101 FLINT RIDGE ROAD</i>	<i>ROUTE 0102 CEDAR SINK ROAD</i>	<i>ROUTE 0103 HOUCHINS FERRY ROAD SOUTH</i>	<i>ROUTE 0103N HOUCHINS FERRY ROAD NORTH</i>	<i>UNIT</i>
BRIDGE	0	0	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	10	2	12	1	6	10	EACH
CURB	232	227	0	74	264	0	LINEAR FEET
DROP INLET	0	0	0	0	0	0	EACH
GUARD WALL	0	0	0	0	0	0	LINEAR FEET
GUARDRAIL	0	12,102	0	1,394	206	0	LINEAR FEET
INTERSECTION	10	9	9	5	3	9	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	1	0	0	0	0	EACH
PAVED DITCH	79	612	0	4,388	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

MACA: ROUTE MAINTENANCE FEATURES SUMMARY

<i>FEATURE</i>	<i>ROUTE 0106 PARK RIDGE ROAD</i>	<i>ROUTE 0110 MAPLE SPRINGS LOOP</i>	<i>ROUTE 0115 OLLIE RIDGE RD (GREAT ONYX JOB CORP CENTER)</i>	<i>ROUTE 0200 FROZEN NIAGARA ENTRANCE ROAD</i>	<i>ROUTE 0201 CARMICHAEL ENTRANCE ROAD</i>	<i>ROUTE 0202 PICNIC GROUNDS ROAD</i>	<i>UNIT</i>
BRIDGE	0	0	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	17	5	1	4	4	1	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	7	3	4	4	12	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	1,623	1,769	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

MACA: ROUTE MAINTENANCE FEATURES SUMMARY

<i>FEATURE</i>	<i>ROUTE 0203 PICNIC SHELTER ROAD</i>	<i>ROUTE 0205 CAMPGROUND ACCESS ROAD</i>	<i>ROUTE 0220 LINCOLN LOOP TRAILHEAD ROAD</i>	<i>ROUTE 0407 HISTORIC ENTRANCE ROAD</i>	<i>ROUTE 0417 PARK MAINTENANCE ROAD</i>	<i>ROUTE 0418 RESIDENCE LOOP ROAD</i>	<i>UNIT</i>
BRIDGE	0	0	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	0	0	1	0	4	0	EACH
CURB	143	32	0	0	0	0	LINEAR FEET
DROP INLET	0	0	0	7	1	0	EACH
GUARD WALL	0	0	0	0	0	0	LINEAR FEET
GUARDRAIL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	6	13	4	2	13	8	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	776	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

MACA: ROUTE MAINTENANCE FEATURES SUMMARY

<i>FEATURE</i>	<i>ROUTE 0419 RESIDENCE ROAD</i>	<i>ROUTE 0420 ELEVATOR SHAFT ROAD</i>	<i>ROUTE 0430 MOTEL ROAD</i>	<i>ROUTE 0500 NEW ENTRANCE LOOP</i>	<i>ROUTE 0501 VISITOR CENTER CAMPGROUND LOOP D</i>	<i>ROUTE 0502 VISITOR CENTER CAMPGROUND LOOP A</i>	<i>UNIT</i>
BRIDGE	0	0	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	1	1	0	2	2	1	EACH
CURB	0	0	438	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	5	4	4	8	4	4	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

MACA: ROUTE MAINTENANCE FEATURES SUMMARY

<i>FEATURE</i>	<i>ROUTE 0503 VISITOR CENTER CAMPGROUND LOOP C</i>	<i>ROUTE 0504 VISITOR CENTER CAMPGROUND LOOP B</i>	<i>ROUTE 5010 STATE HWY 70/255 (MAMMOTH CAVE PARKWAY EXTENDED)</i>	<i>ROUTE 5014 GREEN RIVER FERRY ROAD NORTH</i>	<i>ROUTE 5015 STATE HWY 70/BROWNSVILLE ROAD EXTENSION</i>	<i>ROUTE 5111 CEDAR HILL CHURCH ROAD</i>	<i>UNIT</i>
BRIDGE	0	0	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	0	1	2	0	0	2	EACH
CURB	0	0	0	0	0	79	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	2,070	0	LINEAR FEET
INTERSECTION	4	1	0	0	2	11	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

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : MAMMOTH CAVE PARKWAY

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT HWY 70 / 255 AT PARK SIGN ON BOUNDARY
0.010	0.113	GUARDRAIL	RIGHT	
0.021	0.148	GUARDRAIL	LEFT	
0.098	0.098	CULVERT	N/A	
0.138	0.138	INTERSECTION	LEFT	RTE 020
0.513	0.513	INTERSECTION	RIGHT	RTE 942
0.660	0.660	CULVERT	N/A	
0.729	0.729	INTERSECTION	RIGHT	RTE 428
0.808	0.808	CULVERT	N/A	
0.847	0.847	CULVERT	N/A	
0.990	0.990	CULVERT	N/A	
1.084	1.084	CULVERT	N/A	
1.204	1.204	CULVERT	N/A	
1.434	1.434	CULVERT	N/A	
1.510	1.510	CULVERT	N/A	
1.723	1.723	CULVERT	N/A	
2.083	2.083	CULVERT	N/A	
2.274	2.274	CULVERT	N/A	
2.524	2.524	INTERSECTION	LEFT	RTE 909
2.571	2.571	INTERSECTION	LEFT	RTE 909
2.644	2.711	CURB	LEFT	
2.679	2.679	INTERSECTION	RIGHT	RTE 010 SPUR
2.688	2.715	CURB	RIGHT	
2.713	2.713	DROP INLET	LEFT	
2.721	2.721	INTERSECTION	LEFT	RTE 015
2.729	2.771	CURB	RIGHT	

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : MAMMOTH CAVE PARKWAY

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
2.776	2.776	INTERSECTION	RIGHT	RTE 010 SPUR
2.822	2.883	PAVED DITCH	LEFT	
2.826	2.826	DROP INLET	RIGHT	
2.917	2.926	PAVED DITCH	RIGHT	
2.922	2.942	PAVED DITCH	LEFT	
2.934	3.051	GUARDRAIL	RIGHT	
3.125	3.125	CULVERT	N/A	
3.349	3.349	CULVERT	N/A	
3.461	3.566	GUARDRAIL	RIGHT	
3.628	3.708	GUARDRAIL	LEFT	
3.630	3.674	CURB	RIGHT	
3.661	3.661	INTERSECTION	RIGHT	RTE 900
3.725	3.780	PAVED DITCH	RIGHT	
3.795	3.795	DROP INLET	RIGHT	
3.795	3.811	PAVED DITCH	RIGHT	
3.805	3.805	CULVERT	N/A	
3.852	3.852	DROP INLET	RIGHT	
3.853	3.853	CULVERT	N/A	
3.932	3.932	CULVERT	N/A	
4.014	4.014	CULVERT	N/A	
4.171	4.171	CULVERT	N/A	
4.226	4.244	PAVED DITCH	RIGHT	
4.244	4.244	CULVERT	N/A	
4.338	4.338	CULVERT	N/A	
4.355	4.355	INTERSECTION	LEFT	RTE 201
4.361	4.361	INTERSECTION	RIGHT	RTE 016
4.391	4.391	CULVERT	N/A	

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : MAMMOTH CAVE PARKWAY

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
4.522	4.626	PAVED DITCH	RIGHT	
4.623	4.623	CULVERT	N/A	
4.625	4.625	DROP INLET	RIGHT	
4.679	4.741	PAVED DITCH	RIGHT	
4.693	4.693	CULVERT	N/A	
5.009	5.009	CULVERT	N/A	
5.038	5.038	CULVERT	N/A	
5.065	5.065	INTERSECTION	RIGHT	RTE 417
5.066	5.066	INTERSECTION	LEFT	RTE 013
5.081	5.120	PAVED DITCH	LEFT	
5.281	5.281	CULVERT	N/A	
5.392	5.436	CURB	LEFT	
5.441	5.441	INTERSECTION	LEFT	RTE 205
5.450	5.472	CURB	LEFT	
5.465	5.465	CULVERT	N/A	
5.484	5.484	INTERSECTION	LEFT	RTE 922
5.493	5.514	CURB	LEFT	
5.534	5.609	PAVED DITCH	RIGHT	
5.584	5.620	CURB	LEFT	
5.625	5.625	INTERSECTION	LEFT	RTE 012
5.634	5.634	INTERSECTION	RIGHT	RTE 101
5.642	5.676	CURB	LEFT	
5.727	5.735	CURB	LEFT	
5.740	5.740			ROUTE ENDS AT ROUTE 0011
5.750	5.750	INTERSECTION	LEFT	ROUTE 011

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0011 : VISITOR CENTER PARKING 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 END OF ROUTE 0010
0.003	0.003	INTERSECTION	RIGHT	END OF ROUTE 0010
0.025	0.025	INTERSECTION	RIGHT	ROUTE 010
0.087	0.087	INTERSECTION	RIGHT	RTE 920
0.104	0.104	INTERSECTION	LEFT	RTE 901A
0.112	0.112	INTERSECTION	LEFT	RTE 901A
0.126	0.126	INTERSECTION	LEFT	RTE 901A
0.134	0.134	INTERSECTION	LEFT	RTE 901A
0.147	0.147	INTERSECTION	RIGHT	RTE 202
0.149	0.149	INTERSECTION	LEFT	RTE 901A
0.159	0.159	INTERSECTION	LEFT	RTE 901A
0.170	0.170	INTERSECTION	LEFT	RTE 901A
0.181	0.181	INTERSECTION	LEFT	RTE 901A
0.194	0.194	INTERSECTION	LEFT	RTE 901A
0.209	0.209	INTERSECTION	LEFT	RTE 901A
0.221	0.221	INTERSECTION	LEFT	RTE 901A
0.268	0.268	INTERSECTION	RIGHT	RTE 901C
0.271	0.304	CURB	RIGHT	
0.277	0.277	INTERSECTION	LEFT	RTE 901A
0.286	0.286	DROP INLET	RIGHT	
0.286	0.286	DROP INLET	RIGHT	
0.286	0.286	INTERSECTION	LEFT	RTE 901A
0.297	0.297	INTERSECTION	LEFT	RTE 901A
0.309	0.309	INTERSECTION	LEFT	RTE 901A
0.309	0.309	INTERSECTION	RIGHT	RTE 901C
0.314	0.314	DROP INLET	RIGHT	
0.320	0.320	INTERSECTION	LEFT	RTE 901A

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0011 : VISITOR CENTER PARKING ACCESS ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.321	0.321	INTERSECTION	RIGHT	
0.326	0.412	CURB	RIGHT	
0.331	0.331	INTERSECTION	LEFT	RTE 901A
0.340	0.340	INTERSECTION	LEFT	RTE 901A
0.348	0.348	DROP INLET	RIGHT	
0.353	0.353	INTERSECTION	LEFT	RTE 901A
0.363	0.363	INTERSECTION	LEFT	RTE 901A
0.373	0.373	INTERSECTION	LEFT	RTE 901A
0.382	0.382	INTERSECTION	LEFT	RTE 901A
0.392	0.392	INTERSECTION	LEFT	RTE 901A
0.396	0.406	CURB	LEFT	
0.400	0.400			ROUTE ENDS AT END OF LOOP AROUND ROUTE 0901A
0.412	0.412	INTERSECTION	LEFT	RTE 901A

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0012 : HOTEL ENTRANCE RD

<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 0010 AT MP 560 ON LEFT
0.001	0.001	INTERSECTION	LEFT	ROUTE 0010
0.004	0.004	INTERSECTION	RIGHT	ROUTE 0010
0.088	0.088	CULVERT	N/A	
0.093	0.093	INTERSECTION	RIGHT	ROUTE 901B
0.095	0.095	INTERSECTION	LEFT	ROUTE 0908
0.100	0.100			ROUTE ENDS AT ROUTE 0908

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0013 : GREEN RIVER FERRY ROAD SOUTH

<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 0010 AT MP 5
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0010
0.002	0.002	INTERSECTION	LEFT	ROUTE 0010
0.004	0.004	CULVERT	N/A	
0.079	0.079	INTERSECTION	RIGHT	RTE 431
0.310	0.310	CULVERT	N/A	
0.356	0.356	CULVERT	N/A	
0.452	0.452	CULVERT	N/A	
0.464	0.670	PAVED DITCH	RIGHT	
0.672	0.672	CULVERT	N/A	
0.676	0.676	DROP INLET	RIGHT	
0.793	0.793	INTERSECTION	LEFT	RTE 113
1.274	1.274	INTERSECTION	RIGHT	RTE 915
1.281	1.309	CURB	LEFT	
1.286	1.309	CURB	RIGHT	
1.300	1.300			ROUTE ENDS AT ROUTE 0803, GREEN RIVER FERRY CROSSING RAMP # 1

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0014 : GREEN RIVER FERRY ROAD NORTH

<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
0.016	0.016	INTERSECTION	RIGHT	
0.157	0.157	CULVERT	N/A	
0.200	0.200	INTERSECTION	RIGHT	UNKNOWN
0.373	0.373	INTERSECTION	LEFT	UNKNOWN
0.601	0.601	INTERSECTION	LEFT	UNKNOWN
0.698	0.698	CULVERT	N/A	
1.090	1.090	INTERSECTION	RIGHT	RTE 110
1.706	1.706	CULVERT	N/A	
1.862	1.862	CULVERT	N/A	
1.927	1.927	CULVERT	N/A	
2.022	2.022	INTERSECTION	RIGHT	RTE 110 NEW CONSTRUCTION
2.057	2.057	DROP INLET	RIGHT	
2.066	2.066	INTERSECTION	RIGHT	110 OLD SECTION
2.502	2.502	CULVERT	N/A	
2.612	2.612	CULVERT	N/A	
2.915	2.915	CULVERT	N/A	
3.285	3.285	CULVERT	N/A	
3.294	3.294	INTERSECTION	LEFT	
3.336	3.336	CULVERT	N/A	
3.426	3.426	CULVERT	N/A	
3.478	3.478	CULVERT	N/A	
3.530	3.530	CULVERT	N/A	
3.600	3.600	CULVERT	N/A	
3.665	3.665	CULVERT	N/A	
3.733	3.733	CULVERT	N/A	
3.775	3.775	CULVERT	N/A	

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0014 : GREEN RIVER FERRY ROAD NORTH

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
3.864	3.864	CULVERT	N/A	
3.902	3.902	CULVERT	N/A	
3.943	3.943	CULVERT	N/A	
3.970	3.970	CULVERT	N/A	
4.001	4.001	CULVERT	N/A	
4.035	4.035	CULVERT	N/A	
4.059	4.059	CULVERT	N/A	
4.099	4.099	CULVERT	N/A	
4.116	4.116	INTERSECTION	RIGHT	RTE 950
4.170	4.170			ROUTE ENDS AT ROUTE 0802, GREEN RIVER FERRY CROSSING RAMP #2

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0015 : BROWNSVILLE 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 WEST PARK BOUNDARY AT INTERSECTION OF COUNTY HIGHW
0.018	0.018	CULVERT	N/A	
0.251	0.251	CULVERT	N/A	
0.589	0.589	CULVERT	N/A	
0.709	0.709	CULVERT	N/A	
0.869	1.076	GUARDRAIL	LEFT	
0.891	1.135	GUARDRAIL	RIGHT	
1.247	1.333	GUARDRAIL	RIGHT	
1.249	1.249	CULVERT	N/A	
1.295	1.295	INTERSECTION	LEFT	RTE 912
1.308	1.313	CURB	LEFT	
1.538	1.538	CULVERT	N/A	
1.720	1.749	GUARDRAIL	LEFT	
1.727	1.727	INTERSECTION	RIGHT	RTE 102
1.804	1.804	INTERSECTION	RIGHT	RTE 400
2.167	2.167	CULVERT	N/A	
2.418	2.418	CULVERT	N/A	
2.550	2.550	CULVERT	N/A	
2.648	2.648	INTERSECTION	LEFT	RTE 945
2.824	2.824	INTERSECTION	LEFT	RTE 113
2.948	2.948	CULVERT	N/A	
3.387	3.387	CULVERT	N/A	
3.438	3.438	CULVERT	N/A	
3.665	3.665	CULVERT	N/A	
4.411	4.411	INTERSECTION	RIGHT	RTE 406
4.823	4.823	CULVERT	N/A	

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0015 : BROWNSVILLE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
4.956	5.037	CURB	LEFT	
5.040	5.040			ROUTE ENDS AT ROUTE 0010
5.043	5.043	INTERSECTION	LEFT	RTE 010

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0016 : CAVE CITY 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 HIGHWAY 255 EAST BOUNDARY
0.024	0.024	INTERSECTION	RIGHT	
0.150	0.194	CURB	RIGHT	
0.171	0.171	INTERSECTION	RIGHT	RTE 913
0.185	0.185	CULVERT	N/A	
0.309	0.309	INTERSECTION	RIGHT	RTE 106
0.612	0.612	CULVERT	N/A	
0.676	0.676	INTERSECTION	RIGHT	RTE 944
1.119	1.119	CULVERT	N/A	
1.123	1.123	INTERSECTION	LEFT	RTE UNKNOWN
1.215	1.215	INTERSECTION	LEFT	RTE 200
1.351	1.351	INTERSECTION	LEFT	RTE 433
1.415	1.415	CULVERT	N/A	
1.609	1.609	CULVERT	N/A	
1.810	1.810	CULVERT	N/A	
2.080	2.080	CULVERT	N/A	
2.214	2.214	CULVERT	N/A	
2.383	2.398	PAVED DITCH	RIGHT	
2.405	2.405	CULVERT	N/A	
2.420	2.420	INTERSECTION	RIGHT	RTE 420
2.873	2.873	CULVERT	N/A	
2.990	2.990			ROUTE ENDS AT ROUTE 0010
2.998	2.998	INTERSECTION	LEFT	ROUTE 0010
2.999	2.999	INTERSECTION	RIGHT	ROUTE 0010

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0020 : PARK CITY 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 I-65 AT PARK BOUNDARY (PARK CITY)
0.055	0.174	GUARDRAIL	LEFT	
0.135	0.135	CULVERT	N/A	
0.161	0.173	GUARDRAIL	RIGHT	
0.168	0.168	INTERSECTION	LEFT	RTE 5602
0.176	0.176	INTERSECTION	RIGHT	RTE 5601
0.188	0.313	GUARDRAIL	LEFT	
0.192	0.204	GUARDRAIL	RIGHT	
0.360	0.403	CURB	RIGHT	
0.376	0.376	INTERSECTION	RIGHT	RTE 911
0.380	0.624	GUARDRAIL	LEFT	
0.399	0.399	PARK BOUNDARY	N/A	
0.489	0.524	GUARDRAIL	RIGHT	
0.632	0.678	GUARDRAIL	RIGHT	
0.683	0.790	GUARDRAIL	LEFT	
0.774	1.138	GUARDRAIL	RIGHT	
0.915	1.027	GUARDRAIL	LEFT	
1.076	1.116	GUARDRAIL	LEFT	
1.114	1.181	PAVED DITCH	LEFT	
1.139	1.188	PAVED DITCH	RIGHT	
1.194	1.194	INTERSECTION	LEFT	RTE 5603
1.196	1.196	INTERSECTION	RIGHT	DIAMOND CAVERNS PARKING
1.286	1.286	INTERSECTION	RIGHT	DIAMOND CAVERNS PARKING
1.286	1.697	GUARDRAIL	LEFT	
1.301	1.636	GUARDRAIL	RIGHT	
1.635	1.635	INTERSECTION	RIGHT	UNKNOWN
1.840	1.913	GUARDRAIL	RIGHT	

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0020 : PARK CITY ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
1.873	1.911	GUARDRAIL	LEFT	
1.879	1.879	CULVERT	N/A	
1.965	2.087	GUARDRAIL	RIGHT	
2.010	2.010	INTERSECTION	LEFT	RTE 5111
2.075	2.139	GUARDRAIL	LEFT	
2.211	2.244	GUARDRAIL	LEFT	
2.220	2.220			ROUTE ENDS AT ROUTE 0010 (CHAUMONT INTERSECTION)
2.226	2.226	INTERSECTION	RIGHT	ROUTE 0010 (CHAUMONT INTERSECTION)

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0101 : FLINT RIDGE 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 0010 AT MP 563 ON RIGHT
0.001	0.001	INTERSECTION	RIGHT	ROUTE 0010
0.002	0.002	INTERSECTION	LEFT	ROUTE 0010
0.190	0.190	CULVERT	N/A	
0.199	0.199	CULVERT	N/A	
0.235	0.235	CULVERT	N/A	
0.610	0.610	CULVERT	N/A	
0.771	0.771	CULVERT	N/A	
0.903	0.903	CULVERT	N/A	
1.032	1.032	CULVERT	N/A	
1.075	1.075	INTERSECTION	RIGHT	(3 SPRINGS)
1.078	1.078	CULVERT	N/A	
1.313	1.313	CULVERT	N/A	
1.337	1.337	CULVERT	N/A	
1.672	1.672	INTERSECTION	LEFT	RTE 104
1.976	1.976	INTERSECTION	LEFT	RTE 943
1.995	1.995	CULVERT	N/A	
2.007	2.007	INTERSECTION	LEFT	RTE 943
2.862	2.862	INTERSECTION	RIGHT	RTE 423
3.371	3.371	INTERSECTION	LEFT	RTE 105
3.546	3.546	CULVERT	N/A	
3.610	3.610			ROUTE ENDS AT PARK BOUNDARY AT END ROUTE 0106 (PARK RIDGE ROAD)
3.619	3.619	INTERSECTION	RIGHT	RTE 106

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0102 : CEDAR SINK 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 0015 AT MP 173 ON RIGHT
0.001	0.001	INTERSECTION	RIGHT	ROUTE 0015
0.001	0.001	INTERSECTION	LEFT	ROUTE 0015
0.033	0.045	PAVED DITCH	RIGHT	
0.085	0.168	PAVED DITCH	RIGHT	
0.183	0.221	GUARDRAIL	RIGHT	
0.238	0.342	PAVED DITCH	RIGHT	
0.348	0.396	GUARDRAIL	RIGHT	
0.435	0.476	GUARDRAIL	RIGHT	
0.480	0.554	GUARDRAIL	LEFT	
0.540	0.554	CURB	LEFT	
0.558	0.558	INTERSECTION	RIGHT	UNKNOWN
0.561	0.642	PAVED DITCH	RIGHT	
0.564	0.564	INTERSECTION	LEFT	RTE 919
0.605	0.667	PAVED DITCH	LEFT	
0.729	1.004	PAVED DITCH	RIGHT	
0.740	0.825	PAVED DITCH	LEFT	
0.859	0.922	GUARDRAIL	LEFT	
0.892	0.892	CULVERT	N/A	
0.918	1.047	PAVED DITCH	LEFT	
1.220	1.220			ROUTE ENDS AT SOUTHWEST PARK BOUNDARY
1.225	1.225	INTERSECTION	RIGHT	ROY DAVIS DRIVE

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0103 : HOUCHINS FERRY ROAD SOUTH

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT BROWNSVILLE PARK BOUNDARY
0.036	0.086	CURB	LEFT	
0.054	0.054	CULVERT	N/A	
0.326	0.326	CULVERT	N/A	
0.377	0.416	GUARDRAIL	RIGHT	
0.432	0.432	CULVERT	N/A	
0.497	0.497	CULVERT	N/A	
0.678	0.678	CULVERT	N/A	
0.745	0.745	CULVERT	N/A	
1.030	1.030			ROUTE ENDS AT ROUTE 0800, HOUCHINS FERRY CROSSING RAMP #1
1.032	1.032	INTERSECTION	LEFT	RTE 222
1.036	1.036	INTERSECTION	RIGHT	RTE 904A
1.039	1.039	INTERSECTION	LEFT	RTE 904B

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0103N : HOUCHINS FERRY ROAD NORTH

<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 0801 HOUCHIN FERRY RAMP CROSSING #2
0.022	0.022	INTERSECTION	LEFT	UNKNOWN
0.051	0.051	CULVERT	N/A	
0.139	0.139	CULVERT	N/A	
0.154	0.154	CULVERT	N/A	
0.201	0.201	CULVERT	N/A	
0.334	0.334	CULVERT	N/A	
0.593	0.593	CULVERT	N/A	
0.832	0.832	CULVERT	N/A	
1.627	1.627	INTERSECTION	LEFT	
1.961	1.961	INTERSECTION	RIGHT	
2.023	2.023	INTERSECTION	RIGHT	
2.639	2.639	CULVERT	N/A	
3.076	3.076	CULVERT	N/A	
4.409	4.409	CULVERT	N/A	
4.919	4.919	INTERSECTION	RIGHT	
5.239	5.239	INTERSECTION	LEFT	
5.330	5.330			ROUTE ENDS AT OLLIE ROAD, OLLIE RIDGE ROAD INTERSECTION
5.336	5.336	INTERSECTION	LEFT	
5.616	5.616	INTERSECTION	LEFT	
5.685	5.685	INTERSECTION	LEFT	

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0106 : PARK RIDGE 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 0016 AT MP 030 ON RIGHT
0.001	0.001	INTERSECTION	LEFT	ROUTE 0016
0.002	0.002	INTERSECTION	RIGHT	ROUTE 0016
0.225	0.225	CULVERT	N/A	
0.366	0.366	CULVERT	N/A	
0.448	0.448	CULVERT	N/A	
0.504	0.504	CULVERT	N/A	
0.570	0.570	CULVERT	N/A	
0.611	0.611	CULVERT	N/A	
0.658	0.658	CULVERT	N/A	
0.694	0.694	CULVERT	N/A	
0.789	0.789	CULVERT	N/A	
0.831	0.831	CULVERT	N/A	
0.876	0.876	CULVERT	N/A	
0.908	0.908	CULVERT	N/A	
1.260	1.260	INTERSECTION	RIGHT	R HUNTER ROAD
1.348	1.348	CULVERT	N/A	
1.546	1.546	CULVERT	N/A	
2.822	2.822	INTERSECTION	RIGHT	HAMILTON VALLEY ROAD
2.908	2.908	CULVERT	N/A	
2.978	2.978	CULVERT	N/A	
3.099	3.099	CULVERT	N/A	
3.263	3.263	INTERSECTION	RIGHT	
3.595	3.595	INTERSECTION	RIGHT	ROUTE 0101
3.596	3.596	INTERSECTION	LEFT	ROUTE 0101
3.600	3.600			ROUTE ENDS AT PARK BOUNDARY AT END ROUTE 0101

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0110 : MAPLE SPRINGS LOOP

<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 0014 AT MP 11 ON RIGHT
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0014 NORTH
0.002	0.002	INTERSECTION	LEFT	ROUTE 0014 NORTH
0.218	0.218	CULVERT	N/A	
0.496	0.496	INTERSECTION	RIGHT	UNKNOWN
0.512	0.512	CULVERT	N/A	
0.625	0.625	CULVERT	N/A	
0.914	0.914	CULVERT	N/A	
1.002	1.002	INTERSECTION	RIGHT	RTE 109
1.018	1.018	INTERSECTION	RIGHT	RTE 109
1.790	1.790	CULVERT	N/A	
2.000	2.000			ROUTE ENDS AT ROUTE 0014 AT MP 21 ON RIGHT
2.001	2.001	INTERSECTION	LEFT	ROUTE 014
2.002	2.002	INTERSECTION	RIGHT	ROUTE 014

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0115 : OLLIE RIDGE RD (GREAT ONYX JOB CORP CENTER)

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT PARK BOUNDARY
0.222	0.222	INTERSECTION	RIGHT	
0.269	0.269	INTERSECTION	RIGHT	
0.284	0.284	CULVERT	N/A	
0.300	0.300			ROUTE ENDS AT CENTER ENTRANCE GATE
0.309	0.309	INTERSECTION	LEFT	

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0200 : FROZEN NIAGARA ENTRANCE 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 0016 AT MP 12 ON LEFT
0.012	0.012	INTERSECTION	LEFT	ROUTE 0016
0.095	0.095	CULVERT	N/A	
0.097	0.097	CULVERT	N/A	
0.177	0.207	PAVED DITCH	LEFT	
0.200	0.204	PAVED DITCH	RIGHT	
0.348	0.348	CULVERT	N/A	
0.422	0.422	INTERSECTION	LEFT	RTE 500
0.443	0.443	INTERSECTION	LEFT	RTE 500
0.488	0.537	PAVED DITCH	LEFT	
0.540	0.575	PAVED DITCH	LEFT	
0.548	0.603	PAVED DITCH	RIGHT	
0.591	0.620	PAVED DITCH	LEFT	
0.625	0.625	CULVERT	N/A	
0.742	0.761	PAVED DITCH	LEFT	
0.838	0.861	PAVED DITCH	LEFT	
0.882	0.906	PAVED DITCH	LEFT	
0.948	0.988	PAVED DITCH	LEFT	
1.033	1.033	INTERSECTION	LEFT	RTE 200 END OF LOOP
1.090	1.090			ROUTE ENDS AT END OF LOOP

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0201 : CARMICHAEL ENTRANCE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 0010 AT MP 44 ON LEFT
0.009	0.009	INTERSECTION	LEFT	RTE 010
0.009	0.009	INTERSECTION	RIGHT	RTE 010
0.088	0.145	PAVED DITCH	LEFT	
0.127	0.127	INTERSECTION	RIGHT	RTE 416
0.193	0.193	CULVERT	N/A	
0.346	0.346	CULVERT	N/A	
0.456	0.456	CULVERT	N/A	
0.532	0.689	PAVED DITCH	LEFT	
0.634	0.650	PAVED DITCH	RIGHT	
0.713	0.713	CULVERT	N/A	
0.767	0.834	PAVED DITCH	LEFT	
0.792	0.830	PAVED DITCH	RIGHT	
0.880	0.880	INTERSECTION	LEFT	RTE 201
1.030	1.030			ROUTE ENDS AT END OF LOOP AT CAVE ENTRANCE

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0202 : PICNIC GROUNDS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 0011
0.009	0.009	INTERSECTION	LEFT	RTE 011
0.009	0.009	INTERSECTION	RIGHT	RTE 011
0.049	0.049	INTERSECTION	LEFT	RTE 203
0.110	0.110	INTERSECTION	LEFT	RTE 931A
0.123	0.123	INTERSECTION	LEFT	RTE 931B
0.152	0.152	INTERSECTION	LEFT	RTE 202
0.202	0.202	INTERSECTION	LEFT	RTE 931C
0.215	0.215	INTERSECTION	LEFT	RTE 931D
0.341	0.341	CULVERT	N/A	
0.378	0.378	INTERSECTION	LEFT	RTE 931E
0.394	0.394	INTERSECTION	LEFT	RTE 931F
0.450	0.450			ROUTE ENDS AT END OF LOOP
0.454	0.454	INTERSECTION	RIGHT	RTE 202
0.456	0.456	INTERSECTION	LEFT	RTE 202

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0203 : PICNIC SHELTER ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 0202
0.006	0.006	INTERSECTION	RIGHT	RTE 202
0.015	0.042	CURB	RIGHT	
0.024	0.024	INTERSECTION	LEFT	RTE 907B
0.027	0.027	INTERSECTION	RIGHT	RTE 907C
0.091	0.091	INTERSECTION	RIGHT	RTE 907A
0.124	0.124	INTERSECTION	RIGHT	RTE 907A
0.149	0.149	INTERSECTION	LEFT	RTE 203
0.190	0.190			ROUTE ENDS AT END OF LOOP

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0205 : CAMPGROUND ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 0010 AT MP 545 ON LEFT
0.005	0.005	INTERSECTION	RIGHT	RTE 010
0.006	0.006	INTERSECTION	LEFT	RTE 010
0.013	0.013	INTERSECTION	RIGHT	RTE 922
0.052	0.052	INTERSECTION	RIGHT	RTE 922
0.053	0.053	INTERSECTION	LEFT	RTE 949
0.064	0.070	CURB	RIGHT	
0.077	0.077	INTERSECTION	RIGHT	RTE 501
0.079	0.079	INTERSECTION	LEFT	RTE 949
0.097	0.097	INTERSECTION	LEFT	RTE 502
0.098	0.098	INTERSECTION	RIGHT	RTE 503
0.137	0.137	INTERSECTION	LEFT	RTE 502
0.138	0.138	INTERSECTION	RIGHT	RTE 503
0.178	0.178	INTERSECTION	LEFT	RTE 504
0.178	0.178	INTERSECTION	RIGHT	RTE 504
0.180	0.180			ROUTE ENDS AT ROUTE 0504

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0220 : LINCOLN LOOP TRAILHEAD 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 ADJACENT TO OLLIE ROAD AT LINCOLN TRAILHEAD
0.001	0.001	CULVERT	N/A	
0.007	0.007	INTERSECTION	RIGHT	OLLIE ROAD
0.008	0.008	INTERSECTION	LEFT	OLLIE ROAD
0.070	0.070			ROUTE ENDS AT END
0.073	0.073	INTERSECTION	LEFT	OLLIE ROAD
0.073	0.073	INTERSECTION	RIGHT	OLLIE ROAD

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0407 : HISTORIC ENTRANCE 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 0901B
0.007	0.007	INTERSECTION	RIGHT	RTE 901B
0.020	0.020	DROP INLET	RIGHT	
0.022	0.169	PAVED DITCH	RIGHT	
0.043	0.043	DROP INLET	RIGHT	
0.060	0.060	DROP INLET	RIGHT	
0.085	0.085	DROP INLET	RIGHT	
0.105	0.105	DROP INLET	RIGHT	
0.136	0.136	DROP INLET	RIGHT	
0.168	0.168	DROP INLET	RIGHT	
0.180	0.180			ROUTE ENDS AT END AT HISTORIC CAVE ENTRANCE
0.181	0.181	INTERSECTION	RIGHT	

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0417 : PARK MAINTENANCE 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 0010 AT MP 5
0.001	0.001	INTERSECTION	LEFT	ROUTE 0010
0.004	0.004	INTERSECTION	RIGHT	ROUTE 0010
0.013	0.013	CULVERT	N/A	
0.045	0.045	CULVERT	N/A	
0.162	0.162	INTERSECTION	LEFT	RTE 418
0.169	0.169	CULVERT	N/A	
0.180	0.180	INTERSECTION	LEFT	RTE 905
0.329	0.329	INTERSECTION	RIGHT	RTE 903A
0.334	0.334	DROP INLET	RIGHT	
0.340	0.340	INTERSECTION	RIGHT	RTE 903D
0.366	0.366	INTERSECTION	LEFT	RTE 902B
0.371	0.371	INTERSECTION	RIGHT	RTE 902A
0.381	0.381	CULVERT	N/A	
0.402	0.402	INTERSECTION	LEFT	RTE 948
0.410	0.410	INTERSECTION	RIGHT	RTE 947
0.421	0.421	INTERSECTION	RIGHT	
0.458	0.458	INTERSECTION	LEFT	RTE 417
0.578	0.578	INTERSECTION	LEFT	END OF LOOP (IN BONEYARD)
0.580	0.580			ROUTE ENDS AT END OF LOOP (IN BONEYARD)

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0418 : 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 0417
0.001	0.001	INTERSECTION	LEFT	ROUTE 0417
0.001	0.001	INTERSECTION	RIGHT	ROUTE 0417
0.038	0.038	INTERSECTION	RIGHT	RTE 419
0.074	0.074	INTERSECTION	LEFT	
0.086	0.086	INTERSECTION	LEFT	RTE 418
0.189	0.189	INTERSECTION	RIGHT	
0.319	0.319	INTERSECTION	RIGHT	END OF LOOP
0.319	0.319	INTERSECTION	LEFT	END OF LOOP
0.320	0.320			ROUTE ENDS AT END OF LOOP

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0419 : RESIDENCE 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 0418
0.001	0.001	CULVERT	N/A	
0.001	0.001	INTERSECTION	RIGHT	ROUTE 0418
0.001	0.001	INTERSECTION	LEFT	ROUTE 0418
0.011	0.011	INTERSECTION	RIGHT	RTE 905
0.075	0.075	INTERSECTION	RIGHT	
0.091	0.091	INTERSECTION	LEFT	RTE 946
0.100	0.100			ROUTE ENDS AT ROUTE 0946

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0420 : ELEVATOR SHAFT ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 0016 AT MP 24 ON RIGHT
0.001	0.001	INTERSECTION	RIGHT	ROUTE 0016
0.001	0.001	INTERSECTION	LEFT	ROUTE 0016
0.024	0.024	INTERSECTION	LEFT	RTE 420 END OF LOOP
0.038	0.038	INTERSECTION	RIGHT	RTE 923
0.078	0.078	CULVERT	N/A	
0.080	0.080			ROUTE ENDS AT END OF LOOP

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0430 : MOTEL ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT SOUTHWEST END OF ROUTE 0908
0.009	0.009	INTERSECTION	RIGHT	RTE 908
0.016	0.099	CURB	LEFT	
0.029	0.029	INTERSECTION	LEFT	RTE 906A
0.077	0.077	INTERSECTION	LEFT	RTE 906B
0.097	0.097	INTERSECTION	RIGHT	RTE 906C
0.100	0.100			ROUTE ENDS AT END AT ROUTE 0906C

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0500 : NEW ENTRANCE LOOP

<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 0200
0.007	0.007	INTERSECTION	LEFT	ROUTE 0200
0.008	0.008	INTERSECTION	RIGHT	ROUTE 0200
0.015	0.015	CULVERT	N/A	
0.024	0.024	INTERSECTION	LEFT	RTE 500
0.026	0.026	INTERSECTION	RIGHT	RTE 500
0.083	0.083	CULVERT	N/A	
0.146	0.146	INTERSECTION	LEFT	RTE 500
0.150	0.150	INTERSECTION	RIGHT	RTE 500
0.160	0.160			ROUTE ENDS AT ROUTE 0200
0.165	0.165	INTERSECTION	LEFT	ROUTE 0200
0.172	0.172	INTERSECTION	RIGHT	ROUTE 0200

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0501 : VISITOR CENTER CAMPGROUND LOOP D

<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 0205 AT MP 007 ON RIGHT
0.008	0.008	INTERSECTION	LEFT	RTE 205
0.009	0.009	INTERSECTION	RIGHT	RTE 205
0.018	0.018	INTERSECTION	LEFT	RTE 501
0.084	0.084	CULVERT	N/A	
0.101	0.101	CULVERT	N/A	
0.260	0.260			ROUTE ENDS AT END OF LOOP
0.268	0.268	INTERSECTION	LEFT	END OF LOOP

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0502 : VISITOR CENTER CAMPGROUND LOOP A

<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 0205 AT MP 01 ON LEFT
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0205
0.001	0.001	INTERSECTION	LEFT	ROUTE 0205
0.029	0.029	CULVERT	N/A	
0.140	0.140			ROUTE ENDS AT ROUTE 0205
0.140	0.140	INTERSECTION	LEFT	RTE 205
0.142	0.142	INTERSECTION	RIGHT	RTE 205

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0503 : VISITOR CENTER CAMPGROUND LOOP C

<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 0205 AT MP 013 ON RIGHT
0.001	0.001	INTERSECTION	LEFT	ROUTE 0205
0.001	0.001	INTERSECTION	RIGHT	ROUTE 0205
0.380	0.380			ROUTE ENDS AT ROUTE 0205
0.389	0.389	INTERSECTION	LEFT	RTE 205
0.389	0.389	INTERSECTION	RIGHT	RTE 205

MACA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0504 : VISITOR CENTER CAMPGROUND LOOP B

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT END OF ROUTE 0205
0.185	0.185	CULVERT	N/A	
0.400	0.400			ROUTE ENDS AT END OF LOOP
0.409	0.409	INTERSECTION	LEFT	END OF LOOP AT ROUTE 0205

APPENDIX A: GLOSSARY OF TERMS AND ABBREVIATIONS

TERM OR ABBREVIATION	DESCRIPTION OR DEFINITION
5530	Numeric Code for Mammoth Cave National Park
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
MACA	Alpha Code for Mammoth Cave National Park
MRR	Manually Rated Route
NA	Not Applicable
NC	Not Collected
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	XXXXXXXXXXXX	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	9999999	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

maca_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: maca_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: -86.249023

East_Bounding_Coordinate: -86.038918

North_Bounding_Coordinate: 37.255966

South_Bounding_Coordinate: 37.099232

Keywords:

Theme:

Theme_Keyword_Thesaurus: MACA

Theme_Keyword: MACA

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: 67

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: maca_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: MACA_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: MACA_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 12:48:34 2006

maca_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: maca_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: -86.249023

East_Bounding_Coordinate: -86.039658

North_Bounding_Coordinate: 37.255905

South_Bounding_Coordinate: 37.099232

Keywords:

Theme:

Theme_Keyword_Thesaurus: MACA

Theme_Keyword: MACA

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: 76

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: maca_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

Generated by [mp](#) version 2.7.33 on Thu Jan 19 12:48:20 2006

MACA_mrl_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: Published Materials

Title: MACA_mrl_03_map

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: Copy of Manually Rated Roads - Lines

Purpose: Road Inventory Program

Supplemental_Information:

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

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 8/8/1999

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -86.137669

East_Bounding_Coordinate: -86.136137

North_Bounding_Coordinate: 37.204207

South_Bounding_Coordinate: 37.202732

Keywords:

Theme:

Theme_Keyword_Thesaurus: MACA

Theme_Keyword: MACA

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: String

Point_and_Vector_Object_Count: 1

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: MACA_mrl_03_map

Entity_Type_Definition_Source: GPS

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Enumerated_Domain:

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: SECTION_

Attribute_Definition: Route Section ID

Attribute_Definition_Source: Route ID Meeting / ARAN Data Collection

Attribute:

Attribute_Label: SURF_TYPE

Attribute_Definition: Surface type of route

Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: CONDITION

Attribute_Definition: Condition rating

Attribute_Domain_Values:

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: PAVED_MI

Attribute_Definition: Width of the paved area

Attribute:

Attribute_Label: PAVED_MI

Attribute_Definition: Calculated paved miles

Distribution_Information:

Resource_Description: Downloadable Data

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 0.037

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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MACA_mrl_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: Published Materials

Title: MACA_mrl_03

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: Manually Rated Roads - Lines

Purpose: Road Inventory Program

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 8/8/1999

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -86.137669

East_Bounding_Coordinate: -86.136137

North_Bounding_Coordinate: 37.204207

South_Bounding_Coordinate: 37.202732

Keywords:

Theme:

Theme_Keyword_Thesaurus: MACA

Theme_Keyword: MACA

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:* String*Point_and_Vector_Object_Count:* 1

*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:* MACA_mrl_03*Entity_Type_Definition_Source:* GPS*Attribute:**Attribute_Label:* FID*Attribute_Definition:* Internal feature number.*Attribute_Definition_Source:* ESRI*Attribute_Domain_Values:**Enumerated_Domain:**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:* SECTION_*Attribute_Definition:* Route Section ID*Attribute_Definition_Source:* Route ID Meeting / ARAN Data Collection*Attribute:**Attribute_Label:* SURF_TYPE*Attribute_Definition:* Surface type of route*Attribute_Definition_Source:* ARAN Data Collection*Attribute:**Attribute_Label:* CONDITION*Attribute_Definition:* Condition rating*Attribute_Domain_Values:**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:* PAVED_MI*Attribute_Definition:* Width of the paved area*Attribute:**Attribute_Label:* PAVED_MI*Attribute_Definition:* Calculated paved miles

*Distribution_Information:**Resource_Description:* Downloadable Data*Standard_Order_Process:**Digital_Form:**Digital_Transfer_Information:**Transfer_Size:* 0.037

*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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maca_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: maca_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: 7/29/1999

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -86.238214

East_Bounding_Coordinate: -86.047179

North_Bounding_Coordinate: 37.202935

South_Bounding_Coordinate: 37.103820

Keywords:

Theme:

Theme_Keyword_Thesaurus: MACA

Theme_Keyword: MACA

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: 40

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: maca_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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maca_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: maca_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: 7/29/1999

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -86.238214

East_Bounding_Coordinate: -86.047179

North_Bounding_Coordinate: 37.202935

South_Bounding_Coordinate: 37.103820

Keywords:

Theme:

Theme_Keyword_Thesaurus: MACA

Theme_Keyword: MACA

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:* 40

*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:* maca_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

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maca_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: maca_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: -86.249023

East_Bounding_Coordinate: -86.038918

North_Bounding_Coordinate: 37.255966

South_Bounding_Coordinate: 37.099232

Keywords:

Theme:

Theme_Keyword_Thesaurus: MACA

Theme_Keyword: MACA

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: 388

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: maca_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: MACA_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: MACA_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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