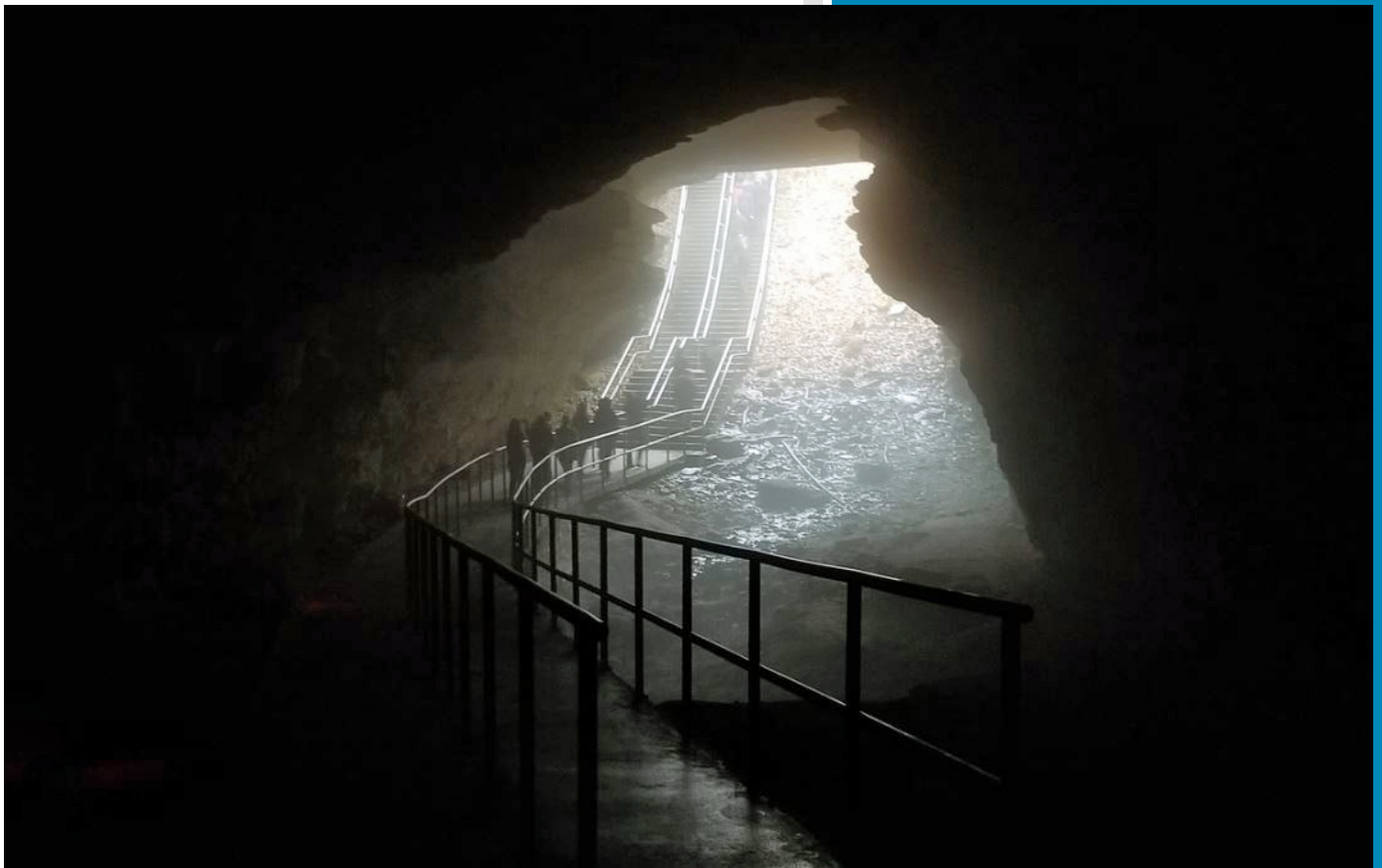


MACA Cycle 6

Final Report

Road Inventory and Condition Assessment of Paved Routes Mammoth Cave National Park



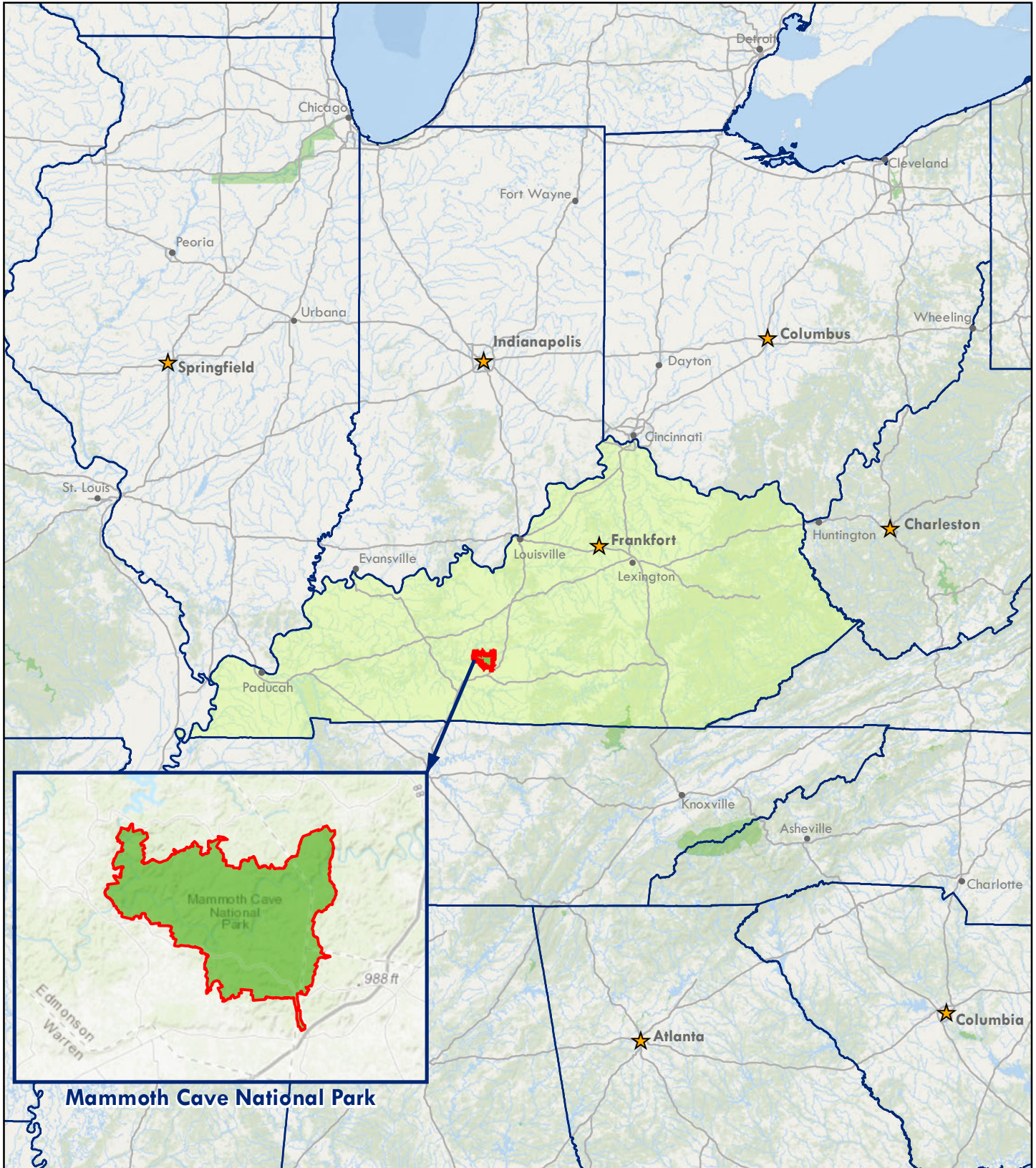
Federal Lands Highway
Road Inventory Program

Prepared By:

Federal Highway Administration
Eastern Federal Lands Highway Division
Road Inventory Program (RIP)

Report Date: May 2022

Mammoth Cave National Park in Kentucky



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community; Esri, Garmin, GEBCO, NOAA NGDC, and other contributors
Scenic Photos throughout report are NPS photos from www.nps.gov/maca



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Section 1 Introduction



Mammoth Cave National Park



**Federal Lands Highway
Road Inventory Program**

Introduction

The Federal Highway Administration’s (FHWA), Road Inventory Program (RIP) inventories all roads and parking areas in the National Park System, and performs condition inspections on all paved roads and parking areas for the National Park Service (NPS). This report contains the results of the Cycle 6 condition assessment of paved roads and parking lots for this park unit. This assessment was done using an automated, state-of-the-art pavement inspection vehicle as well as manual ratings. This information represents the condition of the paved assets at the time of the inspection. The pavement management system utilized by FHWA and the NPS uses these assessments to estimate future conditions and help prioritize pavement maintenance and rehabilitation projects. Further information about RIP data and its role in managing paved roads and bridges can be obtained by contacting the NPS Regional Transportation Program Manager.

A History of the Road Inventory Program:

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

The FHWA completed the initial phase of inventory in the early 1980s. As a result of this effort, each NPS unit included in the collection received a RIP Report known as the “Brown Book” which contained information that was inventoried during this first RIP phase. In the 1990s, a cyclical program was developed, and since then five cycles of collection have been completed. Cycle 6 is currently in progress. A summary of the RIP collection cycles is shown in the table below.

Cycle	Years	Parks Collected
Cycle 1	1994 - 1997	◦ 44 Large Parks
Cycle 2	1997 - 2001	◦ 79 Large Parks ◦ 5 Small Parks
Cycle 3	2001 - 2004	◦ All Large Parks ◦ All Small Parks
Cycle 4	2006 - 2010	◦ 86 Large Parks ◦ Several Small Parks
Cycle 5	2010 - 2014	◦ All Large Parks (Only functional class 1, 2, 7, and new/modified routes collected) ◦ All Small Parks (all roads and parking areas collected)
Cycle 6	2014 – 2020 (±)	◦ All roads and parking areas collected at all Parks ◦ Additional partial collections of functional class 1, 2, and 7 roads at Large Parks ◦ Cycle 6 is expected to last 6 years

Note: Large Parks have ≥ 10 Paved Miles; Small Parks have < 10 Paved Miles

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

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

In 2012, the Moving Ahead for Progress in the 21st Century Act (MAP-21) amended Title 23 U.S.C., and under Section 203(c)(1-2) stated that the National Park Service in cooperation with the DOT/FHWA, shall maintain a comprehensive national inventory of their transportation facilities, with the goal of quantifying transportation infrastructure needs within the National Park System.

A History of the Pavement Management System:

In 2005, the FHWA began implementing the use of a pavement management system to assist the NPS in prioritizing Pavement Maintenance and Rehabilitation activities. The system used by FHWA is the Highway Pavement Management Application (HPMA), which has the ability to store inventory and condition data from RIP and forecast future performance using prediction models. Outputs include performance and condition reports at the National, Regional, Park, or Route level. Regional prioritized lists and optimizations have been produced for most regions, and the Service's overall roadway Deferred Maintenance is calculated via the HPMA.

Overview of Cycle 6:

Cycle 6 launched in the spring of 2014 and will again comprise all NPS park units that are served by paved roads and/or parking areas. For Cycle 6, all paved roads (approximately 5,700 miles) and parking areas will be collected in all parks at least once, while the primary routes (functional class 1, 2, and 7 roads) at Large Parks will have additional collections. These multiple collections will provide updated condition data on a majority of the NPS's primary road network and help build a better pavement management system, allowing for more accurate pavement performance prediction models.

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

Respectfully,

FHWA RIP Team

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Section 2 Park Route Inventory



Mammoth Cave National Park



Federal Lands Highway
Road Inventory Program

Cycle 6 NPS / RIP Route ID Report

(Numerical By Summary Route and Subcomponent #)



Shading Color Key

White = Paved Routes, DCV Driven

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■ = Concession Route

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MACA Mammoth Cave National Park

ROAD INVENTORY (1100 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description		Maintenance District	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)	Surf. Type	Area Map
						From	To									
0010	6	2	50610		MAMMOTH CAVE PARKWAY	FROM END OF ROUTE 5010 (KENTUCKY STATE HIGHWAY 70/255 (MAMMOTH CAVE PARKWAY EXTENDED)) AT PARK BOUNDARY	TO ROUTE 0901A (VISITOR CENTER PARKING)		YES	5.74	0.00	5.74	1		AS	1C,1D,1E
0012	6	2	50613		HOTEL ENTRANCE ROAD	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY) AT MP 5.59	TO ROUTE 0908 (MAMMOTH CAVE HOTEL PARKING) AND ROUTE 0901B (HOTEL SERVICES PARKING) ON RIGHT		YES	0.12	0.00	0.12	1		AS	1E
0013	6	2	50112		GREEN RIVER FERRY ROAD SOUTH	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY) AT MP 5.08	TO GREEN RIVER FERRY CROSSING RAMP # 1		YES	1.31	0.00	1.31	1		AS	1E
0014	6	2	50113		GREEN RIVER FERRY ROAD NORTH	FROM NORTH PARK BOUNDARY AT END OF ROUTE 5014 (GREEN RIVER FERRY ROAD NORTH (NON NPS))	TO GREEN RIVER FERRY CROSSING RAMP #2		YES	4.18	0.00	4.18	1		AS	1
0015	6	2	6061		BROWNSVILLE ROAD	FROM WEST PARK BOUNDARY AT INTERSECTION OF COUNTY ROAD 2325 AND ROUTE 5015 (KENTUCKY STATE HIGHWAY 70 (BROWNSVILLE ROAD EXTENSION))	TO ROUTE 0010 (MAMMOTH CAVE PARKWAY)		YES	5.10	0.00	5.10	1		AS	1
0016	6	2	50612		CAVE CITY ROAD	FROM STATE HIGHWAY 255 (OLD MAMMOTH CAVE ROAD) AT EAST PARK BOUNDARY	TO ROUTE 0010 (MAMMOTH CAVE PARKWAY)		YES	3.02	0.00	3.02	1		AS	1D
0020	6	2	85739		MAMMOTH CAVE PARKWAY (PARK CITY ROAD)	FROM I-65 AT PARK BOUNDARY (PARK CITY)	TO ROUTE 0010 (MAMMOTH CAVE PARKWAY)		YES	2.28	0.00	2.28	1		AS	1C
0101	6	2	50614		FLINT RIDGE ROAD	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY) AT MP 5.65 ON RIGHT	TO PARK BOUNDARY AND ROUTE 5106 (PARK RIDGE ROAD (NON-NPS SECTION)) ON RIGHT		YES	3.63	0.00	3.63	2		AS	1,1E

Cycle 6 NPS / RIP Route ID Report

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MACA Mammoth Cave National Park

ROAD INVENTORY (1100 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description		Maintenance District	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)	Surf. Type	Area Map
						From	To									
0102	6	2	50609		CEDAR SINK ROAD	FROM ROUTE 0015 (BROWNSVILLE ROAD) AT MP 1.74 ON RIGHT	TO SOUTHWEST PARK BOUNDARY		YES	1.22	0.00	1.22	2		AS	1B
0103	6	2	50608		HOUCHINS FERRY ROAD SOUTH	FROM SOUTH PARK BOUNDARY	TO HOUCHINS FERRY CROSSING RAMP #1		YES	1.07	0.00	1.07	2		AS	2A
0103NZZ	6	2	50144		HOUCHINS FERRY ROAD NORTH	FROM HOUCHINS FERRY RAMP CROSSING #2	TO OLLIE ROAD, OLLIE RIDGE ROAD INTERSECTION AT MP 5.33		YES	0.49	4.84	5.33	2		AS	2,2A
0104	NC		50143		GREAT ONYX CAVE ROAD	FROM ROUTE 0101 (FLINT RIDGE ROAD) AT MP 1.68 ON LEFT	TO GREAT ONYX CAVE (GATED)		NO	0.00	2.09	2.09	2		GR	1
0105	NC		50138		CRYSTAL CAVE ROAD	FROM ROUTE 0101 (FLINT RIDGE ROAD) AT MP 3.39 ON LEFT	TO CRYSTAL CAVE (GATED)		NO	0.00	1.19	1.19	2		GR	1
0106	6	2	50625		PARK RIDGE ROAD	FROM ROUTE 0016 (CAVE CITY ROAD) AT MP 0.32 ON RIGHT	TO INTERSECTION OF RAY HUNTER ROAD AND ROUTE 5106 (PARK RIDGE ROAD (NON-NPS SECTION))		YES	1.26	0.00	1.26	2		AS	1D
0107	6	2	50155		LITTLE JORDAN ROAD (UGLY CREEK)	FROM COUNTY ROAD 1352	TO EAST BOUNDARY AT DENNISON FERRY NORTH		NO	0.00	4.34	4.34	3		GR	1
0109	6	2	50142		GOOD SPRING CHURCH ROAD	FROM ROUTE 0110 (MAPLE SPRINGS LOOP) AT MP 1.01 ON RIGHT	TO END OF LOOP AT GOOD SPRING CHURCH		NO	0.00	0.55	0.55	2		GR	1A
0110	6	2	50110		MAPLE SPRINGS LOOP	FROM ROUTE 0014 (GREEN RIVER FERRY ROAD NORTH) AT MP 1.09 ON RIGHT	TO ROUTE 0014 (GREEN RIVER FERRY ROAD NORTH) AT MP 2.03 ON RIGHT		YES	1.96	0.00	1.96	3		AS	1A
0113	6	2	50146		JOPPA RIDGE ROAD	FROM ROUTE 0013 (GREEN RIVER FERRY ROAD SOUTH) AT MP 0.81 ON LEFT	TO ROUTE 0015 (BROWNSVILLE ROAD)		NO	0.00	2.17	2.17	3		GR	1,1E
0114	6	2	50139		DENNISON FERRY ROAD	FROM COUNTY ROAD 218 (COUNTY FLINT RIDGE ROAD)	TO CANOE LAUNCH AT DENNISON FERRY		NO	0.00	1.52	1.52	2		GR	1

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MACA Mammoth Cave National Park

ROAD INVENTORY (1100 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description		Maintenance District	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)	Surf. Type	Area Map
						From	To									
0200	6	2	50617		FROZEN NIAGARA ENTRANCE ROAD	FROM ROUTE 0016 (CAVE CITY ROAD) AT MP 1.23 ON LEFT	TO END OF LOOP		YES	1.10	0.00	1.10	2		AS	1D
0201	6	2	50616		CARMICHAEL ENTRANCE ROAD	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY) AT MP 4.37 ON LEFT	TO END OF LOOP		YES	1.04	0.00	1.04	2		AS	1D
0202	6	2	50117		VISITOR CENTER PICNIC GROUNDS ROAD	FROM ROUTE 0901A (VISITOR CENTER PARKING)	TO END OF LOOP		YES	0.45	0.00	0.45	3		AS	1E
0203	6	2	50118		VISITOR CENTER PICNIC SHELTER ROAD	FROM ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD)	TO END OF LOOP		YES	0.19	0.00	0.19	3		AS	1E
0205	6	2	255491		HQ CAMPGROUND ACCESS ROAD	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY) AT MP 5.46 ON LEFT	TO ROUTE 0504 (VISITOR CENTER CAMPGROUND LOOP B)		YES	0.18	0.00	0.18	2		AS	1E
0221	6	2	50156		WILKINS CEMETERY ROAD	FROM ROUTE 0107 (LITTLE JORDAN ROAD (UGLY CREEK))	TO END		NO	0.00	0.24	0.24	2		GR	1
0222	6	2	56048		HOUCHINS FERRY CAMPGROUND ROAD	FROM ROUTE 0103 (HOUCHINS FERRY ROAD SOUTH)	TO END OF LOOP		NO	0.00	0.08	0.08	3		GR	2A
0223	6	2	85742		MAPLE SPRINGS LOOP CAMPGROUND	FROM ROUTE 0110 (MAPLE SPRINGS LOOP) AT MP 1.26	TO ROUTE 0110 (MAPLE SPRINGS LOOP) AT MP 1.34		YES	0.25	0.00	0.25	3		AS	1A
0224	6	2	225959		VISITOR CENTER BUS LOOP	FROM ROUTE 0012 (HOTEL ENTRANCE ROAD)	TO END OF LOOP		YES	0.23	0.00	0.23	3		AS	1E
0225	6	2	57781		PARK CITY CEMETERY ROAD	FROM ROUTE 0020 (MAMMOTH CAVE PARKWAY (PARK CITY ROAD))	TO CEMETERY		NO	0.00	0.22	0.22	3		GR	1C
0226	NC		80625		JAMES CEMETERY ROAD	FROM PRIVATE GRAVEL ROAD	TO CEMETERY		NO	0.00	0.60	0.60	3		GR	2A
0227ZZ	NC		50125		WONDERING WOODS ROADS	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY)	TO WODERING WOODS VILLAGE		NO	0.00	1.03	1.03	6		GR	1C
0400	NC		50133		CEDAR SINK SERVICE ROAD	FROM ROUTE 0015 (BROWNSVILLE ROAD) AT MP 1.81 ON RIGHT	TO ROUTE 0102 (CEDAR SINK ROAD)		NO	0.00	0.80	0.80	6		GR	1B

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ROAD INVENTORY (1100 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description		Maintenance District	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)	Surf. Type	Area Map
						From	To									
0403	NC		50128		BRANSFORD SPRING ROAD	FROM ROUTE 0104 (GREAT ONYX CAVE ROAD)	TO END		NO	0.00	0.07	0.07	5		GR	1
0406	NC		50154		ROCK QUARRY ROAD	FROM ROUTE 0015 (BROWNSVILLE ROAD) AT MP 4.43 ON RIGHT	TO QUARRY		NO	0.00	0.22	0.22	6		GR	1
0407	6	2	50626		HISTORIC ENTRANCE ROAD	FROM ROUTE 0901B (HOTEL SERVICES PARKING)	TO END AT HISTORIC CAVE ENTRANCE		YES	0.18	0.00	0.18	3		AS	1E
0409	NC		50141		FIRST CREEK TOWER ROAD	FROM PARK BOUNDARY AT CLELL ROAD (COUNTY)	TO END OF ROAD		NO	0.00	1.01	1.01	3		GR	2
0411	6	2	50132		BUFFALO FERRY ROAD	FROM SOUTH PARK BOUNDARY	TO GREEN RIVER		NO	0.00	1.53	1.53	3		GR	2
0412	6	2	50129		BROOKS CEMETERY ROAD	FROM ROUTE 0411 (BUFFALO FERRY ROAD)	TO CEMETERY		NO	0.00	0.37	0.37	3		GR	2
0416	NC		50152		NEW DISCOVERY ROAD	FROM ROUTE 0201 (CARMICHAEL ENTRANCE ROAD) AT MP 0.13 ON RIGHT	TO END		NO	0.00	0.55	0.55	3		GR	1D
0417	6	2	50116		PARK MAINTENANCE ROAD	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY) AT MP 5.08 ON RIGHT	TO END OF LOOP		YES	0.58	0.00	0.58	5		AS	1E
0418	6	2	50119		RESIDENCE LOOP ROAD	FROM ROUTE 0417 (PARK MAINTENANCE ROAD)	TO END OF LOOP		YES	0.32	0.00	0.32	5		AS	1E
0420	6	2	50623		ELEVATOR SHAFT ROAD	FROM ROUTE 0016 (CAVE CITY ROAD) AT MP 2.44 ON RIGHT	TO END OF LOOP		YES	0.08	0.00	0.08	2		AS	1D
0428	NC		50140		DOYLE VALLEY SERVICE ROAD	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY)	TO END OF ROAD		NO	0.00	0.70	0.70	3		GR	1C,1D
0430	6	2	50111		SUNSET LODGE ROAD	FROM SOUTHWEST END OF ROUTE 0908 (MAMMOTH CAVE HOTEL PARKING)	TO ROUTE 0432 (SUNSET POINT SEWAGE LIFT STATION ACCESS ROAD)		YES	0.09	0.00	0.09	3		AS	1E

Cycle 6 NPS / RIP Route ID Report

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MACA Mammoth Cave National Park

ROAD INVENTORY (1100 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description		Maintenance District	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)	Surf. Type	Area Map
						From	To									
0431	NC		86305		POINT X SEWAGE LIFT STATION ROAD	FROM ROUTE 0013 (GREEN RIVER FERRY ROAD SOUTH) AT MP 0.08 ON RIGHT	TO END OF ROUTE		NO	0.00	0.02	0.02	6		GR	1E
0432	NC		86306		SUNSET POINT SEWAGE LIFT STATION ACCESS ROAD	FROM END OF ROUTE 0908 (MAMMOTH CAVE HOTEL PARKING)	TO END AT PUMP HOUSE		NO	0.00	0.05	0.05	6		GR	1E
0433	NC		86308		MOUNT MCKINLEY UTILITY AREA	FROM ROUTE 0016 (CAVE CITY ROAD) AT MP 1.36 ON LEFT	TO END OF ROUTE		NO	0.00	0.27	0.27	6		GR	1D
0434	6	2	225465		LEARNING CENTER ACCESS ROAD	FROM ROUTE 0110 (MAPLE SPRINGS LOOP)	TO END		YES	0.07	0.02	0.09	5		AS	1A
0435	NC		231811		THREE SPRINGS ROAD	FROM ROUTE 0101 (FLINT RIDGE ROAD)	TO THREE SPRINGS PUMPHOUSE		NO	0.00	0.29	0.29	6		GR	1,1E
0500	6	2	50619		NEW ENTRANCE LOOP	FROM ROUTE 0200 (FROZEN NIAGARA ENTRANCE ROAD) AT MP 0.43	TO ROUTE 0200 (FROZEN NIAGARA ENTRANCE ROAD) AT MP 0.45		YES	0.16	0.00	0.16	5		AS	1D
0501	6	2	255478		VISITOR CENTER CAMPGROUND LOOP D	FROM ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD) AT MP 0.08 ON RIGHT	TO END OF LOOP		YES	0.26	0.00	0.26	3		AS	1E
0502	6	2	50109		VISITOR CENTER CAMPGROUND LOOP A	FROM ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD) AT MP 0.10 ON LEFT	TO ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD) AT MP 0.14		YES	0.14	0.00	0.14	3		AS	1E
0503	6	2	255486		VISITOR CENTER CAMPGROUND LOOP C	FROM ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD) AT MP 0.14 ON RIGHT	TO ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD) AT MP 0.10		YES	0.38	0.00	0.38	3		AS	1E
0504	6	2	255487		VISITOR CENTER CAMPGROUND LOOP B	FROM END OF ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)	TO END OF LOOP		YES	0.41	0.00	0.41	3		AS	1E

Cycle 6 NPS / RIP Route ID Report

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MACA Mammoth Cave National Park

NON-NPS ROADS INVENTORY

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description		Maintenance District	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)	Surf. Type	Area Map
						From	To									
5010	4	1			KENTUCKY 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 (MAMMOTH CAVE PARKWAY)		NO	0.50	0.00	0.50			AS	1C
5014	4	1			GREEN RIVER FERRY ROAD NORTH (NON NPS)	FROM LITTLE JORDAN ROAD	TO NORTH PARK BOUNDARY AT BEGIN ROUTE 0014 (GREEN RIVER FERRY ROAD NORTH)		NO	0.41	0.00	0.41			AS	1
5015	4	1			KENTUCKY STATE HIGHWAY 70 (BROWNSVILLE ROAD EXTENSION)	FROM STATE HIGHWAY 70 AT TAXIDERMY BUSINESS ON LEFT	TO PARK BOUNDARY AT COUNTY ROAD 2325 / BEGIN ROUTE 0015 (BROWNSVILLE ROAD)		NO	0.91	0.00	0.91			AS	1,B
5106	5	1			PARK RIDGE ROAD (NON-NPS SECTION)	FROM INTERSECTION OF RAY HUNTER ROAD AND ROUTE 0106 (PARK RIDGE ROAD)	TO PARK BOUNDARY AND ROUTE 0101 (FLINT RIDGE ROAD) ON LEFT		NO	2.35	0.00	2.35			AS	1,D
5107	NC		255437		LITTLE JORDAN ROAD EXTENDED (UGLY CREEK)	FROM ROUTE 0107 (LITTLE JORDAN ROAD (UGLY CREEK))	TO PARK BOUNDARY		NO	0.00	0.00	0.00			AS	1
5111	4	1			CEDAR HILL CHURCH ROAD	FROM ROUTE 0020 (MAMMOTH CAVE PARKWAY (PARK CITY ROAD))	TO OLD MEXICO ROAD (PRIVATE ROAD) ON RIGHT		NO	1.88	0.00	1.88			AS	1C
5115	4	1			OLLIE RIDGE ROAD (GREAT ONYX JOB CORP CENTER)	FROM PARK BOUNDARY	TO CENTER ENTRANCE GATE		NO	0.29	0.00	0.29			AS	2
5601	4	1			DOYLE ROAD	FROM ROUTE 0020 (MAMMOTH CAVE PARKWAY (PARK CITY ROAD)) AT MP 0.20 ON RIGHT	TO PARK BOUNDARY MARKER ON LEFT (FENCE POST)		NO	0.18	0.00	0.18			AS	1C
5602	4	1			ZION CEMETERY ROAD	FROM ROUTE 0020 (MAMMOTH CAVE PARKWAY (PARK CITY ROAD)) AT MP 0.20 ON LEFT	TO PARK BOUNDARY MARKER ON RIGHT (FENCE POST)		NO	0.22	0.00	0.22			AS	1C
5603	4	1			SHORT CAVE ROAD	FROM ROUTE 0020 (MAMMOTH CAVE PARKWAY (PARK CITY ROAD)) AT MP 1.23 ON LEFT	TO PARK BOUNDARY MARKER ON LEFT (FENCE LINE)		NO	0.16	0.00	0.16			AS	1C

Cycle 6 NPS / RIP Route ID Report

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MACA Mammoth Cave National Park

PARKING AREA INVENTORY (1300 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description		Maintenance District	FLTP	Access Level	Area (SQ FT)	Surf. Type	Area Map
						From	To						
0900	6	2	50187		DOYLE VALLEY OVERLOOK	ADJACENT TO ROUTE 0010 (MAMMOTH CAVE PARKWAY) AT MP 3.65 ON RIGHT			YES	PUBLIC	8,536	AS	1D
0901A	6	2	50169		VISITOR CENTER PARKING	FROM END OF ROUTE 0010 (MAMMOTH CAVE PARKWAY)	TO PARKING		YES	PUBLIC	247,079	AS	1E
0901B	6	2	50165		HOTEL SERVICES PARKING	FROM ROUTE 0908 (MAMMOTH CAVE HOTEL PARKING)	TO ROUTE 0407 (HISTORIC ENTRANCE ROAD)		YES	PUBLIC	5,765	AS	1E
0902A	6	2	50172		MAINTENANCE PARKING	FROM ROUTE 0417 (PARK MAINTENANCE ROAD)	TO PARKING		NO	NONPUBLIC	45,090	AS	1E
0902B	6	2	50170		CONCESSION SERVICE PARKING	FROM ROUTE 0417 (PARK MAINTENANCE ROAD)	TO PARKING		NO	NONPUBLIC	16,232	AS	1E
0903ZZ	6	2	50184		RANGER TRAINING CENTER PARKING	FROM ROUTE 0417 (PARK MAINTENANCE ROAD)	TO PARKING		YES	PUBLIC	13,932	AS	1E
0904A	6	2	50167		HOUCHINS FERRY ROAD SOUTH PARKING	ADJACENT TO ROUTE 0103 (HOUCHINS FERRY ROAD SOUTH) NEAR END ON RIGHT			YES	PUBLIC	1,606	AS	2A
0904B	6	2	86327		HOUCHINS FERRY ROAD SOUTH BOAT TRAILER PARKING	ADJACENT TO ROUTE 0103 (HOUCHINS FERRY ROAD SOUTH) NEAR END ON LEFT			YES	PUBLIC	3,172	AS	2A
0905	6	2	50185		RECYCLING AREA PARKING	FROM ROUTE 0417 (PARK MAINTENANCE ROAD)	TO ROUTE 0960 (SUPERINTENDENT OFFICE PARKING)		NO	NONPUBLIC	8,324	AS	1E
0906A	6	2	50175		SUNSET LODGE A PARKING	ADJACENT TO ROUTE 0430 (SUNSET LODGE ROAD)			YES	PUBLIC	2,380	AS	1E
0906B	6	2	50176		SUNSET LODGE B PARKING	ADJACENT TO ROUTE 0430 (SUNSET LODGE ROAD)			YES	PUBLIC	2,626	AS	1E
0907A	6	2	50182		PICNIC SHELTER A PARKING	FROM ROUTE 0203 (VISITOR CENTER PICNIC SHELTER ROAD) AT MP 0.09 ON RIGHT	TO ROUTE 0203 (VISITOR CENTER PICNIC SHELTER ROAD)		YES	PUBLIC	7,719	AS	1E

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MACA Mammoth Cave National Park

PARKING AREA INVENTORY (1300 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Description		Maintenance District	FLTP	Access Level	Area (SQ FT)	Surf. Type	Area Map
					From	To						
0907B	6	2	50183		PICNIC SHELTER B PARKING	ADJACENT TO ROUTE 0203 (VISITOR CENTER PICNIC SHELTER ROAD) AT MP 0.03 ON LEFT		YES	PUBLIC	2,281	AS	1E
0907C	6	2	86328		PICNIC SHELTER C PARKING	ADJACENT TO ROUTE 0203 (VISITOR CENTER PICNIC SHELTER ROAD) AT MP 0.03 ON RIGHT		YES	PUBLIC	1,682	AS	1E
0908	6	2	50164		MAMMOTH CAVE HOTEL PARKING	FROM END OF ROUTE 0012 (HOTEL ENTRANCE ROAD)	TO ROUTE 0430 (SUNSET LODGE ROAD)	YES	PUBLIC	123,003	AS	1E
0909	6	2	50191		SLOANS CROSSING PICNIC/POND PARKING	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY) AT MP 2.56	TO ROUTE 0010 (MAMMOTH CAVE PARKWAY)	YES	PUBLIC	9,355	AS	1D
0911	6	2	50179		PARK CITY ENTRANCE SIGN PARKING	ADJACENT TO ROUTE 0020 (MAMMOTH CAVE PARKWAY (PARK CITY ROAD)) AT MP 0.40 ON RIGHT		YES	PUBLIC	9,754	AS	1C
0912	6	2	50193		TURNHOLE BEND NATURE TRAIL PARKING	ADJACENT TO ROUTE 0015 (BROWNSVILLE ROAD) AT MP 1.30 ON LEFT		YES	PUBLIC	5,993	AS	1B
0913	6	2	50189		SAND CAVE PARKING	ADJACENT TO ROUTE 0016 (CAVE CITY ROAD) AT MP 0.18 ON RIGHT		YES	PUBLIC	6,319	AS	1D
0915	6	2	50163		GREEN RIVER PARKING	FROM ROUTE 0013 (GREEN RIVER FERRY ROAD SOUTH) AT MP 1.28 ON RIGHT	TO PARKING	YES	PUBLIC	21,033	AS	1
0916	6	2	50168		LINCOLN TRAILHEAD PARKING	FROM OLLIE ROAD	TO OLLIE ROAD	YES	PUBLIC	12,943	AS	1
0918ZZ	6	2	50204		MAPLE SPRINGS TRAILHEAD PARKING UNPAVED	ADJACENT TO ROUTE 0959 (MAPLE SPRINGS TRAILHEAD PARKING)		NO	PUBLIC	19,837	GR	1A
0919	6	2	50157		CEDAR SINK TRAILHEAD PARKING	ADJACENT TO ROUTE 0102 (CEDAR SINK ROAD) AT MP 0.57 ON LEFT		YES	PUBLIC	5,796	AS	1B
0920	6	2	50194		WOODLAND COTTAGES PARKING	FROM ROUTE 0901A (VISITOR CENTER PARKING)	TO PARKING	YES	PUBLIC	9,711	AS	1E

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MACA Mammoth Cave National Park

PARKING AREA INVENTORY (1300 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Description		Maintenance District	FLTP	Access Level	Area (SQ FT)	Surf. Type	Area Map	
					From	To							
0922	6	2	50160		SERVICES PARKING (POST OFFICE/DUMP STATION/GAS)	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY)	TO ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)		YES	PUBLIC	45,911	AS	1E
0923	6	2	50162		ELEVATOR PARKING	FROM ROUTE 0420 (ELEVATOR SHAFT ROAD)	TO PARKING		NO	NONPUBLIC	4,648	AS	1D
0931ZZ	6	2	50180		PICNIC GROUNDS PARKING	ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD)			YES	PUBLIC	10,870	AS	1E
0933	6	2	50196		DENNISON FERRY DAY USE PARKING	ADJACENT TO ROUTE 0114 (DENNISON FERRY ROAD)			NO	PUBLIC	12,115	GR	1
0935	6	2	50201		FIRST CREEK TRAILHEAD PARKING	ADJACENT TO ROUTE 0103NBZ (HOUCHINS FERRY ROAD NORTH UNPAVED)			NO	PUBLIC	12,430	GR	2
0938	6	2	50207		HOUCHINS FERRY NORTH PARKING	ADJACENT TO ROUTE 0103NAZ (HOUCHINS FERRY ROAD NORTH PAVED) AT MP 0.03 ON LEFT			NO	PUBLIC	695	GR	2A
0939	6	2	83606		TEMPLE HILL CEMETERY PARKING	ADJACENT TO ROUTE 0103NBZ (HOUCHINS FERRY ROAD NORTH UNPAVED) AT MP 1.70 ON LEFT			NO	PUBLIC	3,267	GR	2
0940	6	2	83607		TEMPLE HILL TRAILHEAD PARKING	ADJACENT TO ROUTE 0103NBZ (HOUCHINS FERRY ROAD NORTH UNPAVED) AT MP 2.0 ON RIGHT			NO	PUBLIC	10,542	GR	2
0941	6	2	50148		JAGGERS CEMETERY PARKING	ADJACENT TO ROUTE 0103NBZ (HOUCHINS FERRY ROAD NORTH UNPAVED) AT MP 5.10 ON RIGHT			NO	PUBLIC	2,193	GR	2
0942	6	2	50149		LOCUST GROVE CEMETERY PARKING	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY)	TO CEMETERY		NO	PUBLIC	4,042	GR	1C,1D
0943	6	2	50150		MAMMOTH CAVE CHURCH PARKING	FROM ROUTE 0101 (FLINT RIDGE ROAD) AT MP 2.02 ON LEFT	TO PARKING		NO	PUBLIC	3,282	GR	1
0944	6	2	50200		LITTLE HOPE CEMETERY PARKING	FROM ROUTE 0016 (CAVE CITY ROAD) AT MP 0.68 ON RIGHT	TO PARKING		NO	PUBLIC	2,666	GR	1D

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MACA Mammoth Cave National Park

PARKING AREA INVENTORY (1300 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Description		Maintenance District	FLTP	Access Level	Area (SQ FT)	Surf. Type	Area Map	
					From	To							
0945	6	2	50145		JOPPA CHURCH CEMETERY PARKING	FROM ROUTE 0015 (BROWNSVILLE ROAD) AT MP 2.66 ON LEFT	TO PARKING		NO	PUBLIC	5,908	GR	1B
0946	6	2	61219		ADMINISTRATION AREA EMPLOYEE PARKING	FROM ROUTE 0960 (SUPERINTENDENT OFFICE PARKING)	TO PARKING		NO	NONPUBLIC	16,220	AS	1E
0947	6	2	50205		S & RM #1 PARKING	ADJACENT TO ROUTE 0417 (PARK MAINTENANCE ROAD) AT MP 0.41 ON RIGHT			NO	NONPUBLIC	748	AS	1E
0948	6	2	83608		S & RM EMPLOYEE #2 PARKING	ADJACENT TO ROUTE 0417 (PARK MAINTENANCE ROAD) AT MP ON LEFT			NO	NONPUBLIC	4,045	AS	1E
0949	6	2	86331		HQ CAMPGROUND EMPLOYEE PARKING	FROM ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD) AT MP 0.08 ON LEFT	TO PARKING		NO	NONPUBLIC	4,037	AS	1E
0950	6	2	86290		NORTH GREEN RIVER FERRY PARKING	ADJACENT TO ROUTE 0014 (GREEN RIVER FERRY ROAD NORTH) AT MP 4.14 ON RIGHT			NO	PUBLIC	2,144	GR	1
0951	6	2	113201		LOCUST GROVE BIKE TRAIL PARKING	ADJACENT TO ROUTE 0010 (MAMMOTH CAVE PARKWAY)			YES	PUBLIC	4,554	AS	1C
0952	6	2	113203		ZION CEMETERY ROAD TRAIL PARKING	ADJACENT TO ROUTE 0010 (MAMMOTH CAVE PARKWAY)			NO	PUBLIC	951	GR	1C
0955	6	2	231791		SEASONAL QUARTERS PARKING	FROM ROUTE 0903ZZ (RANGER TRAINING CENTER PARKING)	TO PARKING		YES	PUBLIC	6,502	CO	1E
0956	6	2	231793		FITNESS CENTER PARKING	ADJACENT TO ROUTE 0417 (PARK MAINTENANCE ROAD)			NO	NONPUBLIC	2,830	AS	1E
0957	6	2	225462		HERITAGE TRAIL PARKING	ADJACENT TO ROUTE 0430 (SUNSET LODGE ROAD)			YES	PUBLIC	821	AS	1E
0958	6	2	225463		FUELING/BUS PARKING	FROM ROUTE 0417 (PARK MAINTENANCE ROAD)	TO ROUTE 0902B (CONCESSION SERVICE PARKING)		NO	NONPUBLIC	36,817	AS	1E
0959	6	2	50151		MAPLE SPRINGS TRAILHEAD PARKING	FROM ROUTE 0110 (MAPLE SPRINGS LOOP) AT MP 1.06 ON LEFT	TO ROUTE 0110 (MAPLE SPRINGS LOOP)		YES	PUBLIC	16,810	AS	1A
0960	6	2	50120		SUPERINTENDENT OFFICE PARKING	FROM ROUTE 0418 (RESIDENCE LOOP ROAD)	TO PARKING		YES	PUBLIC	14,800	AS	1E

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Cycle 6 Summary Totals for Mammoth Cave National Park

Cycle 6 Route Totals			
	NPS Maintained	Concessionaire Maintained	Park Totals
Paved Roads, Data Collection Vehicle Rated (Miles)	36.75	0	36.75
Paved Roads, Manually Rated Length (Miles)	0.75	0	0.75
Paved Roads, Manually Rated Area (Sq. Ft.)	0	0	0
Unpaved Roads (Miles)	24.75	0	24.75
Paved Parking (Sq. Ft.)	739,944	0	739,944
Unpaved Parking (Sq. Ft.)	80,072	0	80,072

Cycle 6 Lane Miles and Overall Pavement Condition		
	Lanes Miles*	Pavement Condition Rating**
Data Collection Vehicle Routes	66.14	98
Manually Rated Roads	0.90	76
Parking Areas	12.74	83

* Equivalent Lane Miles are calculated by route using the following equations:
 - DCV and MRLs = (PAVE_WIDTH x PAVED_MI) / 11 foot lane
 - MRPs and PKGs = SQ_FEET / 5280 / 11 foot lane

**Parking and Manually Rated Routes are assigned the following PCR values based on the type of observed distresses:
 -Excellent = 97 -Good = 90 -Fair = 73
 -Poor = 53, 30, or 0 -Construction / Not Rated = -1

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General Park Road Functional Classification (FC) Table

FC	Type	User Access	Description	Route Numbers	Surface Types
1	Principal Park Road Rural Parkway	Public	Roads which constitute the main access route, circulatory tour, or thoroughfare for park visitors. Rural Parkways (e.g. Natchez Trace) are numbered 0001 - 0009.	0001 - 0009 0010 - 0099	AS - Asphaltic Concrete Pavement
2	Connector Park Road	Public	Roads which provide access within a park to areas of scenic, scientific, recreational or cultural interest, such as overlooks, campgrounds, etc.	0100 - 0199	BR - Brick or Pavers Road Bed CB - Cobble Stone Road Bed
3	Special Purpose Park Road	Public	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.	0200 - 0299	CO - Portland Cement Concrete Pavement GR - Gravel Road Bed
4	Primitive Park Road	Public	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. Note: Functional Classes 3 and 4 have the same route numbers because, historically, they were numbered similarly.	0200 - 0299	NV - Native or Dirt Material Road Bed
5	Administrative Park Road	Public	All public roads intended for access to administrative developments or structures such as park offices, employee quarters, or utility areas.	0400 - 0499	OT - Other Materials Road Bed
6	Administrative Park Road (Restricted Access)	Nonpublic	All roads normally closed to the public, including patrol roads, truck trails, and other similar roads. 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.	0400 - 0499	
7	Urban Parkway	Public	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.	0001 - 0009	
8	City Street	Public	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.	0600 - 0699	
N/A	Non-NPS Roads	Public	State, County, or City owned roads which border, traverse, or provide access to Park Facilities or Locations. Non-NPS roads are not assigned functional classes and are driven for GPS and Video Log only.	5000 - 5999	

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 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.

NPS / RIP Subcomponent Details for MACA

(Numerical By Summary Route and Subcomponent #)



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MACA Mammoth Cave National Park

SUMMARY ROUTE INVENTORY FOR ROADS (1100 SERIES FMSS LOCATIONS)

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
						From	To						
0103NZZ	50144	6	2		HOUCHINS FERRY ROAD NORTH	FROM HOUCHINS FERRY RAMP CROSSING #2	TO OLLIE ROAD, OLLIE RIDGE ROAD INTERSECTION AT MP 5.33	YES	0.49	4.84	5.	2	
0227ZZ	50125				WONDERING WOODS ROADS	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY)	TO WODERING WOODS VILLAGE	NO	0.00	1.03	1.03	6	

SUMMARY ROUTE INVENTORY FOR PARKING AREAS (1300 SERIES FMSS LOCATIONS)

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	User Access	Area (SQ FT)
						From	To			
0903ZZ	50184	6	2		RANGER TRAINING CENTER PARKING	FROM ROUTE 0417 (PARK MAINTENANCE ROAD)	TO PARKING	YES	PUBLIC	13,932
0918ZZ	50204	6	2		MAPLE SPRINGS TRAILHEAD PARKING UNPAVED	ADJACENT TO ROUTE 0959 (MAPLE SPRINGS TRAILHEAD PARKING)		NO	PUBLIC	19,837
0931ZZ	50180	6	2		PICNIC GROUNDS PARKING	ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD)		YES	PUBLIC	10,870

MACA-0103NZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
						From	To						
0103NAZ	50144	6	2		HOUCHINS FERRY ROAD NORTH PAVED	FROM HOUCHINS FERRY RAMP CROSSING #2	TO ROUTE 0103NBZ (HOUCHINS FERRY ROAD NORTH UNPAVED)	YES	0.49	0.00	0.49	2	
0103NBZ	50144	6	2		HOUCHINS FERRY ROAD NORTH UNPAVED	FROM ROUTE 0103NBZ (HOUCHINS FERRY ROAD NORTH UNPAVED)	TO OLLIE ROAD, OLLIE RIDGE ROAD INTERSECTION AT MP 5.33	NO	0.00	4.84	4.84	2	

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MACA Mammoth Cave National Park

MACA-0227ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
						From	To						
0227AZ	50125				WONDERING WOODS ROADS A	FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY)	TO ROUTE 0227BZ (WONDERING WOODS ROADS B)	NO	0.00	0.07	0.07	6	
0227BZ	50125				WONDERING WOODS ROADS B	FROM ROUTE 0227AZ (WONDERING WOODS ROADS A)	TO WODERING WOODS VILLAGE	NO	0.00	0.96	0.96	6	

MACA-0903ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	User Access	Area (SQ FT)
						From	To			
0903AZ	50184	6	2		RANGER TRAINING CENTER A PARKING	FROM ROUTE 0417 (PARK MAINTENANCE ROAD)	TO PARKING	YES	PUBLIC	9,982
0903BZ	50184	6	2		RANGER TRAINING CENTER B PARKING	ADJACENT TO ROUTE 0903AZ (RANGER TRAINING CENTER A PARKING)		YES	PUBLIC	3,950

NPS / RIP Subcomponent Details for MACA

(Numerical By Summary Route and Subcomponent #)



Shading Color Key

White = Paved Routes, DCV Driven

Grey = Paved Routes, DCV not Driven

Black = Paved Routes, Non-NPS

■ = Concession Route

Yellow = Unpaved Routes, DCV not Driven

Blue = Paved Parking Areas

Green = Unpaved Parking Areas

DCV = Data Collection Vehicle
 MRL = Manually Rated Line
 MRP = Manually Rated Polygon
 PKG = Parking Areas
 NC = Not Collected

MACA Mammoth Cave National Park

MACA-0918ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	User Access	Area (SQ FT)
						From	To			
0918AZ	50204	6	2		MAPLE SPRINGS TRAILHEAD PARKING UNPAVED A	ADJACENT TO ROUTE 0959 (MAPLE SPRINGS TRAILHEAD PARKING)		NO	PUBLIC	4,894
0918BZ	50204	6	2		MAPLE SPRINGS TRAILHEAD PARKING UNPAVED B	ADJACENT TO ROUTE 0959 (MAPLE SPRINGS TRAILHEAD PARKING)		NO	PUBLIC	9,577
0918CZ	50204	6	2		MAPLE SPRINGS TRAILHEAD PARKING UNPAVED C	ADJACENT TO ROUTE 0959 (MAPLE SPRINGS TRAILHEAD PARKING)		NO	PUBLIC	3,128
0918DZ	50204	6	2		MAPLE SPRINGS TRAILHEAD PARKING UNPAVED D	ADJACENT TO ROUTE 0959 (MAPLE SPRINGS TRAILHEAD PARKING)		NO	PUBLIC	2,238

MACA-0931ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	User Access	Area (SQ FT)
						From	To			
0931AZ	50180	6	2		PICNIC GROUNDS A PARKING	ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD) AT MP 0.11 ON LEFT		YES	PUBLIC	1,145
0931BZ	50180	6	2		PICNIC GROUNDS B PARKING	ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD) AT MP 0.12 ON LEFT		YES	PUBLIC	1,040
0931CZ	50180	6	2		PICNIC GROUNDS C PARKING	ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD) AT MP 0.20 ON LEFT		YES	PUBLIC	3,441
0931DZ	50180	6	2		PICNIC GROUNDS D PARKING	ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD) AT MP 0.21 ON LEFT		YES	PUBLIC	1,476
0931EZ	50180	6	2		PICNIC GROUNDS E PARKING	ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD) AT MP 0.38 ON LEFT		YES	PUBLIC	2,269
0931FZ	50180	6	2		PICNIC GROUNDS F PARKING	ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD) AT MP 0.39 ON LEFT		YES	PUBLIC	1,499

Route Identification Changes from Previous Cycle Mammoth Cave National Park

ROUTES REMOVED FROM PREVIOUS INVENTORY:

Route No.	Route Name	Type of Change	Comments
0404	LICK LOG ROAD	OTHER	UNPAVED ROUTE REMOVED BECAUSE IT IS NO LONGER USED OR MAINTAINED.

ROUTES ADDED FROM PREVIOUS INVENTORY:

Route No.	Route Name	Type of Change	Comments
5107	LITTLE JORDAN ROAD EXTENDED (UGLY CREEK)	OTHER	NON-NPS ROAD ADDED IN CYCLE 6.

ROUTES MODIFIED FROM PREVIOUS INVENTORY:

Route No.	Route Name	Type of Change	Comments
0020	MAMMOTH CAVE PARKWAY (PARK CITY ROAD)	ROUTE NAME	ROUTE NAME CHANGED FROM "PARK CITY ROAD".
0103NZZ	HOUCHINS FERRY ROAD NORTH	ROUTES COMBINED	ROUTE MODIFIED TO ADD SUBCOMPONENTS 0103NAZ AND 0103NBZ.
0227ZZ	WONDERING WOODS ROADS	ROUTES COMBINED	ROUTE MODIFIED TO ADD SUBCOMPONENTS 0227AZ AND 0227BZ.
0501	VISITOR CENTER CAMPGROUND LOOP D	ROUTE NAME	ROUTE NAME CHANGED FROM "VISITOR CENTER CAMPGROUND LOOP B".
0504	VISITOR CENTER CAMPGROUND LOOP B	ROUTE NAME	ROUTE NAME CHANGED FROM "VISITOR CENTER CAMPGROUND LOOP D".
0915	GREEN RIVER PARKING	ROUTE NAME	ROUTE NAME CHANGED FROM "GREEN RIVER FERRY PARKING".
0916	LINCOLN TRAILHEAD PARKING	ROUTE NAME	ROUTE NAME CHANGED FROM "LINCOLN LOOP PARKING".
0918ZZ	MAPLE SPRINGS TRAILHEAD PARKING UNPAVED	ROUTES COMBINED	ROUTE MODIFIED TO ADD SUBCOMPONENTS 0918AZ, 0918BZ, 0918CZ, AND 0918DZ.
0946	ADMINISTRATION AREA EMPLOYEE PARKING	SURFACE TYPE CHANGE	SURFACE TYPE CHANGED FROM GRAVEL TO ASPHALT.
0947	S & RM #1 PARKING	ROUTE NAME	ROUTE NAME CHANGED FROM "S & RM EMPLOYEE PARKING #1".
0948	S & RM EMPLOYEE #2 PARKING	SURFACE TYPE CHANGE	SURFACE TYPE CHANGED FROM GRAVEL TO ASPHALT.
0959	MAPLE SPRINGS TRAILHEAD PARKING	ROUTE NUMBER	FACILITY TYPE CHANGED FROM 1110 TO 1310 (ROAD TO PARKING) AND ROUTE NUMBER CHANGED FROM 0215 TO 0959.
0960	SUPERINTENDENT OFFICE PARKING	ROUTE NUMBER	FACILITY TYPE CHANGED FROM 1110 TO 1310 (ROAD TO PARKING) AND ROUTE NUMBER CHANGED FROM 0419 TO 0960.

Section 3 Park Summary Information



Mammoth Cave National Park



Federal Lands Highway
Road Inventory Program

Parkwide Paved Route Condition Summary Mammoth Cave National Park

Table 1: Paved Route Miles and Parking Area Square Footages by Access Level and PCR

Breakdown of Pavement Condition Rating (PCR) Based on Access Level

	POOR (PCR of 0 - 60)	FAIR (PCR of 61 - 84)	GOOD (PCR of 85 - 94)	EXCELLENT (PCR of 95 -100)	
PAVED ROADS					
Functional Class	Length (miles)	Length (miles)	Length (miles)	Length (miles)	Total Mileage by FC
1	0.02	0.54	1.37	19.82	21.75
2	0.36	1.49	1.17	7.05	10.07
3		0.03	0.39	3.10	3.53
4					
5	0.13	0.04	0.20	0.76	1.13
6					
7					
8					
Total Mileage by PCR	0.51	2.10	3.13	30.73	36.48
PAVED PARKING					
Access Level	Area (sq. ft.)	Area (sq. ft.)	Area (sq. ft.)	Area (sq. ft.)	Total Area
PUBLIC	12,943	163,425	342,919	81,666	600,953
NONPUBLIC	45,090	53,037	36,079	4,785	138,991
Total Area by PCR	58,033	216,462	378,998	86,451	739,944

NOTES:

1. Data are reported in the table only for paved roads and parking lots that received a condition rating.
2. Non-linear roads (MRP collected routes) are measured by area and converted to equivalent route miles based on a 22-ft pavement width in order to be included in the mileage totals for paved roads shown above.
3. Quantities in the table above are derived from the route condition data within the PMS_20, PMS_MRL, PMS_MRP, and PMS_PKG tables in the Park geodatabase.

Parkwide Condition Percentages

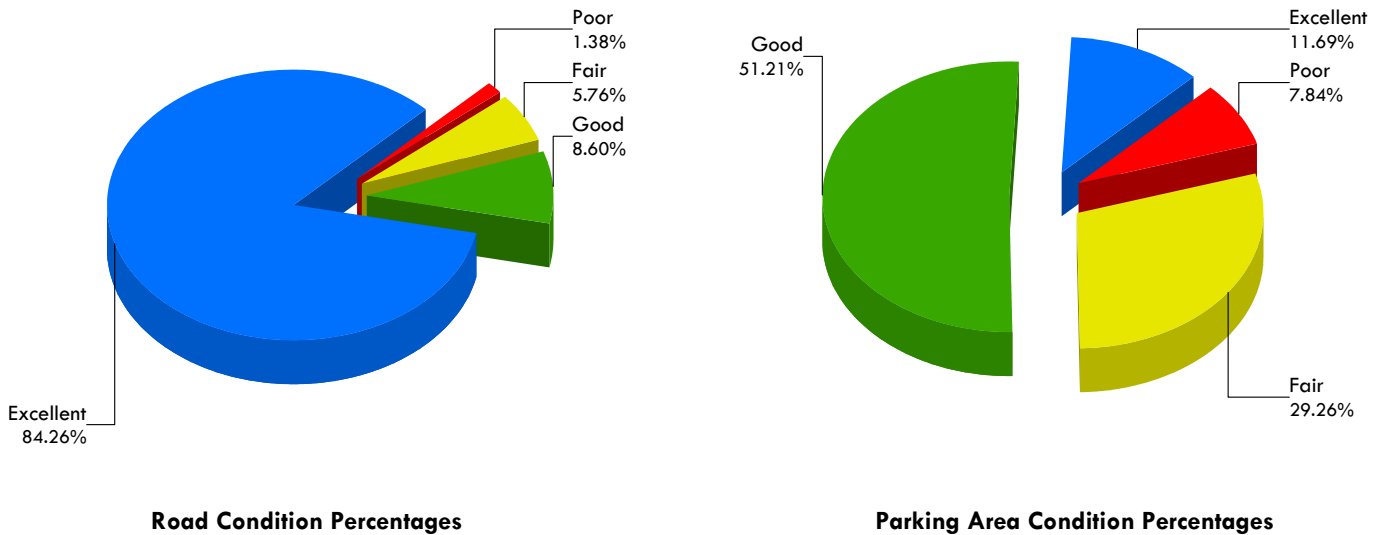
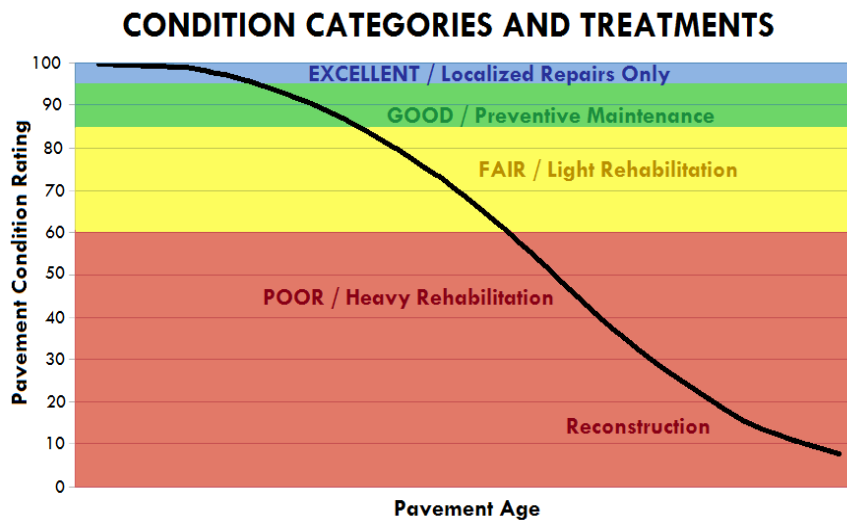


Figure 1: Pavement Condition Rating Breakdown for Paved Roads and Parking Areas

Explanation of the Excellent, Good, Fair, and Poor Condition Descriptions

The Road Inventory Program aims to provide assistance in translating the excellent / good / fair / poor rating categories into pavement needs categories. The PCR can be used to indicate the place in the Pavement Life Cycle and the type of treatments that should be considered now and into the future.

- Excellent / New: PCR of 95-100
 - Pavements in this range will require only spot repairs
- Good: PCR of 85-94
 - Pavements in this range will likely be candidates for Preventive Maintenance. Examples include Chip and Slurry Seals, Micro Surfacing and Thin Overlays.
- Fair: PCR of 61-84
 - Pavements in this range will likely be candidates of Light Rehabilitation (L3R). Examples include singlelift overlays up to 2.5 inches in total thickness, milling and overlays.
- Poor: PCR of 0-60
 - Pavements in this range will likely be candidates of Heavy Rehabilitation or Reconstruction (H3R or 4R). Examples include Pulverization, Multiple Lift Overlays, and Reconstruction.



At this time, specific Maintenance and Rehabilitation activities should be evaluated and recommended at the project level. Site-specific conditions that influence treatment type should be determined based on performing a subsurface investigation and/or pavement condition survey, and not be based solely on RIP data. Additionally, RIP produces a snapshot of conditions at the time in which the data were collected. For further information or to obtain additional Pavement Management System's data from our Highway Pavement Management Application (HPMA) please contact the Eastern Federal Lands pavement team.



Cycle 6 - Road Inventory Program Road Condition Summary Report for Data Collection Vehicle (DCV) Rated Roads

Condition (Rating / Index) Legend

EXCELLENT (95 - 100)
GOOD (85 - 94)
FAIR (61 - 84)
POOR (0 - 60)
NR = NOT RATED

Mammoth Cave National Park

Notes:

- This condition summary report contains only the roads rated with the Data Collection Vehicle (DCV).
- Condition on roads that were manually rated and parking areas are shown in separate reports.
- Route-level scores shown on this page may not represent scores at smaller intervals (due to rollup calculations).
- Additional details on individual road ratings at 0.10-mile and 1-mile intervals can be found in Section 5 of the Cycle 6 RIP Report.
- Refer to the RIP Report Appendix for an explanation of the rating system and rating methods.

Route-Level Condition for Roads Rated with the Data Collection Vehicle (DCV)

Route No.	FMSS No.	Route Name	Functional Class	Surf. Type	Paved Length (Miles)	Pavement Condition Rating (PCR)	Roughness Condition Index (RCI)	Surface Condition Rating (SCR)	Structural Crack Index	Alligator Crack Index	Longitudinal Cracking Index	Transverse Cracking Index	Patch / Pothole Index	Rutting Index
MACA-0010	50610	MAMMOTH CAVE PARKWAY	1	AS	5.74	100	100	100	100	100	100	100	100	100
MACA-0012	50613	HOTEL ENTRANCE ROAD	1	AS	0.12	98	NR	98	98	100	98	99	100	100
MACA-0013	50112	GREEN RIVER FERRY ROAD SOUTH	1	AS	1.31	100	100	100	100	100	100	100	100	100
MACA-0014	50113	GREEN RIVER FERRY ROAD NORTH	1	AS	4.18	100	100	100	100	100	100	100	100	100
MACA-0015	6061	BROWNSVILLE ROAD	1	AS	5.10	98	100	97	97	100	97	100	100	100
MACA-0016	50612	CAVE CITY ROAD	1	AS	3.02	100	100	100	100	100	100	100	100	100
MACA-0020	85739	MAMMOTH CAVE PARKWAY (PARK CITY ROAD)	1	AS	2.28	99	100	99	99	100	99	100	100	100
MACA-0101	50614	FLINT RIDGE ROAD	2	AS	3.63	100	NR	100	100	100	100	100	100	100
MACA-0102	50609	CEDAR SINK ROAD	2	AS	1.22	100	100	100	100	100	100	100	100	100
MACA-0103	50608	HOUCHINS FERRY ROAD SOUTH	2	AS	1.07	82	65	94	94	99	95	99	100	98
MACA-0106	50625	PARK RIDGE ROAD	2	AS	1.26	70	74	67	67	90	77	97	100	99
MACA-0110	50110	MAPLE SPRINGS LOOP	3	AS	1.96	100	NR	100	100	100	100	100	100	100
MACA-0200	50617	FROZEN NIAGARA ENTRANCE ROAD	2	AS	1.10	100	100	100	100	100	100	100	100	100
MACA-0201	50616	CARMICHAEL ENTRANCE ROAD	2	AS	1.04	100	100	100	100	100	100	100	100	100
MACA-0202	50117	VISITOR CENTER PICNIC GROUNDS ROAD	3	AS	0.45	100	NR	100	100	100	100	100	100	100
MACA-0203	50118	VISITOR CENTER PICNIC SHELTER ROAD	3	AS	0.19	99	NR	99	100	100	100	100	100	99
MACA-0205	255491	HQ CAMPGROUND ACCESS ROAD	2	AS	0.18	99	NR	99	100	100	100	100	100	99
MACA-0223	85742	MAPLE SPRINGS LOOP CAMPGROUND	3	AS	0.25	98	NR	98	100	100	100	100	100	98
MACA-0224	225959	VISITOR CENTER BUS LOOP	3	AS	0.23	99	NR	99	100	100	100	100	100	99



Cycle 6 - Road Inventory Program Road Condition Summary Report for Data Collection Vehicle (DCV) Rated Roads

Condition (Rating / Index) Legend

EXCELLENT (95 - 100)
GOOD (85 - 94)
FAIR (61 - 84)
POOR (0 - 60)
NR = NOT RATED

Mammoth Cave National Park

Notes:

- This condition summary report contains only the roads rated with the Data Collection Vehicle (DCV).
- Condition on roads that were manually rated and parking areas are shown in separate reports.
- Route-level scores shown on this page may not represent scores at smaller intervals (due to rollup calculations).
- Additional details on individual road ratings at 0.10-mile and 1-mile intervals can be found in Section 5 of the Cycle 6 RIP Report.
- Refer to the RIP Report Appendix for an explanation of the rating system and rating methods.

Route-Level Condition for Roads Rated with the Data Collection Vehicle (DCV)

Route No.	FMSS No.	Route Name	Functional Class	Surf. Type	Paved Length (Miles)	Pavement Condition Rating (PCR)	Roughness Condition Index (RCI)	Surface Condition Rating (SCR)	Structural Crack Index	Alligator Crack Index	Longitudinal Cracking Index	Transverse Cracking Index	Patch / Pothole Index	Rutting Index
MACA-0417	50116	PARK MAINTENANCE ROAD	5	AS	0.58	93	92	93	95	100	95	93	100	99
MACA-0418	50119	RESIDENCE LOOP ROAD	5	AS	0.32	100	NR	100	100	100	100	100	100	100
MACA-0420	50623	ELEVATOR SHAFT ROAD	2	AS	0.08	99	NR	99	100	100	100	100	100	99
MACA-0430	50111	SUNSET LODGE ROAD	3	AS	0.09	99	NR	99	100	100	100	100	99	99
MACA-0500	50619	NEW ENTRANCE LOOP	5	AS	0.16	98	NR	98	100	100	100	100	100	98
MACA-0501	255478	VISITOR CENTER CAMPGROUND LOOP D	3	AS	0.26	98	NR	98	100	100	100	100	100	98
MACA-0502	50109	VISITOR CENTER CAMPGROUND LOOP A	3	AS	0.14	98	NR	98	100	100	100	100	100	98
MACA-0503	255486	VISITOR CENTER CAMPGROUND LOOP C	3	AS	0.38	100	NR	100	100	100	100	100	100	100
MACA-0504	255487	VISITOR CENTER CAMPGROUND LOOP B	3	AS	0.41	100	NR	100	100	100	100	100	100	100



Cycle 6 - Road Inventory Program Road Condition Summary Report for Manually Rated Roads

Mammoth Cave National Park

Condition (Rating / Index) Legend

EXCELLENT (95 - 100)
GOOD (85 - 94)
FAIR (61 - 84)
POOR (0 - 60)
NR = NOT RATED

Notes:

- This condition summary report contains only the roads that were manually rated.
 - MRL: Manually Rated Line (a linear road)
 - MRP: Manually Rated Polygon (a non-linear road)
- Condition on roads that were rated with the Data Collection Vehicle (DCV) are shown in a separate report.
- A road is manually rated when it is determined to be unsuitable for the DCV to drive.
- Additional details on individual road ratings at 0.10-mile and 1-mile intervals can be found in Section 5 of the Cycle 6 RIP Report.
- Refer to the RIP Report Appendix for an explanation of the rating system and rating methods.

Route-Level Condition for Manually Rated Line (MRL) Roads

Route No.	FMSS No.	Route Name	Functional Class	Surf. Type	Paved Length (Miles)	Pavement Condition Rating (PCR)	Roughness Condition Index (RCI)	Surface Condition Rating (SCR)	Structural Crack Index	Alligator Crack Index	Longitudinal Cracking Index	Transverse Cracking Index	Patch / Pothole Index	Rutting Index
MACA-0103NAZ	50144	HOUCHINS FERRY ROAD NORTH PAVED	2	AS	0.49	81	NR	81	81	90	91	97	100	99
MACA-0407	50626	HISTORIC ENTRANCE ROAD	3	AS	0.18	90	NR	90	NR	90	90	90	97	90
MACA-0434	225465	LEARNING CENTER ACCESS ROAD	5	AS	0.07	0	NR	0	NR	NR	NR	NR	NR	NR



Federal Lands Highway
Road Inventory Program

Cycle 6 - Road Inventory Program

Parking Area Condition Summary Report

Mammoth Cave National Park

Condition (Rating / Index) Legend

EXCELLENT (97)
GOOD (90)
FAIR (73)
POOR* (0, 30, 53)
NR = NOT RATED

- Notes:
- A PCR of 0 indicates a paved parking area in very poor condition. Individual distresses could not be identified.
 - Additional details on individual parking areas can be found in Section 6 of the Cycle 6 RIP Report.
 - Refer to the RIP Report Appendix for an explanation of the rating system and rating methods.

Condition Rating Details for Paved Parking Areas

Route No.	FMSS No.	Route Name	User Access	Surf. Type	Area (Sq. Ft.)	Pavement Condition Rating (PCR)	Asphalt Surface Distresses						Concrete Surface Distresses					
							Alligator Cracking	Longitudinal / Transverse Cracking	Rutting / Distortions	Potholes / Patching	HMA Patching	Surface Raveling / Bleeding	Joint Faulting	Slab Cracking	Joint Distresses	Delamination / Pop-Outs	Potholes / Patching	
MACA-0900	50187	DOYLE VALLEY OVERLOOK	PUBLIC	AS	8,536	97	97	97	97	97	97	97						
MACA-0901A	50169	VISITOR CENTER PARKING	PUBLIC	AS	247,079	90	97	90	97	90	97	97						
MACA-0901B	50165	HOTEL SERVICES PARKING	PUBLIC	AS	5,765	73	73	90	97	90	90	97						
MACA-0902A	50172	MAINTENANCE PARKING	NONPUBLIC	AS	45,090	53	53	90	90	53	97	90						
MACA-0902B	50170	CONCESSION SERVICE PARKING	NONPUBLIC	AS	16,232	90	90	90	90	97	97	90						
MACA-0903AZ	50184	RANGER TRAINING CENTER A PARKING	PUBLIC	AS	9,982	90	97	90	90	90	97	90						
MACA-0903BZ	50184	RANGER TRAINING CENTER B PARKING	PUBLIC	CO	3,950	73							97	90	73	73	97	
MACA-0904A	50167	HOUCHINS FERRY ROAD SOUTH PARKING	PUBLIC	AS	1,606	90	97	90	97	97	97	90						
MACA-0904B	86327	HOUCHINS FERRY ROAD SOUTH BOAT TRAILER PARKING	PUBLIC	AS	3,172	73	97	90	90	97	97	73						
MACA-0905	50185	RECYCLING AREA PARKING	NONPUBLIC	AS	8,324	90	97	90	97	90	97	90						
MACA-0906A	50175	SUNSET LODGE A PARKING	PUBLIC	AS	2,380	90	97	90	97	97	97	97						
MACA-0906B	50176	SUNSET LODGE B PARKING	PUBLIC	AS	2,626	90	97	90	90	97	97	90						
MACA-0907A	50182	PICNIC SHELTER A PARKING	PUBLIC	AS	7,719	97	97	97	97	97	97	97						
MACA-0907B	50183	PICNIC SHELTER B PARKING	PUBLIC	AS	2,281	97	97	97	97	97	97	97						
MACA-0907C	86328	PICNIC SHELTER C PARKING	PUBLIC	AS	1,682	97	97	97	97	97	97	97						
MACA-0908	50164	MAMMOTH CAVE HOTEL PARKING	PUBLIC	AS	123,003	73	97	90	90	73	90	90						
MACA-0909	50191	SLOANS CROSSING PICNIC/POND PARKING	PUBLIC	AS	9,355	97	97	97	97	97	97	97						
MACA-0911	50179	PARK CITY ENTRANCE SIGN PARKING	PUBLIC	AS	9,754	97	97	97	97	97	97	97						
MACA-0912	50193	TURNHOLE BEND NATURE TRAIL PARKING	PUBLIC	AS	5,993	90	97	90	97	97	97	90						
MACA-0913	50189	SAND CAVE PARKING	PUBLIC	AS	6,319	97	97	97	97	97	97	97						
MACA-0915	50163	GREEN RIVER PARKING	PUBLIC	AS	21,033	73	97	90	73	97	97	73						
MACA-0916	50168	LINCOLN TRAILHEAD PARKING	PUBLIC	AS	12,943	53	53	90	73	97	97	73						
MACA-0919	50157	CEDAR SINK TRAILHEAD PARKING	PUBLIC	AS	5,796	97	97	97	97	97	97	97						
MACA-0920	50194	WOODLAND COTTAGES PARKING	PUBLIC	AS	9,711	90	97	97	90	97	97	90						
MACA-0922	50160	SERVICES PARKING (POST OFFICE/DUMP STATION/GAS)	PUBLIC	AS	45,911	90	97	90	97	97	90	90						
MACA-0923	50162	ELEVATOR PARKING	NONPUBLIC	AS	4,648	90	97	90	97	97	97	90						



Cycle 6 - Road Inventory Program Parking Area Condition Summary Report

Mammoth Cave National Park

Condition (Rating / Index) Legend

EXCELLENT (97)
GOOD (90)
FAIR (73)
POOR* (0, 30, 53)
NR = NOT RATED

- Notes:
- A PCR of 0 indicates a paved parking area in very poor condition. Individual distresses could not be identified.
 - Additional details on individual parking areas can be found in Section 6 of the Cycle 6 RIP Report.
 - Refer to the RIP Report Appendix for an explanation of the rating system and rating methods.

Condition Rating Details for Paved Parking Areas

Route No.	FMSS No.	Route Name	User Access	Surf. Type	Area (Sq. Ft.)	Pavement Condition Rating (PCR)	Asphalt Surface Distresses						Concrete Surface Distresses						
							Alligator Cracking	Longitudinal / Transverse Cracking	Rutting / Distortions	Potholes / Patching	HMA Patching	Surface Raveling / Bleeding	Joint Faulting	Slab Cracking	Joint Distresses	Delamination / Pop-Outs	Potholes / Patching		
MACA-0931AZ	50180	PICNIC GROUNDS A PARKING	PUBLIC	AS	1,145	97	97	97	97	97	97	97							
MACA-0931BZ	50180	PICNIC GROUNDS B PARKING	PUBLIC	AS	1,040	97	97	97	97	97	97	97							
MACA-0931CZ	50180	PICNIC GROUNDS C PARKING	PUBLIC	AS	3,441	97	97	97	97	97	97	97							
MACA-0931DZ	50180	PICNIC GROUNDS D PARKING	PUBLIC	AS	1,476	97	97	97	97	97	97	97							
MACA-0931EZ	50180	PICNIC GROUNDS E PARKING	PUBLIC	AS	2,269	97	97	97	97	97	97	97							
MACA-0931FZ	50180	PICNIC GROUNDS F PARKING	PUBLIC	AS	1,499	97	97	97	97	97	97	97							
MACA-0946	61219	ADMINISTRATION AREA EMPLOYEE PARKING	NONPUBLIC	AS	16,220	73	97	97	97	90	97	73							
MACA-0947	50205	S & RM #1 PARKING	NONPUBLIC	AS	748	97	97	97	97	97	97	97							
MACA-0948	83608	S & RM EMPLOYEE #2 PARKING	NONPUBLIC	AS	4,045	90	97	97	90	97	97	90							
MACA-0949	86331	HQ CAMPGROUND EMPLOYEE PARKING	NONPUBLIC	AS	4,037	97	97	97	97	97	97	97							
MACA-0951	113201	LOCUST GROVE BIKE TRAIL PARKING	PUBLIC	AS	4,554	97	97	97	97	97	97	97							
MACA-0955	231791	SEASONAL QUARTERS PARKING	PUBLIC	CO	6,502	73							73	90	90	73	90		
MACA-0956	231793	FITNESS CENTER PARKING	NONPUBLIC	AS	2,830	90	97	90	97	97	97	90							
MACA-0957	225462	HERITAGE TRAIL PARKING	PUBLIC	AS	821	90	97	90	97	97	97	90							
MACA-0958	225463	FUELING/BUS PARKING	NONPUBLIC	AS	36,817	73	97	90	90	97	97	73							
MACA-0959	50151	MAPLE SPRINGS TRAILHEAD PARKING	PUBLIC	AS	16,810	90	97	90	97	97	90	97							
MACA-0960	50120	SUPERINTENDENT OFFICE PARKING	PUBLIC	AS	14,800	97	97	97	97	97	97	97							

Section 4 Park Route Location Maps



Mammoth Cave National Park

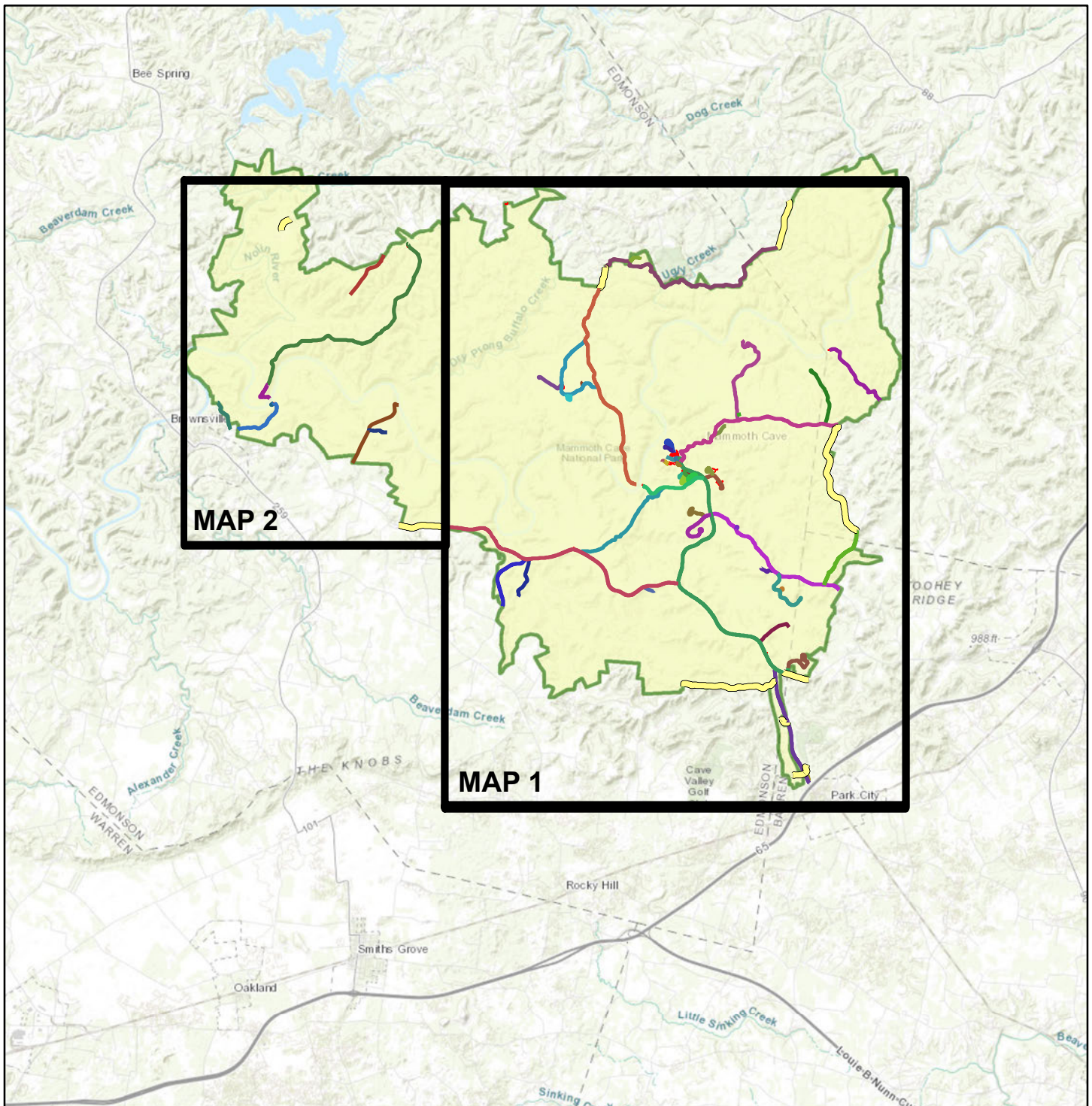


Federal Lands Highway
Road Inventory Program

Mammoth Cave National Park

ROUTE LOCATION MAP

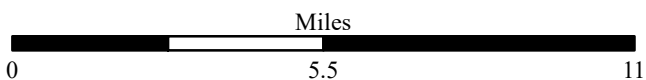
KEY MAP



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Note: Unique colors are used to differentiate roads

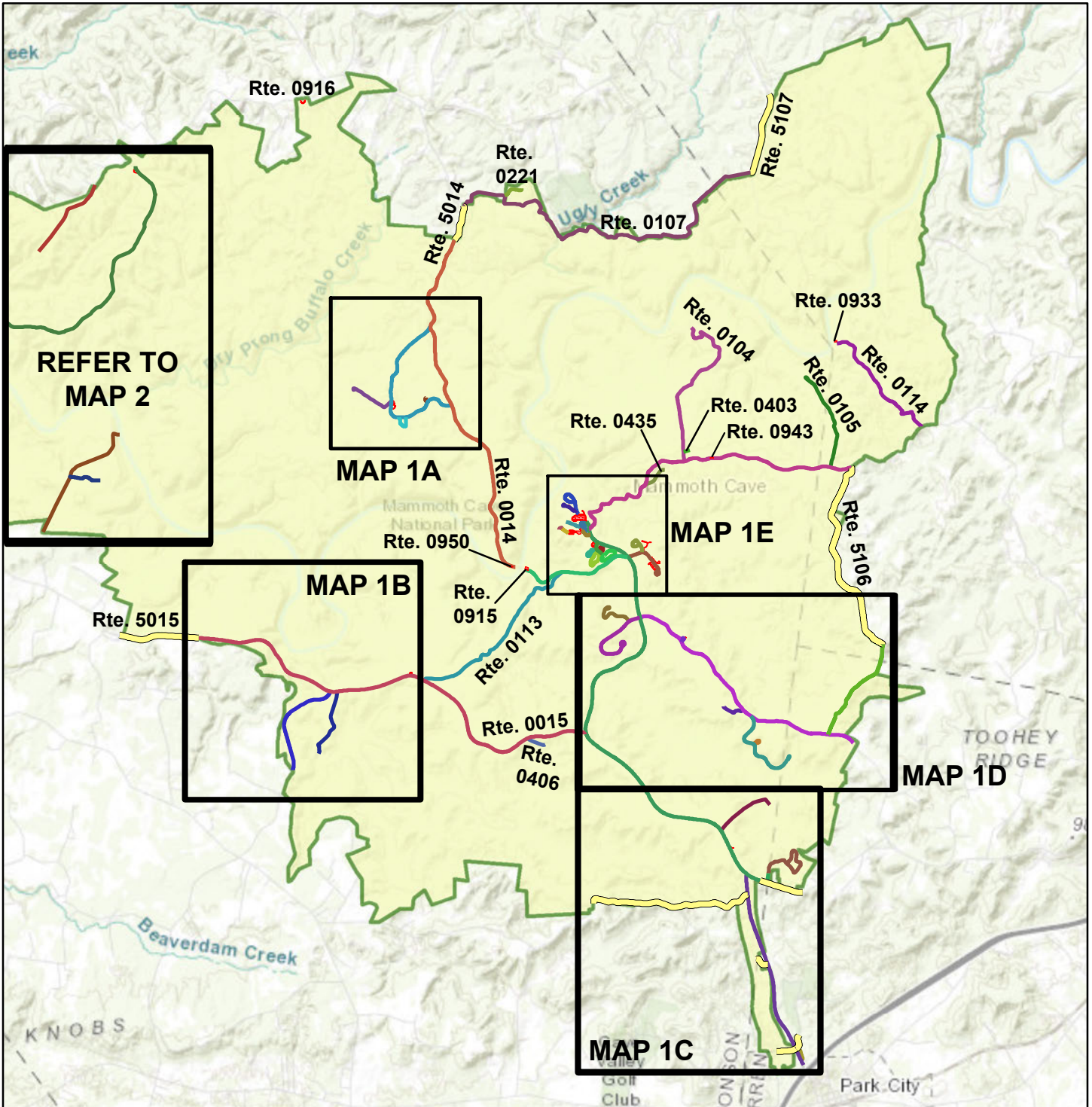
 **Non-NPS Collected Routes**



Mammoth Cave National Park

ROUTE LOCATION MAP

MAP 1



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Note: Unique colors are used to differentiate roads

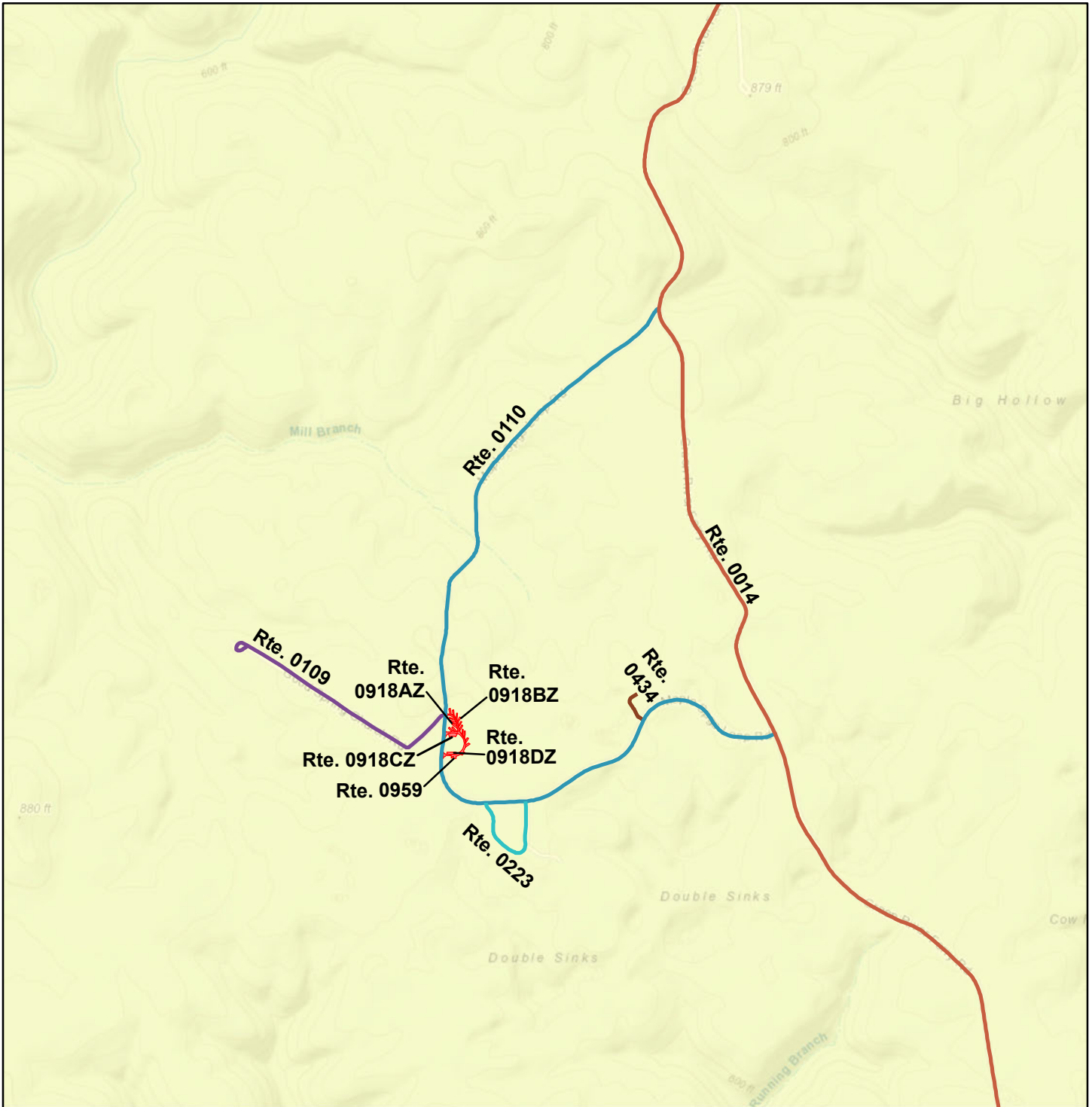
 Non-NPS Collected Routes



Mammoth Cave National Park

ROUTE LOCATION MAP

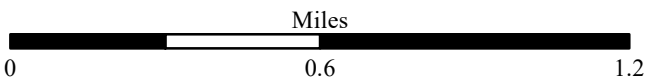
MAP 1A



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Note: Unique colors are used to differentiate roads

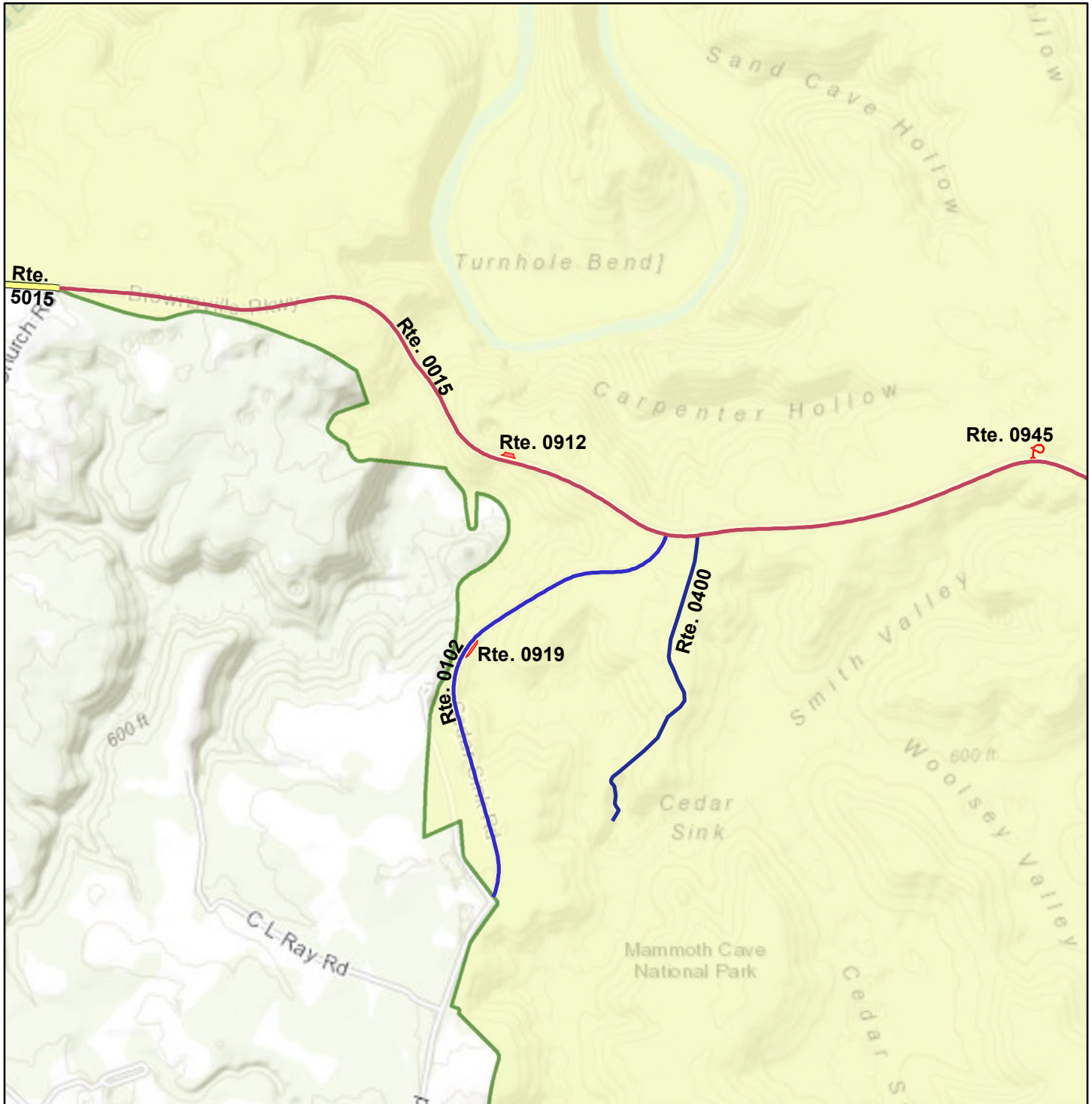
==== Non-NPS Collected Routes



Mammoth Cave National Park

ROUTE LOCATION MAP

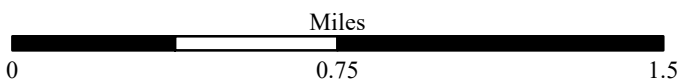
MAP 1B



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Note: Unique colors are used to differentiate roads

 **Non-NPS Collected Routes**



Mammoth Cave National Park

ROUTE LOCATION MAP

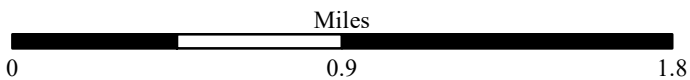
MAP 1C



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Note: Unique colors are used to differentiate roads

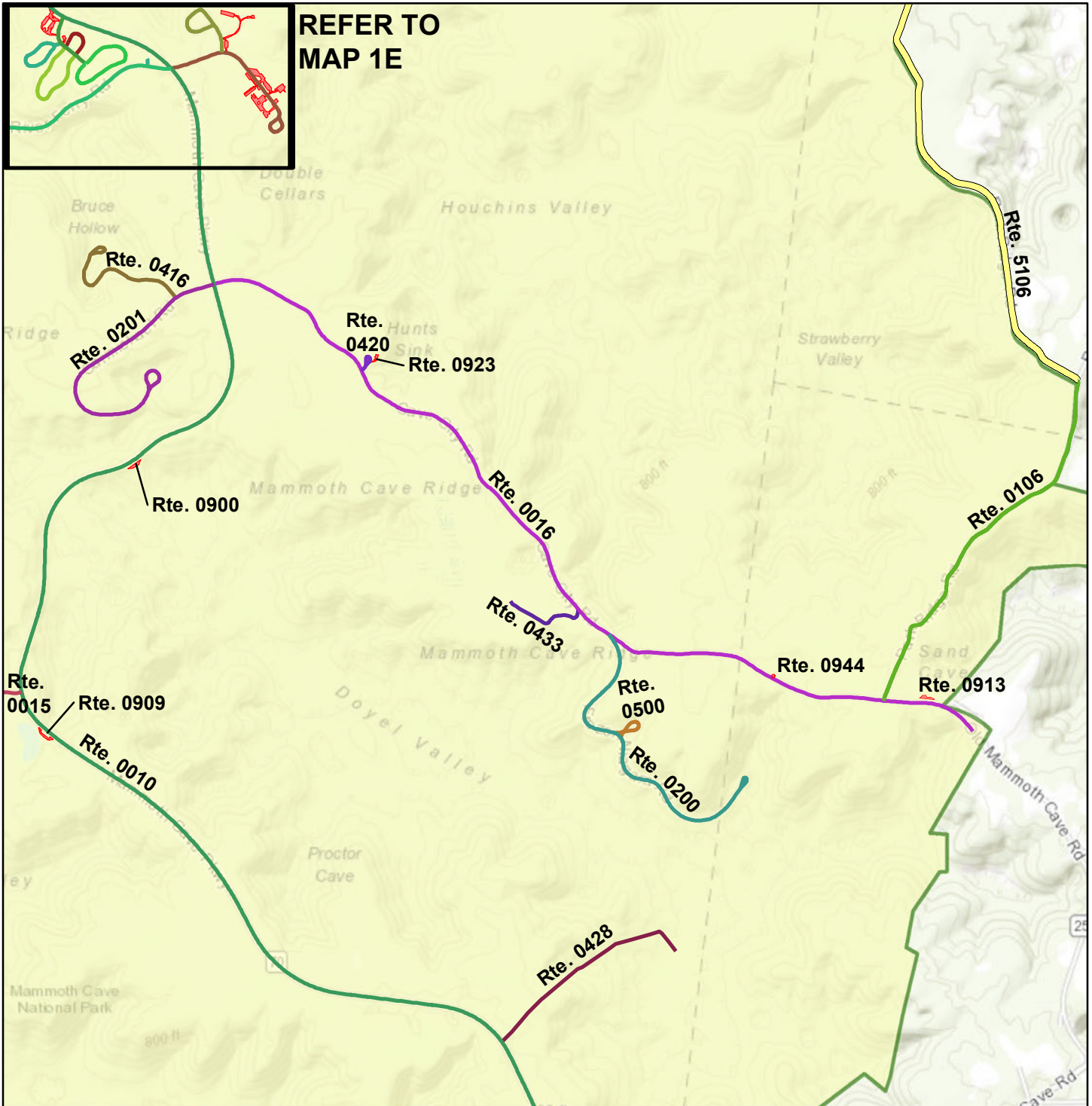
 Non-NPS Collected Routes



Mammoth Cave National Park

ROUTE LOCATION MAP

MAP 1D

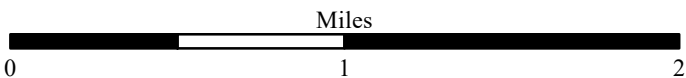


REFER TO
MAP 1E

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

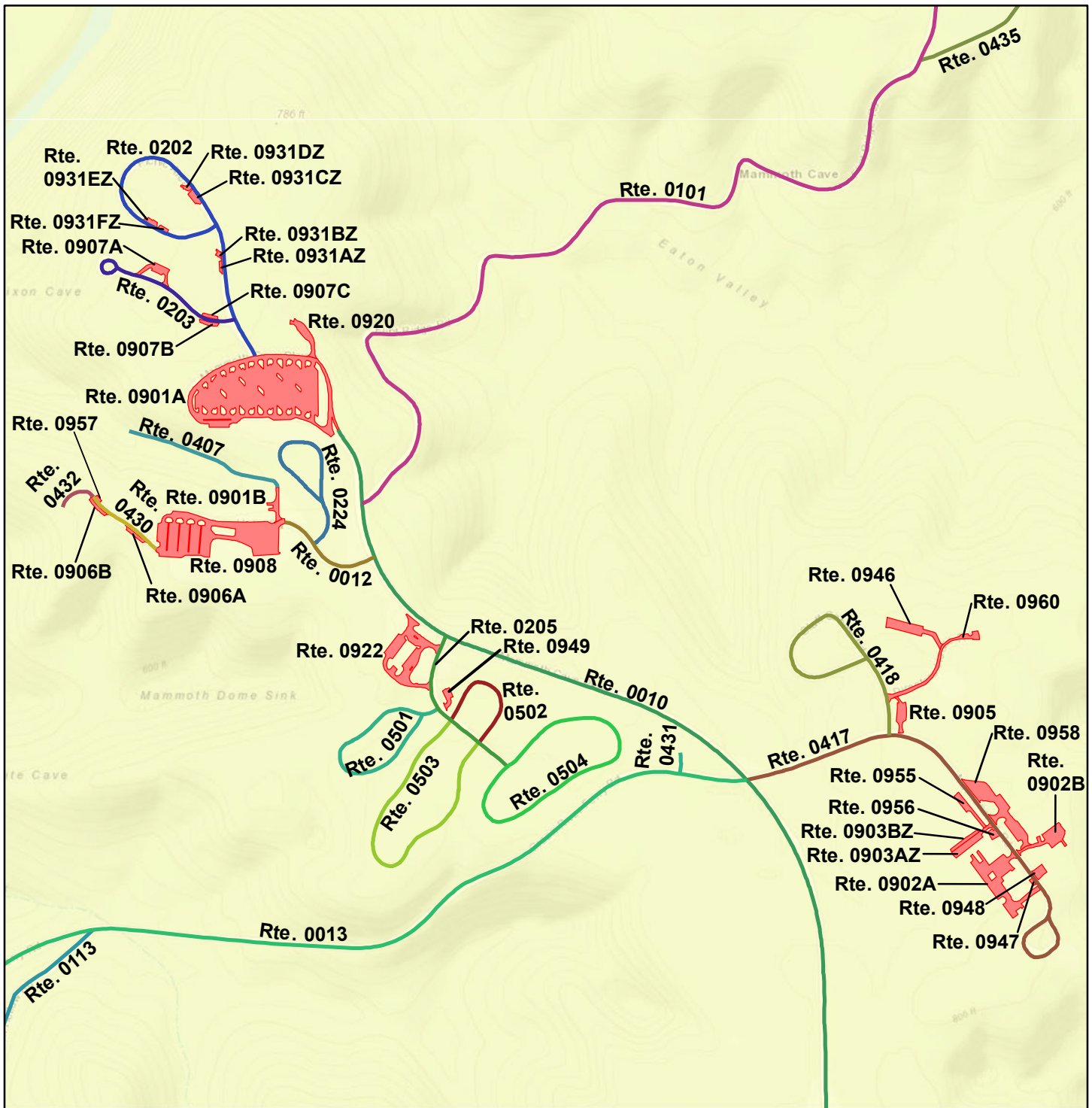
Note: Unique colors are used to differentiate roads

Non-NPS Collected Routes



Mammoth Cave National Park

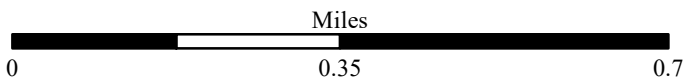
ROUTE LOCATION MAP MAP 1E



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Note: Unique colors are used to differentiate roads

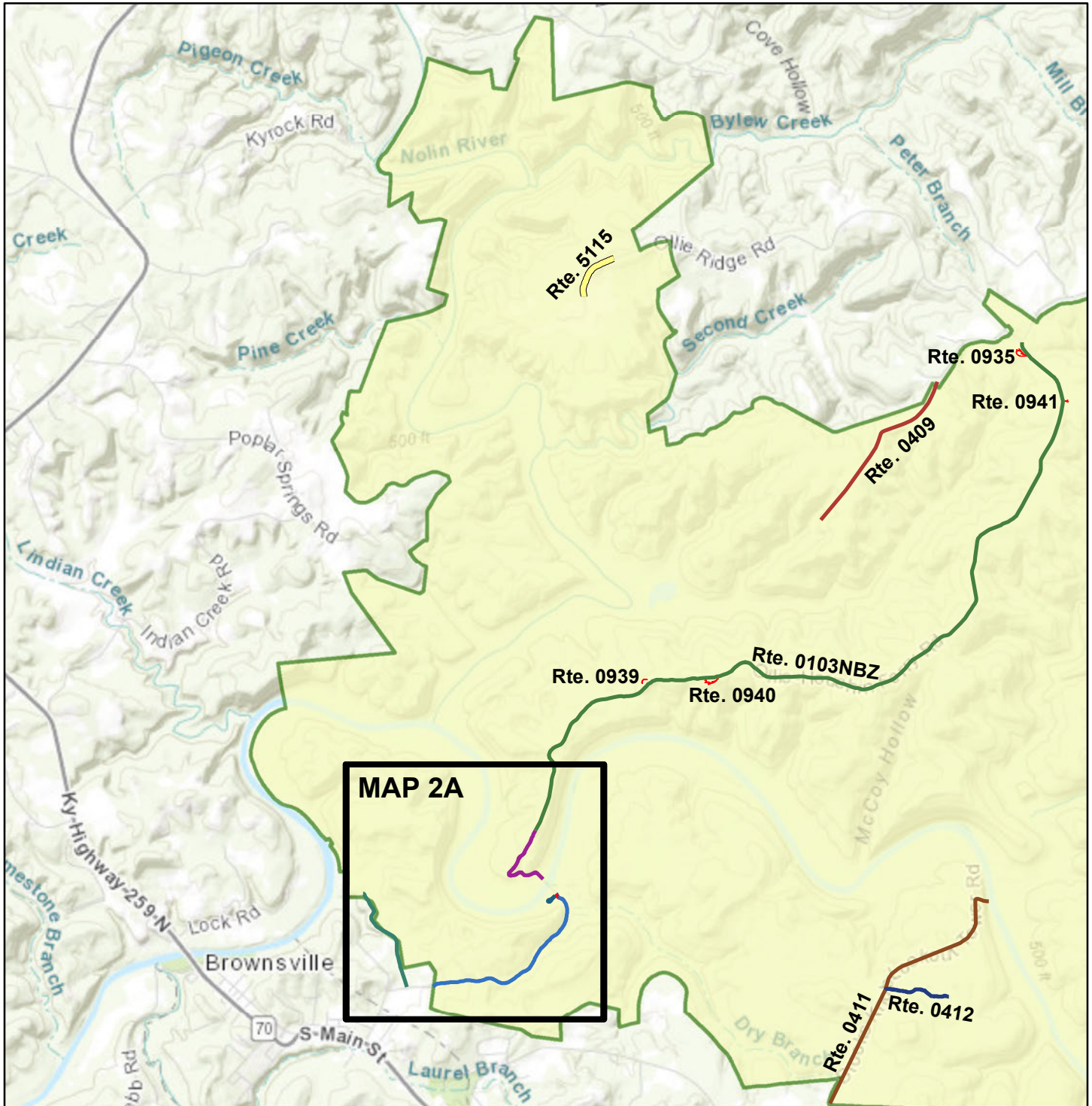
Non-NPS Collected Routes



Mammoth Cave National Park

ROUTE LOCATION MAP

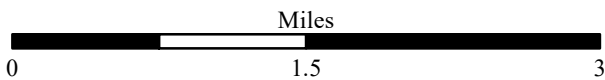
MAP 2



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

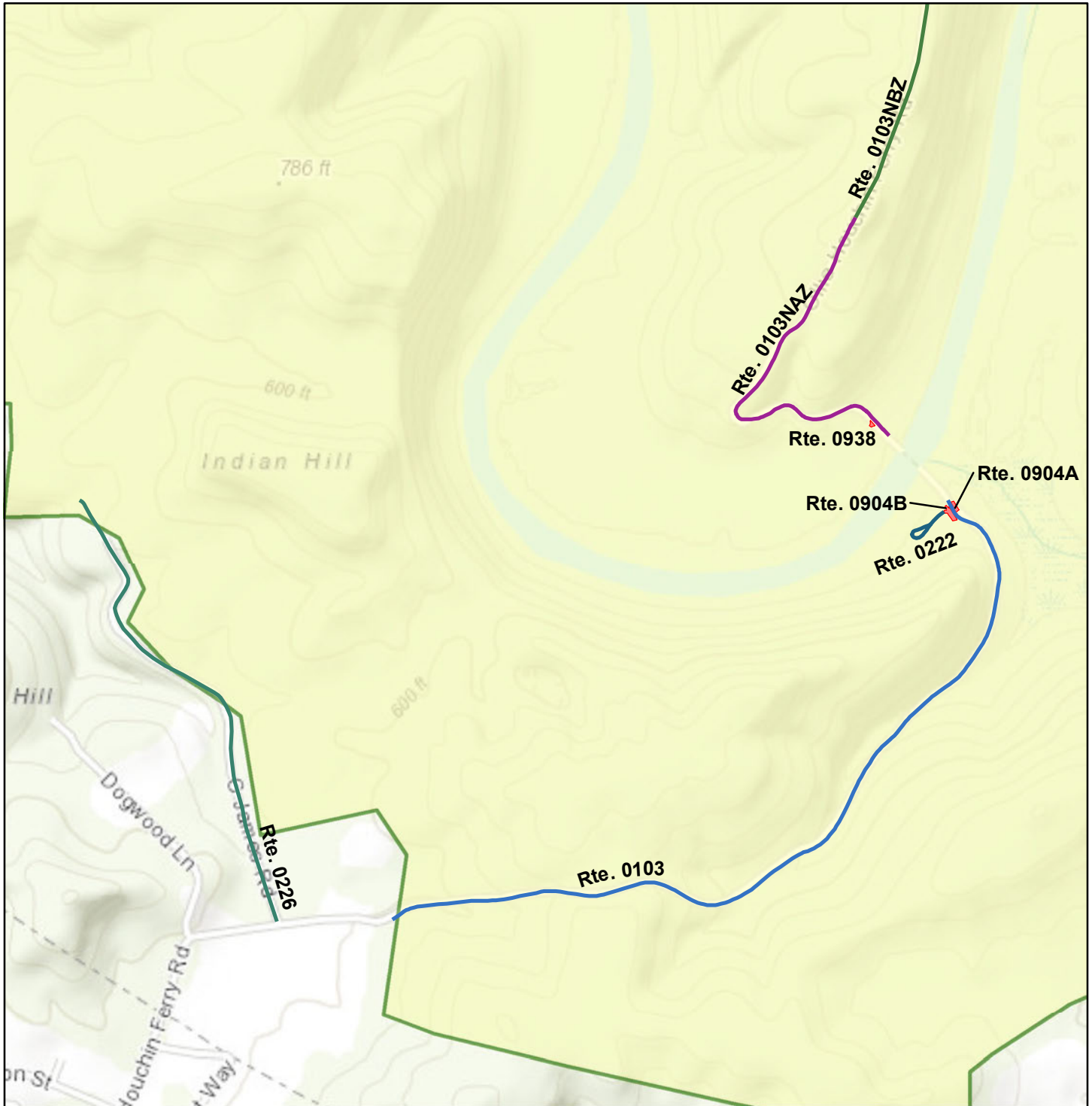
Note: Unique colors are used to differentiate roads

————— Non-NPS Collected Routes



Mammoth Cave National Park

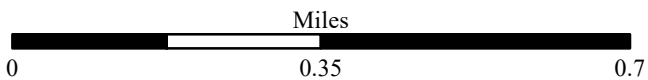
ROUTE LOCATION MAP MAP 2A



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Note: Unique colors are used to differentiate roads

 Non-NPS Collected Routes

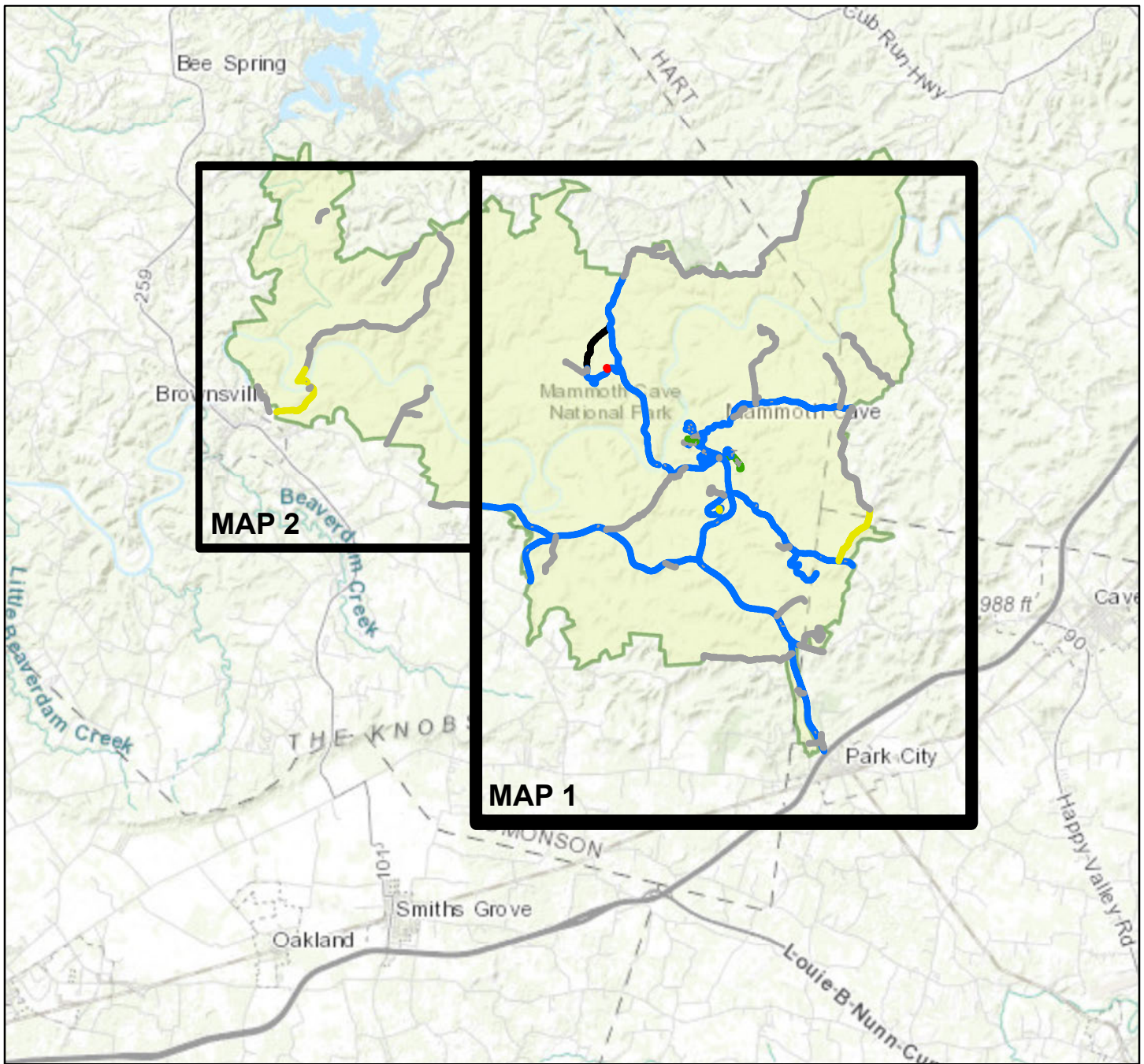


Mammoth Cave National Park

ROUTE CONDITION MAP

PCR - MILE BY MILE

KEY MAP

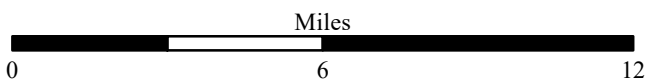


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)



Colors on map represent condition scores at 1-mile intervals. See Appendix for definitions and formulas
 Only Data Collection Vehicle and Manually Rated Roads are displayed

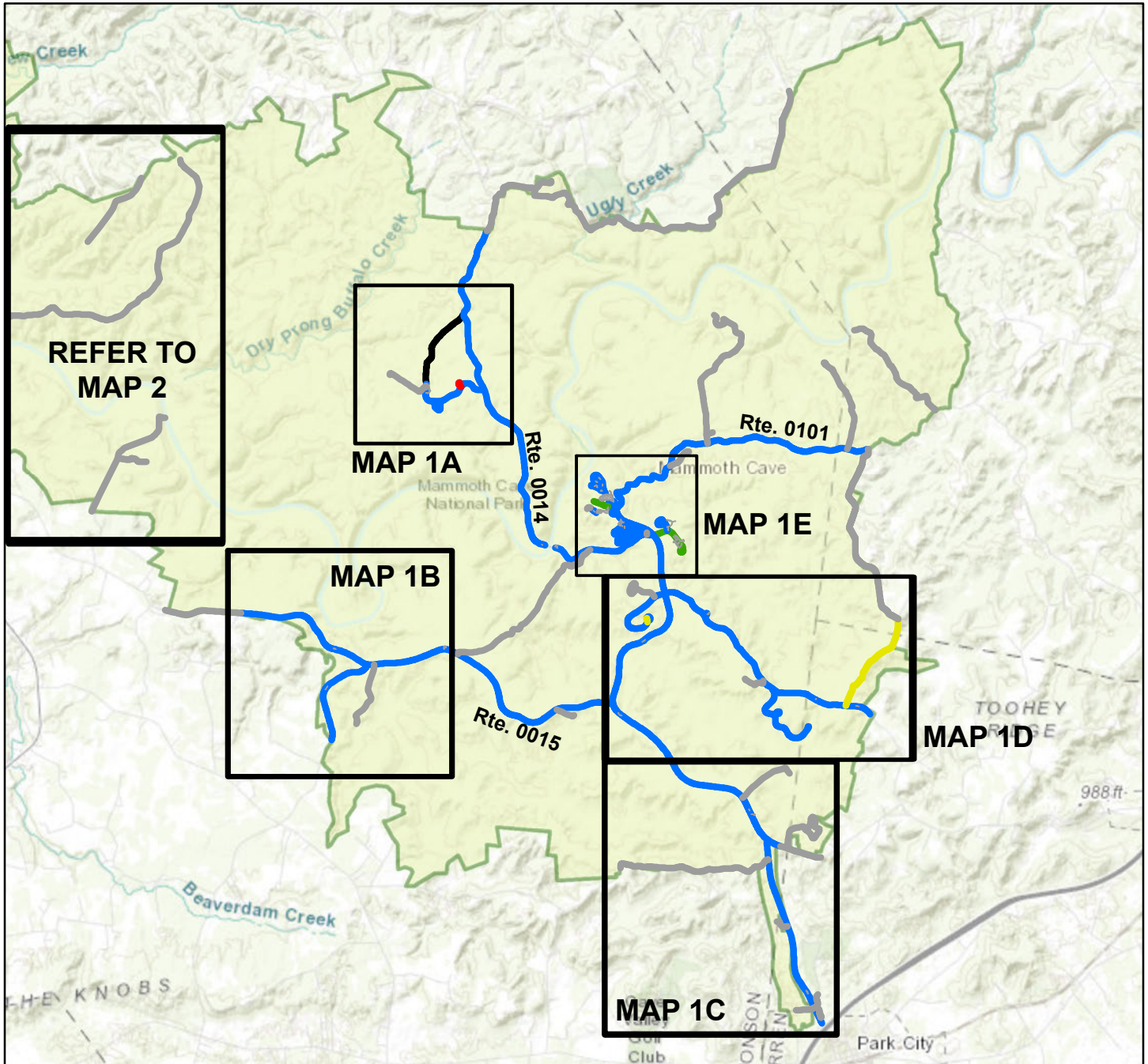


Mammoth Cave National Park

ROUTE CONDITION MAP

PCR - MILE BY MILE

MAP 1

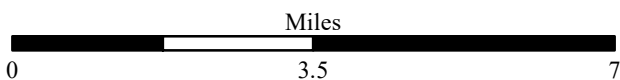


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)



Colors on map represent condition scores at 1-mile intervals. See Appendix for definitions and formulas
 Only Data Collection Vehicle and Manually Rated Roads are displayed

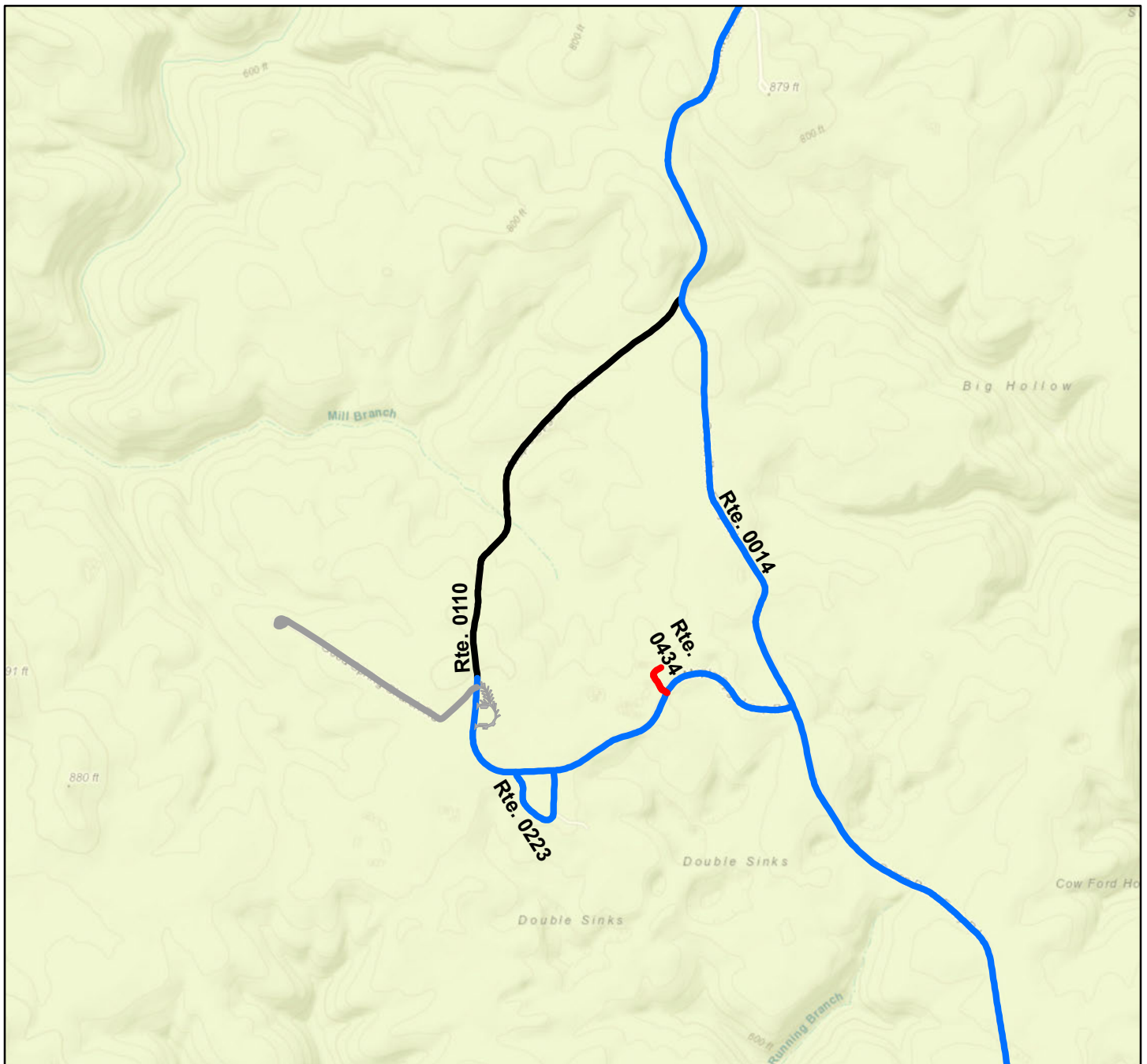


Mammoth Cave National Park

ROUTE CONDITION MAP

PCR - MILE BY MILE

MAP 1A



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

Fair (61- 84)

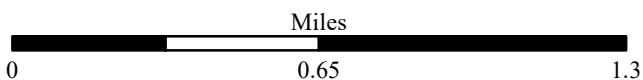
Good (85 - 94)

Excellent (95 - 100)

Not Rated

Colors on map represent condition scores at 1-mile intervals. See Appendix for definitions and formulas

Only Data Collection Vehicle and Manually Rated Roads are displayed

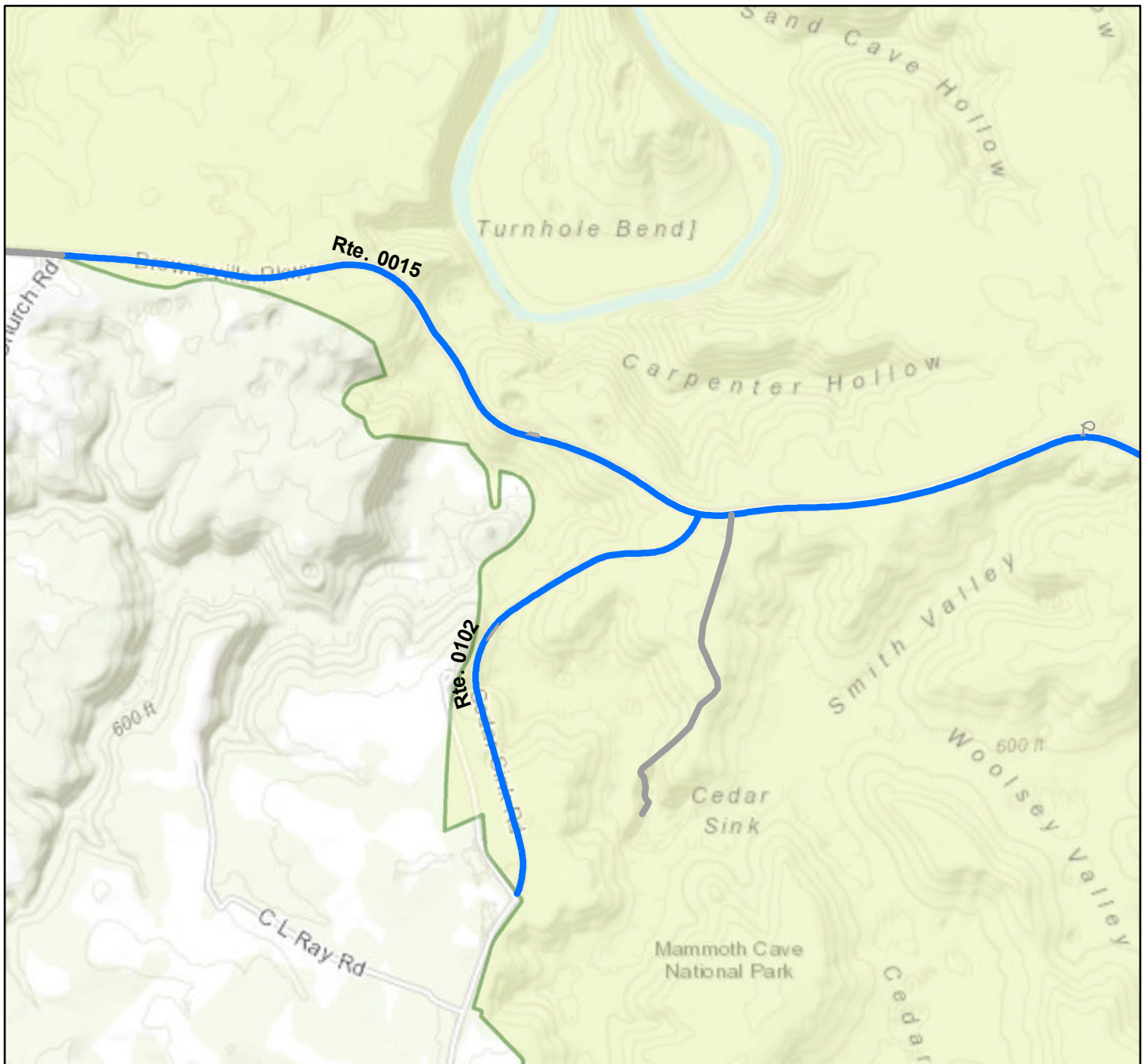


Mammoth Cave National Park

ROUTE CONDITION MAP

PCR - MILE BY MILE

MAP 1B

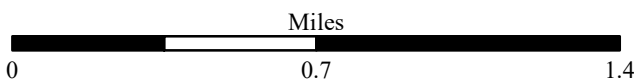


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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Colors on map represent condition scores at 1-mile intervals. See Appendix for definitions and formulas
Only Data Collection Vehicle and Manually Rated Roads are displayed



Mammoth Cave National Park

ROUTE CONDITION MAP

PCR - MILE BY MILE

MAP 1C



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

Fair (61- 84)

Good (85 - 94)

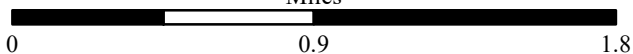
Excellent (95 - 100)

Not Rated

Colors on map represent condition scores at 1-mile intervals. See Appendix for definitions and formulas

Only Data Collection Vehicle and Manually Rated Roads are displayed

Miles

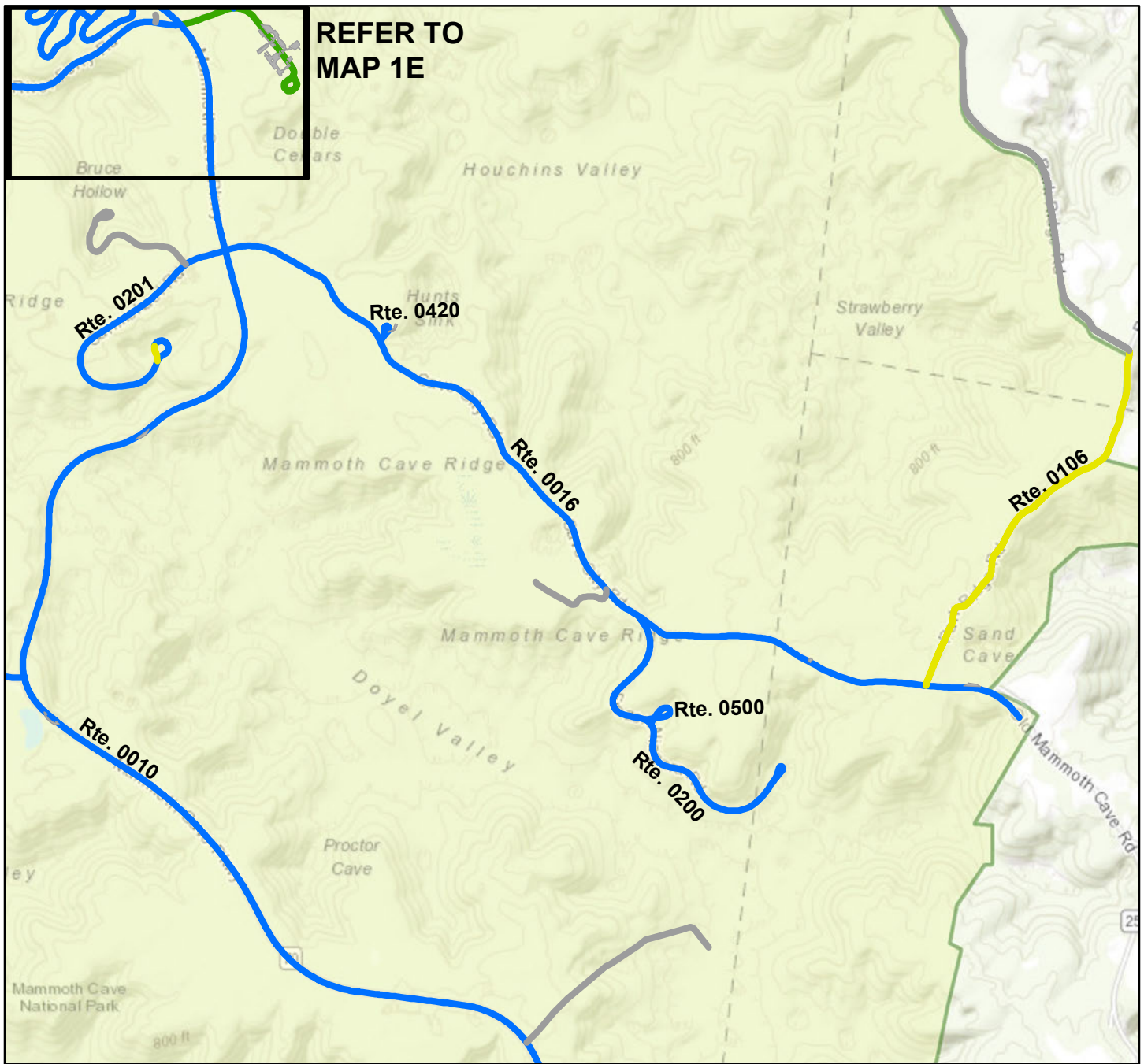


Mammoth Cave National Park

ROUTE CONDITION MAP

PCR - MILE BY MILE

MAP 1D

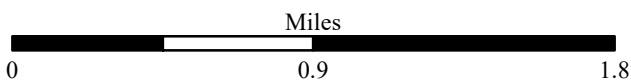


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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Colors on map represent condition scores at 1-mile intervals. See Appendix for definitions and formulas
 Only Data Collection Vehicle and Manually Rated Roads are displayed

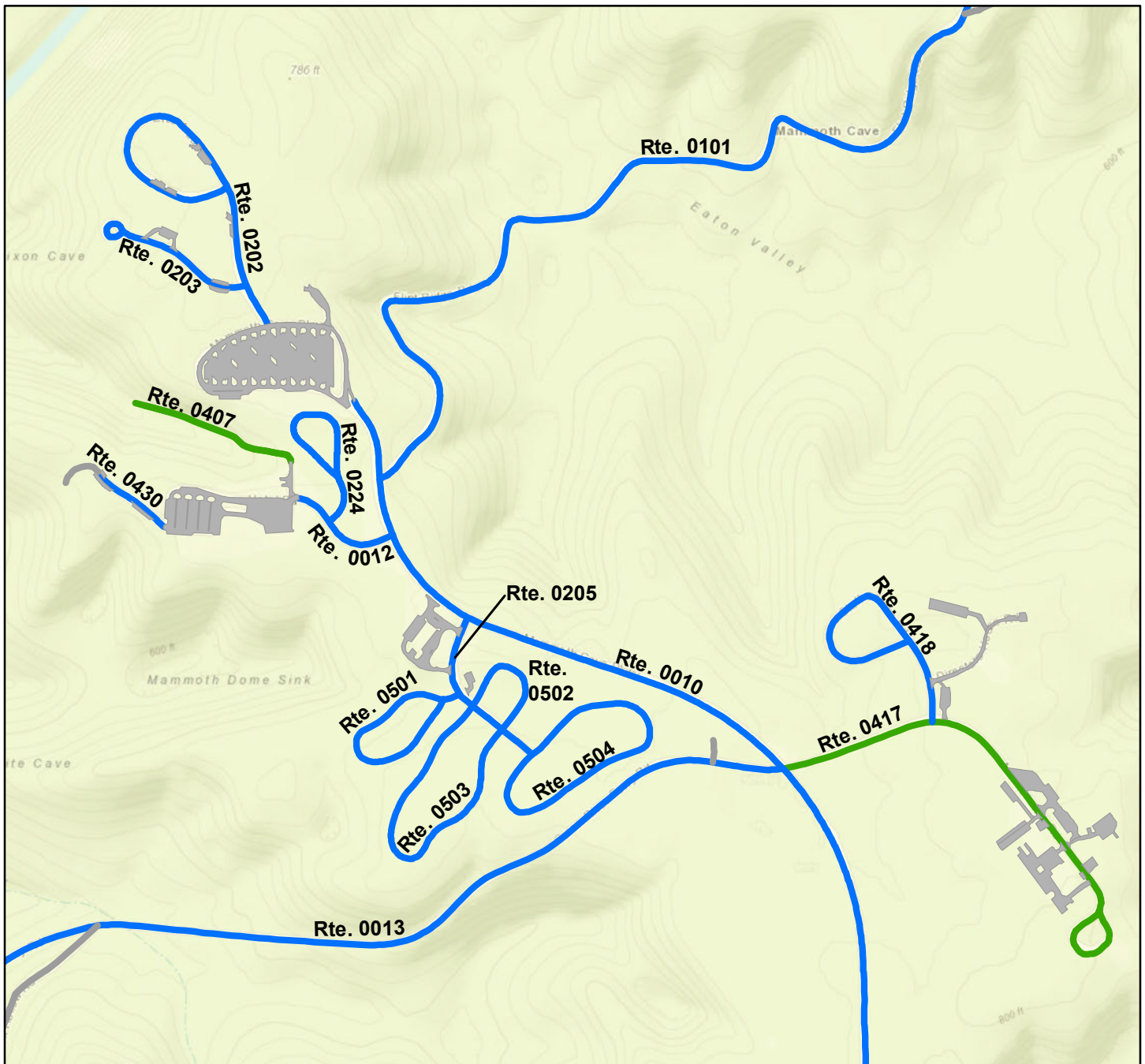


Mammoth Cave National Park

ROUTE CONDITION MAP

PCR - MILE BY MILE

MAP 1E

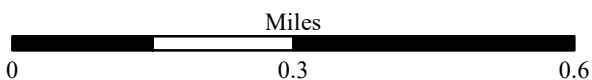


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
---------------	---------------	----------------	----------------------	-----------

Colors on map represent condition scores at 1-mile intervals. See Appendix for definitions and formulas
 Only Data Collection Vehicle and Manually Rated Roads are displayed

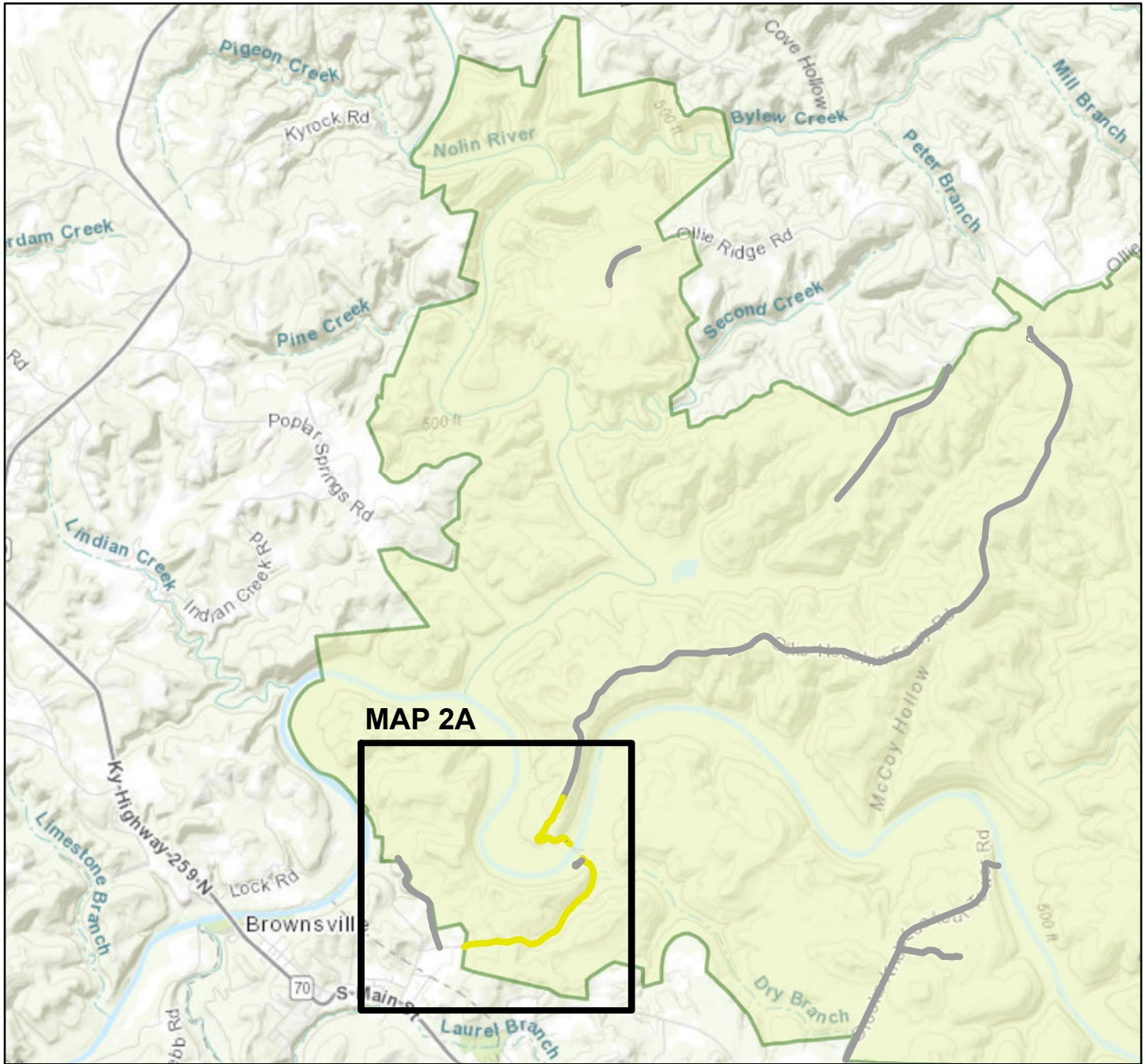


Mammoth Cave National Park

ROUTE CONDITION MAP

PCR - MILE BY MILE

MAP 2

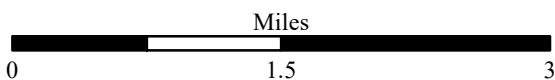


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
---------------	---------------	----------------	----------------------	-----------

Colors on map represent condition scores at 1-mile intervals. See Appendix for definitions and formulas
 Only Data Collection Vehicle and Manually Rated Roads are displayed

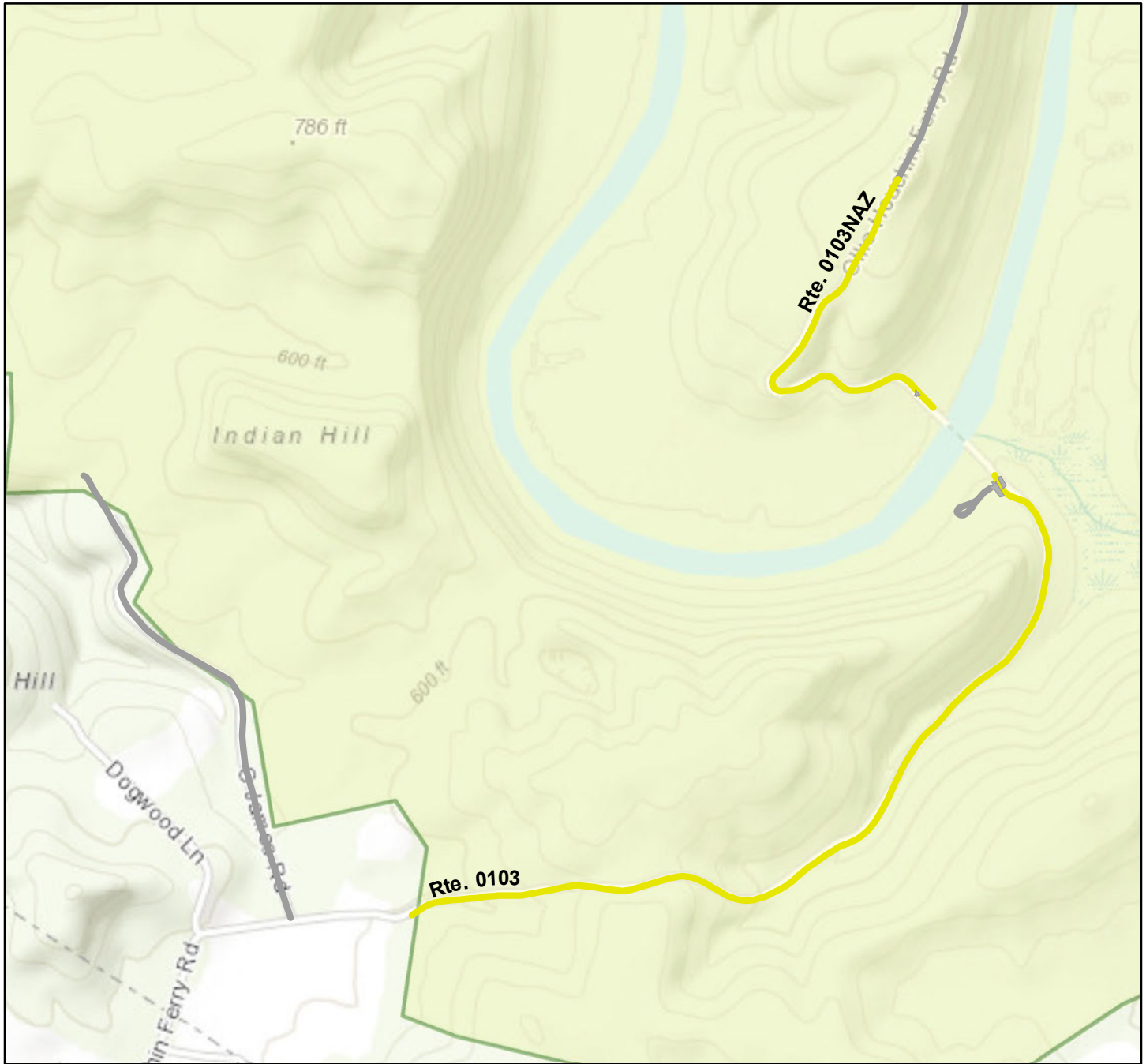


Mammoth Cave National Park

ROUTE CONDITION MAP

PCR - MILE BY MILE

MAP 2A



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

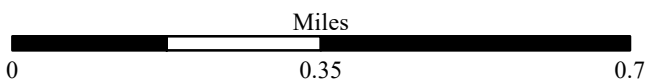
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

Colors on map represent condition scores at 1-mile intervals. See Appendix for definitions and formulas
Only Data Collection Vehicle and Manually Rated Roads are displayed



Section 5 Paved Road Condition Rating Sheets



Mammoth Cave National Park

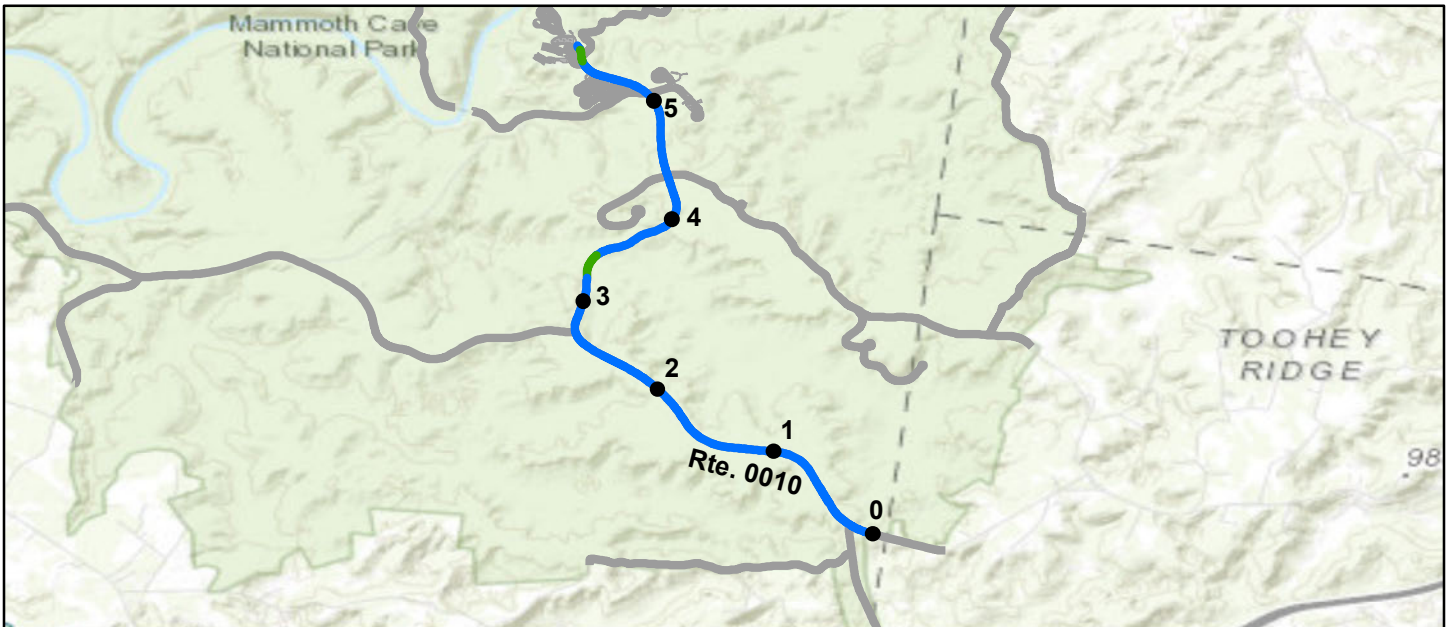


Federal Lands Highway
Road Inventory Program

Mammoth Cave National Park

ROUTE 0010: MAMMOTH CAVE PARKWAY

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.						
Inspection Date: 7/21/2021	Beginning Section MP	0	1	2	3	4
Paved Length (Miles): 5.74	Section Length (MI)	1	1	1	1	1
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	100	100	100	100	100	100
Surface Condition Rating (SCR)	100	100	100	100	100	100
Roughness Condition Index (RCI)	100	100	100	100	100	100
Distress Index Values						
Structural Crack Index	100	100	100	100	100	100
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	100	100	100	100	100	100
Transverse Cracking Index	100	100	100	100	100	100
Patching Index	100	100	100	100	100	100
Rutting Index	100	100	100	100	100	100
International Roughness Index (IRI)	73	61	59	66	95	63
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	23.6	25.8	21.3	25.2	22.5	21.2
Lane Width (ft)	10	10.6	9.5	10.5	9.6	9.3

Mammoth Cave National Park

ROUTE 0010: MAMMOTH CAVE PARKWAY

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.						
Inspection Date: 7/21/2021	Beginning Section MP	5				
Paved Length (Miles): 5.74	Section Length (MI)	0.74				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	100	100				
Surface Condition Rating (SCR)	100	100				
Roughness Condition Index (RCI)	100	100				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	100	100				
International Roughness Index (IRI)	73	101				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	23.6	26.6				
Lane Width (ft)	10	10.8				

Mammoth Cave National Park

ROUTE 0012: HOTEL ENTRANCE ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 7/21/2021	Beginning Section MP	0				
Paved Length (Miles): 0.12	Section Length (MI)	0.12				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	98	98				
Surface Condition Rating (SCR)	98	98				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	98	98				
Alligator Crack Index	100	100				
Longitudinal Crack Index	98	98				
Transverse Cracking Index	99	99				
Patching Index	100	100				
Rutting Index	100	100				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	20.2	20.2				
Lane Width (ft)	8.8	8.8				

Mammoth Cave National Park

ROUTE 0013: GREEN RIVER FERRY ROAD SOUTH

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.						
Inspection Date: 7/21/2021	Beginning Section MP	0	1			
Paved Length (Miles): 1.31	Section Length (MI)	1	0.31			
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	100	99	99			
Surface Condition Rating (SCR)	100	99	99			
Roughness Condition Index (RCI)	100	100	100			
Distress Index Values						
Structural Crack Index	100	100	100			
Alligator Crack Index	100	100	100			
Longitudinal Crack Index	100	100	100			
Transverse Cracking Index	100	100	100			
Patching Index	100	100	100			
Rutting Index	100	99	99			
International Roughness Index (IRI)	91	88	103			
Lane & Width Information						
Number of Lanes	2	2	2			
Paved Width (ft)	21.3	21	22.6			
Lane Width (ft)	9	8.9	9.3			

Mammoth Cave National Park

ROUTE 0014: GREEN RIVER FERRY ROAD NORTH

Data Collection Vehicle (DCV) Rating



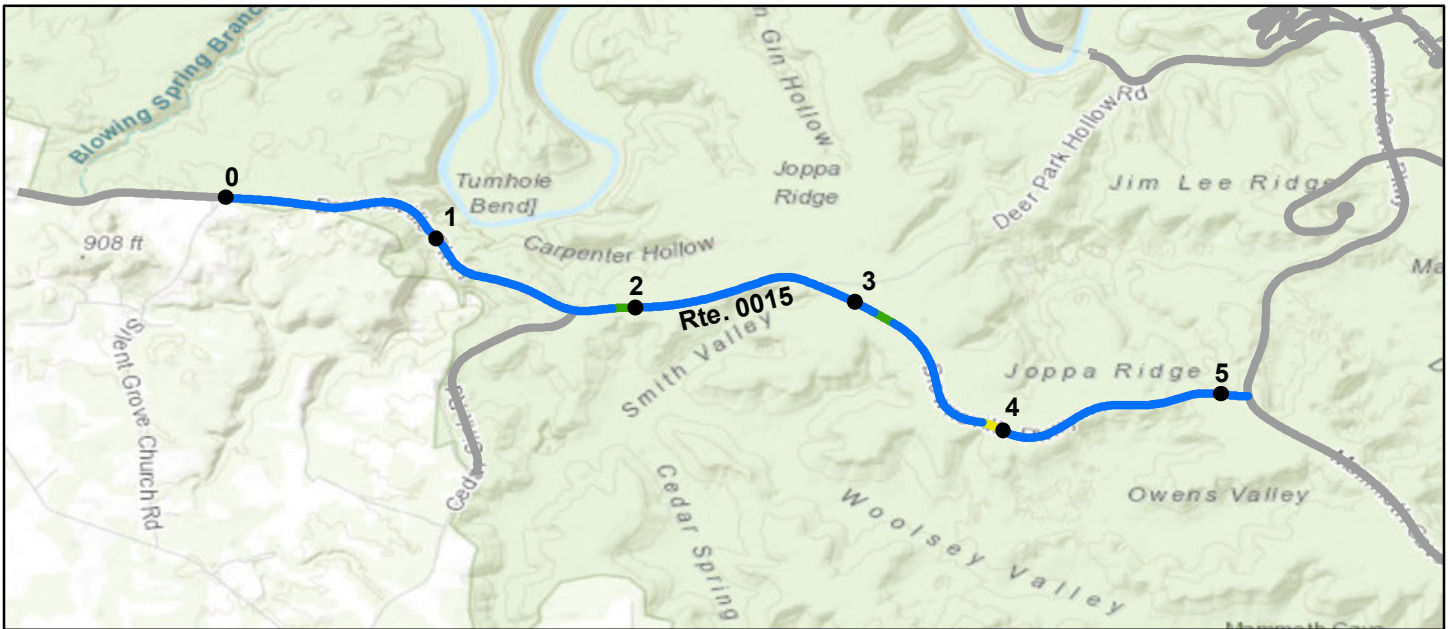
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.						
Inspection Date: 7/21/2021	Beginning Section MP	0	1	2	3	4
Paved Length (Miles): 4.18	Section Length (MI)	1	1	1	1	0.18
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	100	100	99	99	99	99
Surface Condition Rating (SCR)	100	100	100	99	99	100
Roughness Condition Index (RCI)	100	100	97	100	100	98
Distress Index Values						
Structural Crack Index	100	100	100	100	100	100
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	100	100	100	100	100	100
Transverse Cracking Index	100	100	100	100	100	100
Patching Index	100	100	100	100	100	100
Rutting Index	100	100	100	99	99	100
International Roughness Index (IRI)	106	104	122	98	98	121
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	18.2	18	18.2	18.2	18.4	19.4
Lane Width (ft)	8.1	8.1	8	8.1	8.3	8.2

Mammoth Cave National Park

ROUTE 0015: BROWNSVILLE ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

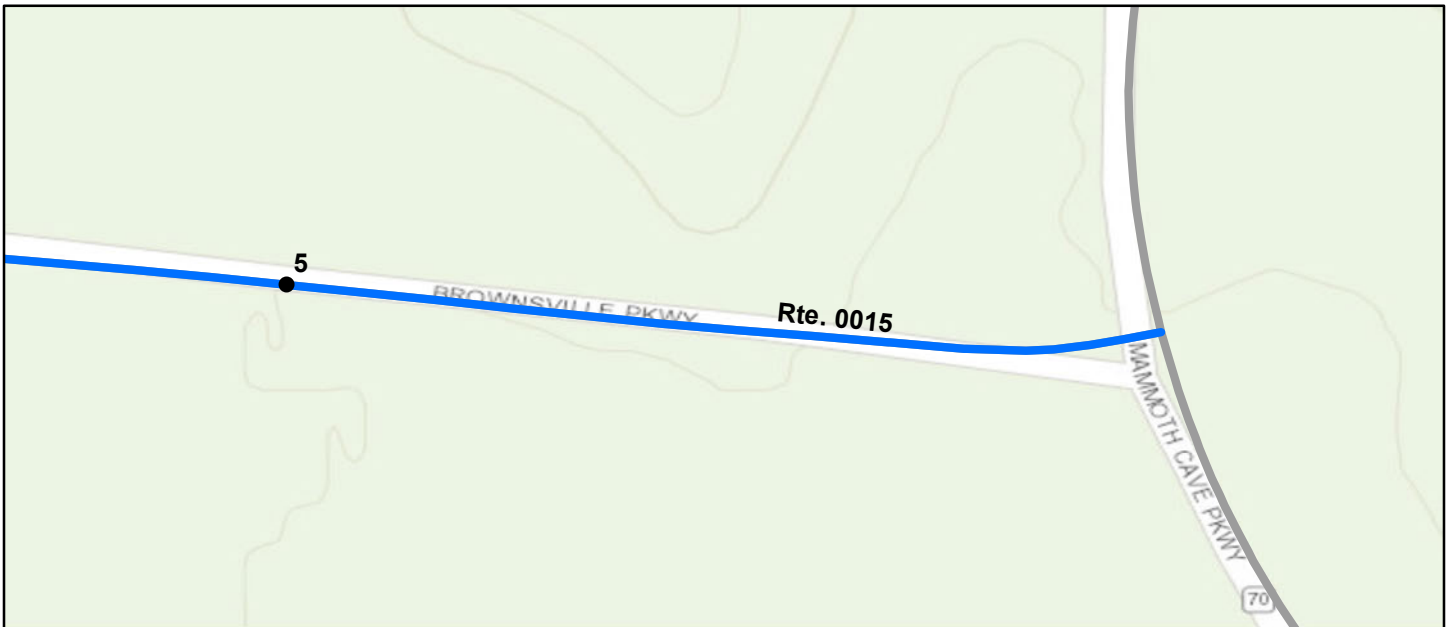
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date:	7/21/2021	Beginning Section MP	0	1	2	3	4
Paved Length (Miles):	5.1	Section Length (MI)	1	1	1	1	1
Surface Type:	ASPHALT	Route Summary					
Roadway Condition Information							
Pavement Condition Rating (PCR)	98	99	98	99	95	98	
Surface Condition Rating (SCR)	97	98	97	98	92	97	
Roughness Condition Index (RCI)	100	100	100	100	100	100	
Distress Index Values							
Structural Crack Index	97	98	97	98	92	97	
Alligator Crack Index	100	100	100	100	100	100	
Longitudinal Crack Index	97	98	97	98	92	97	
Transverse Cracking Index	100	100	100	99	100	100	
Patching Index	100	99	100	100	100	99	
Rutting Index	100	100	100	100	100	100	
International Roughness Index (IRI)	78	84	77	73	75	80	
Lane & Width Information							
Number of Lanes	2	2	2	2	2	2	
Paved Width (ft)	21.1	20.9	21.2	21	20.9	21.3	
Lane Width (ft)	9.3	9.1	9.3	9.2	9.3	9.3	

Mammoth Cave National Park

ROUTE 0015: BROWNSVILLE ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

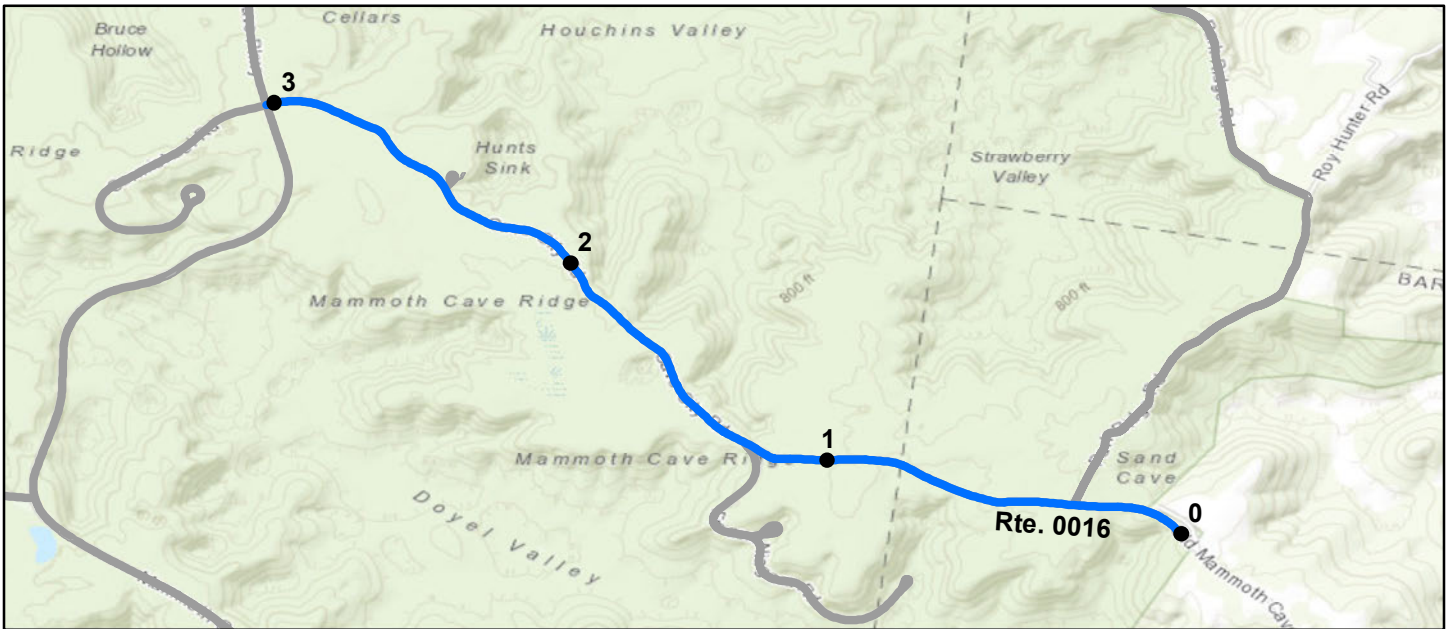
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 7/21/2021	Beginning Section MP	5				
Paved Length (Miles): 5.1	Section Length (MI)	0.1				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	98	98				
Surface Condition Rating (SCR)	97	97				
Roughness Condition Index (RCI)	100	100				
Distress Index Values						
Structural Crack Index	97	97				
Alligator Crack Index	100	100				
Longitudinal Crack Index	97	97				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	100	100				
International Roughness Index (IRI)	78	94				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	21.1	27.2				
Lane Width (ft)	9.3	11.3				

Mammoth Cave National Park

ROUTE 0016: CAVE CITY ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

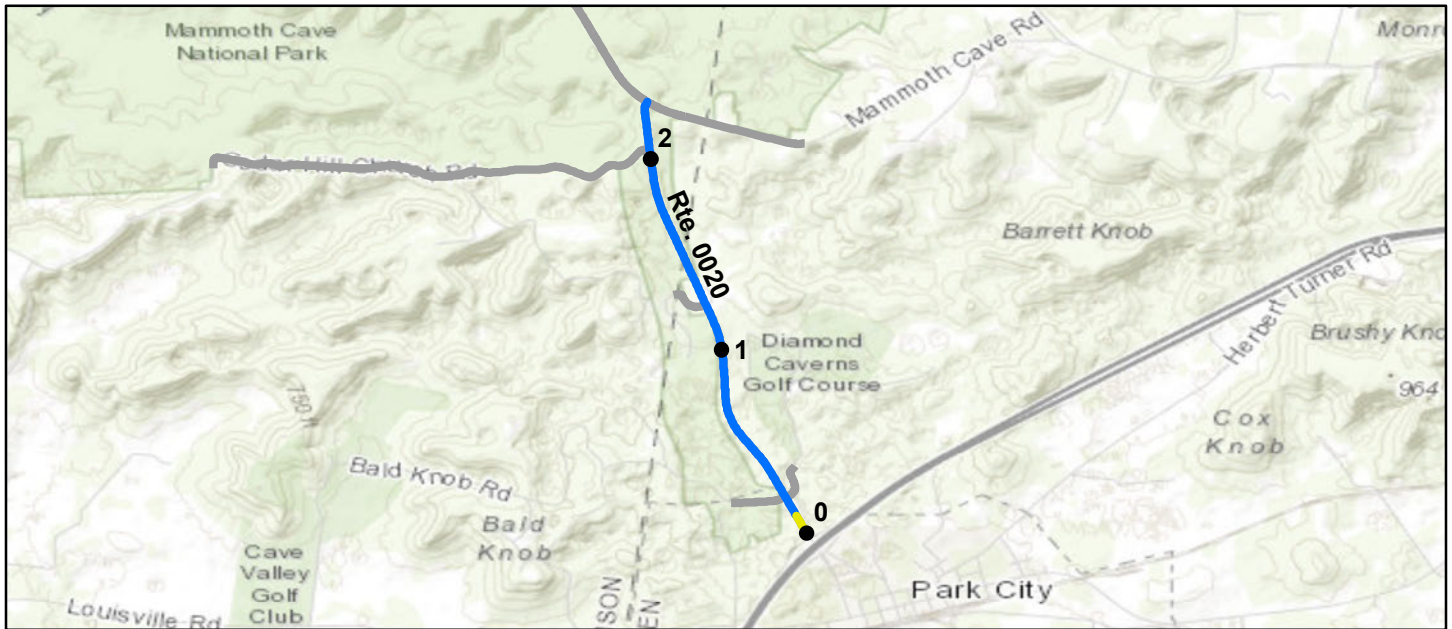
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date:	7/21/2021	Beginning Section MP	0	1	2	3	
Paved Length (Miles):	3.02	Section Length (MI)	1	1	1	0.02	
Surface Type:	ASPHALT	Route Summary					
Roadway Condition Information							
Pavement Condition Rating (PCR)	100	100	100	100	100	100	
Surface Condition Rating (SCR)	100	100	100	100	100	100	
Roughness Condition Index (RCI)	100	100	100	100	100	N/A	
Distress Index Values							
Structural Crack Index	100	100	100	100	100	100	
Alligator Crack Index	100	100	100	100	100	100	
Longitudinal Crack Index	100	100	100	100	100	100	
Transverse Cracking Index	100	100	100	100	100	100	
Patching Index	100	100	100	100	100	100	
Rutting Index	100	100	100	100	100	100	
International Roughness Index (IRI)	91	104	77	90	N/A		
Lane & Width Information							
Number of Lanes	2	2	2	2	2		
Paved Width (ft)	20.5	20.3	20.6	20.7	21.5		
Lane Width (ft)	8.9	8.9	8.9	8.9	8.8		

Mammoth Cave National Park

ROUTE 0020: MAMMOTH CAVE PARKWAY (PARK CITY ROAD)

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 7/21/2021	Beginning Section MP	0	1	2		
Paved Length (Miles): 2.28	Section Length (MI)	1	1	0.28		
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	98	100	100		
Surface Condition Rating (SCR)	99	97	100	100		
Roughness Condition Index (RCI)	100	100	100	100		
Distress Index Values						
Structural Crack Index	99	97	100	100		
Alligator Crack Index	100	100	100	100		
Longitudinal Crack Index	99	97	100	100		
Transverse Cracking Index	100	100	100	100		
Patching Index	100	100	100	100		
Rutting Index	100	100	100	100		
International Roughness Index (IRI)	67	69	62	80		
Lane & Width Information						
Number of Lanes	2	2	2	2		
Paved Width (ft)	24.7	24	25.1	26.3		
Lane Width (ft)	10.3	10.2	10.3	10.6		

Mammoth Cave National Park

ROUTE 0101: FLINT RIDGE ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

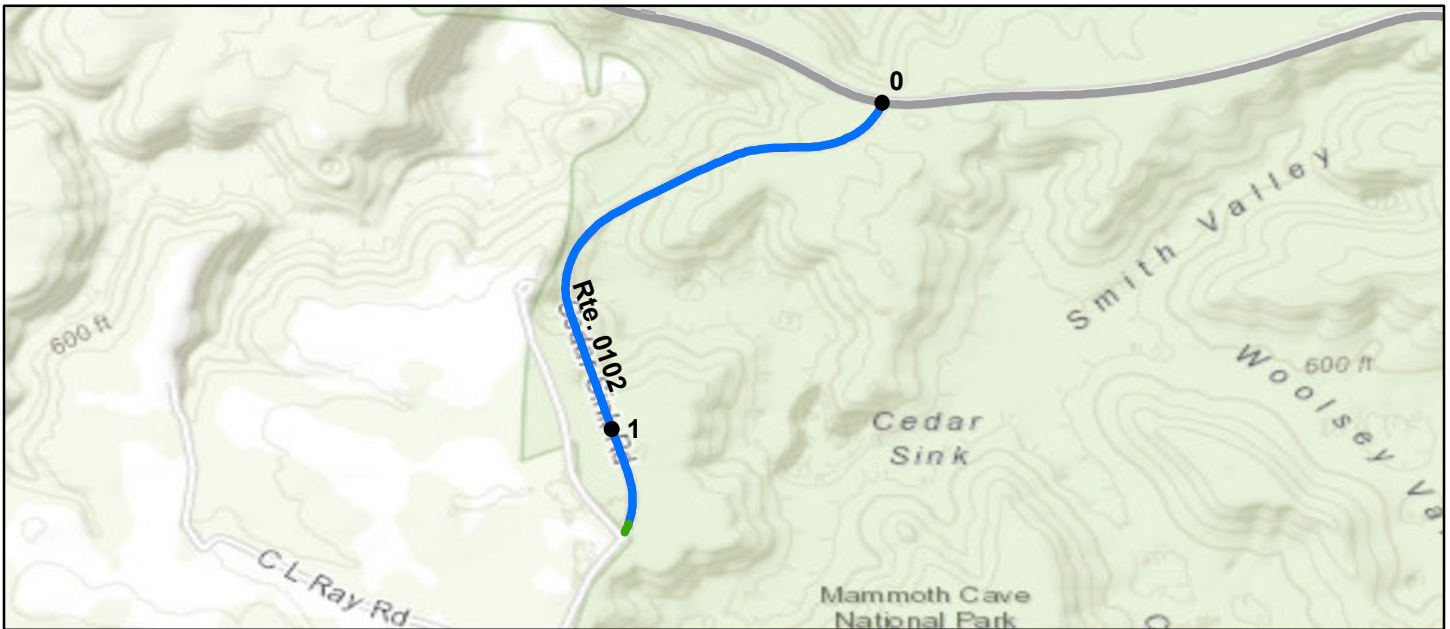
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date:	7/21/2021	Beginning Section MP	0	1	2	3	
	Paved Length (Miles):		3.63	Section Length (MI)	1	1	1
Surface Type:		ASPHALT	Route Summary				
	Roadway Condition Information						
Pavement Condition Rating (PCR)	100	100	100	100	100	100	
Surface Condition Rating (SCR)	100	100	100	100	100	100	
Roughness Condition Index (RCI)	N/A	N/A	N/A	N/A	N/A	N/A	
Distress Index Values							
Structural Crack Index	100	100	100	100	100	100	
Alligator Crack Index	100	100	100	100	100	100	
Longitudinal Crack Index	100	100	100	100	100	100	
Transverse Cracking Index	100	100	100	100	100	100	
Patching Index	100	100	100	100	100	100	
Rutting Index	100	100	100	100	100	100	
International Roughness Index (IRI)	N/A	N/A	N/A	N/A	N/A	N/A	
Lane & Width Information							
Number of Lanes	2	2	2	2	2	2	
Paved Width (ft)	17.8	18.9	18.5	17.7	15.1		
Lane Width (ft)	8.4	8.9	8.5	8.2	7.5		

Mammoth Cave National Park

ROUTE 0102: CEDAR SINK ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

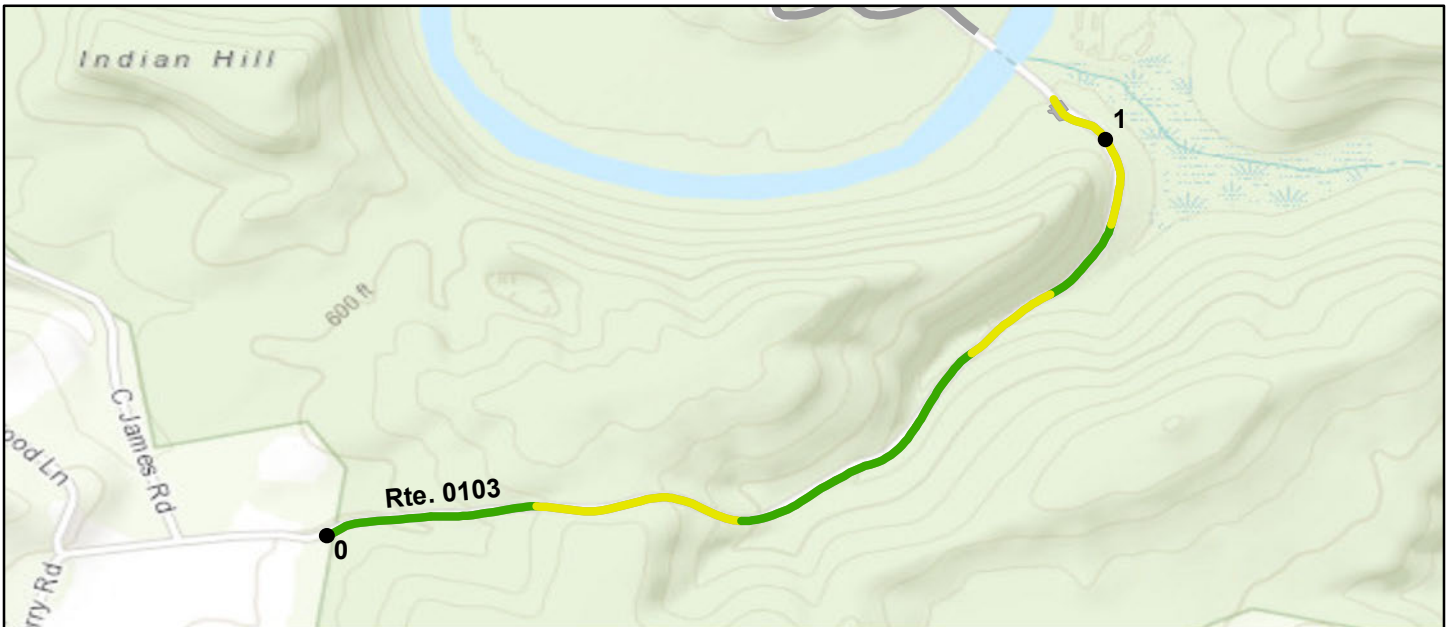
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 7/21/2021		Beginning Section MP	0	1			
Paved Length (Miles): 1.22		Section Length (MI)	1	0.22			
Surface Type: ASPHALT		Route Summary					
Roadway Condition Information							
Pavement Condition Rating (PCR)		100	100	100			
Surface Condition Rating (SCR)		100	100	100			
Roughness Condition Index (RCI)		100	100	100			
Distress Index Values							
Structural Crack Index		100	100	100			
Alligator Crack Index		100	100	100			
Longitudinal Crack Index		100	100	100			
Transverse Cracking Index		100	100	100			
Patching Index		100	100	100			
Rutting Index		100	100	100			
International Roughness Index (IRI)		78	75	88			
Lane & Width Information							
Number of Lanes		2	2	2			
Paved Width (ft)		20.2	20.3	19.8			
Lane Width (ft)		9	9	9			

Mammoth Cave National Park

ROUTE 0103: HOUCHINS FERRY ROAD SOUTH

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.						
Inspection Date: 7/21/2021	Beginning Section MP	0	1			
Paved Length (Miles): 1.07	Section Length (MI)	1	0.07			
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	82	83	82			
Surface Condition Rating (SCR)	94	94	82			
Roughness Condition Index (RCI)	65	67	N/A			
Distress Index Values						
Structural Crack Index	94	94	82			
Alligator Crack Index	99	98	100			
Longitudinal Crack Index	95	96	82			
Transverse Cracking Index	99	99	98			
Patching Index	100	100	100			
Rutting Index	98	98	98			
International Roughness Index (IRI)	221	214	N/A			
Lane & Width Information						
Number of Lanes	2	2	2			
Paved Width (ft)	18.1	18.2	17.9			
Lane Width (ft)	7.9	7.9	8.1			

Mammoth Cave National Park

ROUTE 0103NAZ: HOUCHINS FERRY ROAD NORTH PAVED

Subcomponent of Route MACA-0103NZZ
Manual Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date: 6/14/2021	Beginning Section MP	0.00				
Paved Length (Miles): 0.50	Section Length (MI)	0.50				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	81	81				
Surface Condition Rating (SCR)	81	81				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	81	81				
Alligator Crack Index	90	90				
Longitudinal Crack Index	91	91				
Transverse Cracking Index	97	97				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	16	16				
Lane Width (ft)	8	8				

Mammoth Cave National Park

ROUTE 0103NAZ: HOUCHINS FERRY ROAD NORTH PAVED

Condition Photos

Condition photos are shown only for manually rated roads. Use the PathView program to see images of DCV rated roads.



MACA_0103NAZ_1.jpg



MACA_0103NAZ_14.jpg



MACA_0103NAZ_16.jpg



MACA_0103NAZ_5.jpg



MACA_0103NAZ_8.jpg

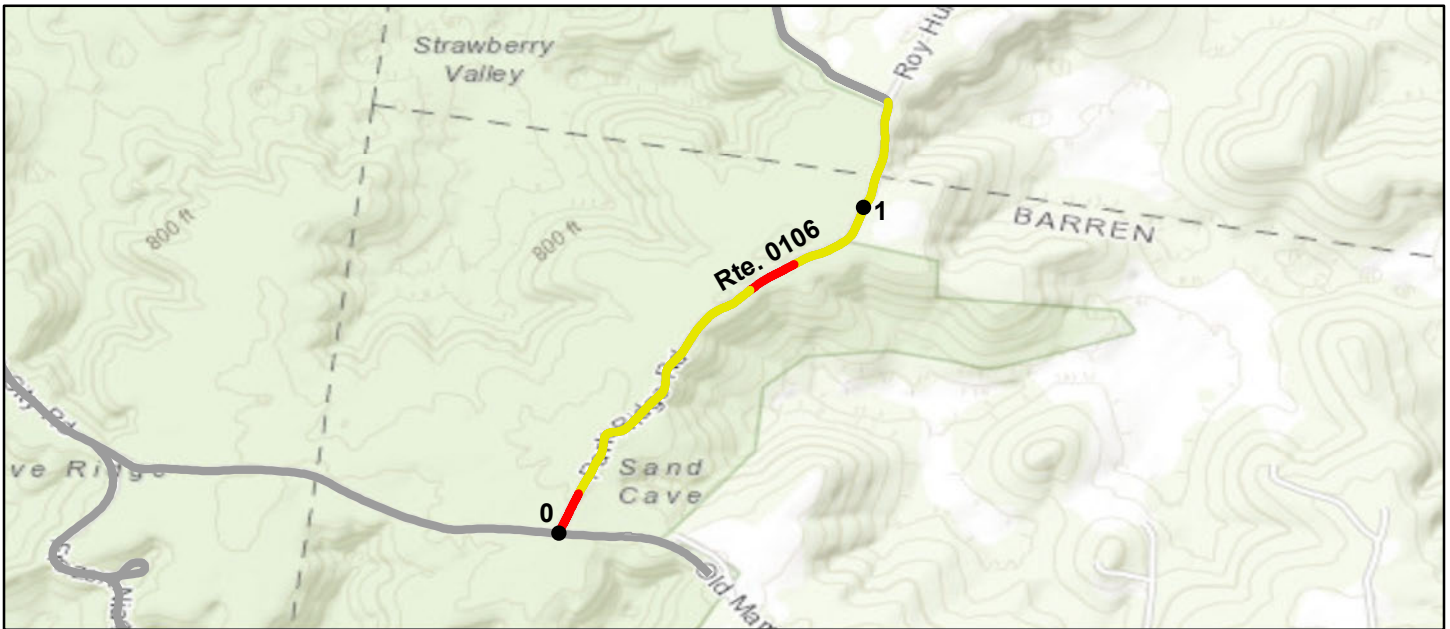


MACA_0103NAZ_9.jpg

Mammoth Cave National Park

ROUTE 0106: PARK RIDGE ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date:	7/21/2021	Beginning Section MP	0	1			
Paved Length (Miles):	1.26	Section Length (MI)	1	0.26			
Surface Type:	ASPHALT	Route Summary					
Roadway Condition Information							
Pavement Condition Rating (PCR)	70	67	79				
Surface Condition Rating (SCR)	67	63	77				
Roughness Condition Index (RCI)	74	73	83				
Distress Index Values							
Structural Crack Index	67	63	77				
Alligator Crack Index	90	88	94				
Longitudinal Crack Index	77	75	83				
Transverse Cracking Index	97	97	93				
Patching Index	100	100	100				
Rutting Index	99	98	98				
International Roughness Index (IRI)	187	193	161				
Lane & Width Information							
Number of Lanes	2	2	2				
Paved Width (ft)	15.3	15.7	13.5				
Lane Width (ft)	7.6	7.9	6.8				

Mammoth Cave National Park

ROUTE 0110: MAPLE SPRINGS LOOP

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

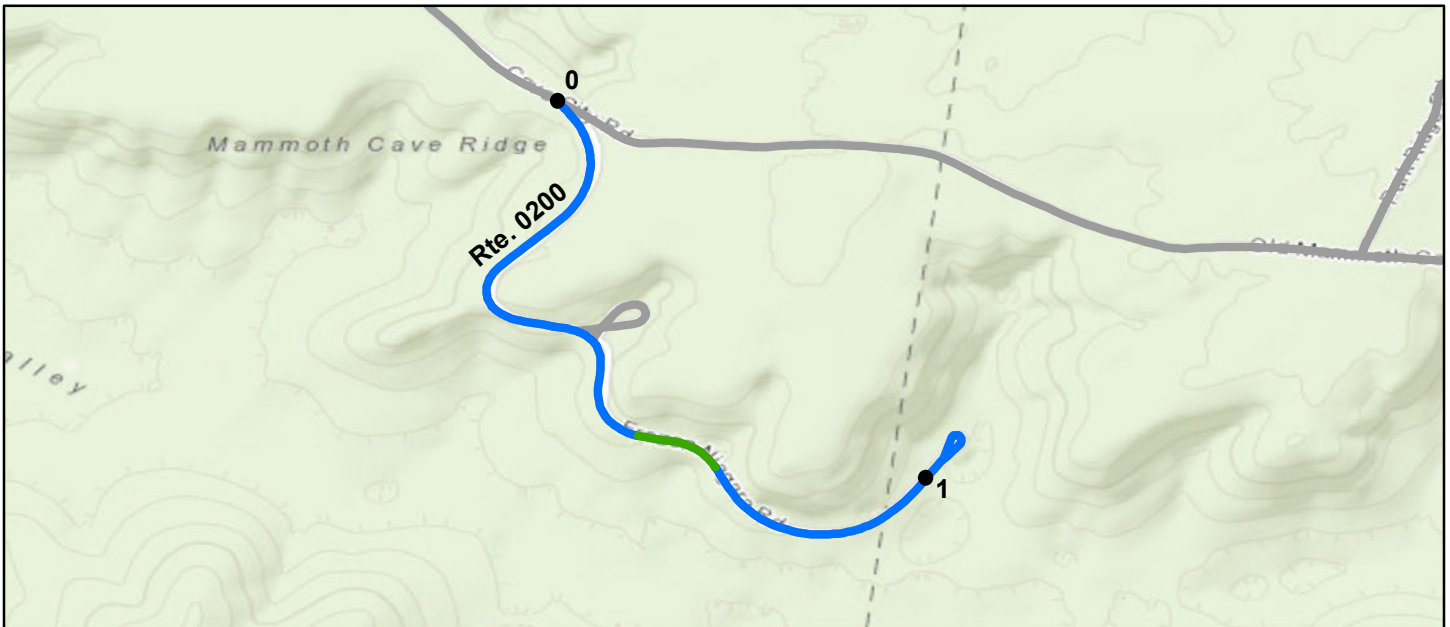
Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.						
Inspection Date: 7/21/2021	Beginning Section MP	0	1			
Paved Length (Miles): 1.96	Section Length (MI)	1	0.96			
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	100	N/A	100			
Surface Condition Rating (SCR)	100	N/A	100			
Roughness Condition Index (RCI)	N/A	N/A	100			
Distress Index Values						
Structural Crack Index	100	N/A	100			
Alligator Crack Index	100	N/A	100			
Longitudinal Crack Index	100	N/A	100			
Transverse Cracking Index	100	N/A	100			
Patching Index	100	N/A	100			
Rutting Index	100	N/A	100			
International Roughness Index (IRI)	N/A	N/A	102			
Lane & Width Information						
Number of Lanes	1	1	2			
Paved Width (ft)	15.7	9.2	22.6			
Lane Width (ft)	9.3	9.2	9.3			

NOTE: ROUTE PARTIALLY COLLECTED FROM MP 1.02 TO END DUE TO BEGINNING OF ROUTE CLOSED OFF FOR CONSTRUCTION.

Mammoth Cave National Park

ROUTE 0200: FROZEN NIAGARA ENTRANCE ROAD

Data Collection Vehicle (DCV) Rating



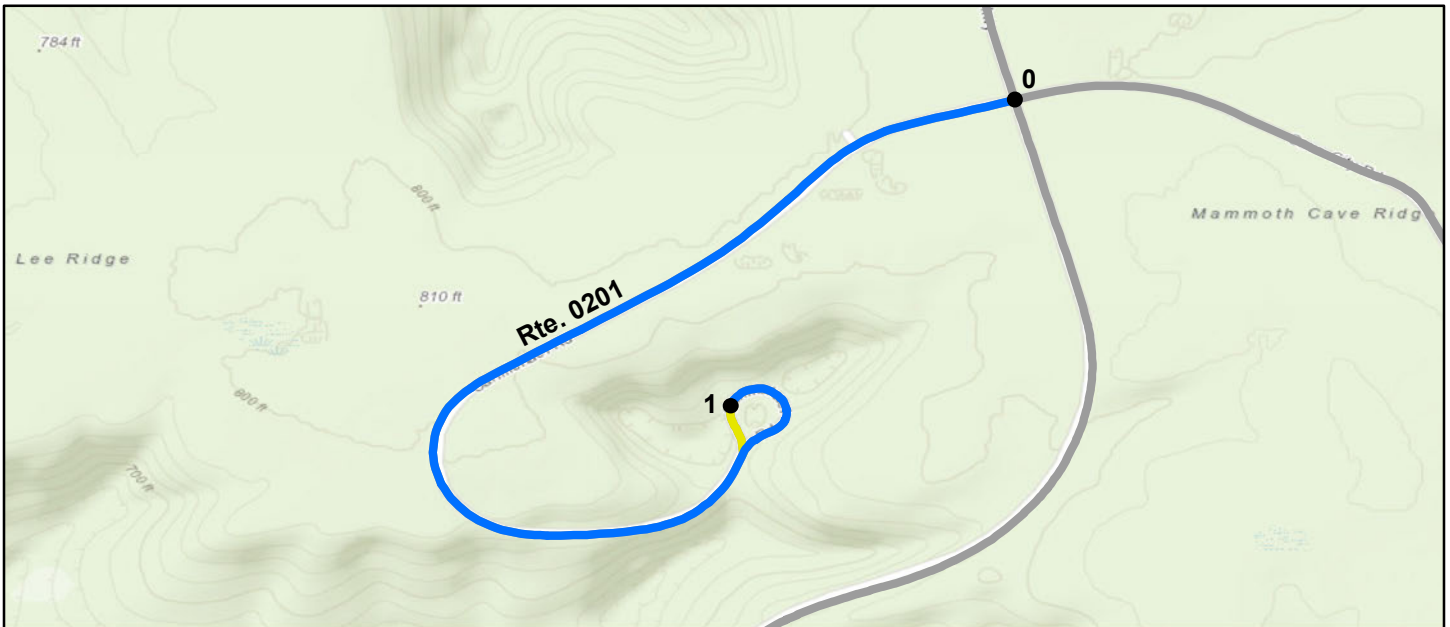
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.						
Inspection Date: 7/21/2021	Beginning Section MP	0	1			
Paved Length (Miles): 1.1	Section Length (MI)	1	0.1			
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	100	100	98			
Surface Condition Rating (SCR)	100	100	98			
Roughness Condition Index (RCI)	100	100	N/A			
Distress Index Values						
Structural Crack Index	100	100	98			
Alligator Crack Index	100	100	100			
Longitudinal Crack Index	100	100	98			
Transverse Cracking Index	100	100	100			
Patching Index	100	100	100			
Rutting Index	100	100	99			
International Roughness Index (IRI)	109	104	N/A			
Lane & Width Information						
Number of Lanes	2	2	1			
Paved Width (ft)	20.1	20.4	17.8			
Lane Width (ft)	9.2	8.8	13.2			

Mammoth Cave National Park

ROUTE 0201: CARMICHAEL ENTRANCE ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.						
Inspection Date: 7/21/2021	Beginning Section MP	0	1			
Paved Length (Miles): 1.04	Section Length (MI)	1	0.04			
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	100	100	83			
Surface Condition Rating (SCR)	100	100	95			
Roughness Condition Index (RCI)	100	100	65			
Distress Index Values						
Structural Crack Index	100	100	100			
Alligator Crack Index	100	100	100			
Longitudinal Crack Index	100	100	100			
Transverse Cracking Index	100	100	100			
Patching Index	100	100	100			
Rutting Index	100	100	95			
International Roughness Index (IRI)	87	81	219			
Lane & Width Information						
Number of Lanes	2	2	1			
Paved Width (ft)	19.5	19.6	17.6			
Lane Width (ft)	10	9.7	17.6			

Mammoth Cave National Park

ROUTE 0202: VISITOR CENTER PICNIC GROUNDS ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.						
Inspection Date: 7/21/2021	Beginning Section MP	0				
Paved Length (Miles): 0.45	Section Length (MI)	0.45				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	100	100				
Surface Condition Rating (SCR)	100	100				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	100	100				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	14.6	14.6				
Lane Width (ft)	11.3	11.3				

Mammoth Cave National Park

ROUTE 0203: VISITOR CENTER PICNIC SHELTER ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.						
Inspection Date: 7/21/2021	Beginning Section MP	0				
Paved Length (Miles): 0.19	Section Length (MI)	0.19				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	99				
Surface Condition Rating (SCR)	99	99				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	17.4	17.4				
Lane Width (ft)	10.8	10.8				

Mammoth Cave National Park

ROUTE 0205: HQ CAMPGROUND ACCESS ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.						
Inspection Date: 7/21/2021	Beginning Section MP	0				
Paved Length (Miles): 0.18	Section Length (MI)	0.18				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	99				
Surface Condition Rating (SCR)	99	99				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	25	25				
Lane Width (ft)	10.4	10.4				

Mammoth Cave National Park

ROUTE 0223: MAPLE SPRINGS LOOP CAMPGROUND

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.						
Inspection Date: 7/21/2021	Beginning Section MP	0				
Paved Length (Miles): 0.25	Section Length (MI)	0.25				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	98	98				
Surface Condition Rating (SCR)	98	98				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	98	98				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	12.2	12.2				
Lane Width (ft)	12.2	12.2				

Mammoth Cave National Park

ROUTE 0224: VISITOR CENTER BUS LOOP

Data Collection Vehicle (DCV) Rating



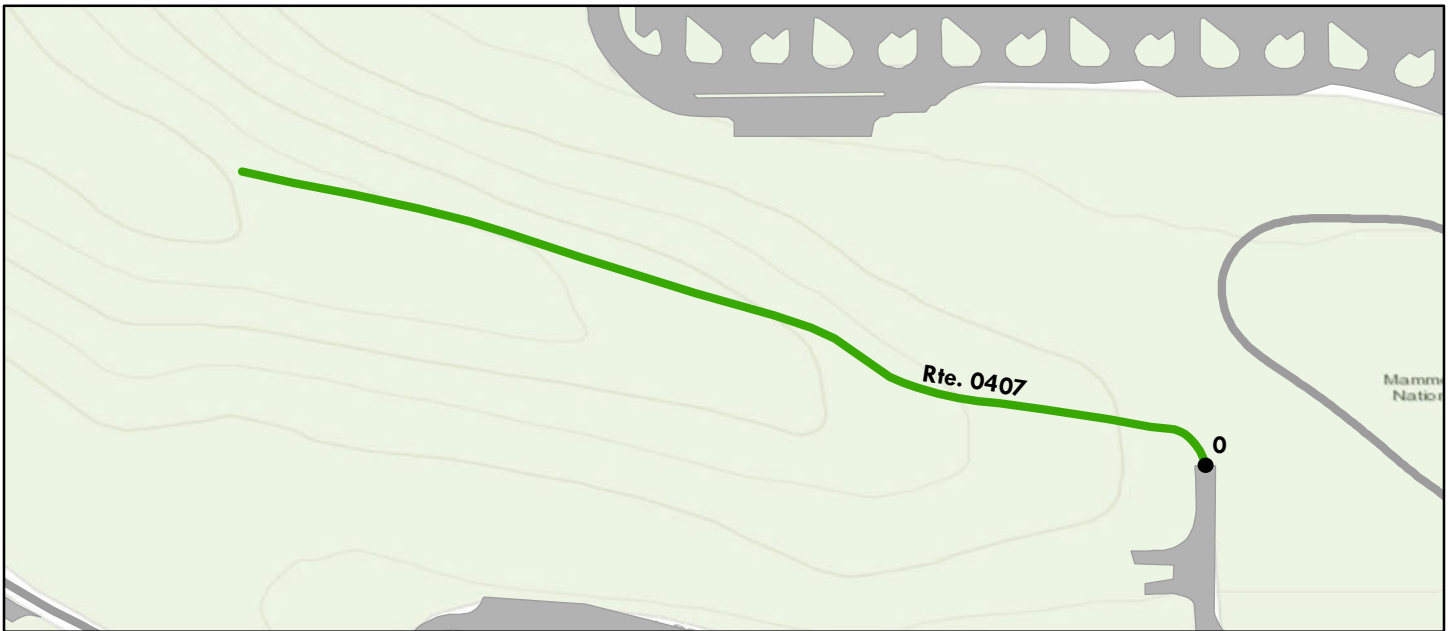
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.						
Inspection Date: 7/21/2021	Beginning Section MP	0				
Paved Length (Miles): 0.23	Section Length (MI)	0.23				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	99				
Surface Condition Rating (SCR)	99	99				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	21.7	21.7				
Lane Width (ft)	17.5	17.5				

Mammoth Cave National Park

ROUTE 0407: HISTORIC ENTRANCE ROAD

Manual Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas

Inspection Date: 6/15/2021	Beginning Section MP	0.00				
Paved Length (Miles): 0.18	Section Length (MI)	0.18				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	90	90				
Surface Condition Rating (SCR)	90	90				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	N/A	N/A				
Alligator Crack Index	90	90				
Longitudinal Crack Index	90	90				
Transverse Cracking Index	90	90				
Patching Index	97	97				
Rutting Index	90	90				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	11	11				
Lane Width (ft)	11	11				

Mammoth Cave National Park

ROUTE 0407: HISTORIC ENTRANCE ROAD

Condition Photos

Condition photos are shown only for manually rated roads. Use the PathView program to see images of DCV rated roads.



MACA_0407_1.jpg



MACA_0407_12.jpg



MACA_0407_17.jpg



MACA_0407_6.jpg



MACA_0407_7.jpg

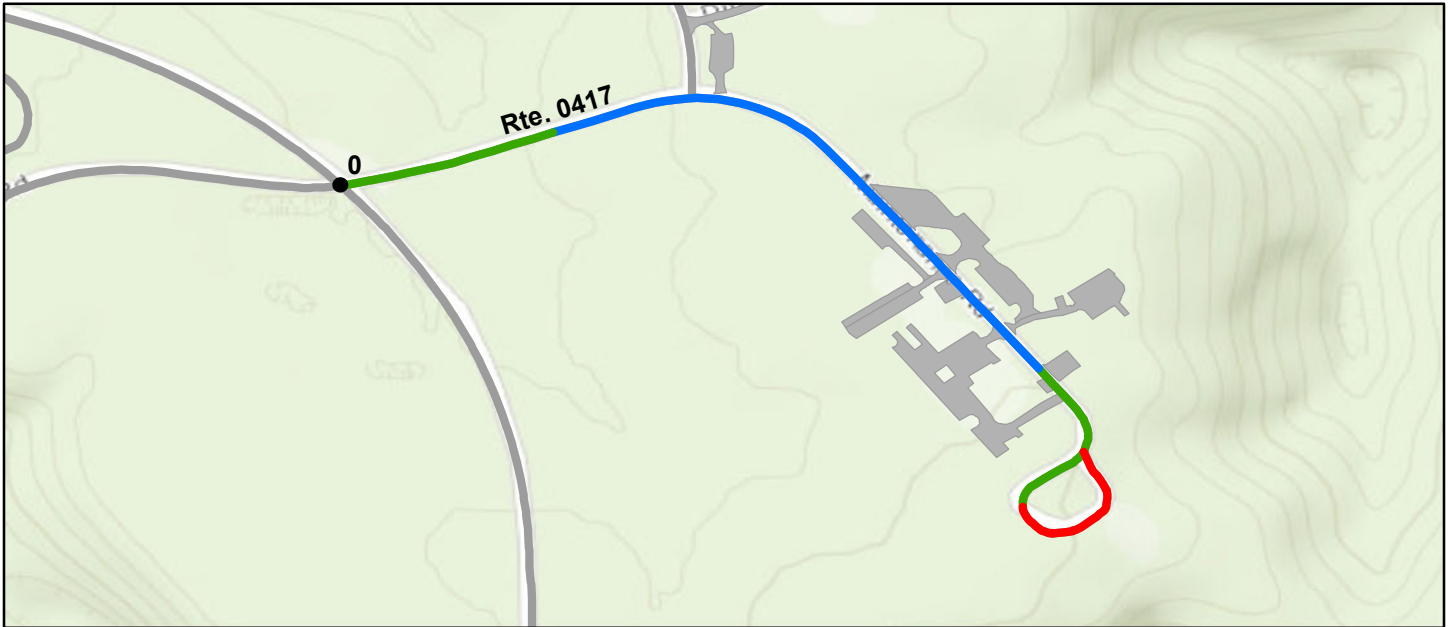


MACA_0407_9.jpg

Mammoth Cave National Park

ROUTE 0417: PARK MAINTENANCE ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.						
Inspection Date: 7/21/2021	Beginning Section MP	0				
Paved Length (Miles): 0.58	Section Length (MI)	0.58				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	93	93				
Surface Condition Rating (SCR)	93	93				
Roughness Condition Index (RCI)	92	92				
Distress Index Values						
Structural Crack Index	95	95				
Alligator Crack Index	100	100				
Longitudinal Crack Index	95	95				
Transverse Cracking Index	93	93				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	134	134				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	18	18				
Lane Width (ft)	9.5	9.5				

Mammoth Cave National Park

ROUTE 0418: RESIDENCE LOOP ROAD

Data Collection Vehicle (DCV) Rating



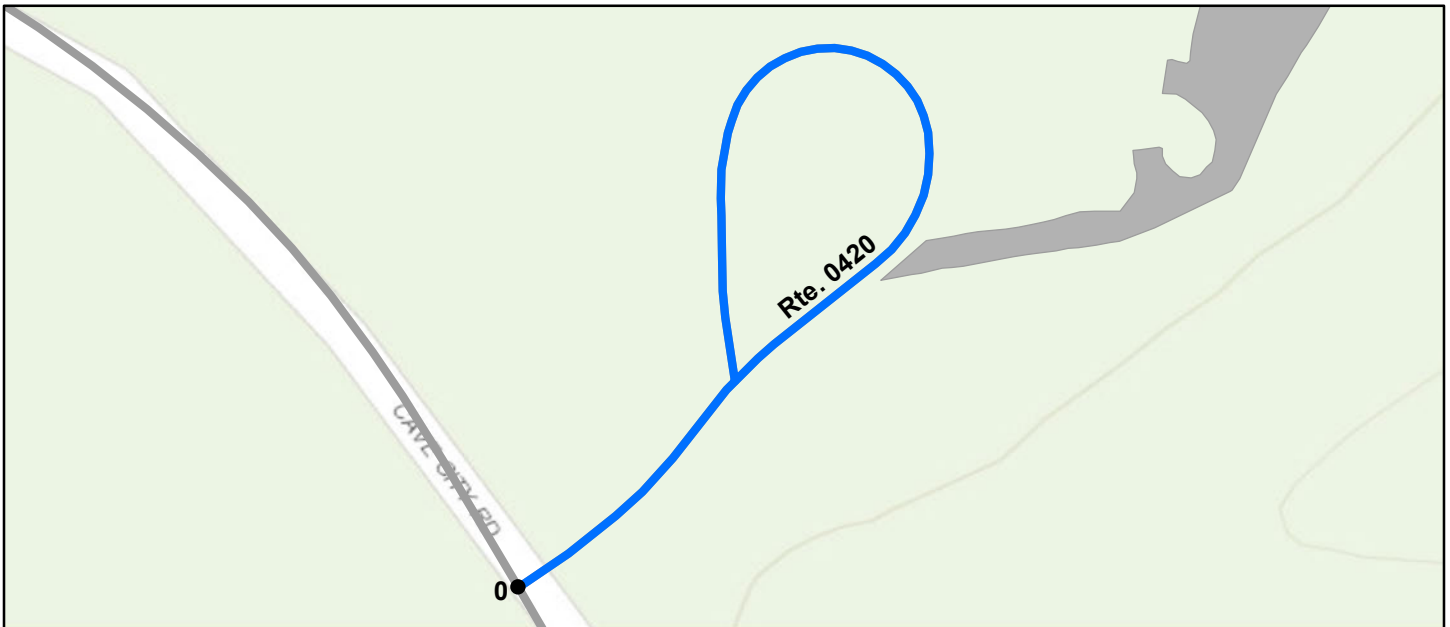
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.						
Inspection Date: 7/21/2021	Beginning Section MP	0				
Paved Length (Miles): 0.32	Section Length (MI)	0.32				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	100	100				
Surface Condition Rating (SCR)	100	100				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	100	100				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	17.4	17.4				
Lane Width (ft)	8.7	8.7				

Mammoth Cave National Park

ROUTE 0420: ELEVATOR SHAFT ROAD

Data Collection Vehicle (DCV) Rating



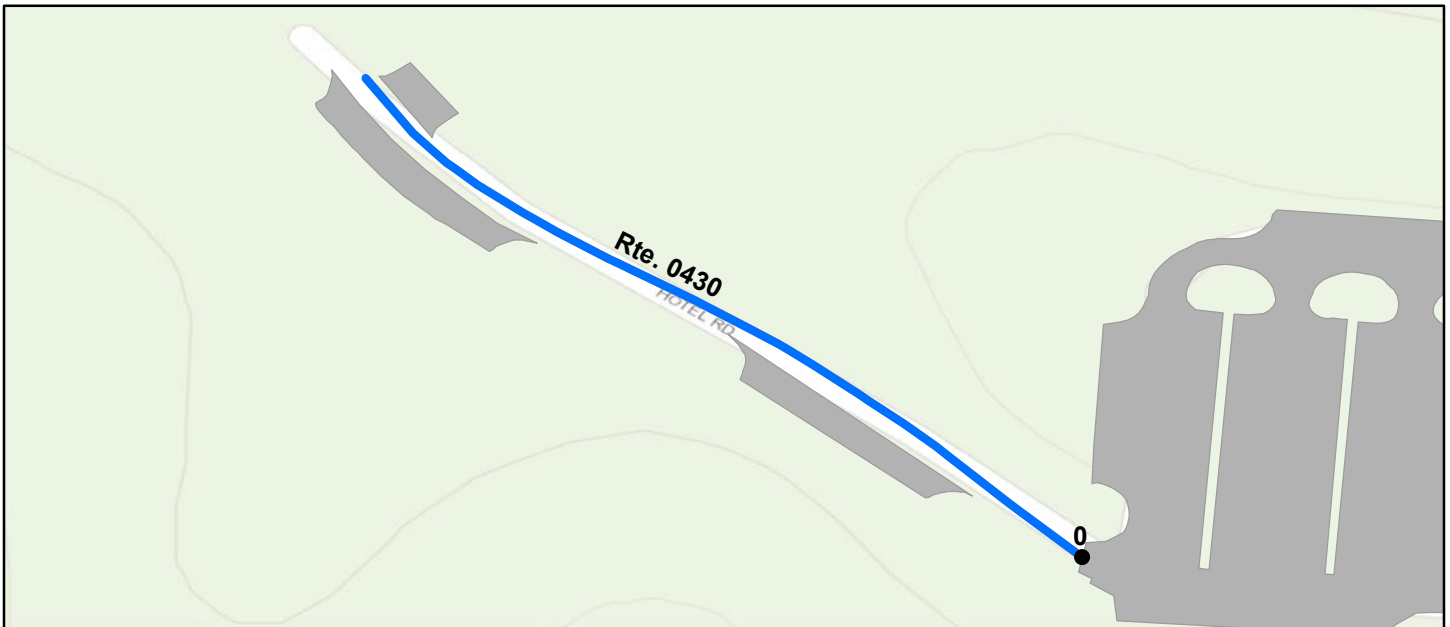
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.						
Inspection Date: 7/21/2021	Beginning Section MP	0				
Paved Length (Miles): 0.08	Section Length (MI)	0.08				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	99				
Surface Condition Rating (SCR)	99	99				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	16.8	16.8				
Lane Width (ft)	8.4	8.4				

Mammoth Cave National Park

ROUTE 0430: SUNSET LODGE ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

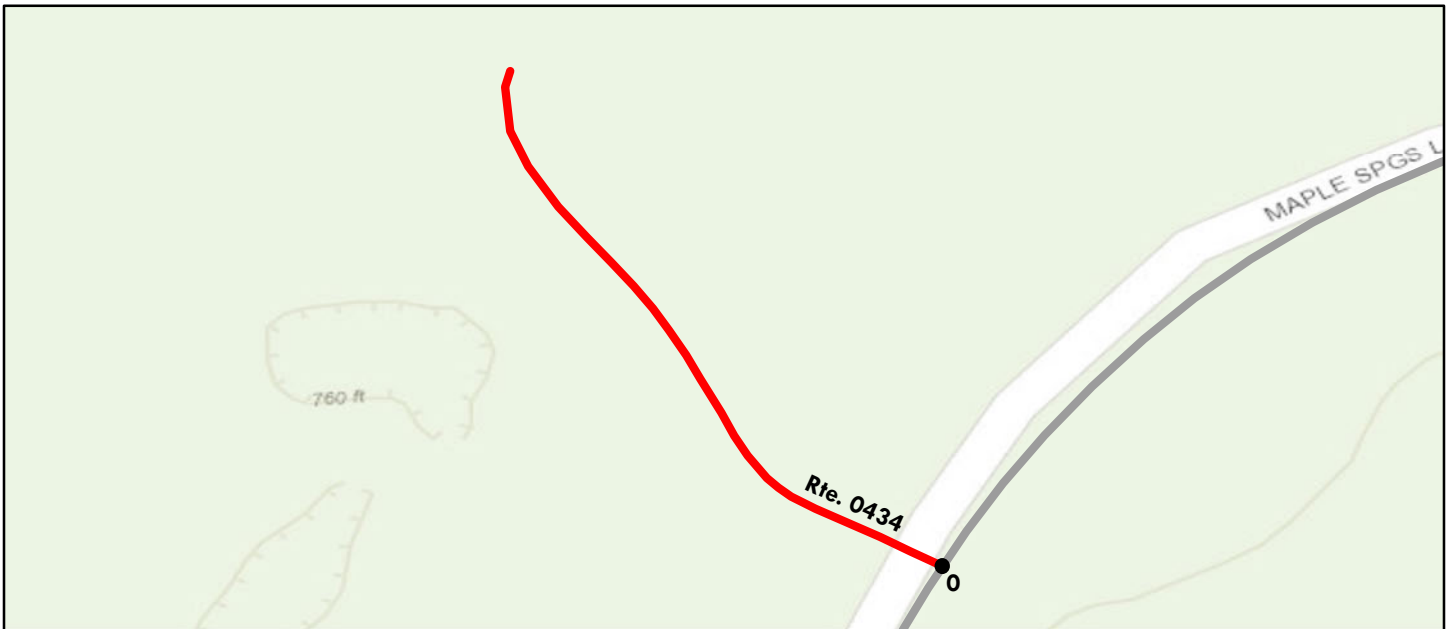
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date:	7/21/2021	Beginning Section MP	0				
Paved Length (Miles):	0.09	Section Length (MI)	0.09				
Surface Type:	ASPHALT	Route Summary					
Roadway Condition Information							
Pavement Condition Rating (PCR)	99	99					
Surface Condition Rating (SCR)	99	99					
Roughness Condition Index (RCI)	N/A	N/A					
Distress Index Values							
Structural Crack Index	100	100					
Alligator Crack Index	100	100					
Longitudinal Crack Index	100	100					
Transverse Cracking Index	100	100					
Patching Index	99	99					
Rutting Index	99	99					
International Roughness Index (IRI)	N/A	N/A					
Lane & Width Information							
Number of Lanes	2	2					
Paved Width (ft)	17.5	17.5					
Lane Width (ft)	8.7	8.7					

Mammoth Cave National Park

ROUTE 0434: LEARNING CENTER ACCESS ROAD

Manual Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date: 6/14/2021	Beginning Section MP	0.00				
Paved Length (Miles): 0.07	Section Length (MI)	0.07				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	0	0				
Surface Condition Rating (SCR)	0	0				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	N/A	N/A				
Alligator Crack Index	N/A	N/A				
Longitudinal Crack Index	N/A	N/A				
Transverse Cracking Index	N/A	N/A				
Patching Index	N/A	N/A				
Rutting Index	N/A	N/A				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	12.8	12.8				
Lane Width (ft)	12.8	12.8				

Mammoth Cave National Park

ROUTE 0434: LEARNING CENTER ACCESS ROAD

Condition Photos

Condition photos are shown only for manually rated roads. Use the PathView program to see images of DCV rated roads.



MACA_0434_1.jpg



MACA_0434_2.jpg



MACA_0434_3.jpg



MACA_0434_4.jpg



MACA_0434_6.jpg



MACA_0434_7.jpg

Mammoth Cave National Park

ROUTE 0500: NEW ENTRANCE LOOP

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

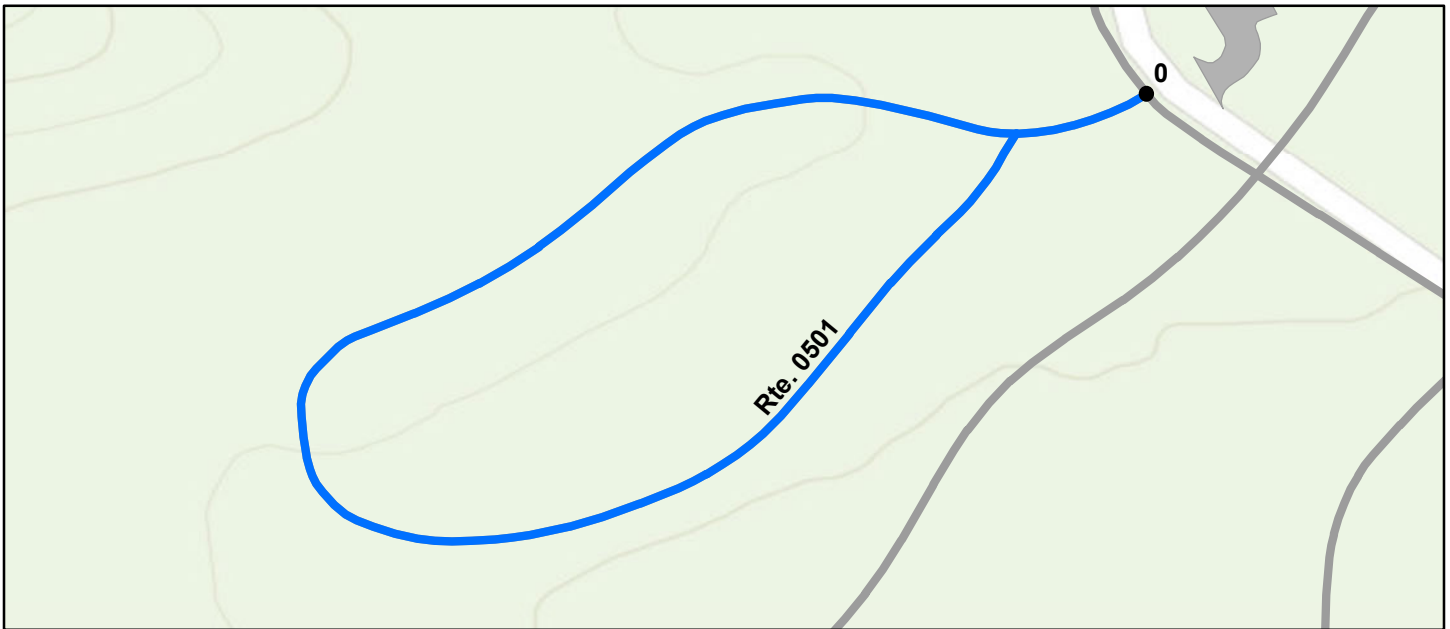
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 7/21/2021	Beginning Section MP	0				
Paved Length (Miles): 0.16	Section Length (MI)	0.16				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	98	98				
Surface Condition Rating (SCR)	98	98				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	98	98				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	18.2	18.2				
Lane Width (ft)	9.1	9.1				

Mammoth Cave National Park

ROUTE 0501: VISITOR CENTER CAMPGROUND LOOP D

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.						
Inspection Date: 7/21/2021	Beginning Section MP	0				
Paved Length (Miles): 0.26	Section Length (MI)	0.26				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	98	98				
Surface Condition Rating (SCR)	98	98				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	98	98				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	13.6	13.6				
Lane Width (ft)	13.6	13.6				

Mammoth Cave National Park

ROUTE 0502: VISITOR CENTER CAMPGROUND LOOP A

Data Collection Vehicle (DCV) Rating



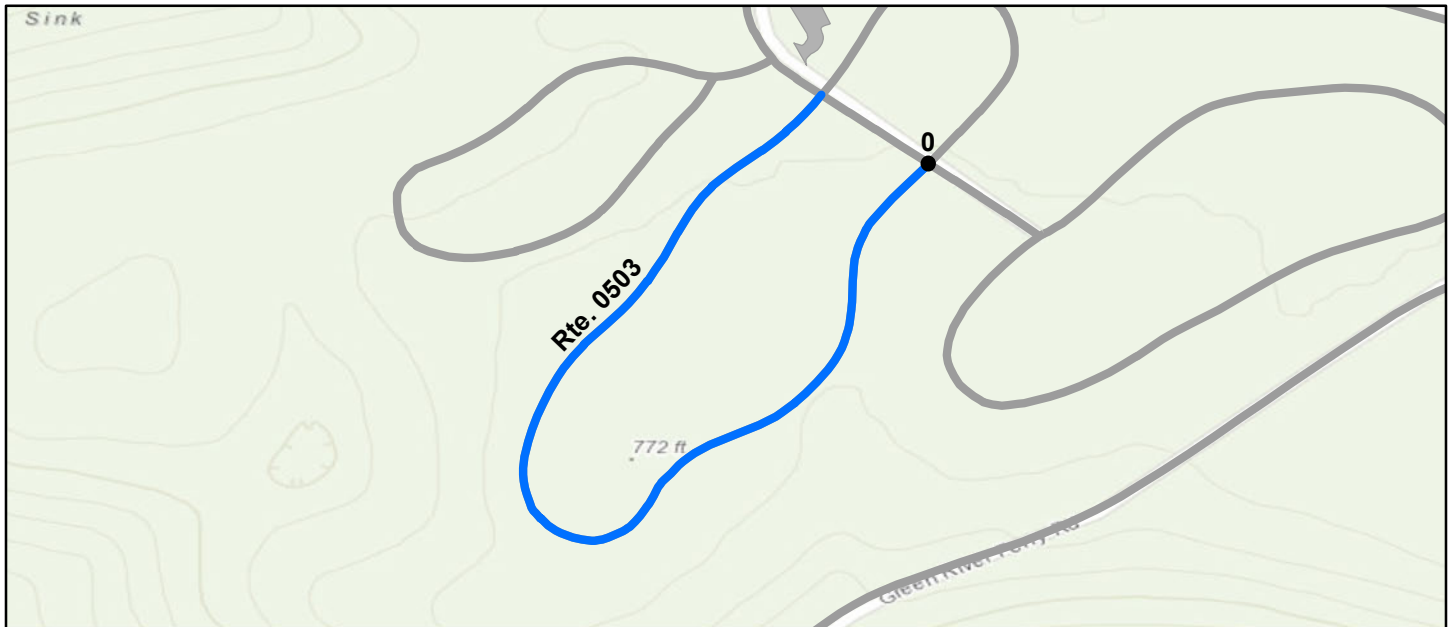
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.						
Inspection Date: 7/21/2021	Beginning Section MP	0				
Paved Length (Miles): 0.14	Section Length (MI)	0.14				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	98	98				
Surface Condition Rating (SCR)	98	98				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	98	98				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	11.8	11.8				
Lane Width (ft)	11.8	11.8				

Mammoth Cave National Park

ROUTE 0503: VISITOR CENTER CAMPGROUND LOOP C

Data Collection Vehicle (DCV) Rating



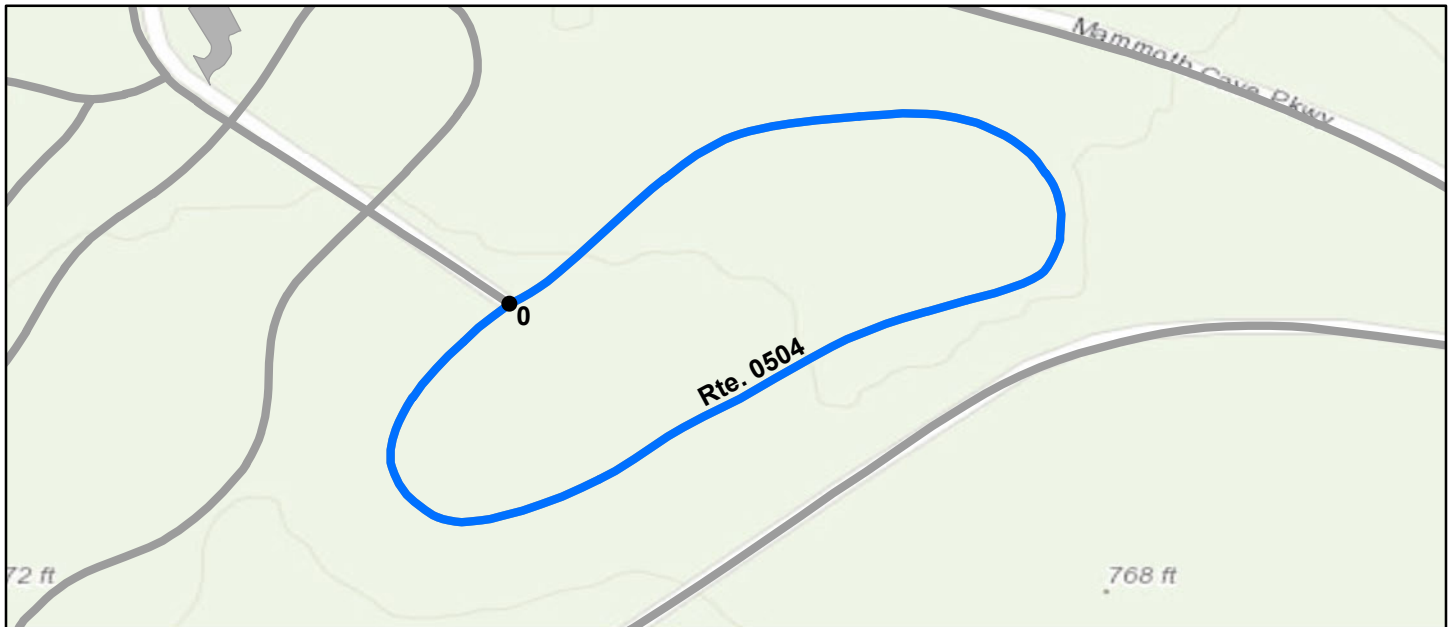
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.						
Inspection Date: 7/21/2021	Beginning Section MP	0				
Paved Length (Miles): 0.38	Section Length (MI)	0.38				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	100	100				
Surface Condition Rating (SCR)	100	100				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	100	100				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	12	12				
Lane Width (ft)	12	12				

Mammoth Cave National Park

ROUTE 0504: VISITOR CENTER CAMPGROUND LOOP B

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.						
Inspection Date: 7/21/2021	Beginning Section MP	0				
Paved Length (Miles): 0.41	Section Length (MI)	0.41				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	100	100				
Surface Condition Rating (SCR)	100	100				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	100	100				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	11.6	11.6				
Lane Width (ft)	11.6	11.6				

Section 6 Paved Parking Area Condition Rating Sheets



Mammoth Cave National Park



Federal Lands Highway
Road Inventory Program

Mammoth Cave National Park

ROUTE 0900: DOYLE VALLEY OVERLOOK

Manual Rating

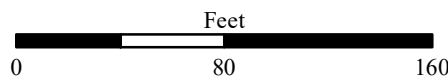
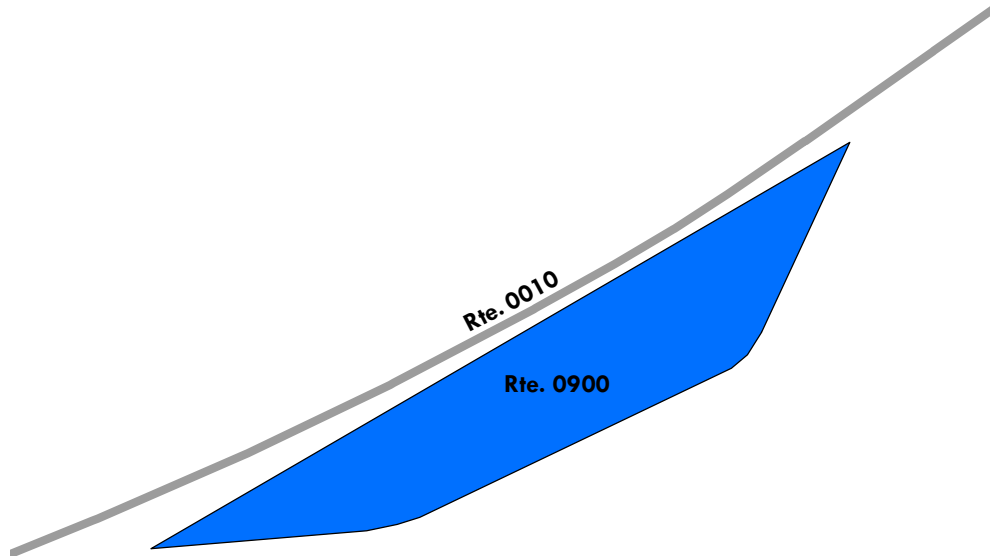
ADJACENT TO ROUTE 0010 (MAMMOTH CAVE PARKWAY) AT MP 3.65 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50187	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
8,536	0.147	3	LIGHT REPAIR
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
DO NOTHING		EXCELLENT / 97	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0901A: VISITOR CENTER PARKING

Manual Rating

FROM END OF ROUTE 0010 (MAMMOTH CAVE PARKWAY)

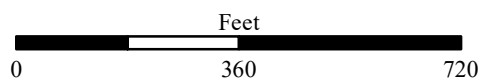
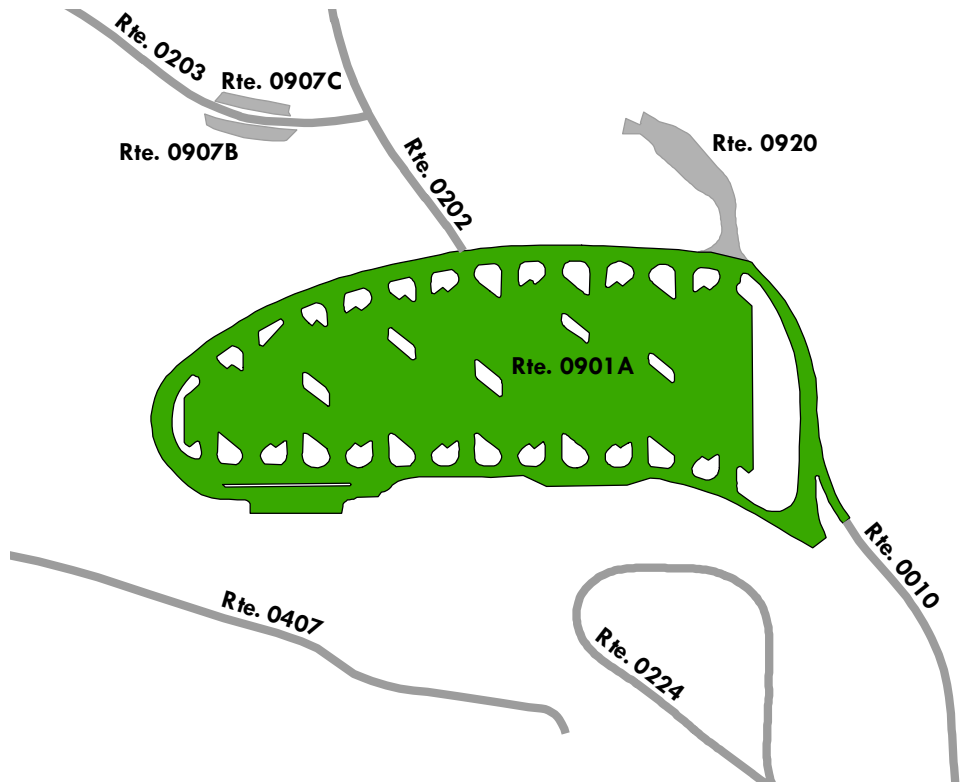
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50169	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
247,079	4.254	0	MODERATE REPAIR
Curb Type		Curb & Gutter Type	
CONCRETE		CONCRETE	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0901B: HOTEL SERVICES PARKING

Manual Rating

FROM ROUTE 0908 (MAMMOTH CAVE HOTEL PARKING)

TO ROUTE 0407 (HISTORIC ENTRANCE ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50165	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
5,765	0.099	3	LIGHT REPAIR
Curb Type		Curb & Gutter Type	
CONCRETE		CONCRETE	
Pavement Recommendation		Condition Rating / PCR	
LIGHT 3R TREATMENTS		FAIR / 73	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

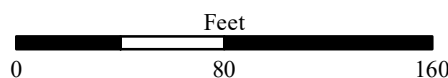
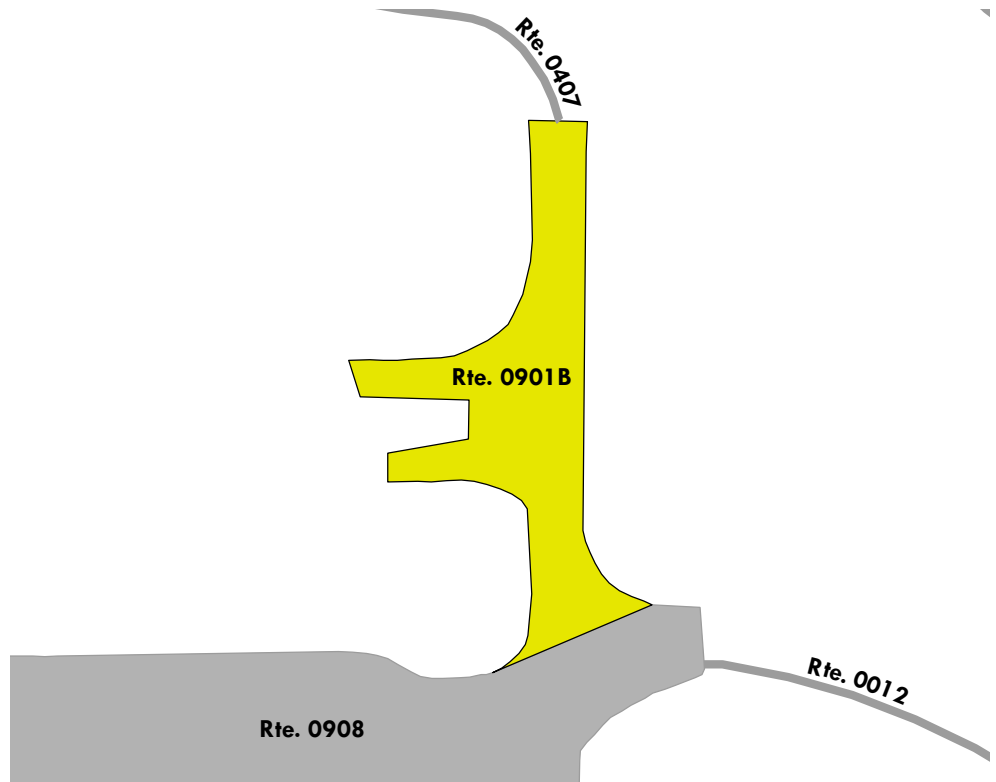
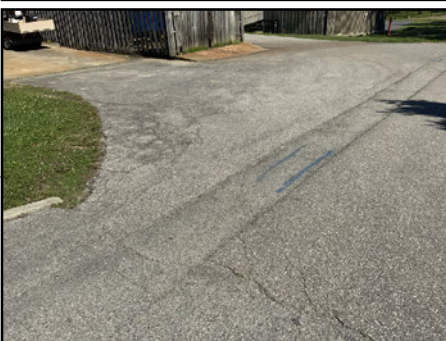
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0902A: MAINTENANCE PARKING

Manual Rating

FROM ROUTE 0417 (PARK MAINTENANCE ROAD)

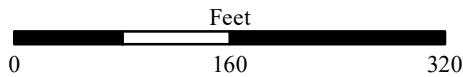
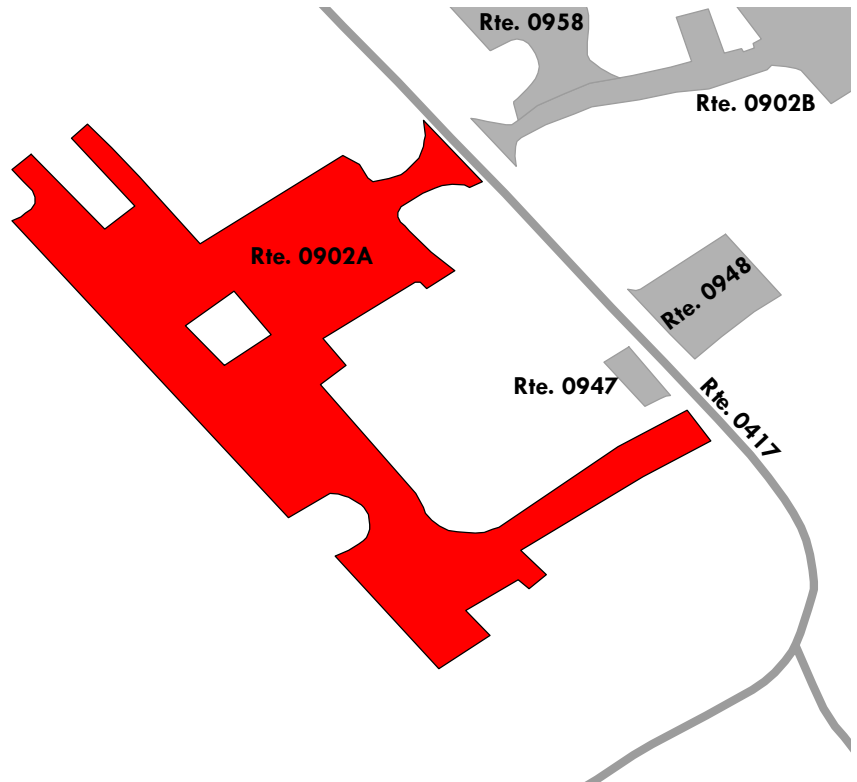
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50172	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
45,090	0.776	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
HEAVY 3R TREATMENTS		POOR / 53	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0902B: CONCESSION SERVICE PARKING

Manual Rating

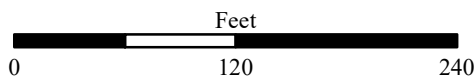
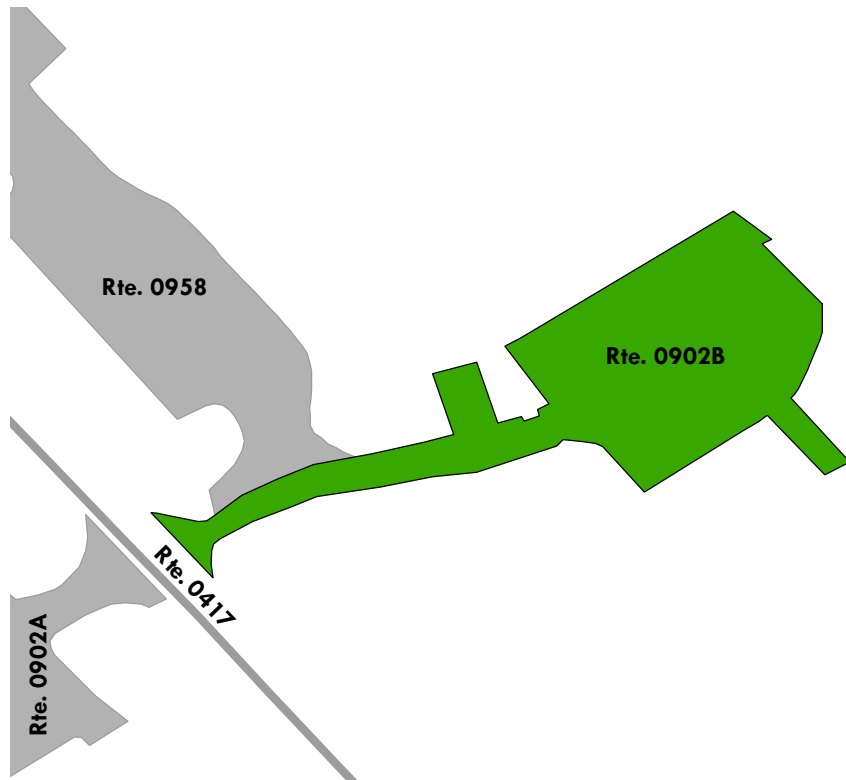
FROM ROUTE 0417 (PARK MAINTENANCE ROAD)
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50170	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
16,232	0.279	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0903ZZ: RANGER TRAINING CENTER PARKING

Summary Route
Manual Rating

FROM ROUTE 0417 (PARK MAINTENANCE ROAD)
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50184	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Condition Rating / PCR	
13,932	0.24	SUMMARY / 85	

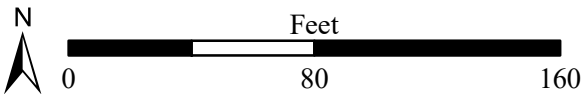
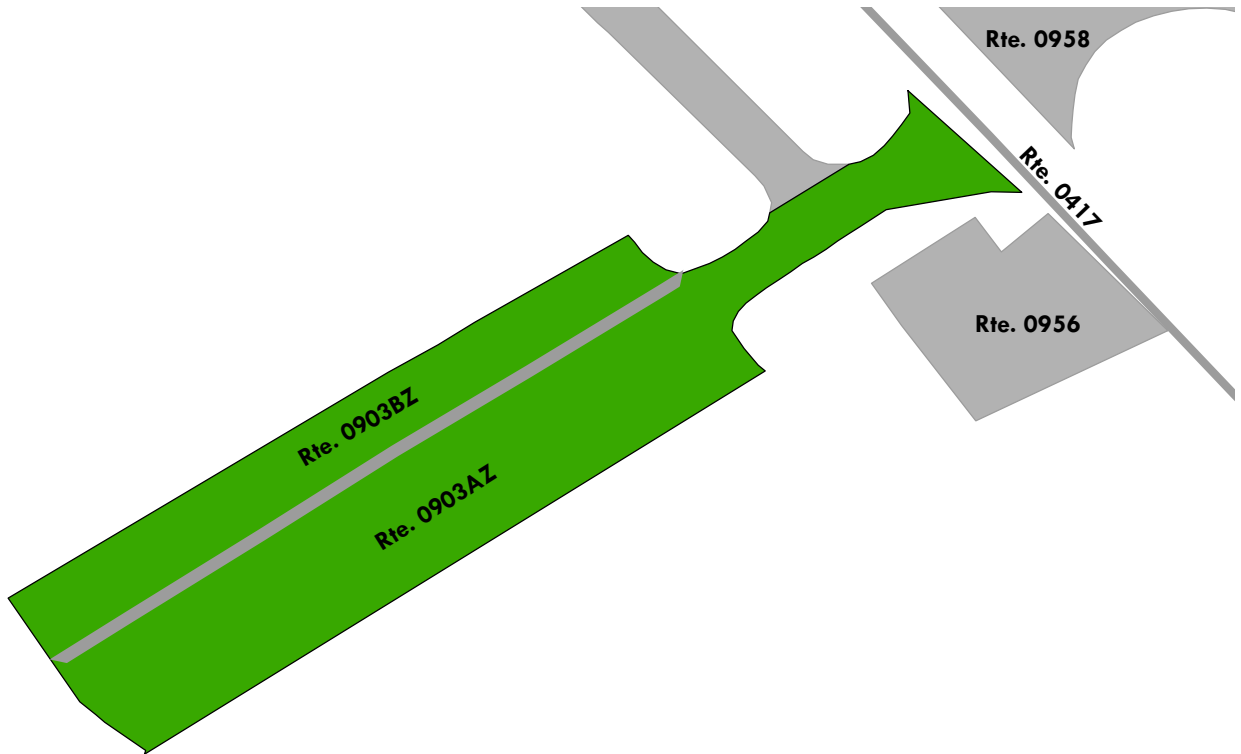
Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas

The condition shown on this page reflects the overall route condition and may not reflect individual subcomponent ratings.

Rte. 0903ZZ
(2 Subcomponents)



Mammoth Cave National Park

ROUTE 0903AZ: RANGER TRAINING CENTER A PARKING

Subcomponent of Route MACA-0903ZZ
Manual Rating

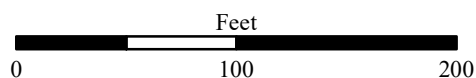
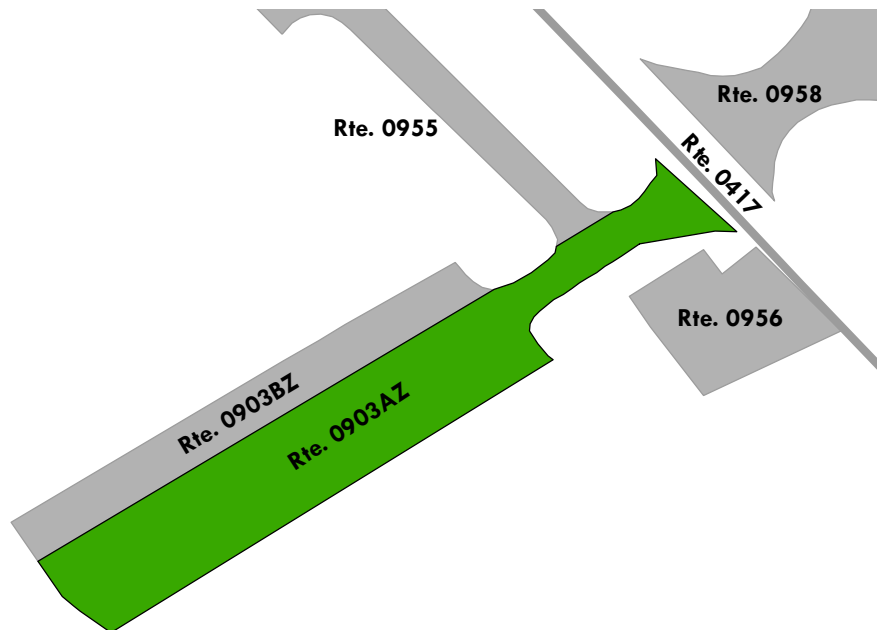
FROM ROUTE 0417 (PARK MAINTENANCE ROAD)
 TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50184	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
9,982	0.172	3	LIGHT REPAIR
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0903BZ: RANGER TRAINING CENTER B PARKING

Subcomponent of Route MACA-0903ZZ
Manual Rating

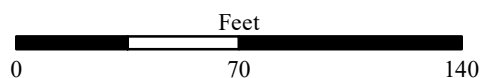
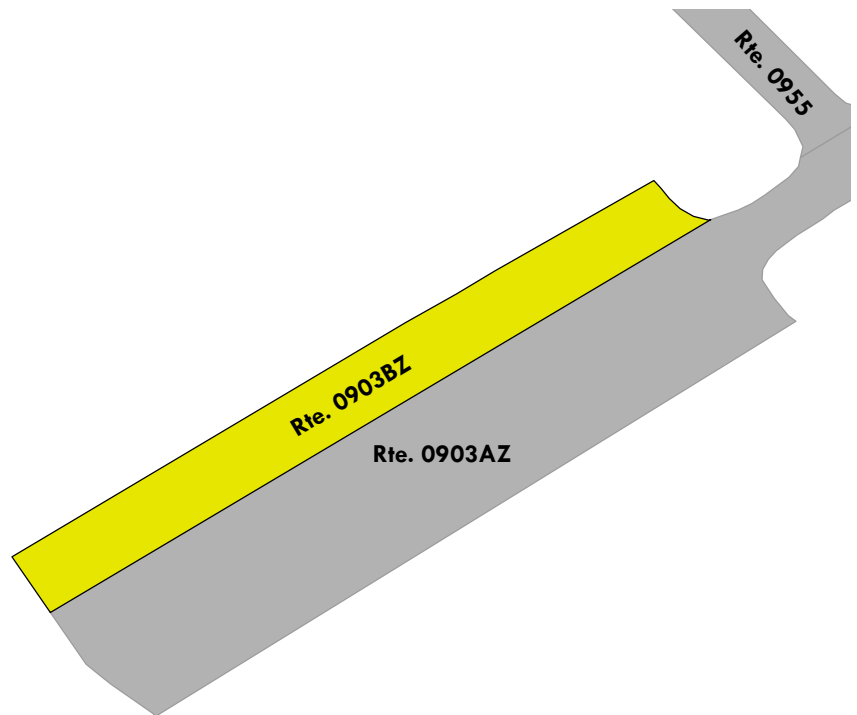
ADJACENT TO ROUTE 0903AZ (RANGER TRAINING CENTER A PARKING)

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50184	PUBLIC	CONCRETE
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
3,950	0.068	5	MODERATE REPAIR
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
LIGHT 3R TREATMENTS		FAIR / 73	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0904A: HOUCHINS FERRY ROAD SOUTH PARKING

Manual Rating

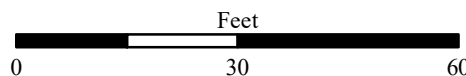
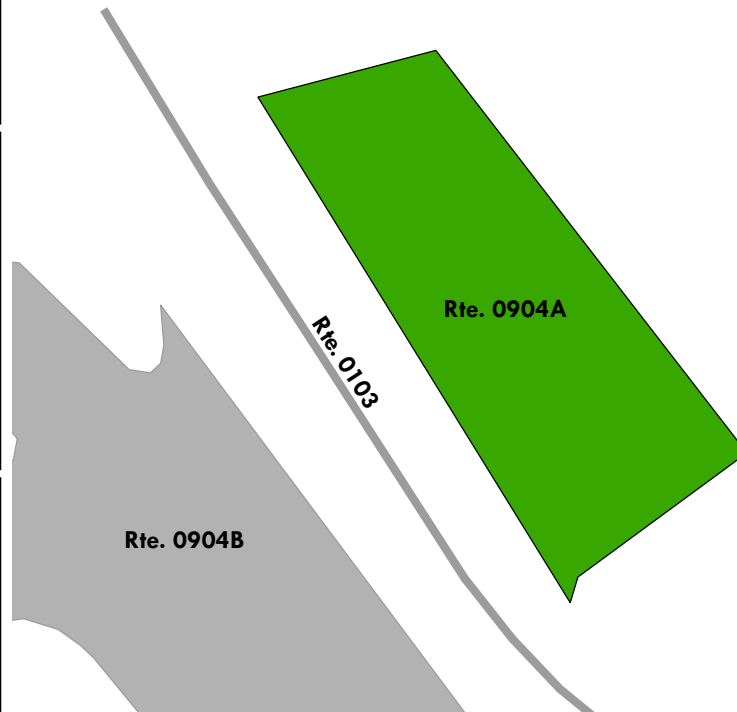
ADJACENT TO ROUTE 0103 (HOUCHINS FERRY ROAD SOUTH) NEAR END ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/14/2021	50167	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,606	0.028	4	LIGHT REPAIR
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0904B: HOUCHINS FERRY ROAD SOUTH BOAT TRAILER PARKING

Manual Rating

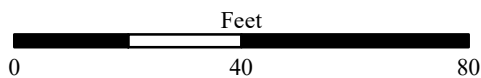
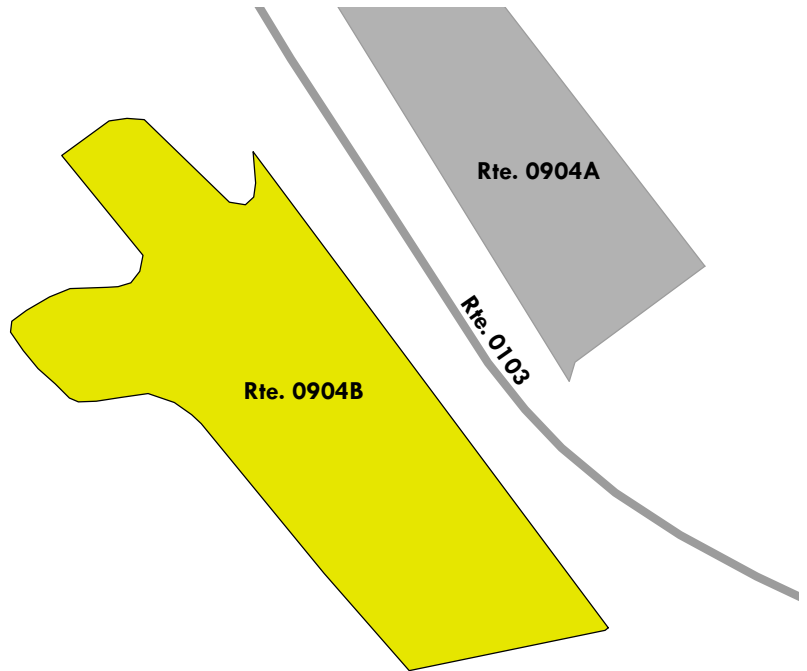
ADJACENT TO ROUTE 0103 (HOUCHINS FERRY ROAD SOUTH) NEAR END ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/14/2021	86327	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
3,172	0.055	4	LIGHT REPAIR
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
LIGHT 3R TREATMENTS		FAIR / 73	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0905: RECYCLING AREA PARKING

Manual Rating

FROM ROUTE 0417 (PARK MAINTENANCE ROAD)

TO ROUTE 0960 (SUPERINTENDENT OFFICE PARKING)

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50185	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
8,324	0.143	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

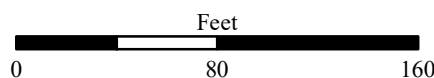
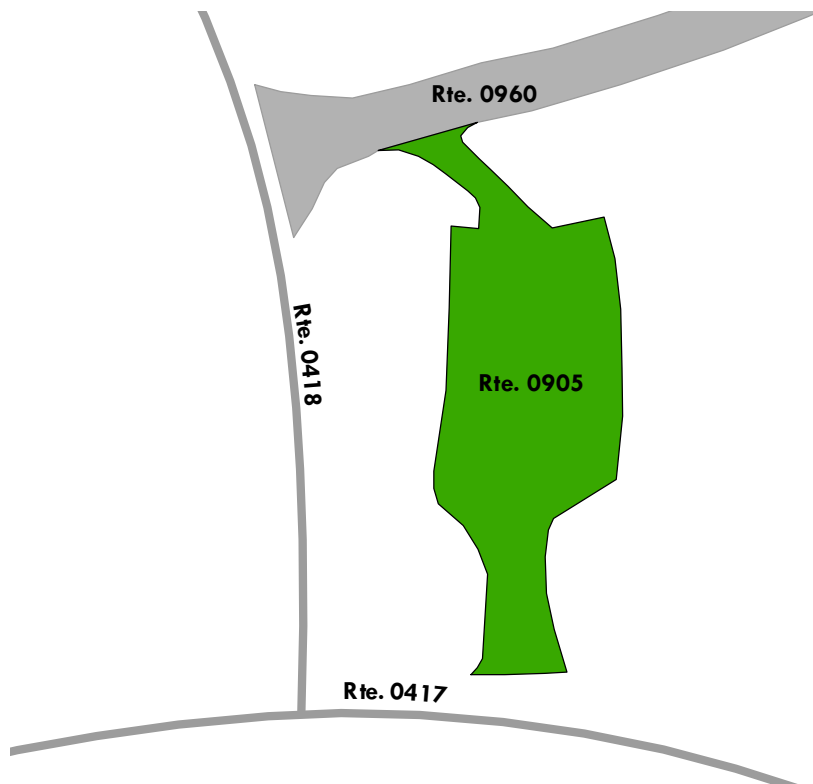
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0906A: SUNSET LODGE A PARKING

Manual Rating

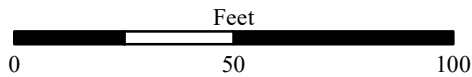
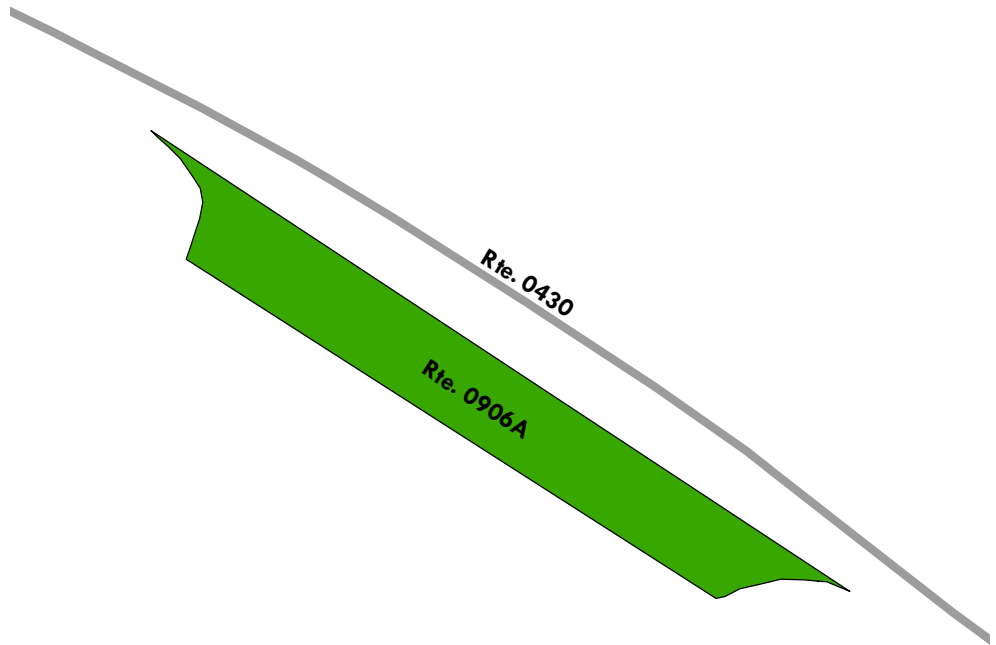
ADJACENT TO ROUTE 0430 (SUNSET LODGE ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50175	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
2,380	0.041	2	LIGHT REPAIR
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)
Fair (61- 84)
Good (85 - 94)
Excellent (95 - 100)
Not Rated

See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0906B: SUNSET LODGE B PARKING

Manual Rating

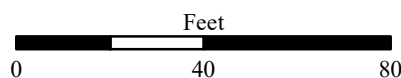
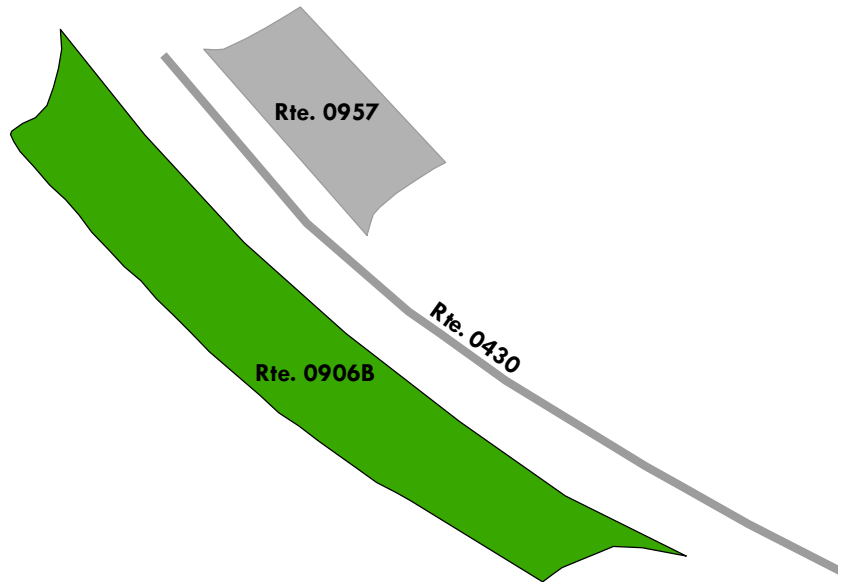
ADJACENT TO ROUTE 0430 (SUNSET LODGE ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50176	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
2,626	0.045	3	MODERATE REPAIR
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)
Fair (61- 84)
Good (85 - 94)
Excellent (95 - 100)
Not Rated

See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0907A: PICNIC SHELTER A PARKING

Manual Rating

FROM ROUTE 0203 (VISITOR CENTER PICNIC SHELTER ROAD) AT MP 0.09 ON RIGHT

TO ROUTE 0203 (VISITOR CENTER PICNIC SHELTER ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50182	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
7,719	0.133	3	REPLACE
Curb Type		Curb & Gutter Type	
STONE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
DO NOTHING		EXCELLENT / 97	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

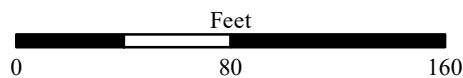
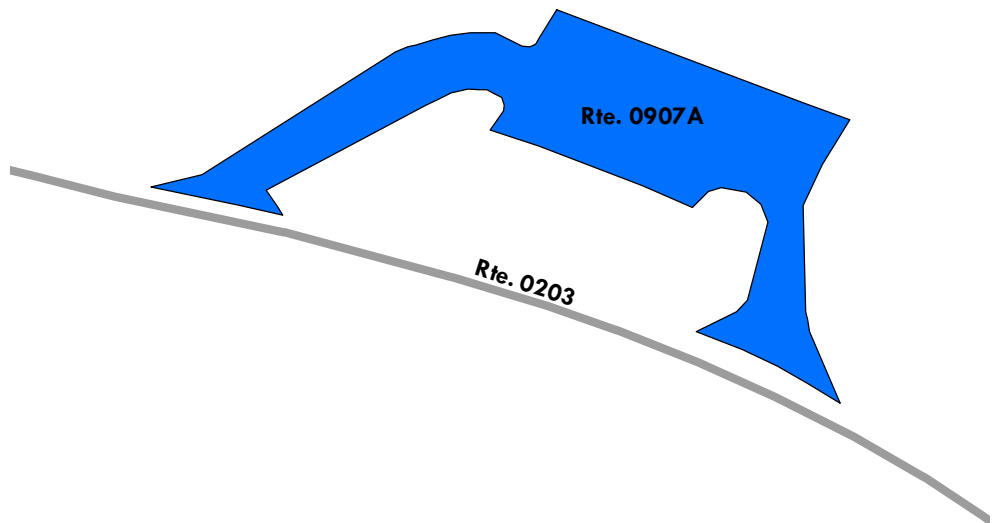
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0907B: PICNIC SHELTER B PARKING

Manual Rating

ADJACENT TO ROUTE 0203 (VISITOR CENTER PICNIC SHELTER ROAD) AT MP 0.03 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50183	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
2,281	0.039	11	MODERATE REPAIR
Curb Type		Curb & Gutter Type	
STONE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
DO NOTHING		EXCELLENT / 97	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

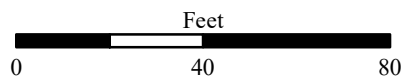
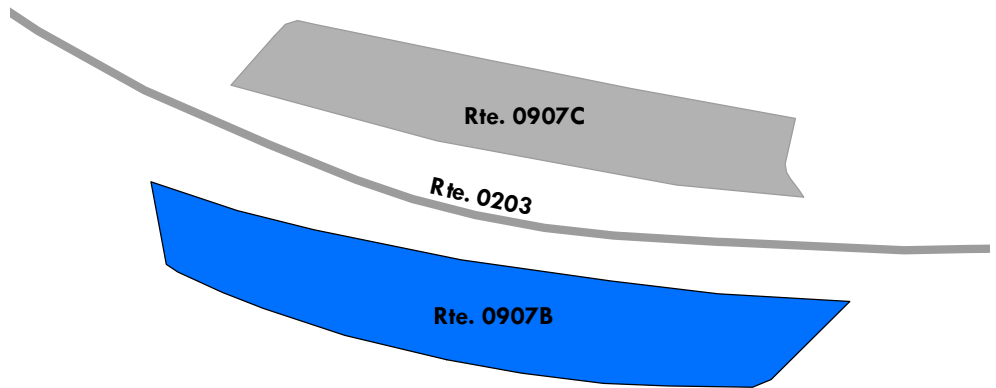
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0907C: PICNIC SHELTER C PARKING

Manual Rating

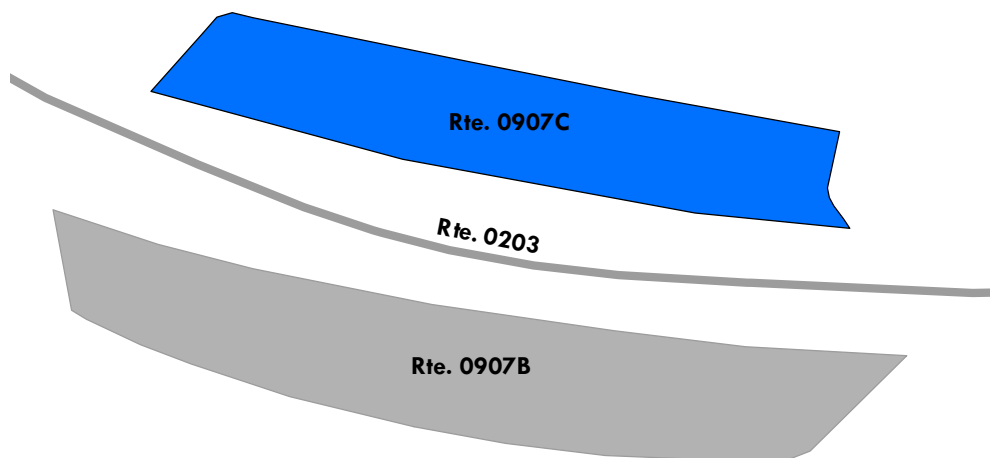
ADJACENT TO ROUTE 0203 (VISITOR CENTER PICNIC SHELTER ROAD) AT MP 0.03 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	86328	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,682	0.029	1	MODERATE REPAIR
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
DO NOTHING		EXCELLENT / 97	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0908: MAMMOTH CAVE HOTEL PARKING

Manual Rating

FROM END OF ROUTE 0012 (HOTEL ENTRANCE ROAD)

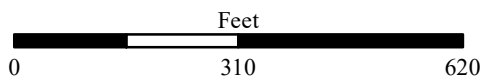
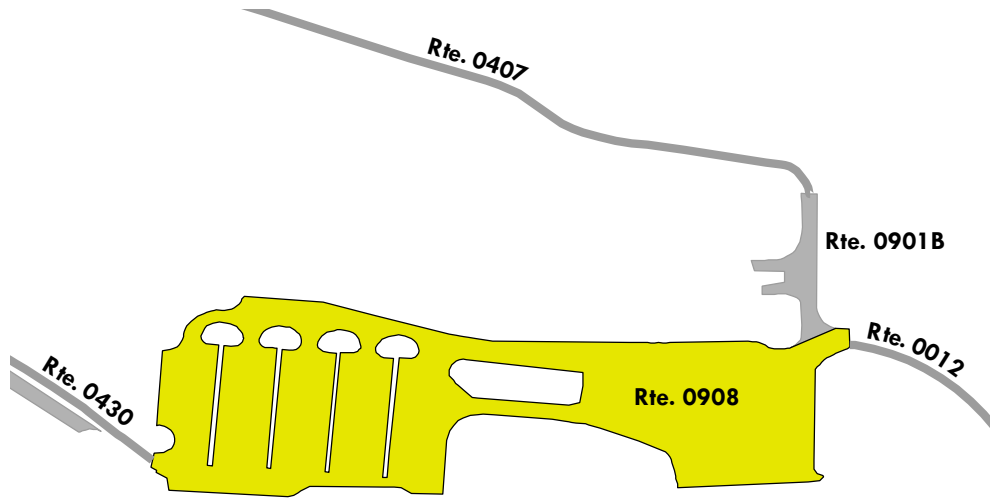
TO ROUTE 0430 (SUNSET LODGE ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50164	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
123,003	2.118	6	MODERATE REPAIR
Curb Type		Curb & Gutter Type	
CONCRETE		CONCRETE	
Pavement Recommendation		Condition Rating / PCR	
LIGHT 3R TREATMENTS		FAIR / 73	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0909: SLOANS CROSSING PICNIC/POND PARKING

Manual Rating

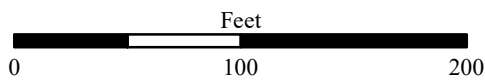
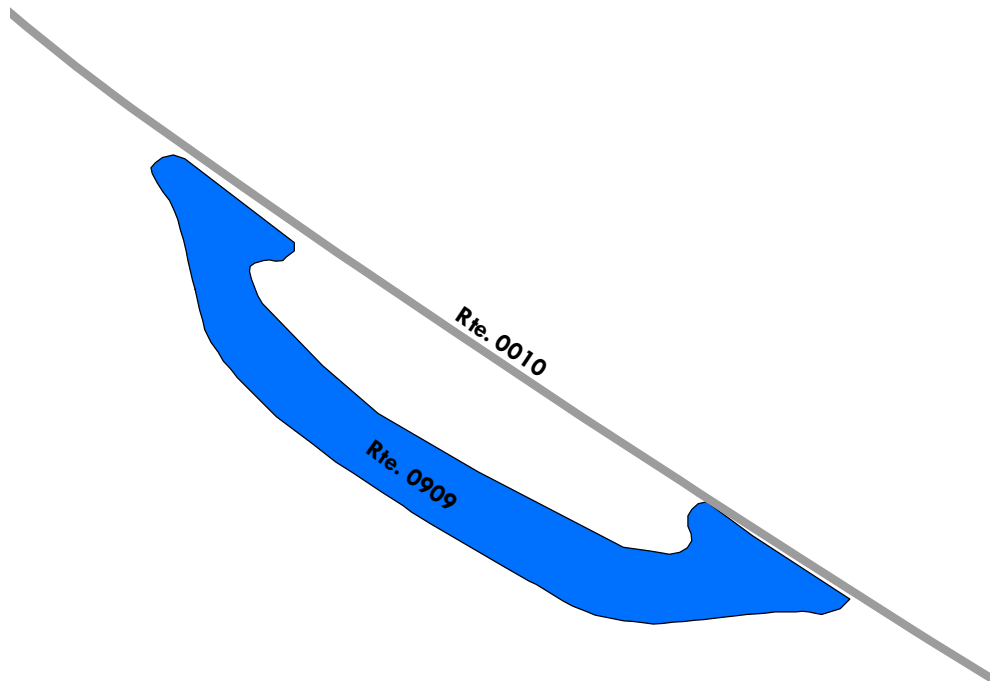
FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY) AT MP 2.56
TO ROUTE 0010 (MAMMOTH CAVE PARKWAY)

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50191	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
9,355	0.161	NOT APPLICABLE	DO NOTHING
Curb Type		Curb & Gutter Type	
NO CURB		CONCRETE	
Pavement Recommendation		Condition Rating / PCR	
DO NOTHING		EXCELLENT / 97	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0911: PARK CITY ENTRANCE SIGN PARKING

Manual Rating

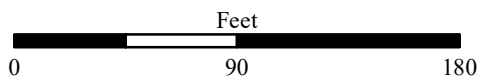
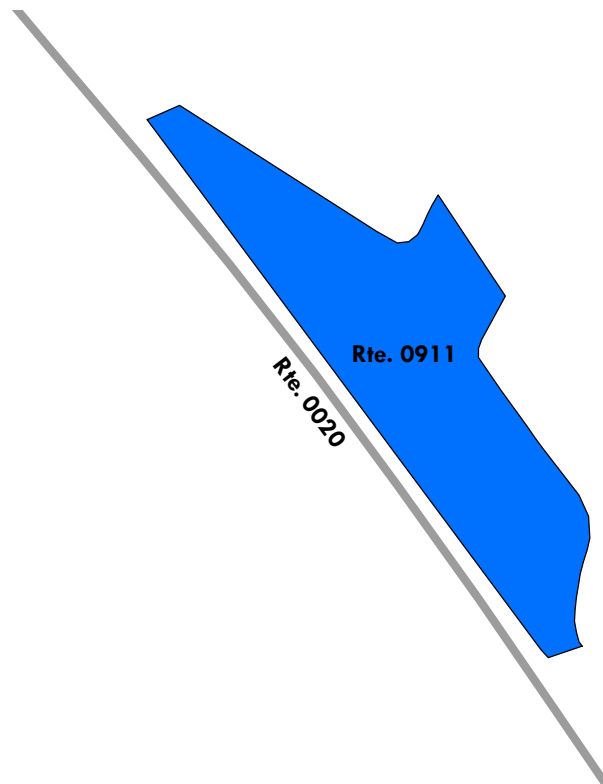
ADJACENT TO ROUTE 0020 (MAMMOTH CAVE PARKWAY (PARK CITY ROAD)) AT MP 0.40 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50179	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
9,754	0.168	3	LIGHT REPAIR
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
DO NOTHING		EXCELLENT / 97	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0912: TURNHOLE BEND NATURE TRAIL PARKING

Manual Rating

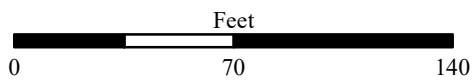
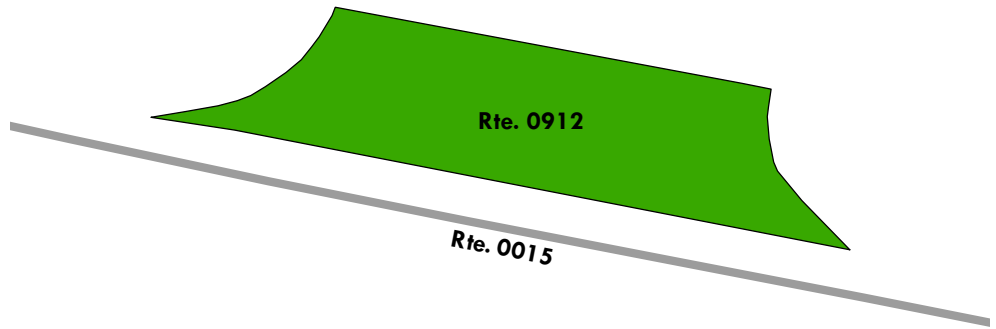
ADJACENT TO ROUTE 0015 (BROWNSVILLE ROAD) AT MP 1.30 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/14/2021	50193	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
5,993	0.103	4	LIGHT REPAIR
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0913: SAND CAVE PARKING

Manual Rating

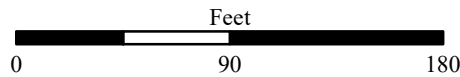
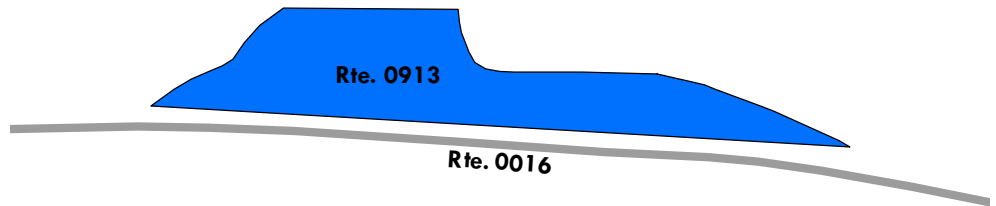
ADJACENT TO ROUTE 0016 (CAVE CITY ROAD) AT MP 0.18 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50189	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
6,319	0.109	4	LIGHT REPAIR
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
DO NOTHING		EXCELLENT / 97	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0915: GREEN RIVER PARKING

Manual Rating

FROM ROUTE 0013 (GREEN RIVER FERRY ROAD SOUTH) AT MP 1.28 ON RIGHT

TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50163	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
21,033	0.362	6	DO NOTHING
Curb Type		Curb & Gutter Type	
CONCRETE AND STONE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
LIGHT 3R TREATMENTS		FAIR / 73	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

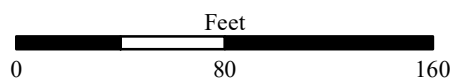
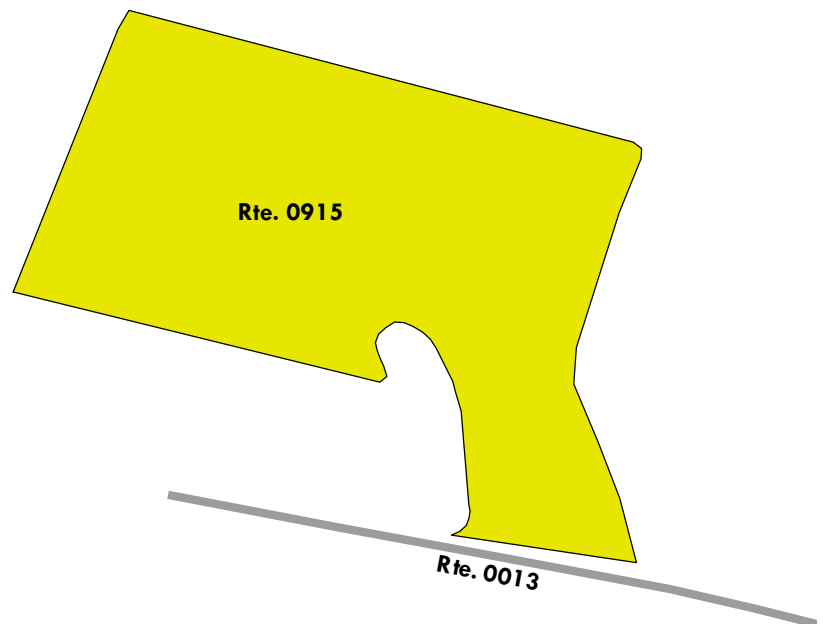
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0916: LINCOLN TRAILHEAD PARKING

Manual Rating

FROM OLLIE ROAD

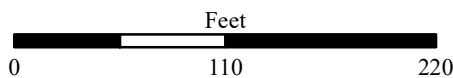
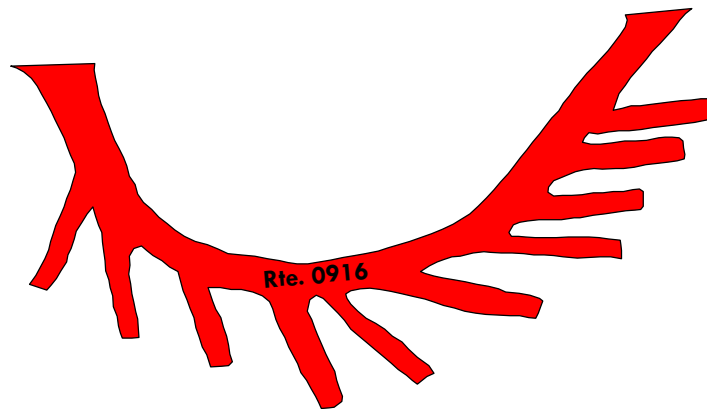
TO OLLIE ROAD

Inspection Date	FMSS Number	User Access	Surface Type
6/14/2021	50168	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
12,943	0.223	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
HEAVY 3R TREATMENTS		POOR / 53	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0919: CEDAR SINK TRAILHEAD PARKING

Manual Rating

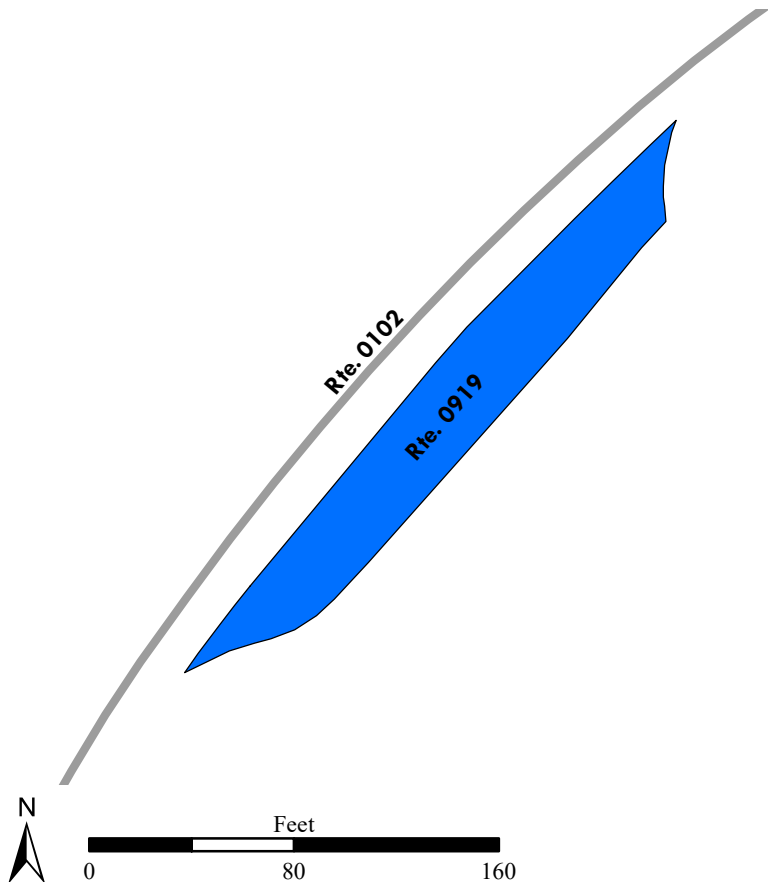
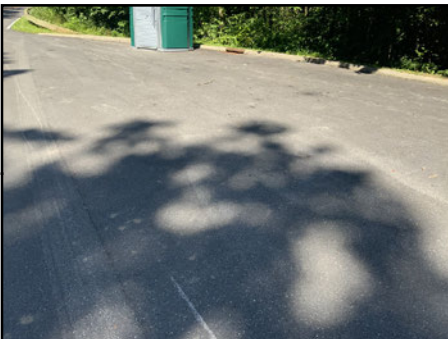
ADJACENT TO ROUTE 0102 (CEDAR SINK ROAD) AT MP 0.57 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/14/2021	50157	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
5,796	0.1	6	DO NOTHING
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
DO NOTHING		EXCELLENT / 97	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0920: WOODLAND COTTAGES PARKING

Manual Rating

FROM ROUTE 0901A (VISITOR CENTER PARKING)

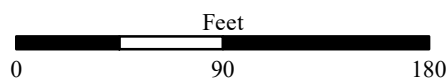
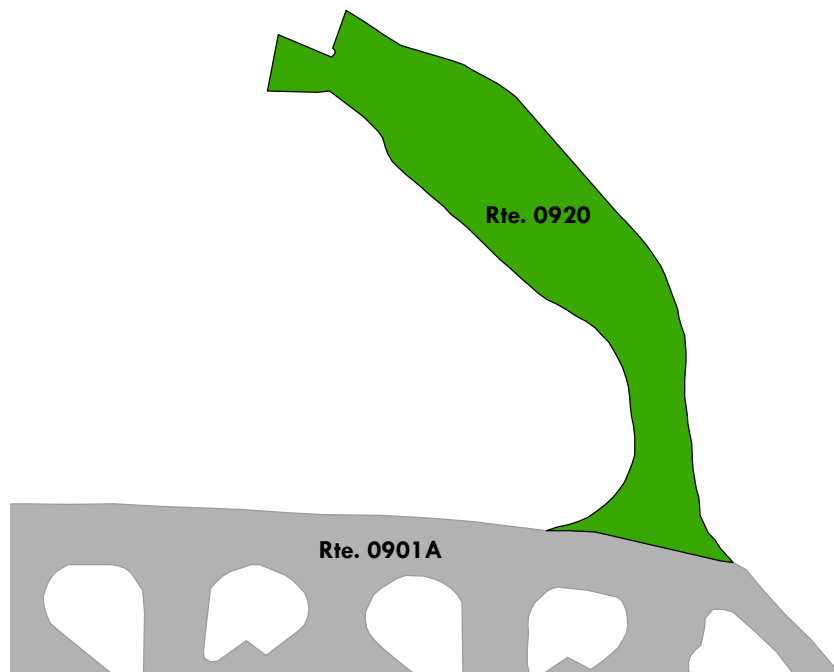
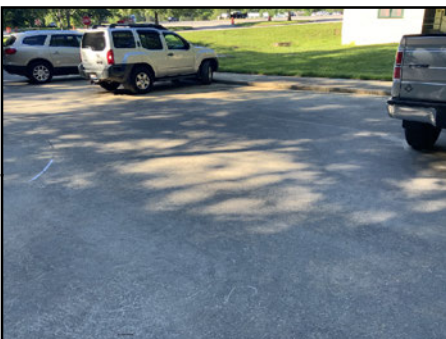
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50194	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
9,711	0.167	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0922: SERVICES PARKING (POST OFFICE/DUMP STATION/GAS)

Manual Rating

FROM ROUTE 0010 (MAMMOTH CAVE PARKWAY)

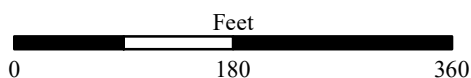
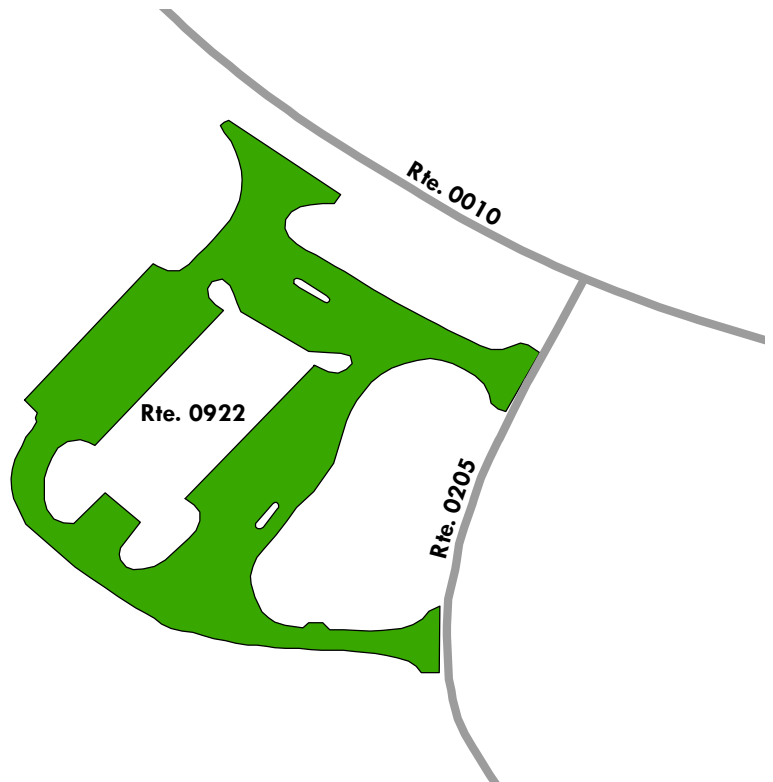
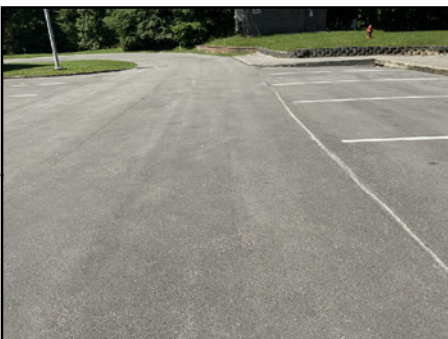
TO ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50160	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
45,911	0.79	4	LIGHT REPAIR
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)
Fair (61- 84)
Good (85 - 94)
Excellent (95 - 100)
Not Rated

See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0923: ELEVATOR PARKING

Manual Rating

FROM ROUTE 0420 (ELEVATOR SHAFT ROAD)

TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50162	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
4,648	0.08	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

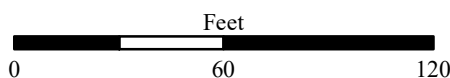
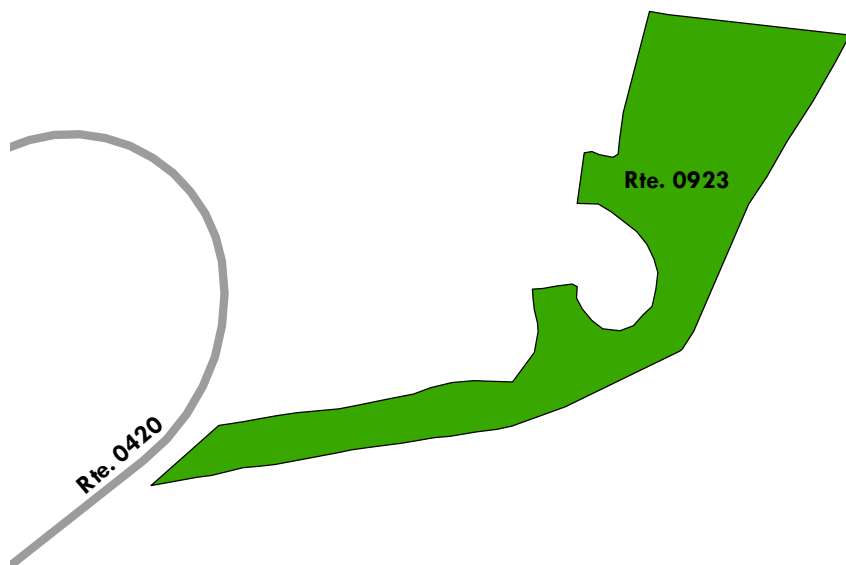
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0931ZZ: PICNIC GROUNDS PARKING

Summary Route
Manual Rating

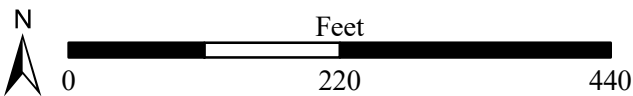
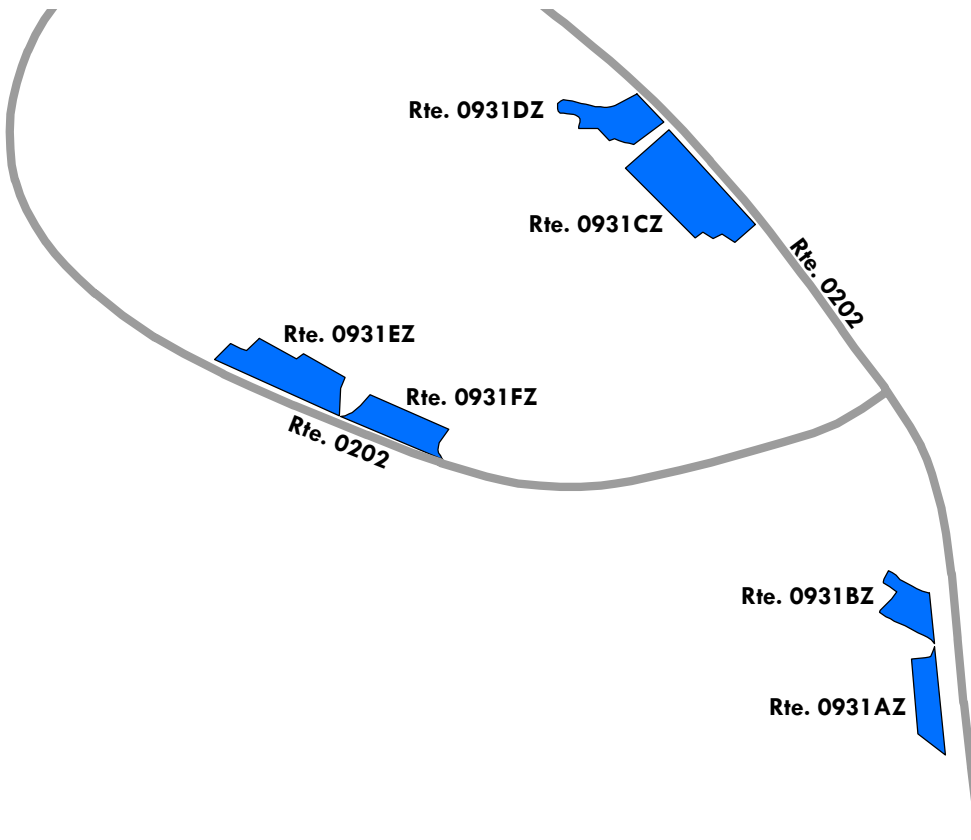
ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50180	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Condition Rating / PCR	
10,870	0.187	SUMMARY / 97	

Route Condition Legend – Pavement Condition Rating (PCR)				
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
See Appendix for definitions and formulas				

The condition shown on this page reflects the overall route condition and may not reflect individual subcomponent ratings.

Rte. 0931ZZ
(6 Subcomponents)



Mammoth Cave National Park

ROUTE 0931AZ: PICNIC GROUNDS A PARKING

Subcomponent of Route MACA-0931ZZ
Manual Rating

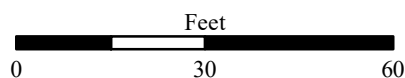
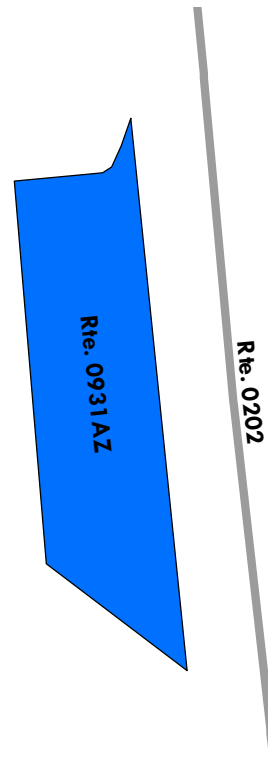
ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD) AT MP 0.11 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50180	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,145	0.02	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
DO NOTHING		EXCELLENT / 97	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)
Fair (61- 84)
Good (85 - 94)
Excellent (95 - 100)
Not Rated

See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0931BZ: PICNIC GROUNDS B PARKING

Subcomponent of Route MACA-0931ZZ
Manual Rating

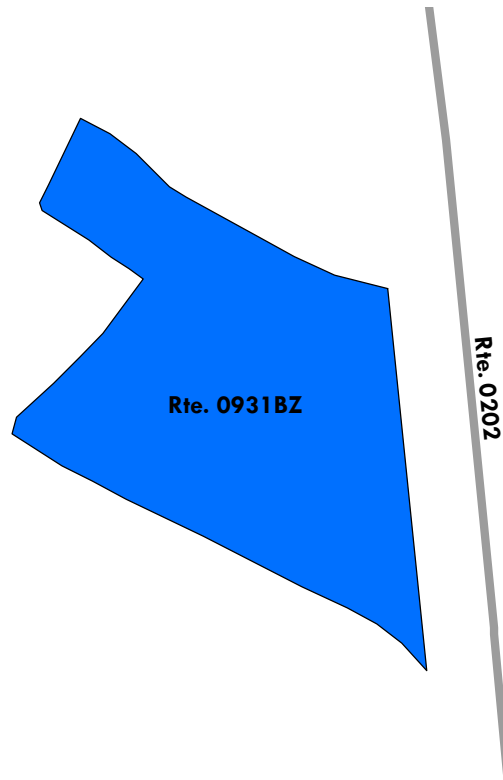
ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD) AT MP 0.12 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50180	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,040	0.018	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
DO NOTHING		EXCELLENT / 97	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)
Fair (61- 84)
Good (85 - 94)
Excellent (95 - 100)
Not Rated

See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0931CZ: PICNIC GROUNDS C PARKING

Subcomponent of Route MACA-0931ZZ
Manual Rating

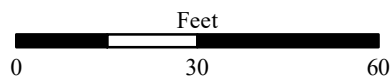
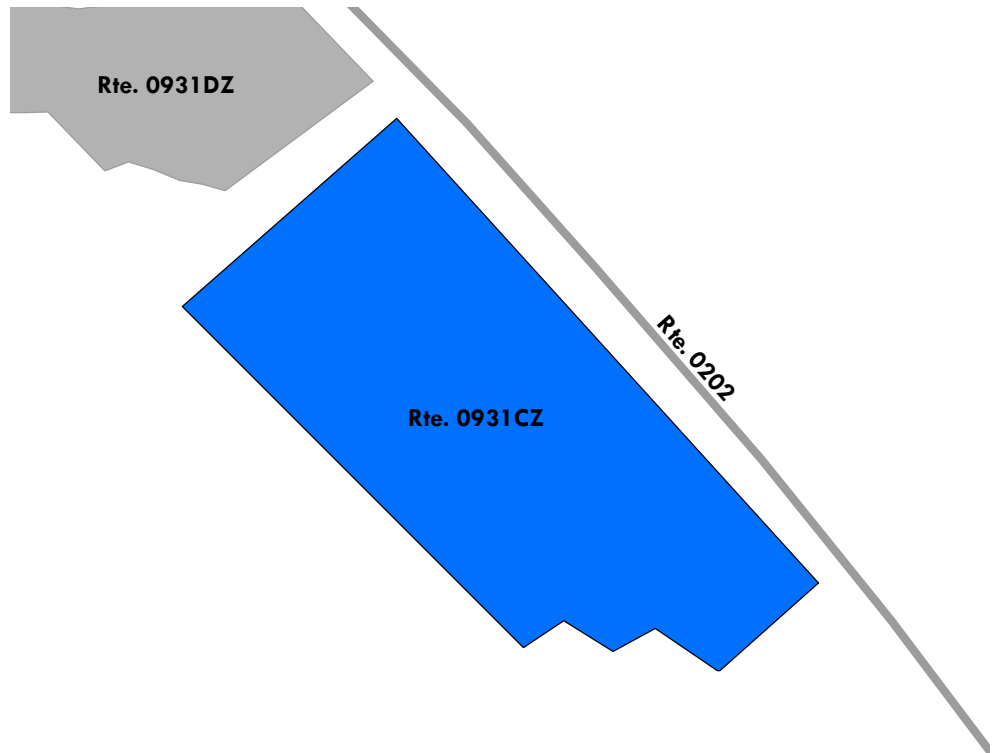
ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD) AT MP 0.20 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50180	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
3,441	0.059	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
DO NOTHING		EXCELLENT / 97	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)
Fair (61- 84)
Good (85 - 94)
Excellent (95 - 100)
Not Rated

See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0931DZ: PICNIC GROUNDS D PARKING

Subcomponent of Route MACA-0931ZZ
Manual Rating

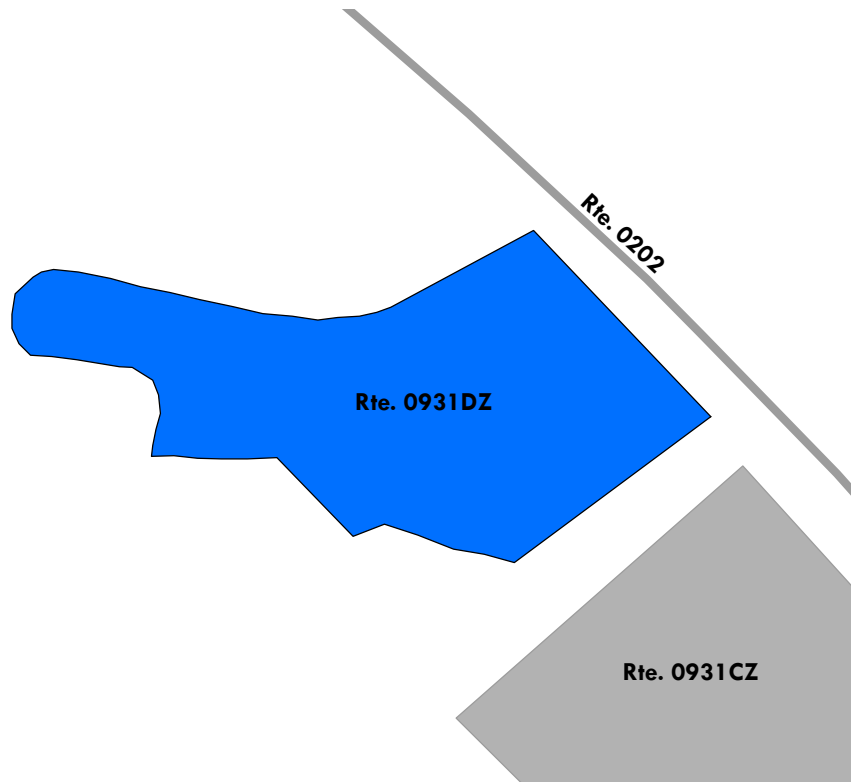
ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD) AT MP 0.21 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50180	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,476	0.025	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
DO NOTHING		EXCELLENT / 97	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)
Fair (61- 84)
Good (85 - 94)
Excellent (95 - 100)
Not Rated

See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0931EZ: PICNIC GROUNDS E PARKING

Subcomponent of Route MACA-0931ZZ
Manual Rating

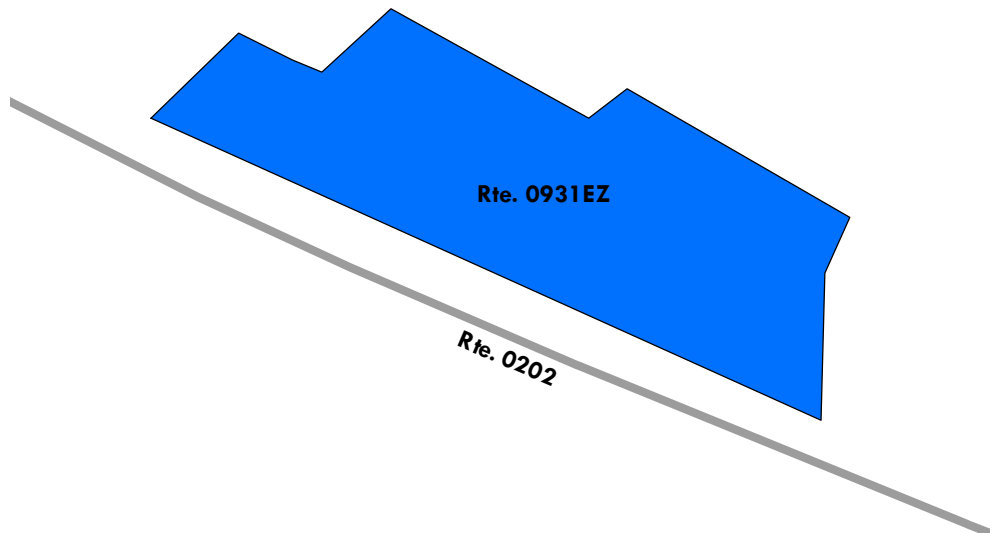
ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD) AT MP 0.38 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50180	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
2,269	0.039	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
DO NOTHING		EXCELLENT / 97	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)
Fair (61- 84)
Good (85 - 94)
Excellent (95 - 100)
Not Rated

See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0931FZ: PICNIC GROUNDS F PARKING

Subcomponent of Route MACA-0931ZZ
Manual Rating

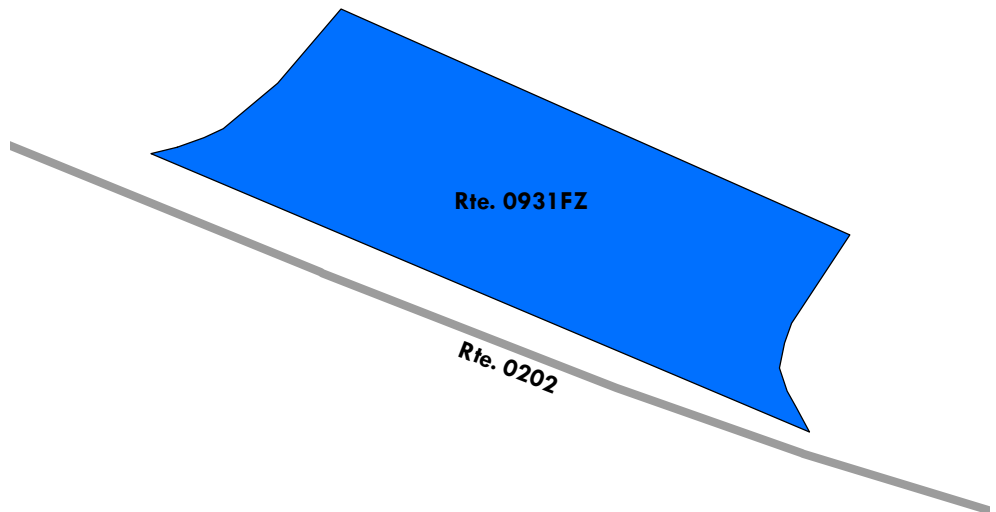
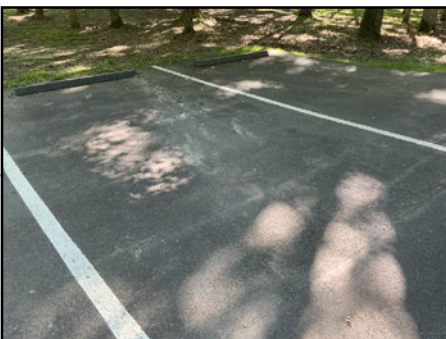
ADJACENT TO ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD) AT MP 0.39 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50180	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,499	0.026	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
DO NOTHING		EXCELLENT / 97	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)
Fair (61- 84)
Good (85 - 94)
Excellent (95 - 100)
Not Rated

See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0946: ADMINISTRATION AREA EMPLOYEE PARKING

Manual Rating

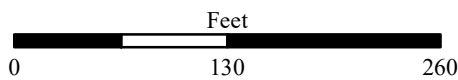
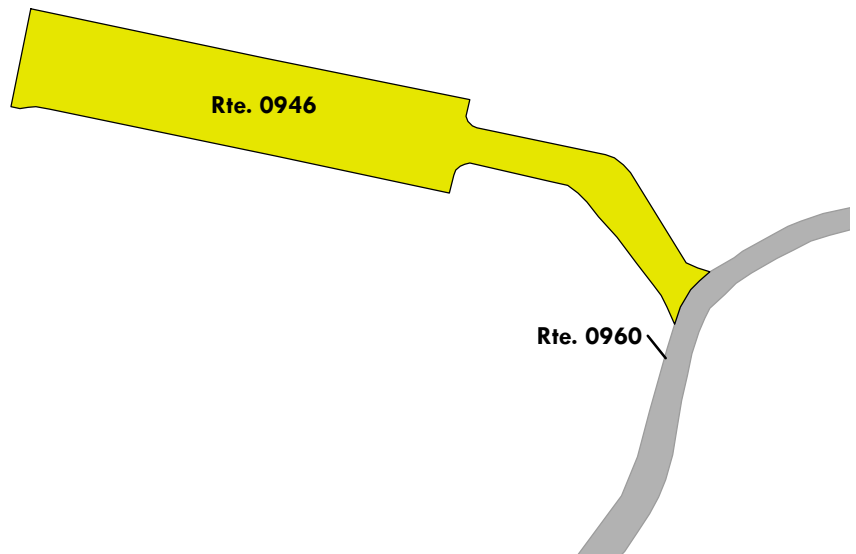
FROM ROUTE 0960 (SUPERINTENDENT OFFICE PARKING)
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	61219	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
16,220	0.279	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
LIGHT 3R TREATMENTS		FAIR / 73	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0947: S & RM #1 PARKING

Manual Rating

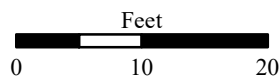
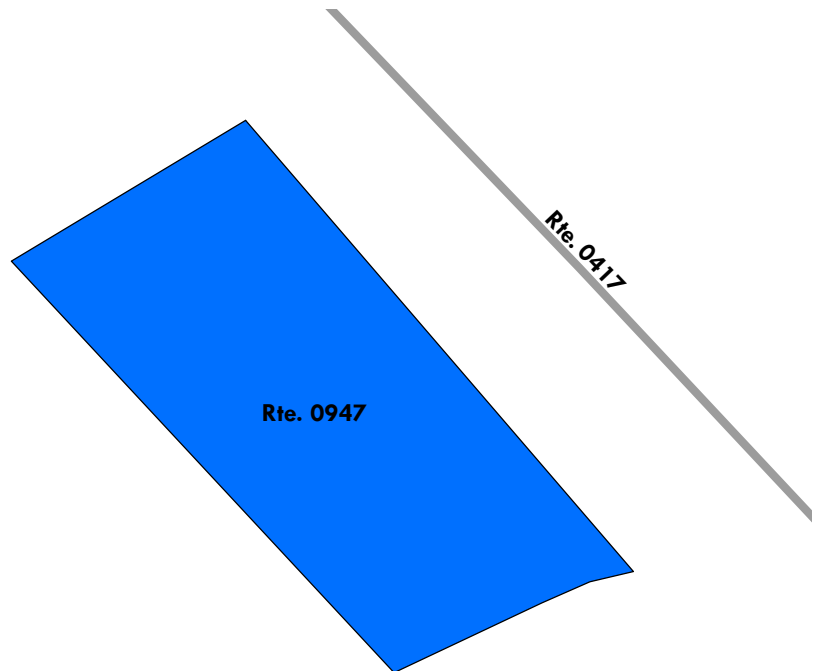
ADJACENT TO ROUTE 0417 (PARK MAINTENANCE ROAD) AT MP 0.41 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50205	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
748	0.013	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
DO NOTHING		EXCELLENT / 97	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0948: S & RM EMPLOYEE #2 PARKING

Manual Rating

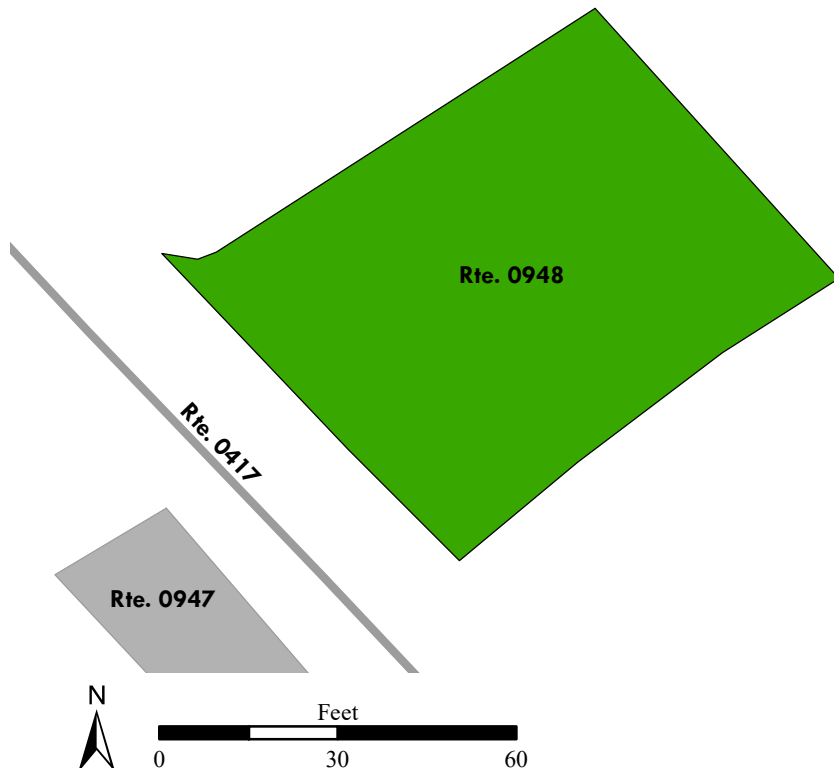
ADJACENT TO ROUTE 0417 (PARK MAINTENANCE ROAD) AT MP ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	83608	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
4,045	0.07	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0949: HQ CAMPGROUND EMPLOYEE PARKING

Manual Rating

FROM ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD) AT MP 0.08 ON LEFT

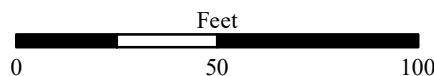
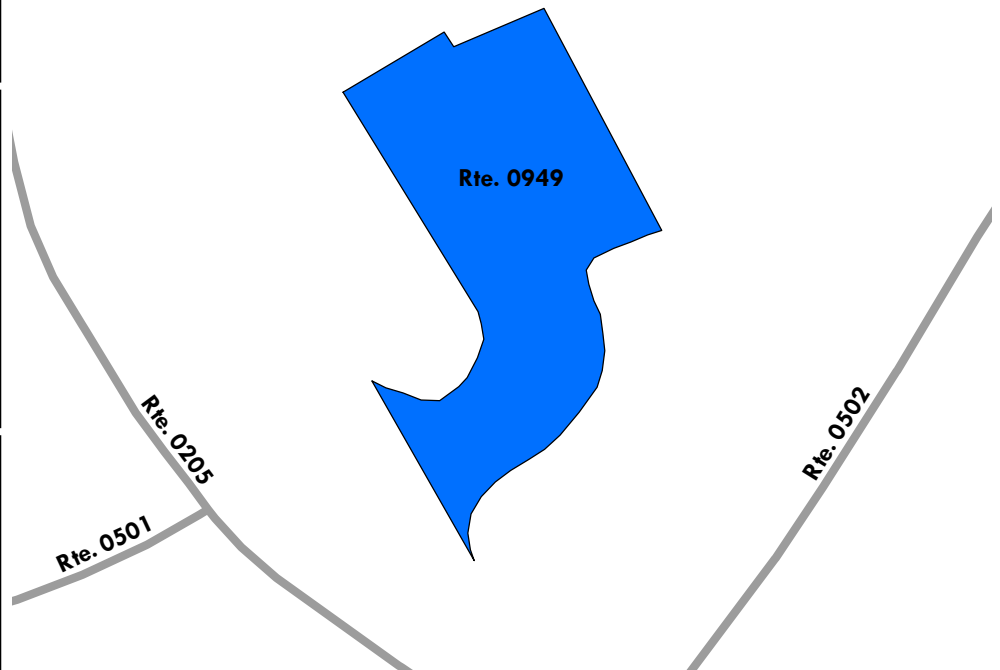
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	86331	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
4,037	0.07	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
DO NOTHING		EXCELLENT / 97	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0951: LOCUST GROVE BIKE TRAIL PARKING

Manual Rating

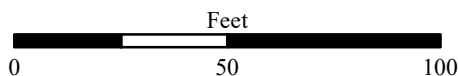
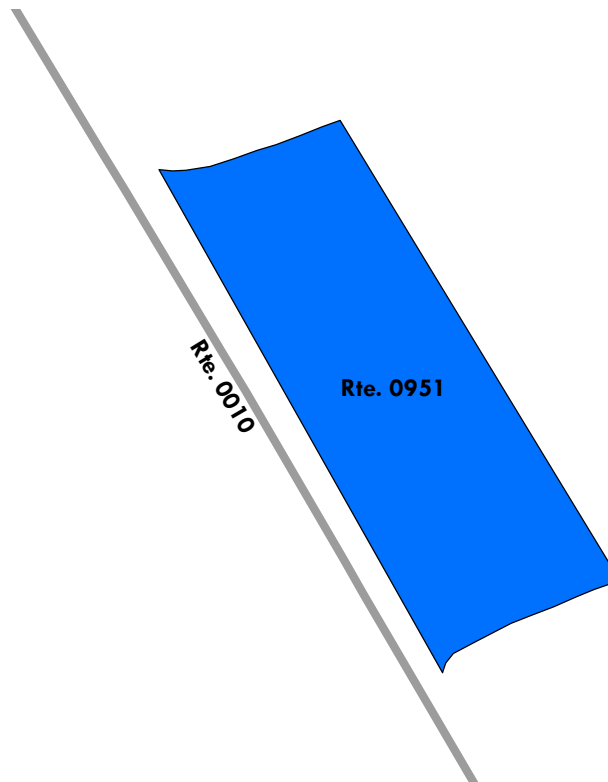
ADJACENT TO ROUTE 0010 (MAMMOTH CAVE PARKWAY)

Inspection Date	FMSS Number	User Access	Surface Type
6/14/2021	113201	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
4,554	0.078	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
DO NOTHING		EXCELLENT / 97	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0955: SEASONAL QUARTERS PARKING

Manual Rating

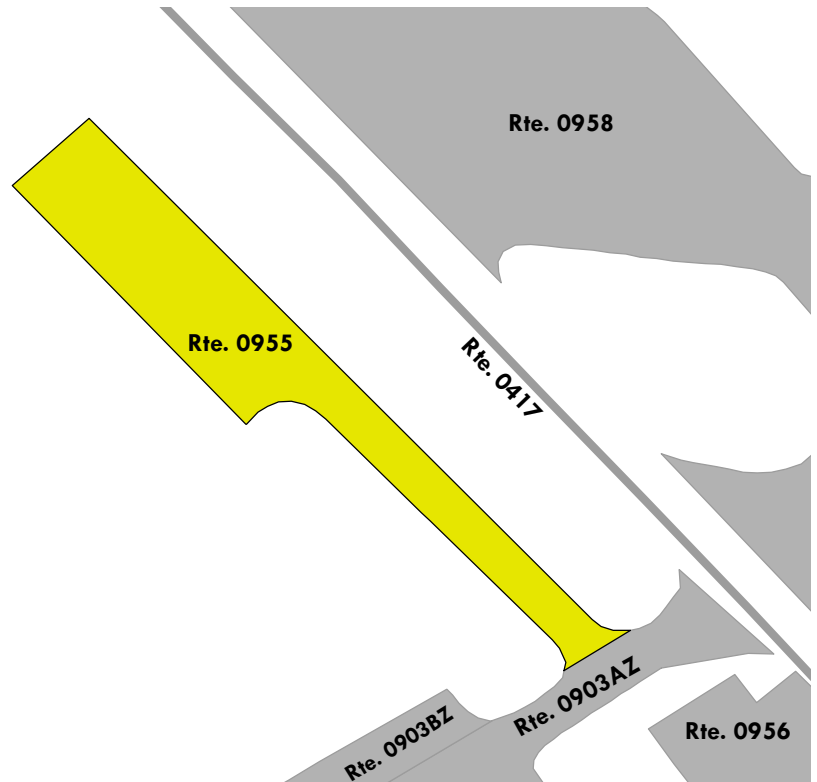
FROM ROUTE 0903ZZ (RANGER TRAINING CENTER PARKING)
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	231791	PUBLIC	CONCRETE
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
6,502	0.112	4	MODERATE REPAIR
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
LIGHT 3R TREATMENTS		FAIR / 73	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0956: FITNESS CENTER PARKING

Manual Rating

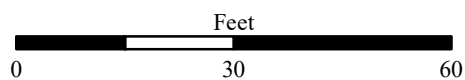
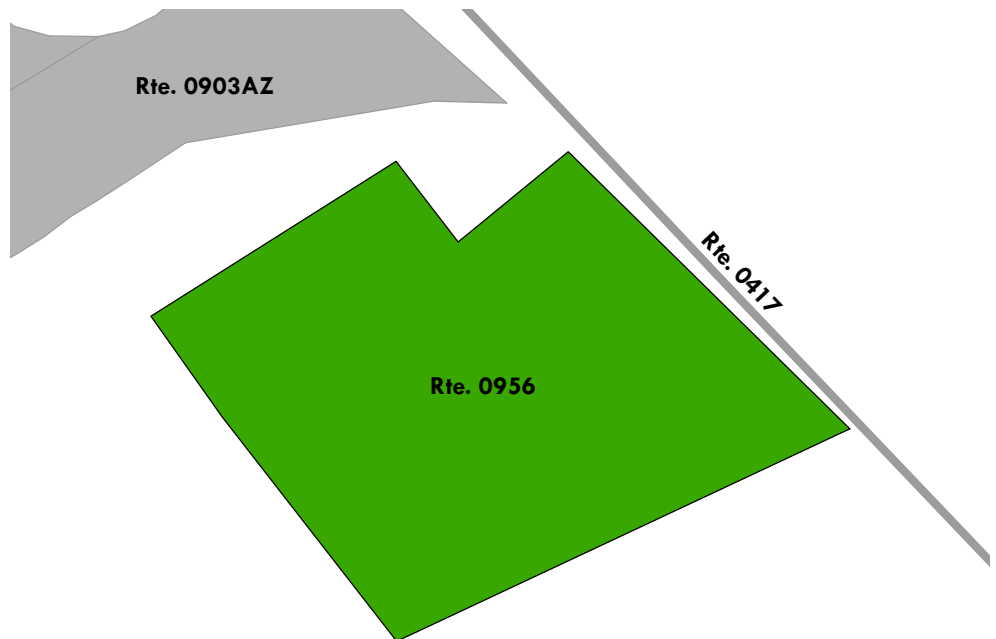
ADJACENT TO ROUTE 0417 (PARK MAINTENANCE ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	231793	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
2,830	0.049	1	MODERATE REPAIR
Curb Type		Curb & Gutter Type	
CONCRETE AND STONE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0957: HERITAGE TRAIL PARKING

Manual Rating

ADJACENT TO ROUTE 0430 (SUNSET LODGE ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	225462	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
821	0.014	9	DO NOTHING
Curb Type		Curb & Gutter Type	
STONE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

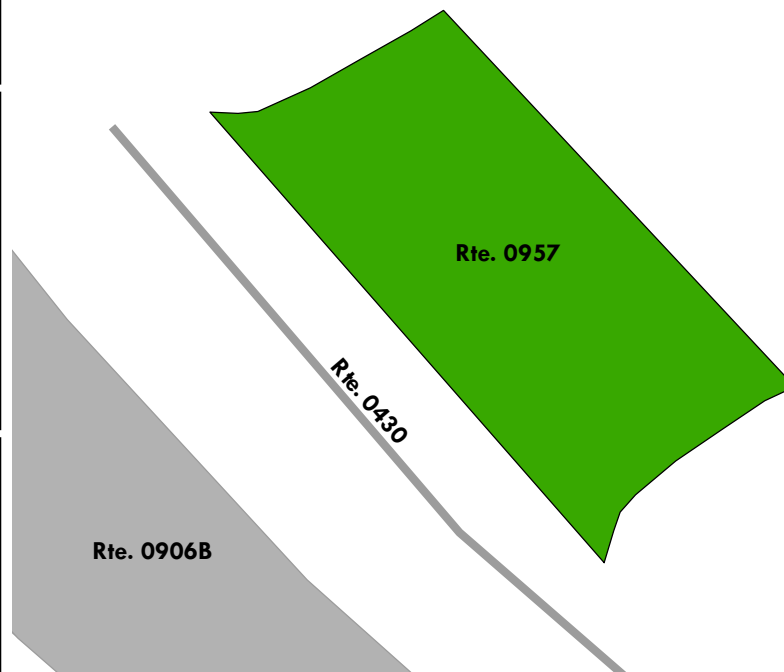
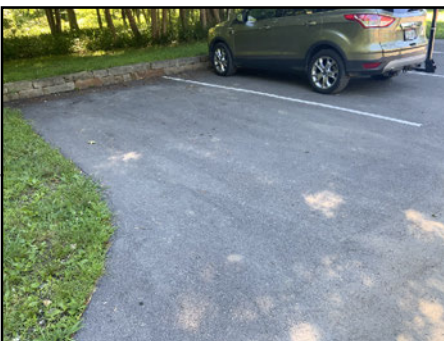
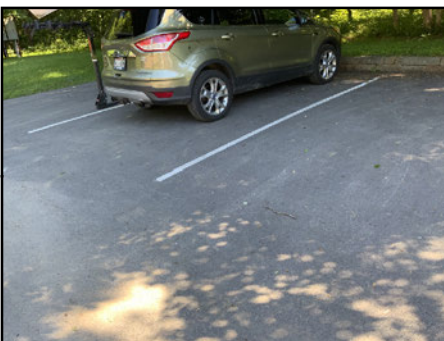
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0958: FUELING/BUS PARKING

Manual Rating

FROM ROUTE 0417 (PARK MAINTENANCE ROAD)

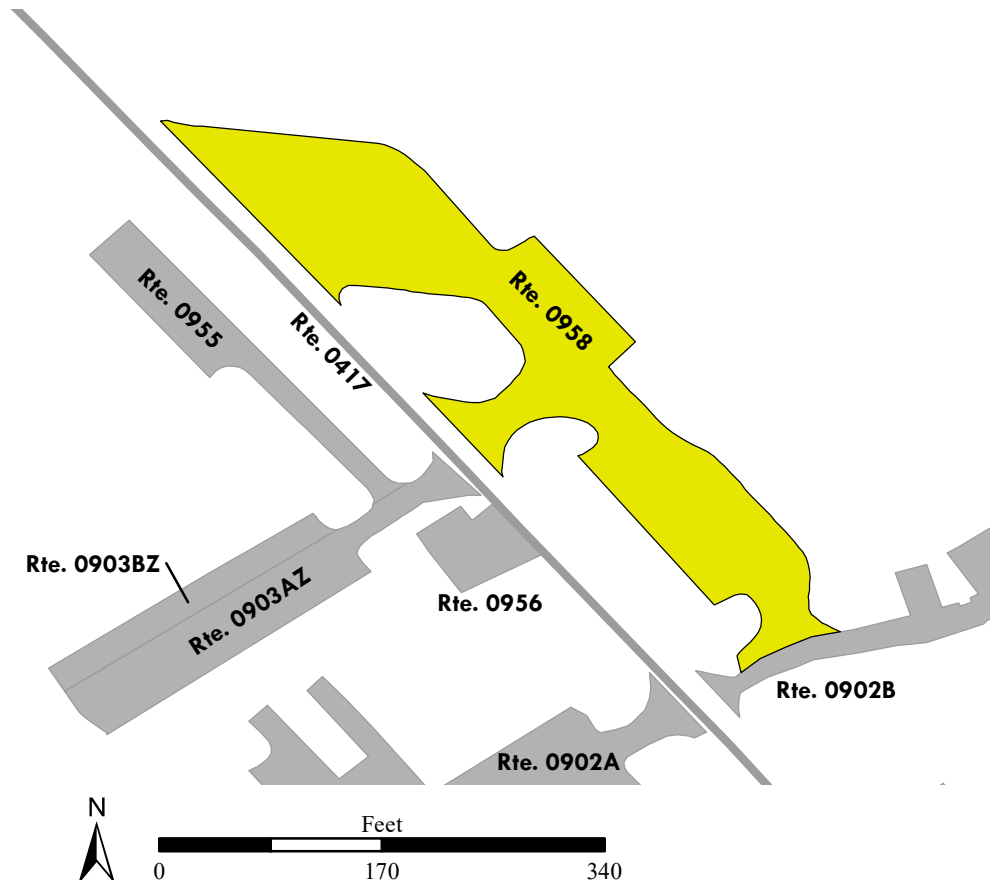
TO ROUTE 0902B (CONCESSION SERVICE PARKING)

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	225463	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
36,817	0.634	NOT APPLICABLE	LIGHT REPAIR
Curb Type		Curb & Gutter Type	
NO CURB		CONCRETE	
Pavement Recommendation		Condition Rating / PCR	
LIGHT 3R TREATMENTS		FAIR / 73	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0959: MAPLE SPRINGS TRAILHEAD PARKING

Manual Rating

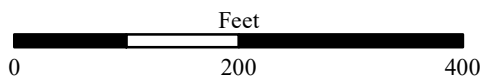
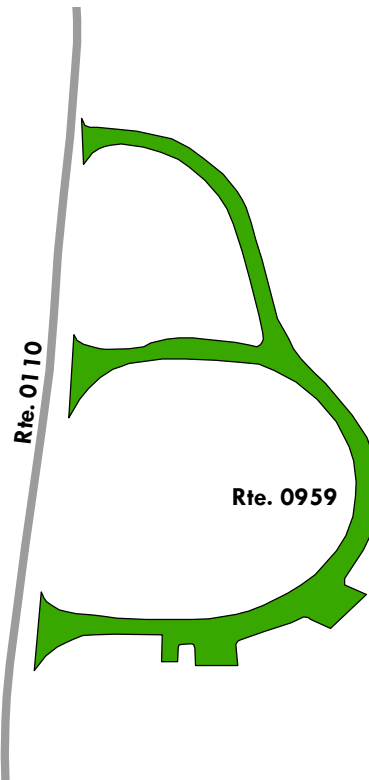
FROM ROUTE 0110 (MAPLE SPRINGS LOOP) AT MP 1.06 ON LEFT
TO ROUTE 0110 (MAPLE SPRINGS LOOP)

Inspection Date	FMSS Number	User Access	Surface Type
6/14/2021	50151	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
16,810	0.289	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Mammoth Cave National Park

ROUTE 0960: SUPERINTENDENT OFFICE PARKING

Manual Rating

FROM ROUTE 0418 (RESIDENCE LOOP ROAD)

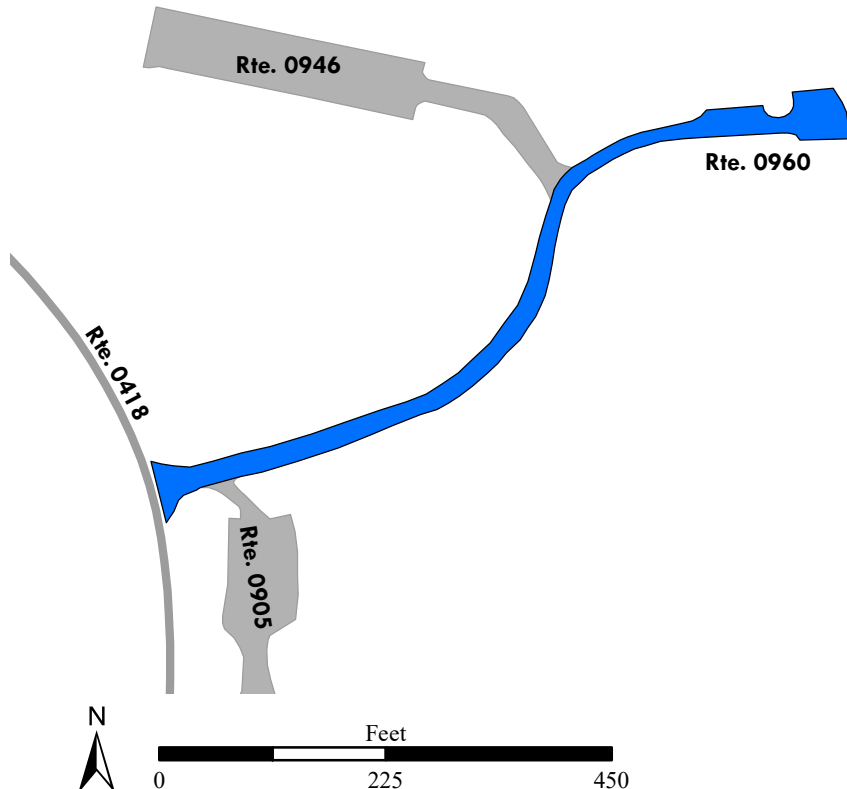
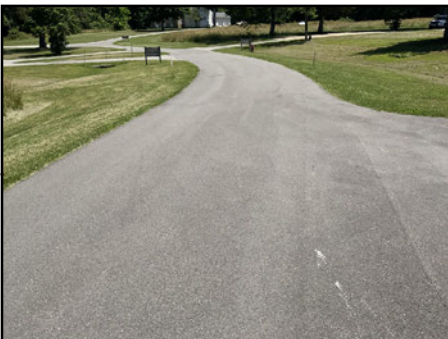
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
6/15/2021	50120	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
14,800	0.255	3	LIGHT REPAIR
Curb Type		Curb & Gutter Type	
STONE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
DO NOTHING		EXCELLENT / 97	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated
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See Appendix for definitions and formulas



Section 7 Road Milepost Information



Mammoth Cave National Park



Federal Lands Highway
Road Inventory Program

Road Milepost Information

This report section contains road milepost information for all paved roads in the park that were collected with the Data Collection Vehicle (DCV). The milepost data is obtained from the DCV by using a distance measuring instrument (DMI) that is calibrated to record mileage to the nearest thousandth of a mile. Park roads that were manually rated did not have milepost data collected, and thus are not included in this report section.

For Cycle 6, the information presented in this section differs from previous RIP cycles in that it does not contain the roadside features inventories for the paved park roads. Some examples of the features previously collected are signs, culverts/drop inlets, guardrails, curbing, pullouts, etc. If the park was collected in a previous RIP cycle, then the latest features data can be obtained by referencing the following:

Where to find the latest Features Inventories for NPS Parks:

- For Small Parks (parks with less than 10 miles of paved roads):
 - Refer to Cycle 5 data (collected 2010 - 2014)
 - Features were reported in Section 9 of the *Cycle 5* RIP report
 - Video of features can be viewed using the *PathViewVO* program and *Cycle 5* data
- For Large Parks (parks with more than 10 miles of paved roads):
 - Refer to Cycle 4 data (collected 2006 - 2009)
 - Features were reported in Section 9 of the *Cycle 4* RIP report
 - Video of features can be viewed using the *VisiData* program and *Cycle 4* data
 - Note: Features inventories were updated in Large Parks in *Cycle 5* only on a route by route basis if the route was new or modified in *Cycle 5*. If this is the case for a particular route, then features for the route can be obtained using the *PathViewVO* program and *Cycle 5* data (same as above for Small parks).

Milepost Events Verified in Cycle 6

In Cycle 6, the following events were collected and reported in Section 7 of this report:

- Intersections with roads and parking areas
- All bridges and culverts with BIP Numbers (bridge inspection program numbers)
- Mile Marker Signs
- One-Way travel directions
- Overpasses
- Tunnels
- Low Water Crossings (LWCR)
- Surface type changes
- Construction areas where no pavement condition data was obtained

GPS Mileage Matching

A consistent survey milepost and constant route length as recorded by the Data Collection Vehicle (DCV) is a challenge to maintain from one collection cycle to the next. The challenge is due to many factors such as driver characteristics, DMI calibration, tire pressure etc. After Cycle 4 (~2010), a decision was made to hold constant the length of roads so long as there was no physical change from reconstruction projects or realignments that would result in a change to the length of a road. Consequently, the “GPS Mileage Match” was implemented to specify which cycle the route length is being matched. Route mileages and GPS are matched to a previous collection whenever there is no physical change to a route alignment. The route mileage and GPS is not matched to previous cycles whenever it is determined that a road length and GPS needs to be updated. When this happens the GPS and length is updated to the cycle that displays the change, and that collection cycle is used as the matching cycle in subsequent collections of the road. Thus, the Cycle 6 GIS could be either the survey length collected in Cycle 4, Cycle 5, or Cycle 6 and therefore, may not match the survey milepost displayed in the latest Cycle 6 DCV video which is viewable in *PathView VO*.

The features inventories and road logs collected on NPS routes contain mileposts that are determined from the corresponding cycle that the GPS is matched to. Therefore, the mileposts contained in the Cycle 4 or 5 features inventories or the Cycle 6 road logs may not exactly match the survey milepost collected in the latest Cycle 6 video of the road.

Locating Mile Marker Signs

For routes that have mile marker signs along them, the milepost reported by RIP will most likely not line up exactly with the sign located in the field. This could be happening for many reasons, most likely due to either the error falling within the acceptable calibration range of the vehicle, or the level of accuracy that the mile marker signs were placed in the field.

Because mile marker signs are important features in many project plans and location descriptions, RIP is reporting locations of mile marker signs in three ways in Cycle 6:

1. Mileposts from Cycle 6 GIS: the official RIP milepost taken from the features inventories and the matching GPS/mileage cycle as described above. This is the milepost that should be used on project plans and when finding locations in the field
2. Mileposts from Cycle 6 Video: milepost shown to help locate the mile marker sign in the latest *PathView VO* video.
3. Latitude / Longitude: a constant way of locating a mile marker sign so long as the park has not moved the sign

The mileposts from Cycle 6 Video and GIS should be nearly the same, but on longer roads it has been observed that the Video milepost deviates more from the official GIS milepost that comes from the matching cycle.

MACA: Route Milepost Log

ROUTE 0010: MAMMOTH CAVE PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	PARK BOUNDARY	N/A	N/A
0.00	0.00	INTERSECTION	N/A	ROUTE 5010 (KENTUCKY STATE HIGHWAY 70/255 (MAMMOTH CAVE PARKWAY EXTENDED))
0.07	0.07	INTERSECTION	L	UNPAVED ROUTE
0.15	0.15	INTERSECTION	L	ROUTE 0020 (MAMMOTH CAVE PARKWAY (PARK CITY ROAD)) SPUR
0.16	0.16	INTERSECTION	L	ROUTE 0020 (MAMMOTH CAVE PARKWAY (PARK CITY ROAD))
0.17	0.17	INTERSECTION	L	ROUTE 0020 (MAMMOTH CAVE PARKWAY (PARK CITY ROAD)) SPUR
0.18	0.18	INTERSECTION	L	ROUTE 0020 (MAMMOTH CAVE PARKWAY (PARK CITY ROAD)) SPUR
0.23	0.23	CULVERT	N/A	N/A
0.31	0.31	CULVERT	N/A	N/A
0.42	0.42	CULVERT	N/A	N/A
0.53	0.53	INTERSECTION	R	ROUTE 0942 (LOCUST GROVE CEMETERY PARKING)
0.58	0.58	INTERSECTION	R	ROUTE 0951 (LOCUST GROVE BIKE TRAIL PARKING)
0.68	0.68	CULVERT	N/A	N/A
0.75	0.75	INTERSECTION	R	ROUTE 0428 (DOYLE VALLEY SERVICE ROAD)
0.83	0.83	CULVERT	N/A	N/A
0.87	0.87	CULVERT	N/A	N/A
1.01	1.01	CULVERT	N/A	N/A
1.11	1.11	CULVERT	N/A	N/A
1.23	1.23	CULVERT	N/A	N/A
1.37	1.37	CULVERT	N/A	N/A
1.46	1.46	CULVERT	N/A	N/A
1.54	1.54	CULVERT	N/A	N/A
1.75	1.75	CULVERT	N/A	N/A
2.12	2.12	CULVERT	N/A	N/A
2.31	2.31	CULVERT	N/A	N/A
2.56	2.56	INTERSECTION	L	ROUTE 0909 (SLOANS CROSSING PICNIC/POND PARKING)
2.59	2.59	CULVERT	N/A	N/A

MACA: Route Milepost Log

ROUTE 0010: MAMMOTH CAVE PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
2.61	2.61	INTERSECTION	L	ROUTE 0909 (SLOANS CROSSING PICNIC/POND PARKING)
2.74	2.74	INTERSECTION	L	ROUTE 0015 (BROWNSVILLE ROAD)
2.78	2.78	CULVERT	N/A	N/A
2.89	2.89	CULVERT	N/A	N/A
3.00	3.00	CULVERT	N/A	N/A
3.13	3.13	CULVERT	N/A	N/A
3.17	3.17	CULVERT	N/A	N/A
3.25	3.25	CULVERT	N/A	N/A
3.30	3.30	CULVERT	N/A	N/A
3.34	3.34	CULVERT	N/A	N/A
3.65	3.65	INTERSECTION	R	ROUTE 0900 (DOYLE VALLEY OVERLOOK)
3.80	3.80	CULVERT	N/A	N/A
3.85	3.85	CULVERT	N/A	N/A
3.94	3.94	CULVERT	N/A	N/A
4.03	4.03	CULVERT	N/A	N/A
4.16	4.16	CULVERT	N/A	N/A
4.25	4.25	CULVERT	N/A	N/A
4.35	4.35	CULVERT	N/A	N/A
4.37	4.37	INTERSECTION	R	ROUTE 0016 (CAVE CITY ROAD)
4.37	4.37	INTERSECTION	L	ROUTE 0201 (CARMICHAEL ENTRANCE ROAD)
4.39	4.39	CULVERT	N/A	N/A
4.64	4.64	CULVERT	N/A	N/A
4.71	4.71	CULVERT	N/A	N/A
5.03	5.03	CULVERT	N/A	N/A
5.06	5.06	CULVERT	N/A	N/A
5.08	5.08	INTERSECTION	R	ROUTE 0417 (PARK MAINTENANCE ROAD)
5.08	5.08	INTERSECTION	L	ROUTE 0013 (GREEN RIVER FERRY ROAD SOUTH)
5.09	5.09	CULVERT	N/A	N/A
5.30	5.30	CULVERT	N/A	N/A

MACA: Route Milepost Log

ROUTE 0010: MAMMOTH CAVE PARKWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
5.36	5.36	CULVERT	N/A	N/A
5.46	5.46	INTERSECTION	L	ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)
5.50	5.50	INTERSECTION	L	ROUTE 0922 (SERVICES PARKING (POST OFFICE/DUMP STATION/GAS))
5.59	5.59	INTERSECTION	L	ROUTE 0012 (HOTEL ENTRANCE ROAD)
5.65	5.65	INTERSECTION	R	ROUTE 0101 (FLINT RIDGE ROAD)
5.74	5.74	INTERSECTION	N/A	ROUTE 0901A (VISITOR CENTER PARKING)

ROUTE 0012: HOTEL ENTRANCE ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
0.00	0.00	INTERSECTION	R	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
0.07	0.07	INTERSECTION	R	ROUTE 0224 (VISITOR CENTER BUS LOOP)
0.12	0.12	INTERSECTION	R	ROUTE 0901B (HOTEL SERVICES PARKING)
0.12	0.12	INTERSECTION	N/A	ROUTE 0908 (MAMMOTH CAVE HOTEL PARKING)

ROUTE 0013: GREEN RIVER FERRY ROAD SOUTH

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
0.00	0.00	INTERSECTION	R	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
0.00	0.00	INTERSECTION	N/A	ROUTE 0417 (PARK MAINTENANCE ROAD)
0.08	0.08	INTERSECTION	R	ROUTE 0431 (POINT X SEWAGE LIFT STATION ROAD)
0.31	0.31	CULVERT	N/A	N/A
0.36	0.36	CULVERT	N/A	N/A
0.39	0.39	CULVERT	N/A	N/A
0.46	0.46	CULVERT	N/A	N/A

Data Collected on 7/2021

MACA: Route Milepost Log

ROUTE 0013: GREEN RIVER FERRY ROAD SOUTH

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.80	0.80	CULVERT	N/A	N/A
0.81	0.81	INTERSECTION	L	ROUTE 0113 (JOPPA RIDGE ROAD)
0.91	0.91	CULVERT	N/A	N/A
1.07	1.07	CULVERT	N/A	N/A
1.10	1.10	CULVERT	N/A	N/A
1.28	1.28	INTERSECTION	R	ROUTE 0915 (GREEN RIVER PARKING)
1.31	1.31	INTERSECTION	N/A	PAVED ROUTE (GREEN RIVER FERRY CROSSING RAMP #1)

ROUTE 0014: GREEN RIVER FERRY ROAD NORTH

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 5014 (GREEN RIVER FERRY ROAD NORTH (NON NPS))
0.00	0.00	PARK BOUNDARY	N/A	N/A
0.16	0.16	CULVERT	N/A	N/A
0.20	0.20	INTERSECTION	R	UNPAVED ROUTE (GATED)
0.38	0.38	INTERSECTION	L	UNPAVED ROUTE
0.52	0.52	CULVERT	N/A	N/A
0.70	0.70	CULVERT	N/A	N/A
0.92	0.92	CULVERT	N/A	N/A
1.08	1.08	CULVERT	N/A	N/A
1.09	1.09	INTERSECTION	R	ROUTE 0110 (MAPLE SPRINGS LOOP)
1.13	1.13	CULVERT	N/A	N/A
1.36	1.36	CULVERT	N/A	N/A
1.54	1.54	CULVERT	N/A	N/A
1.72	1.72	CULVERT	N/A	N/A
1.87	1.87	CULVERT	N/A	N/A
1.90	1.90	CULVERT	N/A	N/A
1.94	1.94	CULVERT	N/A	N/A

Data Collected on 7/2021

MACA: Route Milepost Log

ROUTE 0014: GREEN RIVER FERRY ROAD NORTH

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
2.03	2.03	INTERSECTION	R	ROUTE 0110 (MAPLE SPRINGS LOOP)
2.07	2.07	CULVERT	N/A	N/A
2.12	2.12	CULVERT	N/A	N/A
2.52	2.52	CULVERT	N/A	N/A
2.63	2.63	CULVERT	N/A	N/A
2.93	2.93	CULVERT	N/A	N/A
3.06	3.06	CULVERT	N/A	N/A
3.15	3.15	CULVERT	N/A	N/A
3.18	3.18	CULVERT	N/A	N/A
3.31	3.31	CULVERT	N/A	N/A
3.37	3.37	CULVERT	N/A	N/A
3.44	3.44	CULVERT	N/A	N/A
3.50	3.50	CULVERT	N/A	N/A
3.56	3.56	CULVERT	N/A	N/A
3.63	3.63	CULVERT	N/A	N/A
3.69	3.69	CULVERT	N/A	N/A
3.77	3.77	CULVERT	N/A	N/A
3.80	3.80	CULVERT	N/A	N/A
3.84	3.84	CULVERT	N/A	N/A
3.90	3.90	CULVERT	N/A	N/A
3.93	3.93	CULVERT	N/A	N/A
3.97	3.97	CULVERT	N/A	N/A
4.00	4.00	CULVERT	N/A	N/A
4.03	4.03	CULVERT	N/A	N/A
4.07	4.07	CULVERT	N/A	N/A
4.09	4.09	CULVERT	N/A	N/A
4.13	4.13	CULVERT	N/A	N/A
4.14	4.14	INTERSECTION	R	ROUTE 0950 (NORTH GREEN RIVER FERRY PARKING)
4.18	4.18	INTERSECTION	N/A	PAVED ROUTE (GREEN RIVER FERRY CROSSING RAMP #2)

MACA: Route Milepost Log

ROUTE 0015: BROWNSVILLE ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 5015 (KENTUCKY STATE HIGHWAY 70 (BROWNSVILLE ROAD EXTENSION))
0.00	0.00	PARK BOUNDARY	N/A	N/A
0.00	0.00	INTERSECTION	R	PAVED ROUTE (ELM GROVE CHURCH ROAD / STATE ROUTE 2325 / NON NPS)
0.01	0.01	CULVERT	N/A	N/A
0.12	0.12	CULVERT	N/A	N/A
0.22	0.22	CULVERT	N/A	N/A
0.28	0.28	CULVERT	N/A	N/A
0.44	0.44	CULVERT	N/A	N/A
0.53	0.53	CULVERT	N/A	N/A
0.59	0.59	CULVERT	N/A	N/A
0.71	0.71	CULVERT	N/A	N/A
1.09	1.09	CULVERT	N/A	N/A
1.25	1.25	CULVERT	N/A	N/A
1.30	1.30	INTERSECTION	L	ROUTE 0912 (TURNHOLE BEND NATURE TRAIL PARKING)
1.33	1.33	CULVERT	N/A	N/A
1.55	1.55	CULVERT	N/A	N/A
1.74	1.74	INTERSECTION	R	ROUTE 0102 (CEDAR SINK ROAD)
1.81	1.81	INTERSECTION	R	ROUTE 0400 (CEDAR SINK SERVICE ROAD)
2.18	2.18	CULVERT	N/A	N/A
2.36	2.36	CULVERT	N/A	N/A
2.43	2.43	CULVERT	N/A	N/A
2.47	2.47	CULVERT	N/A	N/A
2.57	2.57	CULVERT	N/A	N/A
2.66	2.66	INTERSECTION	L	ROUTE 0945 (JOPPA CHURCH CEMETERY PARKING)
2.80	2.80	CULVERT	N/A	N/A
2.84	2.84	INTERSECTION	L	ROUTE 0113 (JOPPA RIDGE ROAD)
2.88	2.88	CULVERT	N/A	N/A
2.96	2.96	CULVERT	N/A	N/A

MACA: Route Milepost Log

ROUTE 0015: BROWNSVILLE ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
3.41	3.41	CULVERT	N/A	N/A
3.46	3.46	CULVERT	N/A	N/A
3.62	3.62	CULVERT	N/A	N/A
3.69	3.69	CULVERT	N/A	N/A
4.32	4.32	CULVERT	N/A	N/A
4.43	4.43	INTERSECTION	R	ROUTE 0406 (ROCK QUARRY ROAD)
4.49	4.49	CULVERT	N/A	N/A
4.59	4.59	CULVERT	N/A	N/A
4.86	4.86	CULVERT	N/A	N/A
5.05	5.05	CULVERT	N/A	N/A
5.10	5.10	INTERSECTION	R	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
5.10	5.10	INTERSECTION	L	ROUTE 0010 (MAMMOTH CAVE PARKWAY)

MACA: Route Milepost Log

ROUTE 0016: CAVE CITY ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	PARK BOUNDARY	N/A	N/A
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE (OLD MAMMOTH CAVE ROAD / NON NPS)
0.01	0.01	CULVERT	N/A	N/A
0.02	0.02	INTERSECTION	R	PAVED ROUTE (THE WAYFARER PARKING / NON NPS)
0.04	0.04	CULVERT	N/A	N/A
0.15	0.15	CULVERT	N/A	N/A
0.18	0.18	INTERSECTION	R	ROUTE 0913 (SAND CAVE PARKING)
0.32	0.32	INTERSECTION	R	ROUTE 0106 (PARK RIDGE ROAD)
0.48	0.48	CULVERT	N/A	N/A
0.62	0.62	CULVERT	N/A	N/A
0.68	0.68	INTERSECTION	R	ROUTE 0944 (LITTLE HOPE CEMETERY PARKING)
0.81	0.81	CULVERT	N/A	N/A
1.13	1.13	CULVERT	N/A	N/A
1.14	1.14	INTERSECTION	L	UNPAVED ROUTE
1.23	1.23	INTERSECTION	L	ROUTE 0200 (FROZEN NIAGARA ENTRANCE ROAD)
1.36	1.36	INTERSECTION	L	ROUTE 0433 (MOUNT MCKINLEY UTILITY AREA)
1.43	1.43	CULVERT	N/A	N/A
1.63	1.63	CULVERT	N/A	N/A
1.83	1.83	CULVERT	N/A	N/A
1.91	1.91	CULVERT	N/A	N/A
2.10	2.10	CULVERT	N/A	N/A
2.24	2.24	CULVERT	N/A	N/A
2.43	2.43	CULVERT	N/A	N/A
2.44	2.44	INTERSECTION	R	ROUTE 0420 (ELEVATOR SHAFT ROAD)
2.68	2.68	CULVERT	N/A	N/A
2.90	2.90	CULVERT	N/A	N/A
3.02	3.02	INTERSECTION	N/A	ROUTE 0201 (CARMICHAEL ENTRANCE ROAD)
3.02	3.02	INTERSECTION	L	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
3.02	3.02	INTERSECTION	R	ROUTE 0010 (MAMMOTH CAVE PARKWAY)

MACA: Route Milepost Log

ROUTE 0020: MAMMOTH CAVE PARKWAY (PARK CITY ROAD)

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE (MAMMOTH CAVE PARKWAY / NON NPS)
0.00	0.00	PARK BOUNDARY	N/A	N/A
0.20	0.20	INTERSECTION	R	ROUTE 5601 (DOYLE ROAD)
0.20	0.20	INTERSECTION	L	ROUTE 5602 (ZION CEMETERY ROAD)
0.40	0.40	INTERSECTION	R	ROUTE 0911 (PARK CITY ENTRANCE SIGN PARKING)
0.45	0.45	CULVERT	N/A	N/A
0.54	0.54	CULVERT	N/A	N/A
1.23	1.23	INTERSECTION	R	PAVED PARKING (DIAMOND CAVERNS PARKING / NON NPS)
1.23	1.23	INTERSECTION	L	ROUTE 5603 (SHORT CAVE ROAD)
1.32	1.32	INTERSECTION	R	PAVED PARKING (DIAMOND CAVERNS PARKING / NON NPS)
1.67	1.67	INTERSECTION	R	UNPAVED ROUTE
1.72	1.72	CULVERT	N/A	N/A
1.92	1.92	CULVERT	N/A	N/A
2.05	2.05	INTERSECTION	L	ROUTE 5111 (CEDAR HILL CHURCH ROAD)
2.26	2.26	INTERSECTION	R	ROUTE 0020 (MAMMOTH CAVE PARKWAY (PARK CITY ROAD)) SPUR
2.28	2.28	INTERSECTION	R	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
2.28	2.28	INTERSECTION	L	ROUTE 0010 (MAMMOTH CAVE PARKWAY)

ROUTE 0101: FLINT RIDGE ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
0.00	0.00	INTERSECTION	L	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
0.01	0.01	CULVERT	N/A	N/A
0.04	0.04	CULVERT	N/A	N/A
0.18	0.18	CULVERT	N/A	N/A
0.23	0.23	CULVERT	N/A	N/A
0.75	0.75	CULVERT	N/A	N/A

Data Collected on 7/2021

MACA: Route Milepost Log

ROUTE 0101: FLINT RIDGE ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.77	0.77	CULVERT	N/A	N/A
0.86	0.86	CULVERT	N/A	N/A
1.03	1.03	CULVERT	N/A	N/A
1.08	1.08	INTERSECTION	R	ROUTE 0435 (THREE SPRINGS ROAD)
1.34	1.34	CULVERT	N/A	N/A
1.68	1.68	INTERSECTION	L	ROUTE 0104 (GREAT ONYX CAVE ROAD)
1.98	1.98	INTERSECTION	L	ROUTE 0943 (MAMMOTH CAVE CHURCH PARKING)
2.00	2.00	CULVERT	N/A	N/A
2.02	2.02	INTERSECTION	L	ROUTE 0943 (MAMMOTH CAVE CHURCH PARKING)
3.39	3.39	INTERSECTION	L	ROUTE 0105 (CRYSTAL CAVE ROAD)
3.63	3.63	INTERSECTION	N/A	PAVED ROUTE (FLINT RIDGE ROAD / NON NPS) (GATED)
3.63	3.63	PARK BOUNDARY	N/A	N/A
3.63	3.63	INTERSECTION	R	ROUTE 5106 (PARK RIDGE ROAD (NON-NPS SECTION))

ROUTE 0102: CEDAR SINK ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0015 (BROWNSVILLE ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0015 (BROWNSVILLE ROAD)
0.19	0.19	CULVERT	N/A	N/A
0.21	0.21	CULVERT	N/A	N/A
0.38	0.38	CULVERT	N/A	N/A
0.56	0.56	INTERSECTION	R	UNPAVED ROUTE
0.57	0.57	INTERSECTION	L	ROUTE 0919 (CEDAR SINK TRAILHEAD PARKING)
1.22	1.22	CULVERT	N/A	N/A
1.22	1.22	INTERSECTION	N/A	PAVED ROUTE (NATIONAL PARK ROAD / NON NPS)
1.22	1.22	PARK BOUNDARY	N/A	N/A

MACA: Route Milepost Log

ROUTE 0103: HOUCHINS FERRY ROAD SOUTH

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	UNPAVED ROUTE (NON NPS)
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE (HOUCHINS FERRY ROAD / NON NPS) (GATED)
0.00	0.00	PARK BOUNDARY	N/A	N/A
0.07	0.07	CULVERT	N/A	N/A
0.34	0.34	CULVERT	N/A	N/A
0.46	0.46	CULVERT	N/A	N/A
0.52	0.52	CULVERT	N/A	N/A
0.59	0.59	CULVERT	N/A	N/A
0.61	0.61	CULVERT	N/A	N/A
0.70	0.70	CULVERT	N/A	N/A
0.77	0.77	CULVERT	N/A	N/A
1.05	1.05	INTERSECTION	L	ROUTE 0904B (HOUCHINS FERRY ROAD SOUTH BOAT TRAILER PARKING)
1.06	1.06	INTERSECTION	L	ROUTE 0222 (HOUCHINS FERRY CAMPGROUND ROAD)
1.06	1.06	INTERSECTION	R	ROUTE 0904A (HOUCHINS FERRY ROAD SOUTH PARKING)
1.07	1.07	INTERSECTION	N/A	PAVED ROUTE (HOUCHINS FERRY CROSSING RAMP #1)

ROUTE 0106: PARK RIDGE ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 5.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0016 (CAVE CITY ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0016 (CAVE CITY ROAD)
0.23	0.23	CULVERT	N/A	N/A
0.37	0.37	CULVERT	N/A	N/A
0.45	0.45	CULVERT	N/A	N/A
0.51	0.51	CULVERT	N/A	N/A
0.57	0.57	CULVERT	N/A	N/A

MACA: Route Milepost Log

ROUTE 0106: PARK RIDGE ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 5.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.61	0.61	CULVERT	N/A	N/A
0.66	0.66	CULVERT	N/A	N/A
0.70	0.70	CULVERT	N/A	N/A
0.79	0.79	CULVERT	N/A	N/A
0.83	0.83	CULVERT	N/A	N/A
0.88	0.88	CULVERT	N/A	N/A
0.91	0.91	CULVERT	N/A	N/A
1.26	1.26	PARK BOUNDARY	N/A	N/A
1.26	1.26	INTERSECTION	L	ROUTE 5106 (PARK RIDGE ROAD (NON-NPS SECTION))
1.26	1.26	INTERSECTION	R	PAVED ROUTE (ROY HUNTER ROAD / NON NPS)

ROUTE 0110: MAPLE SPRINGS LOOP

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0014 (GREEN RIVER FERRY ROAD NORTH)
0.00	0.00	INTERSECTION	L	ROUTE 0014 (GREEN RIVER FERRY ROAD NORTH)
0.22	0.22	CULVERT	N/A	N/A
0.50	0.50	INTERSECTION	R	UNPAVED ROUTE (GATED)
0.52	0.52	CULVERT	N/A	N/A
0.63	0.63	CULVERT	N/A	N/A
0.80	0.80	CULVERT	N/A	N/A
0.92	0.92	CULVERT	N/A	N/A
1.01	1.01	INTERSECTION	R	ROUTE 0109 (GOOD SPRING CHURCH ROAD)
1.02	1.02	INTERSECTION	R	ROUTE 0959 (MAPLE SPRINGS TRAILHEAD PARKING)
1.06	1.06	INTERSECTION	L	ROUTE 0959 (MAPLE SPRINGS TRAILHEAD PARKING)
1.10	1.10	INTERSECTION	L	ROUTE 0959 (MAPLE SPRINGS TRAILHEAD PARKING)
1.25	1.25	CULVERT	N/A	N/A
1.26	1.26	INTERSECTION	R	ROUTE 0223 (MAPLE SPRINGS LOOP CAMPGROUND)

MACA: Route Milepost Log

ROUTE 0110: MAPLE SPRINGS LOOP

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
1.34	1.34	INTERSECTION	R	ROUTE 0223 (MAPLE SPRINGS LOOP CAMPGROUND)
1.40	1.40	CULVERT	N/A	N/A
1.53	1.53	CULVERT	N/A	N/A
1.65	1.65	INTERSECTION	L	ROUTE 0434 (LEARNING CENTER ACCESS ROAD)
1.76	1.76	CULVERT	N/A	N/A
1.96	1.96	INTERSECTION	R	ROUTE 0014 (GREEN RIVER FERRY ROAD NORTH)
1.96	1.96	INTERSECTION	L	ROUTE 0014 (GREEN RIVER FERRY ROAD NORTH)

ROUTE 0200: FROZEN NIAGARA ENTRANCE ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 0016 (CAVE CITY ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0016 (CAVE CITY ROAD)
0.03	0.03	CULVERT	N/A	N/A
0.09	0.09	CULVERT	N/A	N/A
0.22	0.22	CULVERT	N/A	N/A
0.43	0.43	INTERSECTION	L	ROUTE 0500 (NEW ENTRANCE LOOP)
0.43	0.43	CULVERT	N/A	N/A
0.45	0.45	INTERSECTION	L	ROUTE 0500 (NEW ENTRANCE LOOP)
0.46	0.46	CULVERT	N/A	N/A
0.63	0.63	CULVERT	N/A	N/A
0.78	0.78	CULVERT	N/A	N/A
0.93	0.93	CULVERT	N/A	N/A
0.98	0.98	CULVERT	N/A	N/A
1.03	1.03	CULVERT	N/A	N/A
1.04	1.04	INTERSECTION	L	ROUTE 0200 (FROZEN NIAGARA ENTRANCE ROAD)
1.04	1.04	ONE-WAY START	N/A	N/A
1.10	1.10	INTERSECTION	N/A	ROUTE 0200 (FROZEN NIAGARA ENTRANCE ROAD)
1.10	1.10	INTERSECTION	L	ROUTE 0200 (FROZEN NIAGARA ENTRANCE ROAD)
1.10	1.10	ONE-WAY END	N/A	N/A

Data Collected on 7/2021

MACA: Route Milepost Log

ROUTE 0201: CARMICHAEL ENTRANCE ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 0016 (CAVE CITY ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
0.00	0.00	INTERSECTION	R	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
0.13	0.13	INTERSECTION	R	ROUTE 0416 (NEW DISCOVERY ROAD)
0.18	0.18	CULVERT	N/A	N/A
0.35	0.35	CULVERT	N/A	N/A
0.46	0.46	CULVERT	N/A	N/A
0.72	0.72	CULVERT	N/A	N/A
0.89	0.89	ONE-WAY START	N/A	N/A
0.89	0.89	INTERSECTION	L	ROUTE 0201 (CARMICHAEL ENTRANCE ROAD)
1.04	1.04	INTERSECTION	L	ROUTE 0201 (CARMICHAEL ENTRANCE ROAD)
1.04	1.04	INTERSECTION	N/A	ROUTE 0201 (CARMICHAEL ENTRANCE ROAD)
1.04	1.04	ONE-WAY END	N/A	N/A

ROUTE 0202: VISITOR CENTER PICNIC GROUNDS ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 0901A (VISITOR CENTER PARKING)
0.05	0.05	INTERSECTION	L	ROUTE 0203 (VISITOR CENTER PICNIC SHELTER ROAD)
0.11	0.11	INTERSECTION	L	ROUTE 0931AZ (PICNIC GROUNDS A PARKING)
0.12	0.12	INTERSECTION	L	ROUTE 0931BZ (PICNIC GROUNDS B PARKING)
0.15	0.15	ONE-WAY START	N/A	N/A
0.15	0.15	INTERSECTION	L	ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD)
0.20	0.20	INTERSECTION	L	ROUTE 0931CZ (PICNIC GROUNDS C PARKING)
0.21	0.21	INTERSECTION	L	ROUTE 0931DZ (PICNIC GROUNDS D PARKING)
0.34	0.34	CULVERT	N/A	N/A
0.38	0.38	INTERSECTION	L	ROUTE 0931EZ (PICNIC GROUNDS E PARKING)
0.39	0.39	INTERSECTION	L	ROUTE 0931FZ (PICNIC GROUNDS F PARKING)
0.45	0.45	ONE-WAY END	N/A	N/A
0.45	0.45	INTERSECTION	L	ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD)
0.45	0.45	INTERSECTION	R	ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD)

Data Collected on 7/2021

MACA: Route Milepost Log

ROUTE 0203: VISITOR CENTER PICNIC SHELTER ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0202 (VISITOR CENTER PICNIC GROUNDS ROAD)
0.01	0.01	CULVERT	N/A	N/A
0.03	0.03	INTERSECTION	R	ROUTE 0907C (PICNIC SHELTER C PARKING)
0.03	0.03	INTERSECTION	L	ROUTE 0907B (PICNIC SHELTER B PARKING)
0.09	0.09	INTERSECTION	R	ROUTE 0907A (PICNIC SHELTER A PARKING)
0.12	0.12	INTERSECTION	R	ROUTE 0907A (PICNIC SHELTER A PARKING)
0.15	0.15	INTERSECTION	L	ROUTE 0203 (VISITOR CENTER PICNIC SHELTER ROAD)
0.15	0.15	ONE-WAY START	N/A	N/A
0.19	0.19	INTERSECTION	R	ROUTE 0203 (VISITOR CENTER PICNIC SHELTER ROAD)
0.19	0.19	INTERSECTION	L	ROUTE 0203 (VISITOR CENTER PICNIC SHELTER ROAD)
0.19	0.19	ONE-WAY END	N/A	N/A

ROUTE 0205: HQ CAMPGROUND ACCESS ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
0.00	0.00	INTERSECTION	L	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
0.01	0.01	INTERSECTION	R	ROUTE 0922 (SERVICES PARKING (POST OFFICE/DUMP STATION/GAS))
0.03	0.03	CULVERT	N/A	N/A
0.05	0.05	INTERSECTION	R	ROUTE 0922 (SERVICES PARKING (POST OFFICE/DUMP STATION/GAS))
0.08	0.08	INTERSECTION	L	ROUTE 0949 (HQ CAMPGROUND EMPLOYEE PARKING)
0.08	0.08	INTERSECTION	R	ROUTE 0501 (VISITOR CENTER CAMPGROUND LOOP D)
0.10	0.10	INTERSECTION	L	ROUTE 0502 (VISITOR CENTER CAMPGROUND LOOP A)
0.10	0.10	INTERSECTION	R	ROUTE 0503 (VISITOR CENTER CAMPGROUND LOOP C)
0.14	0.14	INTERSECTION	R	ROUTE 0503 (VISITOR CENTER CAMPGROUND LOOP C)
0.14	0.14	INTERSECTION	L	ROUTE 0502 (VISITOR CENTER CAMPGROUND LOOP A)
0.15	0.15	CULVERT	N/A	N/A
0.18	0.18	INTERSECTION	R	ROUTE 0504 (VISITOR CENTER CAMPGROUND LOOP B)
0.18	0.18	INTERSECTION	L	ROUTE 0504 (VISITOR CENTER CAMPGROUND LOOP B)

Data Collected on 7/2021

MACA: Route Milepost Log

ROUTE 0223: MAPLE SPRINGS LOOP CAMPGROUND

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0110 (MAPLE SPRINGS LOOP)
0.00	0.00	INTERSECTION	L	ROUTE 0110 (MAPLE SPRINGS LOOP)
0.00	0.00	ONE-WAY START	N/A	N/A
0.24	0.24	CULVERT	N/A	N/A
0.25	0.25	INTERSECTION	L	ROUTE 0110 (MAPLE SPRINGS LOOP)
0.25	0.25	INTERSECTION	R	ROUTE 0110 (MAPLE SPRINGS LOOP)
0.25	0.25	ONE-WAY END	N/A	N/A

ROUTE 0224: VISITOR CENTER BUS LOOP

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 5.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0012 (HOTEL ENTRANCE ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0012 (HOTEL ENTRANCE ROAD)
0.06	0.06	INTERSECTION	L	ROUTE 0224 (VISITOR CENTER BUS LOOP)
0.06	0.06	ONE-WAY START	N/A	N/A
0.23	0.23	ONE-WAY END	N/A	N/A
0.23	0.23	INTERSECTION	L	ROUTE 0224 (VISITOR CENTER BUS LOOP)
0.23	0.23	INTERSECTION	R	ROUTE 0224 (VISITOR CENTER BUS LOOP)

ROUTE 0417: PARK MAINTENANCE ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
0.00	0.00	INTERSECTION	N/A	ROUTE 0013 (GREEN RIVER FERRY ROAD SOUTH)
0.00	0.00	INTERSECTION	L	ROUTE 0010 (MAMMOTH CAVE PARKWAY)
0.05	0.05	CULVERT	N/A	N/A
0.17	0.17	CULVERT	N/A	N/A
0.17				ROUTE 0418 (RESIDENCE LOOP ROAD)

Data Collected on 7/2021

MACA: Route Milepost Log

ROUTE 0417: PARK MAINTENANCE ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.18	0.18	INTERSECTION	R	PAVED DRIVEWAY
0.18	0.18	INTERSECTION	L	ROUTE 0905 (RECYCLING AREA PARKING)
0.29	0.29	INTERSECTION	L	ROUTE 0958 (FUELING/BUS PARKING)
0.33	0.33	INTERSECTION	L	ROUTE 0958 (FUELING/BUS PARKING)
0.33	0.33	INTERSECTION	R	ROUTE 0903AZ (RANGER TRAINING CENTER A PARKING)
0.34	0.34	INTERSECTION	R	ROUTE 0956 (FITNESS CENTER PARKING)
0.37	0.37	INTERSECTION	L	ROUTE 0902B (CONCESSION SERVICE PARKING)
0.37	0.37	INTERSECTION	R	ROUTE 0902A (MAINTENANCE PARKING)
0.41	0.41	INTERSECTION	L	ROUTE 0948 (S & RM EMPLOYEE #2 PARKING)
0.41	0.41	INTERSECTION	R	ROUTE 0947 (S & RM #1 PARKING)
0.42	0.42	INTERSECTION	R	ROUTE 0902A (MAINTENANCE PARKING)
0.46	0.46	INTERSECTION	L	ROUTE 0417 (PARK MAINTENANCE ROAD)
0.58	0.58	INTERSECTION	L	ROUTE 0417 (PARK MAINTENANCE ROAD)
0.58	0.58	INTERSECTION	N/A	ROUTE 0417 (PARK MAINTENANCE ROAD)

ROUTE 0418: RESIDENCE LOOP ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0417 (PARK MAINTENANCE ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0417 (PARK MAINTENANCE ROAD)
0.03	0.03	CULVERT	N/A	N/A
0.04	0.04	INTERSECTION	R	ROUTE 0960 (SUPERINTENDENT OFFICE PARKING)
0.08	0.08	CULVERT	N/A	N/A
0.09	0.09	INTERSECTION	L	ROUTE 0418 (RESIDENCE LOOP ROAD)
0.23	0.23	CULVERT	N/A	N/A
0.29	0.29	CULVERT	N/A	N/A
0.32	0.32	INTERSECTION	L	ROUTE 0418 (RESIDENCE LOOP ROAD)
0.32	0.32	INTERSECTION	R	ROUTE 0418 (RESIDENCE LOOP ROAD)

Data Collected on 7/2021

MACA: Route Milepost Log

ROUTE 0420: ELEVATOR SHAFT ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0016 (CAVE CITY ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0016 (CAVE CITY ROAD)
0.02	0.02	INTERSECTION	L	ROUTE 0420 (ELEVATOR SHAFT ROAD)
0.04	0.04	INTERSECTION	R	ROUTE 0923 (ELEVATOR PARKING)
0.08	0.08	INTERSECTION	L	ROUTE 0420 (ELEVATOR SHAFT ROAD)
0.08	0.08	INTERSECTION	R	ROUTE 0420 (ELEVATOR SHAFT ROAD)
0.08	0.08	CULVERT	N/A	N/A

ROUTE 0430: SUNSET LODGE ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 0908 (MAMMOTH CAVE HOTEL PARKING)
0.03	0.03	INTERSECTION	L	ROUTE 0906A (SUNSET LODGE A PARKING)
0.04	0.04	CULVERT	N/A	N/A
0.08	0.08	INTERSECTION	L	ROUTE 0906B (SUNSET LODGE B PARKING)
0.09	0.09	INTERSECTION	R	ROUTE 0957 (HERITAGE TRAIL PARKING)
0.09	0.09	INTERSECTION	N/A	ROUTE 0432 (SUNSET POINT SEWAGE LIFT STATION ACCESS ROAD)

ROUTE 0500: NEW ENTRANCE LOOP

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 0200 (FROZEN NIAGARA ENTRANCE ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0200 (FROZEN NIAGARA ENTRANCE ROAD)
0.02	0.02	INTERSECTION	R	ROUTE 0500 (NEW ENTRANCE LOOP)
0.02	0.02	INTERSECTION	L	ROUTE 0500 (NEW ENTRANCE LOOP)
0.12	0.12	CULVERT	N/A	N/A
0.15	0.15	INTERSECTION	L	ROUTE 0500 (NEW ENTRANCE LOOP)
0.15	0.15	INTERSECTION	R	ROUTE 0500 (NEW ENTRANCE LOOP)
0.16	0.16	INTERSECTION	R	ROUTE 0200 (FROZEN NIAGARA ENTRANCE ROAD)
0.16	0.16	INTERSECTION	L	ROUTE 0200 (FROZEN NIAGARA ENTRANCE ROAD)

Data Collected on 7/2021

MACA: Route Milepost Log

ROUTE 0501: VISITOR CENTER CAMPGROUND LOOP D

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)
0.00	0.00	INTERSECTION	N/A	ROUTE 0949 (HQ CAMPGROUND EMPLOYEE PARKING)
0.00	0.00	CULVERT	N/A	N/A
0.02	0.02	ONE-WAY START	N/A	N/A
0.02	0.02	INTERSECTION	L	ROUTE 0501 (VISITOR CENTER CAMPGROUND LOOP D)
0.08	0.08	CULVERT	N/A	N/A
0.10	0.10	CULVERT	N/A	N/A
0.26	0.26	INTERSECTION	N/A	ROUTE 0501 (VISITOR CENTER CAMPGROUND LOOP D)
0.26	0.26	ONE-WAY END	N/A	N/A
0.26	0.26	INTERSECTION	L	ROUTE 0501 (VISITOR CENTER CAMPGROUND LOOP D)

ROUTE 0502: VISITOR CENTER CAMPGROUND LOOP A

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	R	ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)
0.00	0.00	INTERSECTION	N/A	ROUTE 0503 (VISITOR CENTER CAMPGROUND LOOP C)
0.14	0.14	INTERSECTION	N/A	ROUTE 0503 (VISITOR CENTER CAMPGROUND LOOP C)
0.14	0.14	INTERSECTION	R	ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)
0.14	0.14	INTERSECTION	L	ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)
0.14	0.14	ONE-WAY END	N/A	N/A

MACA: Route Milepost Log

ROUTE 0503: VISITOR CENTER CAMPGROUND LOOP C

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 0502 (VISITOR CENTER CAMPGROUND LOOP A)
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	L	ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)
0.38	0.38	INTERSECTION	R	ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)
0.38	0.38	INTERSECTION	L	ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)
0.38	0.38	CULVERT	N/A	N/A
0.38	0.38	ONE-WAY END	N/A	N/A
0.38	0.38	INTERSECTION	N/A	ROUTE 0502 (VISITOR CENTER CAMPGROUND LOOP A)

ROUTE 0504: VISITOR CENTER CAMPGROUND LOOP B

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	L	ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)
0.00	0.00	INTERSECTION	N/A	ROUTE 0504 (VISITOR CENTER CAMPGROUND LOOP B)
0.02	0.02	CULVERT	N/A	N/A
0.10	0.10	CULVERT	N/A	N/A
0.41	0.41	INTERSECTION	N/A	ROUTE 0504 (VISITOR CENTER CAMPGROUND LOOP B)
0.41	0.41	ONE-WAY END	N/A	N/A
0.41	0.41	INTERSECTION	L	ROUTE 0205 (HQ CAMPGROUND ACCESS ROAD)

Section 8 Appendix



Mammoth Cave National Park



**Federal Lands Highway
Road Inventory Program**

Improvements to the RIP Index Equations and Determination of PCR

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

In an effort to improve the accuracy of treatment recommendations and pavement condition descriptions the distresses and indexes that comprise the Pavement Condition Rating (PCR), an extensive study was completed throughout 2010 that has resulted in changes to the RIP condition reporting method and specifically, the calculation of PCR. It was determined that a better representation of PCR could be achieved by modifying the relative impact certain distresses would have on the overall rating.

Through the use of HPMA data, it was noted that false failure indicators existed with the existing PCR model, and that it would be necessary to reduce their impact. The distresses affected in this way were Rutting and Roughness. Conversely, experience showed that roadways with extensive cracking present were often shown to have a high PCR. Therefore, the crack index models were adjusted to be more sensitive to changes in crack severity or quantity. It was also determined that these issues were not due to a problem with data acquisition (i.e. the RIP “van”), but with the way the collected data was processed. The final change was to provide guidance on when to use the Roughness Condition Index (RCI) in the PCR calculation. Roughness data is of little value to determining overall condition on routes that, due to their length or geometrics, have lower vehicle operating speeds. Therefore, in Cycle 5, only routes that have lengths of one half mile or greater and posted speed limits of 25 mph or greater will have RCI reported and included in the PCR calculations.

Additionally, methodologies were updated in 2013 for Manually Rated Routes (paved routes that the collection vehicle is unable to drive) as well as Parking Areas to provide more accurate condition data to the HPMA. These updated methodologies allow for the efficient assessment of pavement conditions using a visual inspection method to denote specific distresses. These distresses are indicative of current conditions, the causes for current and future deterioration, and identify the level of targeted repair and rehabilitation practices required.

The changes that were implemented were endorsed by management at both the FHWA and NPS. In order to show the effectiveness of these changes, several sites were ground truth tested in early 2014 to ensure that an improvement was achieved between the relationship of PCR and the actual Maintenance and Rehabilitation needs that were represented. The changes will allow greater use of RIP and HPMA data for not simply condition data reporting, but also as a reliable tool for project identification and selection.

Description of the Rating System

The Federal Highway Administration, National Park Service Road Inventory Program (NPS-RIP), collects roadway condition data on paved surfaces (asphalt, concrete, brick, and cobblestone) on roads, parkways, and parking areas in national parks nationwide. The road surface condition data is collected using an automated Data Collection Vehicle (DCV) and manually using Manually Rated Route (MRR) procedures. Roads having brick or cobblestone surfacing are not normally surveyed with the DCV, but are manually rated for condition rating.

The FHWA RIP is implemented based on the premise that an accurate pavement surface condition assessment can be accomplished using automated crack detection technology as applied to digital images. Various methods of pavement condition assessment have been developed over the years with varying degrees of accuracy and acceptance. The use of digital photography to record pavement images and subsequent crack detection and classification has undergone continuous improvements over the past decade. Digital cameras with increasingly superior resolution and high definition have become more affordable, and the proprietary programming code and algorithms have been improved in crack detection software.

With the use of quality digital photography and automated crack detection software, FHWA RIP is tasked with executing a pavement condition assessment on a network of roughly 5,700 miles of National Park Service roads and parkways. Because a subset of roads will be collected multiple times this cycle, the total collection length will be around 13,000 miles. Foremost in setting up the basis of pavement distress identification is employing the distress identification protocols used by FHWA. There is no single distress identification system that is universal among entities conducting a program of distress identification. For the purpose of the NPS RIP, FHWA employs distress identification protocols that are specific to this program.

FHWA has referenced the “*Distress Identification Manual for the Long-Term Pavement Performance Program*”, Publication No. FHWA-RD 03-031, June 2003, as the point-of-reference for distress types on NPS pavement. In truth, the FHWA RIP distress types are similar to those described in the LTPP manual with some modifications. This document, “*Distress Identification Manual for the NPS Road Inventory Program, Cycle 6, 2014-2020*” was developed using the “*Distress Identification Manual for the Long-Term Pavement Performance Program*” as a guideline. Definitions of severity levels based on crack width contained in this document adhere to the LTPP Distress ID Manual. Modifications have been made to the definition of Alligator and Longitudinal Cracking and determination of Alligator Cracking severity. This manual also addresses Rutting and Roughness and its application to RIP.

Cycle 6 has launched in the spring of 2014 and will again comprise all parks, large and small, that are served by paved roads and/or parking areas. For Cycle 6, roughly 333 large and small parks will have all paved routes and parking areas collected at least once in the cycle, some will have multiple collections depending on the size of the park and the functional class of the route.

This “*Distress Identification Manual for the NPS Road Inventory Program, Cycle 6, 2014-2020*” will be used as a reference resource in crack detection and classification, determination of distress severity and extent, and in the calculation of distress index values for the FHWA RIP Cycle 6.

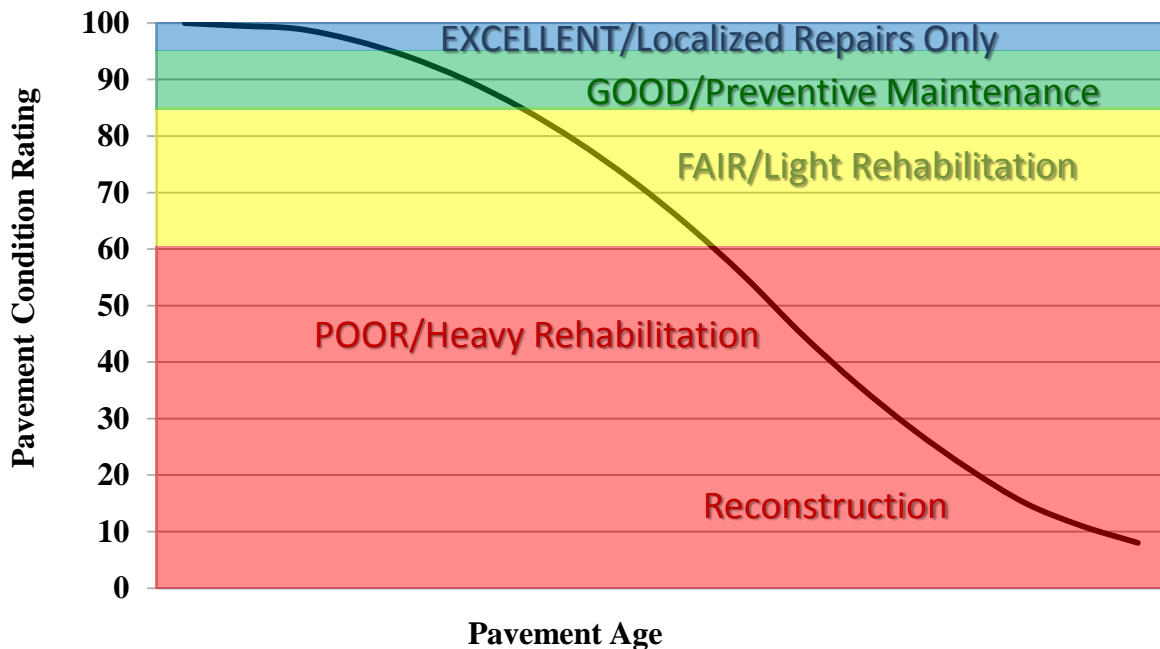
Explanation of the Condition Descriptions

In addition to the RIP Index changes that were implemented in Cycle 5, we will also aim to provide greater assistance in translating good/fair/poor categories into pavement needs categories. The PCR can be used to indicate the place in the Pavement Life Cycle and the types of treatments that should be considered now and into the future.

- Excellent/New: PCR of 95-100. Pavements in this range will require only spot repairs
- Good: PCR of 85-94. Pavements in this range will likely be candidates for preventive maintenance. Examples include Chip and Slurry Seals, Micro Surfacing and Thin Overlays.
- Fair: PCR of 61-84. Pavements in this range will likely be candidates of Light Rehabilitation (L3R). Examples include single-lift overlays up to 2.5 inches in total thickness, milling and overlays.
- Poor: PCR of 60 or below. Pavements in this range will likely be candidates of Heavy Rehabilitation or Reconstruction (H3R or 4R). Examples include Pulverization, Multiple Lift Overlays, and Reconstruction.

At this time, specific maintenance and rehabilitation activities should be evaluated and recommended at the project level. Site-specific conditions that influence treatment type should be determined based on performing a subsurface investigation and/or pavement condition survey, and not be based solely on RIP data. Additionally, RIP produces a snapshot of conditions the year in which the data was collected. For further information or to obtain additional PMS data from our (HPMA) please contact the Eastern Federal Lands pavement team.

Condition Categories and Treatments



Description of Pavement Treatment Types

1. **Preventive Maintenance** is a planned strategy of cost-effective treatments to an existing roadway system and its appurtenances that preserves the system, retards future deterioration, and maintains or improves the functional condition of the system (without significantly increasing the structural capacity). Preventive maintenance is typically applied to pavements in good condition having significant remaining service life. As a major component of pavement preservation, preventive maintenance is a strategy of extending the service life by applying cost-effective treatments to the surface or near-surface of structurally sound pavements. Examples of preventive treatments include asphalt crack sealing, chip sealing, slurry or micro-surfacing, thin and ultra-thin hot-mix asphalt overlay, concrete joint sealing, diamond grinding, dowel-bar retrofit, and isolated, partial and/or full-depth concrete repairs to restore functionality of individual slabs.
2. Pavement Rehabilitation consists of structural enhancements that extend the service life of an existing pavement and/or improve its load carrying capacity. Rehabilitation techniques include restoration treatments and structural overlays. Rehabilitation projects extend the life of existing pavement structures either by restoring existing structural capacity through the elimination of age-related, environmental cracking of embrittled pavement surface or by increasing pavement thickness to strengthen existing pavement sections to accommodate existing or projected traffic loading conditions. Two sub-categories result from these distinctions, which are directly related to the restoration or increase of structural capacity.
 - **Light Rehabilitation (L3R)** - Examples include single-lift overlays up to 2.5 inches in total thickness and milling and overlays for flexible pavements
 - **Heavy Rehabilitation (H3R)** – Requires rehabilitation with grade improvement. H3R stands for resurfacing, restoration, and rehabilitation projects. H3R projects typically involve multi-depth (overlays greater than 2.5 inches) pavement improvement work (short of full-depth replacement) and targeted safety improvements. H3R projects generally involve retention of the existing three-dimensional alignment.
3. **Reconstruction (4R)** is defined as the replacement of the entire existing pavement structure by the placement of the equivalent or increased pavement structure. Reconstruction usually requires the complete removal and replacement of the existing pavement structure. Reconstruction may utilize either new or recycled materials incorporated into the materials used for the reconstruction of the complete pavement section. Reconstruction is required when a pavement has either failed or has become functionally obsolete.

Appendix A

Methodology for Determining Condition Ratings with the Data Collection Vehicle (DCV)

Surface Distresses Identified by the Data Collection Vehicle

Surface Condition Rating – SCR

Surface distresses are measured in the primary lane only. In the classification and measurement of all paved surface condition data, results will be reported in the database in record intervals of 0.02 miles (105.6 feet) (smallest granularity) along the route.

Surface distresses and rutting are determined from digital images that provide both the longitudinal and transverse profile. The images also provide an elevation profile of the road, creating a 3-dimensional image of the paved surface.

- Transverse Cracks
- Longitudinal Cracks
- Alligator Cracks
- Patching/Potholes
- Rutting

Each of the five surface distresses is assigned a computed surface distress index

- Transverse Crack Index
- Longitudinal Crack Index
- Alligator Crack Index
- Patching/Pothole Index
- Rutting Index

Surface distress data are classified as listed above, measured for severity, and quantified for extent. Classification, severity, and extent of these five surface distresses comprise the three main elements for calculation of Surface Condition Rating (SCR).

In addition to the five surface distresses, a Structural Crack Index is computed, which is a combination of the Longitudinal Crack Index and the Alligator Crack Index. The Structural Crack Index is then used in lieu of the LC and AC indices to compute SCR.

Roughness Condition Index - RCI

Additional condition data measured by DCV (lasers and accelerometers)

- Roughness (IRI)

Roughness is measured by FHWA's DCV and reported as International Roughness Index (IRI) in inches/mile. Using IRI, the Roughness Condition Index (RCI) is computed.

Pavement Condition Rating - PCR

Using the SCR (computed from the five surface distresses) and the RCI, an overall Pavement Condition Rating (PCR) is computed. The formula for PCR is:

$$\text{Asphalt PCR} = (0.60 * \text{SCR}) + (0.40 * \text{RCI})$$

$$\text{Concrete PCR} = \text{RCI}$$

A detailed description of each distress index formula, roughness index formula, SCR and PCR is provided in this document.

Each classified surface distress will fall into one or more severity - LOW, MEDIUM, or HIGH based on criteria listed. For each severity, an extent is established based on the measured quantity of the distress within that severity. Within each severity individual distresses are assigned a Maximum Allowable Extent (MAE). For example, LOW severity transverse cracking may be allowed up to 21.1 cracks within a 0.02 mile interval before it reaches MAE and fails.

The index formulas are based on a scale of 0 to 100. A PCR index value of 100 would indicate a “new” road with no measurable distresses or rough ride. A PCR value of 60 is determined to be terminable serviceability and the road is considered failed. The range of index values with condition descriptors is:

POOR = (less than or equal to 60), **FAIR**= (61 – 84), **GOOD**= (85 - 94), **EXCELLENT**= (95 - 100)

Index values are generally computed based on cumulative deducts of the measured severities. As shown in the index formulas below, as any single severity reaches or exceeds MAE, the index computes to a value of 60 or less, and the road fails for that 0.02 interval.

Note: *As a result of a unique combination of measured surface distresses and IRI, index values occasionally compute to less than 0 or greater than 100. In this instance, an index value less than 0 defaults to 0. Index values greater than 100 defaults to 100. For all indices, a higher value indicates a better road condition, and a lower value indicates a poorer road condition.*

On the following page, Table 1 summarizes the different types of distresses measured.

ASPHALT-SURFACED PAVEMENT DISTRESS TYPES WITH RUTTING AND ROUGHNESS				
Distress Type	Units Of Measure	Converted To	Defined Severity Levels?	Measured By
Alligator Cracking	Square Feet	Percent of Lane Per 0.02 Mile	Yes	3 Dimensional pavement imaging system
Transverse Cracking	Linear feet	Number of Cracks Per 0.02 Mile	Yes	3 Dimensional pavement imaging system
Longitudinal Cracking	Linear feet	Percent of Lane Length Per 0.02 Mile	Yes	3 Dimensional pavement imaging system
Patching / Potholes	Square Feet	Percent of Lane Per 0.02 Mile	No	3 Dimensional pavement imaging system
Rutting	Inches	Rut Depth Per 0.02 Mile	Yes	3 Dimensional pavement imaging system
Roughness	IRI	*RCI Per 0.02 Mile	No	DCV – Lasers / Accelerometers

**Note: Roughness is measured on concrete roadways, but surface distresses and rutting are not measured. For concrete, PCR = RCI*

Table 1. Distress summary

Alligator Cracking

Description:

Alligator cracking is considered a combination of fatigue and block cracking. It is a series of interconnected cracks in various stages of development. Alligator cracking develops into a many-sided pattern that resembles chicken wire or alligator skin. It can occur anywhere in the road lane. Alligator cracking must have a quantifiable area.

Severity Levels:

LOW

An area with little to no interconnecting cracks with no visible spalling. Cracks are less than or equal to a mean width of 0.25 in. (6mm). Cracks in the pattern are no further apart than 1 foot (0.328 m). May be sealed cracks with sealant in good condition and a crack width that cannot be determined.

MEDIUM

An area of interconnected cracks that form a complete pattern. Cracks may be slightly spalled. Cracks are greater than 0.25 in. (6 mm) but less than or equal to 0.75 in. (19 mm) or any crack with a mean width less than or equal to 0.75 in. (19 mm) and adjacent low severity cracking. Cracks in the pattern are no further apart than 6 in. (150 mm).

HIGH

An area of interconnected cracks forming a complete pattern. Cracks are moderately or severely spalled. Cracks are greater than 0.75 in. (19mm) or any crack with a mean width less than or equal to 0.75 in. (19mm) and adjacent medium to high severity random cracking.

A combination of observed crack width and crack pattern is used to determine overall severity of alligator cracking. Based on above description of each severity, the highest level of crack width and crack pattern determines overall severity as shown in Table 2.

ALLIGATOR CRACKING SEVERITY LEVELS				
	CRACK SEVERITY	CRACK PATTERN		
		LOW	MED	HIGH
CRACK WIDTH	LOW	LOW	MED	HIGH
	MED	MED	MED	HIGH
	HIGH	HIGH	HIGH	HIGH

Table 2. Alligator Crack Severity Levels

Longitudinal Cracking

Description:

Longitudinal cracking occurs predominantly parallel to the pavement centerline. It can occur anywhere within the lane. Longitudinal cracks occurring in the wheelpath may be noteworthy.

Severity Levels:

LOW

Cracks with a mean width less than or equal to 0.25 in. (6 mm). This also includes sealed cracks with sealant in good condition and a width that cannot be determined.

MEDIUM

Cracks with a mean width greater than 0.25 in. (6 mm) but less than 0.75 in. (19 mm). Also, any crack with a mean width less than 0.75 in. (19 mm) and adjacent random low severity cracking.

HIGH

Cracks with a mean width greater than 0.75 in. (19 mm). Also, any crack with a mean width less than 0.75 in. (19 mm) and adjacent random medium to high severity cracking.

Transverse Cracking

Description:

Transverse cracking occurs predominantly perpendicular to the pavement centerline. It can occur anywhere within the lane.

Severity Levels:

LOW

Cracks with a mean width of less than or equal to 0.25 in. (6 mm). Sealed cracks with sealant in good condition and a width that cannot be determined.

MEDIUM

Cracks with a mean width greater 0.25 in. (6 mm) and less than or equal to 0.75 in. (19 mm). Also, any crack with a mean width less than 0.75 in. (19 mm) and adjacent random low severity cracking.

HIGH

Cracks with a mean width greater than 0.75 in. (19 mm). Also, any crack with a mean width less than 0.75 in. (19 mm) and adjacent random medium to high severity cracking.

Patching and Potholes

Description:

Patching is an area of pavement surface that has been removed and replaced with patching material or an area of pavement surface that has had additional patching material applied. Patching may encompass partial lane or full lane width. On full lane width patching; the total, contiguous length of patch may not exceed 0.100 mi. (0.161 km). (Any full-lane patch exceeding 0.100 mi. in length is considered a pavement change). Patching must have a quantifiable area.

Potholes are bowl-shaped holes of various sizes occurring in the pavement surface.

Manhole covers should not be rated as patches unless there is obvious patching around the manhole.

Speed bumps should not be rated as patches

Severity Levels:

There are no stratified severities for Patching and Potholes. They either are present or they are not.

RUTTING

Description:

Rutting is a longitudinal surface depression in the wheelpath.

Severity Levels:

LOW

Ruts with a measured depth of 0.20 inches to 0.49 inches
Ruts less than 0.20 in. are not included in the distress calculations.

MEDIUM

Ruts with a measured depth of 0.50 inches to 0.99 inches

HIGH

Ruts with a measured depth greater than 1.00 inch

ROUGHNESS

Description:

Roughness is the measurement of the unevenness of the pavement in the direction of travel. It is measured in units of IRI (International Roughness Index), inches per mile, and is indicative of ride comfort.

Severity Levels:

There are no stratified severity levels for roughness. The roughness (or smoothness) of a road surface can be defined by IRI in the following table.

IRI DESCRIPTIONS	
Type of Road	Typical IRI (in/mile)
New Road, no noticeable roughness	<90
Small level of roughness	90 – 126
Road of average roughness	126 – 190
Road with above average roughness	190 – 253
Road with severe roughness	253 – 380
Nearly impassable	>380

Table 3. International Roughness Index

Roughness Collection Parameters

On shorter roads with a lower speed limit the usefulness in collecting and reporting IRI is negligible. Lower, inconsistent speeds can lead to a less accurate IRI value. Therefore RIP has put in place the following protocols for reporting IRI.

International Roughness Index (IRI) is not reported on routes with the following criteria:

- Posted speed limit is less than 25 mph
- Length of route is less than 0.50 miles

When a collected route has a posted speed limit of at least 25 mph and length of at least 0.50 miles, IRI will be collected except on road sections where the speed is less than 20 mph

Other situations may arise where the speed and length factors are met, but reporting IRI could lead to an inaccurate PCR. RIP will determine whether or not it is reasonable to report IRI on these routes on a case by case basis.

Index Formulas

Note: All index formulas listed below contain MAE applicable to 0.02 mile (105.6 feet) interval.

Alligator Crack Index

$$AC_INDEX = 100 - 40 * [(\%LOW / 35) + (\%MED / 15) + (\%HI / 5)]$$

Where:

The values %LOW, %MED and %HI report the percentage of the observed pavement (0.02 mile, primary lane) that contains alligator cracking within the respective severities. These values range from 0 to 100.

%LOW = Percent of total area (primary lane, 0.02 in length), low severity

%MED = Percent of total area (primary lane, 0.02 in length), medium severity

%HI = Percent of total area (primary lane, 0.02 in length), high severity

Percent of total area is computed as:

$$\frac{\text{square foot area of alligator crack severity}}{(0.02 \text{ mile}) * (\text{lane width})}$$

In AC_INDEX, the denominators 35, 15, and 5 are the Maximum Allowable Extents (MAE) for each severity. In other words, we will allow up to 35% of low severity alligator cracking for a 0.02 interval before failure, 15% for medium severity, and so on. As you can see, if any single severity reaches MAE the resulting index value is 60, or failure.

Longitudinal Crack Index

$$LC_INDEX = 100 - 40 * [(\%LOW / 175) + (\%MED / 75) + (\%HI / 25)]$$

Where:

The values %LOW, %MED, and %HI report the length of longitudinal cracking within each severity as a percent of the section length (0.02 mile, primary lane). These values are greater than or equal to 0 and can exceed 100.

%LOW = Percent of interval length (primary lane, 0.02 in length), low severity

%MED = Percent of interval length (primary lane, 0.02 in length), medium severity

%HI = Percent of interval length (primary lane, 0.02 in length), high severity

Percent of interval length is computed as:

$$\frac{\text{length of respective longitudinal cracking}}{(0.02 \text{ mile}) * (105.6 \text{ ft.})}$$

In LC_INDEX, the denominators 175, 75, and 25 are the Maximum Allowable Extents (MAE) for each severity. In other words, we will allow up to 175% of low severity longitudinal cracking for a 0.02 interval before failure, 75% for medium severity, and so on. As you can see, if any single severity reaches MAE the resulting index value is 60, or failure.

Structural Crack Index

$$SC_INDEX = [100 - ((100 - AC_INDEX) + (100 - LC_INDEX))]$$

Structural Crack Index is a combination of Alligator Cracking and Longitudinal Cracking, and is used in the SCR formula in lieu of AC and LC separately.

Transverse Crack Index

$$TC_INDEX = 100 - 40 * [(LOW / 21.1) + (MED / 4.4) + (HI / 2.6)]$$

Where:

The values LOW, MED and HI report a count of the total number of transverse cracks (reported to three decimals) within each severity level, where one transverse crack is equal to the lane width. These values are greater than or equal to 0.

LOW = Number of cracks in interval (primary lane, 0.02 in length), low severity

MED = Number of cracks in interval (primary lane, 0.02 in length), medium severity

HI = Number of cracks in interval (primary lane, 0.02 in length), high severity

Number of cracks is computed as:

$$\frac{\text{Total length of transverse cracks}}{\text{Lane width}}$$

In TC_INDEX, the denominators 21.1, 4.4, and 2.6 are the Maximum Allowable Extents (MAE) for each severity. In other words, we will allow up to 21.1 low severity transverse cracks for a 0.02 interval before failure, 4.4 cracks for medium severity, and so on. As you can see, if any single severity reaches MAE the resulting index value is 60, or failure.

Patching Index

$$PATCH_INDEX = (100 - 40) * (\%PATCHING / 80)$$

Where:

The value %PATCHING reports the percentage of the observed pavement (0.02 mile, primary lane) that contains patching/potholes. This value ranges from 0 to 100.

%PATCHING = Percent of total area (primary lane, 0.02 in length)

Percent of total area is computed as:

$$\frac{\text{square foot area of patching/potholes}}{(0.02 \text{ mile}) * (\text{lane width})}$$

There are no severity levels for patching. It either exists or does not.

There are no severity levels for patching. It either exists or does not. In PATCH_INDEX, the denominator 80 is the Maximum Allowable Extent (MAE) for each severity. In other words, we will allow up to 80% patching for a 0.02 interval before failure. As you can see, if patching/potholes reaches MAE the resulting index value is 60, or failure.

Rutting Index

$$\text{RUT_INDEX} = 100 - 40 * [(\% \text{LOW} / 535) + (\% \text{MED} / 205) + (\% \text{HI} / 40)]$$

Where:

20 rut depth measurements are taken per 0.02 interval for each of 2 wheel paths (left and right), resulting in a total of 40 measurements taken for both wheel paths. Each wheelpath is analyzed independently for rut severities. The values %LOW, %MED and %HI report the percentage of the 40 measurements within that severity. These values range from 0 to 200.

%LOW = Percent of LOW ruts in left wheelpath based on 20 ruts, plus percent of LOW ruts in right wheelpath based on 20 ruts.

%MED = Percent of MED ruts in left wheelpath based on 20 ruts, plus percent of MED ruts in right wheelpath based on 20 ruts.

%HI = Percent of HI ruts in left wheelpath based on 20 ruts, plus percent of HI ruts in right wheel path based on 20 ruts.

Percent of rut measurements within each severity can also be computed as:

$$\frac{\text{(total number of ruts within each severity in both wheelpaths)}}{20} \times 100$$

In RUT_INDEX, the denominators 535, 205, and 40 are the Maximum Allowable Extents for each severity; Low, Medium, and High, respectively. Only the MAE for high severity rutting can fail a section, since 200% of *only* low severity ruts would yield a rut index of 85 and 200% of *only* medium severity ruts would yield a rut index of 61.

Roughness Condition Index (Asphalt)

$$\text{RCI} = 32 * [5 * (2.718282^{(-.0041 * \text{AVG IRI}))}]$$

Where:

The value AVG IRI reports the average value of the Left IRI and Right IRI measurements for the interval (0.02 mile, primary lane). This value can range from approximately 40 to 999.0.

Average IRI is computed as:

$$\frac{(\text{Left wheelpath IRI}) + (\text{Right wheelpath IRI})}{2}$$

There is no applicable threshold for failure for this index.

Roughness Condition Index (Concrete)

$$\text{RCI} = (-0.0012)(\text{IRI}^2) + (0.0499)(\text{IRI}) + 99.542$$

For concrete, PCR = RCI

Surface Condition Rating Index

SCR = Lowest Index Value Of: [SC_INDEX, TC_INDEX, PATCH_INDEX, RUT_INDEX]

Note: The modified SCR equation above combines AC_INDEX and LC_INDEX, and considers that a single AC/LC index value of the Structural Crack Index (SC_INDEX). The lowest of the four computed index values (SC_INDEX, TC_INDEX, PATCH_INDEX, or RUT_INDEX) becomes the SCR.

Where:

See above for determinations of SC_INDEX, TC_INDEX, PATCH_INDEX and RUT_INDEX.

The threshold for failure for this index is SCR = 60. Data Collection Vehicle Subsystems

Data on paved roads is collected by FHWA using a Pathway Services Inc. Data Collection Vehicle (DCV), called a PathRunner. The DCV is driven in the primary-direction lane at posted speed limits and less.

Cameras

Forward-facing and rear-facing video is collected as jpeg digital imagery files at a frequency of every 26.4feet.

Two forward-facing cameras are mounted above the vehicle cab, one pointed straight ahead and the other to the right shoulder providing seamless roughly 120 degree viewing. A third camera is mounted in the rear of the vehicle, recording the left shoulder.

CAMERA SPECIFICATIONS TWO FORWARD / ONE REAR FACING CAMERA	
Camera lens/type	Prosilica GT 2750 (GigE Technology)
Image format	*.jpg
Image resolution	2750 x 2200, 18 frames/second
Image pixel size	depends on distance
Zoom ratio	16mm Fixed
Iris range	Aperture Range F 1.8 – Infinity (P-Iris, Automatic)

Pavement Imaging and Rutting

High resolution rutting data and surface imaging are collected in a single data stream using a three-dimensional (3D) pavement surface transverse profile data acquisition system. The 3D camera captures a laser line as it is projected over the pavement surface and uses the location of this line to measure the height deviations of the pavement surface. These height deviations can be used to calculate rutting in both wheelpaths. These deviations also provide a grayscale image detailing the change in height throughout the surface, i.e. providing depth measurements for cracking.

THREE-DIMENSIONAL PAVEMENT SURFACE AND TRANSVERSE PROFILE DATA ACQUISITION SYSTEM	
Surface Image Specifications	
Image size	1536 pixels/scan @ 3000 Hz
Image width	4 meters (3950 mm nominal)
Laser class	3B
Power	16W (Two lasers @ 8W Ea)
Vehicle speed limitations	62 mph
Environment	Dry pavement, day or night
Sensor size (approximate)	1536 pixels x 512 pixels
Image display length	26.4 feet
Rutting Specifications	
Reported rut depth units	Inches
Vehicle speed limitations	Up to 62 mph
Sampling rate	3000 profiles/second
Transverse resolution	1536 points/profile
Transverse field-of-view	14 feet
Depth accuracy (nominal)	<1mm
Environment	Dry pavement, day or night, above 32 degrees F
Adherence to specifications	ASTM E1703M-95 (reapproved 2005)

Distance Measuring Instrument (DMI)

The DMI (Distance Measuring Instrument) obtains road length measurements that are accurate to 0.15% for speeds up to 60 mph. The DMI is connected to the hub of the rear wheel on the driver's side, and is calibrated to the revolutions of the rear vehicle axle on a regular basis.

Roughness (IRI)

IRI SPECIFICATIONS	
Reported IRI units	Inches/mile
Vehicle speed limitations	12-62 mph
IRI equipment certification	Texas Transportation Institute (TTI)
Wavelengths accommodated	0.5 feet to 300 feet
IRI computed & reported	World Bank Technical Paper Number 46
Environment	Dry pavement, day or night, above 32 degrees
Adherence to specifications	ASTM E950 Class 1 & AASHTO M 328

The collection system includes a South Dakota type laser profiler manufactured based on active Class 1 ASTM E950 standards. The dynamic profile of the pavement surface is collected from which the IRI roughness data is computed. The sensors include one accelerometer on each wheelpath, one height sensor (laser) on each wheelpath, and a distance transducer.

GPS & Inertial Systems

GPS is collected by an onboard system employing Omnistar real time correction and a spinning gyroscope to provide accurate positioning data in instances of satellite obstruction. All GPS coordinates are tied to an image and linear distance measurements.

GPS SPECIFICATIONS	
Static accuracy	Sub-meter
Dynamic accuracy	2-3 meters
Receiver	12 satellite tracking
Coordinate system	Lat Lon WGS 84
Environment	Day or night
Cross-slope	± 1.75%
Grade	± 1.75%
Adherence to specifications	ASTM E1703M-95 (reapproved 2005)

*NOTE – GPS accuracy is dependent on many different factors. Satellite constellation, tree coverage, GPS receiver quality, and real-time correction availability can all affect the locational and elevation accuracies. The elevation (z coordinate) accuracy is less dependable than locational or horizontal accuracy (x/y coordinates or latitude/longitude). In areas of heavy tree coverage or poor satellite constellations, elevation data can vary by as much as +/- 100 feet.

Appendix B

**Methodology for Determining Condition Ratings
Using Manual Rating Procedures**

Description of Manual Rating Methods

In 2013, the Federal Highway Administration updated existing Manual Rating Procedures in an effort to better align pavement conditions for Manually Rated Routes and Parking with the Highway Pavement Management Application (HPMA). HPMA is the Pavement Management System used by the FHWA to store inventory and condition data from the Road Inventory Program (RIP) and forecast future performance using prediction models. HPMA uses pavement condition data (collected by the Road Inventory Program) to develop life cycles for pavements and recommend treatments to maximize useable pavement life while minimizing costs associated with maintenance and repair.

The Federal Highway Administration (FHWA) developed a set of manual rating methods for pavement that are appropriate for Federal Roadways. Two different methods were developed for linear roads and a separate method was developed for parking areas and nonlinear roads. These methods employ a 0 to 100 rating scale and improve consistency and objectivity in the manual evaluation of surface distresses. They are compatible with ratings that are collected by the automated Data Collection Vehicle (DCV).

- The first of the two manual evaluation methods for roads uses rating criteria to assign index values to each distress type based on a visual evaluation of severity and extent.
- The second manual evaluation method for roads is very time demanding and is best employed on only a select set of routes which may have the highest visitor use and require a more intensive assessment. This method will be used for the Manual Rating of Function Class 1, 2, 7, and 8 Roads. This method is based on measurements that are recorded for each instance of a surface distress. These measurements are converted into index values using conversion formulas.
- Parking areas and non-linear roads are rated similar to the first method shown above, however, there are some slight differences due to the non-linear nature.

The details and criteria used for each of these rating methods are outlined below.

Visual Inspection Method for Manually Rating Secondary Roads

The visual inspection method for manually rated roads uses condition rating criteria that have been developed by FHWA. This criteria is based on a visual evaluation of the severity and extent of distresses to determine the overall condition of the roadway. This method is used for secondary roads that are Functional Class 3, 4, 5, and 6. This constitutes the majority of manually rated roads collected by the Road Inventory Program.

Rating Section Lengths

For this method, Manually Rated Roads are rated in sections. These sections may be made based on length of changes in surface type or condition as described below. The ratings are then aggregated to give an overall rating for the Route:

- Rating sections should be no longer than 0.25 miles in order to keep the area being rated manageable.
- A new rating section may be started based on changes in condition, width, or surface type if these changes represent a significant portion of the route (are not isolated instances).
- If the road condition, width, and surface type remain constant then new sections do not need to be created unless the road exceeds 0.25 miles.

Rating Criteria

For this method, Manually Rated Roads are evaluated using a visual inspection of the six distress types listed below. Each distress is assigned one of five index values. An overall Surface Condition Rating (SCR) and Pavement Condition Rating (PCR) are calculated based on these index values.

- Alligator Cracking
 - Rating based on percentage of road surface affected
- Longitudinal Cracking
 - Rating based on severity level (crack width) and percentage of road section length of longitudinal cracks
- Transverse Cracking
 - Rating based on crack width, crack spacing, and percentage of surface affected
- Patching
 - Rating based on percentage of road surface affected
- Rutting
 - Rating based on percentage of road section length affected by visible rutting (>1 inch depth) that requires remediation
- Roughness
 - Manual assessments of roughness are not made due to the subjectivity of the measurement. Therefore, roughness is not incorporated into the PCR calculation of manually rated roads.

Concrete Routes also receive a PCR rating based on visual evaluation of the following six distress types.

- Slab Faulting at Joints
- Slab Cracking and breakup
- Surface Delamination and Pop-outs
- Joint Distresses
- Patching

Distress Measurement Method for Manually Rating Primary Roads

A more intensive and time demanding assessment than our standard method was developed for Primary roads that are functional class 1, 2, 7, or 8. These high visitation roads are usually accessible by the automated Data Collection Vehicle but in rare instances may need to be manually rated. The method developed is based on measuring each instance of a distress. These measurements are totaled over each section length being measured and are then converted into index values between 0 and 100 (100 being a road with no distress) using index formula equations outlined below. The goal of this method is to produce measured index values which are directly comparable to the automated DCV.

Rating Section Lengths

For the distress measurement method roads are broken into sections in order to rate. Distress measurements are totaled for each section separately in order to determine the index value for that particular section. The section length to be rated is determined based on the following rules:

- Rating sections are between 0.25 and 0.50 miles long
- A new rating section is created if there is a significant change in condition or pavement width
- If there are no significant changes in condition or pavement width, rating sections are broken at equal intervals, typically 0.50 miles

Manual Distress Measurements

Alligator Cracking

- Alligator cracking is measured by area (square feet). Instances of Alligator cracking are measured along the length and multiplied by the average width of the distressed area.
- The index for alligator cracking takes the total area of cracking compared to the interval length and converts it to a percentage. That percentage is then input into an index formula that yields a value between 0 and 100 (0 being the most distressed).
- Severity levels are not defined for manually measured Alligator cracks. The Alligator Crack Index formula is calculated based on an assumption of medium severity.

Longitudinal Cracking

- Longitudinal cracking (cracking in the direction parallel to the roadway) is measured by length (ft.).
- The index for longitudinal cracking takes the total length of cracking compared to the interval length and converts it to a percentage broken down by severity. That percentage is then input into a formula that yields a value between 0 and 100 (0 being the most distressed).
- Two severity levels are defined for manually measured Longitudinal Cracks. Lower severity cracks are those with a mean width of less than 0.25 inches. Sealed cracks with sealant in good condition are also considered lower severity. Higher severity cracks are those with a mean width of greater than 0.25 inches.

Transverse Cracking

- Transverse cracking (cracking in the direction perpendicular to the roadway) is measured by length (ft).
- The index for transverse cracking takes the total number of cracks (1 crack would encompass the full lane) broken down by severity. The total numbers of each severity are then put into a formula that yields a value between 0 and 100 (0 being the most distressed).
- Two severity levels are defined for manually measured Transverse Cracks. Lower severity cracks are those with a mean width of less than or equal to 0.25 inches. Sealed cracks with sealant in

good condition are also considered lower severity. Higher severity cracks are those with a mean width of greater than 0.25 inches.

Patching and Potholes

- Patching and Potholes are measured by area (square feet). Instances of Patching are measured along the length and multiplied by the average width of the patch.
- Instances of full lane width patching cannot be longer than 0.100 miles, otherwise it should be considered a pavement change rather than a distress.
- There are no stratified severities for Patching. It is either present or it is not.

Rutting

- Visible rutting is measured by length (ft.) in each wheel path. Only visible ruts are rated, which are ruts greater than 1 inch deep.
- All rutting recorded in a manual rating is considered to be high severity (> 1 inch). Lesser severities are generally not distinguishable in a visual inspection.

Roughness

- Manual assessments of roughness are not made due to the subjectivity of the measurement. Therefore, roughness is not incorporated into the PCR calculation of manually rated roads.

Index Formulas for Distress Measurement Method:

The method used to convert distress measurements into index values is shown below. The Surface Condition Rating and Pavement Condition Rating are calculated based on these index values.

Alligator Crack Index for Manual Rating:

$$AC_INDEX = 100 - 40 * (\%ALLIGATOR / 15)$$

Where:

%ALLIGATOR = Percent of total area of section being rated that contains Alligator cracking.

Longitudinal Crack Index for Manual Rating:

$$LC_INDEX = 100 - 40 * [(\%LOW / 175) + (\%MED / 75)]$$

Where:

%LOW = Percent length of longitudinal cracks where crack width less than or equal to 0.25 inches

%HIGH = Percent length of longitudinal cracks where crack width greater than 0.25 inches

Transverse Crack Index for Manual Rating:

$$TC_INDEX = (100 - 40) * [(LOW / 21.1) + (MED / 4.4)]$$

Where:

LOW = Count of the total number of transverse cracks within the section length where one transverse crack is equal to the lane width and the crack width \leq 0.25 inches

HIGH = Count of the total number of transverse cracks within the section length where one transverse crack is equal to the lane width and the crack width $>$ 0.25 inches

Number of cracks is computed as:
Total length of transverse cracks/Lane width

Patching Index for Manual Rating:

$$\text{PATCH_INDEX} = (100 - 40) * (\% \text{PATCHING} / 80)$$

Where:

%PATCHING = Percentage of pavement section that contains patching/potholes.

Rutting Index for Manual Rating:

$$\text{RUT_INDEX} = 100 - 40 * (\% \text{RUTTING} / 40)$$

Where:

%RUTTING = Percentage length of high severity rutting within the section being measured.

Method for Manually Rating Paved Parking Areas and Non-Linear Roads

Parking areas are evaluated based on a visual inspection using condition rating criteria that has been developed by FHWA. This criteria is based on a visual evaluation of the severity and extent of distresses to determine the overall condition of the parking area. This overall condition rating is linked to the level of repair and rehabilitation practices required.

A distress index is determined for each of the distresses listed below for Asphalt and Concrete Parking areas. The overall Pavement Condition Rating (PCR) of the parking lot is driven by the most severe distress present.

Rating Criteria:

Asphalt Parking Distress Types

- Alligator Cracking
 - Rating based on percentage of road surface affected
- Longitudinal, Transverse and Block cracking
 - Rating based on crack width, crack spacing, and percentage of surface affected
- Rutting and Distortions
 - Rating based on percentage of road surface affected
- Hot Mix Asphalt Patches
 - Rating based on overall percentage of HMA patches
- Potholes and Cold Patches
 - Rating based on percentage of road surface affected
- Surface Raveling and Bleeding
 - Rating based on percentage of road surface affected

Concrete Parking Distress Types

- Slab Faulting at Joints
 - Rating based on height differential between adjacent slabs or pieces of broken slabs
- Slab Cracking and breakup
 - Rating based on quantity of cracks and if slab is acting to able distribute load as designed
- Surface Delamination and Pop-outs
 - Rating based on percentage of road surface affected to include pop-outs, spalls and surface delamination
- Joint Distresses
 - Rating based on sealant condition and concrete distresses at/or adjacent to joints
- Patching
 - Rating based on percentage of road surface affected

Curb Inspection and Treatments

During inspections of manually rated parking lots and routes, the curb reveal and overall curb condition are evaluated. The curb condition is used to determine a recommendation.

Curb Reveal

The vertical distance on the curb face from the gutter flow line or pavement surface to the top of curb. When resurfacing adjacent to curb, the resulting curb reveal should be no less than 4 inches. Additionally, when resurfacing adjacent to a gutter, the resulting pavement surface should be flush with the gutter pan. In cases where a resurfacing would violate either of these parameters, the surface may need to be milled or removed to adjust to these field conditions.

Curb Recommendations

The following treatment categories are based on the overall percentage of distresses along the entire curb structure for a specific pavement structure. Distresses include spalling, cracking, loss of material and any other damage which prevents the curb from conveying storm runoff or failing to perform in its intended function.

- Overall curb damage ranging 0%-5%:
 - DO NOTHING
- Overall curb damage ranging 5%-20%
 - LIGHT REPAIR
- Overall curb damage ranging 20%-50%
 - MODERATE REPAIR
- Overall curb damage greater than 50%:
 - REPLACE

GPS for Manually Rated Roads and Parking

GPS information for Manually Collected Cycle 6 Routes will be recorded using the latest hardware and software by TRIMBLE 6000 Series GeoXT. Cycle 6 GPS collection units will allow access to GPS and GLONASS, improving overall GPS reliability, accuracy and precision to submeter accuracy.

Additionally, the new GPS units have an enhanced ability to collect accurate signals underneath tree cover or adjacent to buildings or natural terrain with extreme vertical gradations that typically reduce GPS accuracy. Trees and buildings create “satellite shadows”, limiting the areas where you can reliably collect high-accuracy GPS data. The updated GPS receiver will deliver improved usable data under tree canopy or in natural or urban canyons. Routes that were previously collected accurately will not be recollected in Cycle 6.

TRIMBLE 6000 SERIES GeoXT GPS SPECIFICATIONS	
Receiver	Trimble Maxwell™ 6 GNSS chipset
Channels	220 channels
Systems	GPS / GLONASS / WAAS
Accuracy	Sub-meter
Operation Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Cellular and Wireless	UMTS / HSDPA / GPRS / EDGE / Wi-Fi / Bluetooth
Internal Still Camera w/ GEOTAG ability	Autofocus 5 MP (JPG) and WMV w/ Audio

Appendix C
Description of Cycle 6 Deliverables

Final Report Delivery

The Final Report will contain all data collected by Manual Inspection and the Data Collection Vehicle. All information provided in the Interim Report will be included in the Final report. Manually collected information reported in the Interim Report may be updated in the Final Report if pavement conditions have substantially changed between the Manual Inspection and Data Collection Vehicle Inspection or other unforeseen circumstances.

The final report will be released approximately 8 months after the Data Collection Vehicle completes its collection of that specific park.

Data included in the Final Report package consists of the following:

- **Condition Photos:** All photos taken during Cycle 6.
- **Data Video:** Data and video of each route collected by the DCV will be viewable through PATHVIEW software. PATHVIEW Software and training will be provided to NPS personnel by Eastern Federal Lands.
- **GPS on All Rated Routes:** All GPS data collected from the DCV will be provided. Parking areas, some roads, and other paved areas that are not fully drivable with the DCV are collected manually by field technicians. GPS is collected for these routes using portable Trimble GPS units.
 - GPS will be provided as Shapefiles and KMLs
 - All GPS data related to road collection will be linear referenced to the collected length
- **Geodatabase – Background and Metadata:** In addition to this park report, a geodatabase containing both tabular and spatial data specific to this park has been provided.
 - All data disseminated in the preceding report has been obtained from the tables and fields within said geodatabase. The geodatabase can be referenced for tabular data via Microsoft Access or for both tabular and spatial data via ESRI's ArcGIS Suite of software which consists of; ArcMap, ArcCatalog and ArcExplorer.
 - Consolidating the RIP data into one database creates a seamless relationship of tables and geographic data. It allows RIP to facilitate easier updates and enhancements in the future. A geodatabase can be thought of as simply a database containing spatial data. A complete and thorough description of the tables and fields contained within this geodatabase can be found in the metadata. The metadata is attached directly within the geodatabase and can be accessed via ESRI's ArcCatalog.
- **Report (RIP Report and Route ID):** A PDF report will be provided that includes a list of all routes and key data. Condition reports for each route will be included. All changes, additions and deletions to any route will be included in the report. Features along routes will not be collected in Cycle 6.

Partial DCV Collections

Additional Partial DCV Collections may be done on specific parks depending on their size and overall mileage of routes within its boundaries during Cycle 6. Parks with greater than 10 miles of paved roadways will receive at least one additional Partial DCV collection during Cycle 6. Data collected during these Partial DCV Collections will not result in the delivery of an additional report to the park.

Data collected by the DCV during Partial DCV Collection will be used to improve HPMA modeling by providing additional “snapshots in time” of park pavement conditions. This improved HMPA modeling will assist in the programming and budgeting of future projects which will help maximize the life of pavement infrastructures.

Instead of receiving a report of conditions collected during the Partial DCV collection, the park will receive a formal letter from the Road Inventory Program requesting coordination for the additional Partial DCV collection, identifying the dates of the Partial DCV Collection and will reinforce the purpose and importance of the Partial DCV Collection.

Appendix D
Glossary of Terms and Abbreviations

Glossary of Terms and Abbreviations

TERM OR ABBREVIATION	DESCRIPTION OR DEFINITION
AC	Alligator Cracking
CRS	Condition Rating Sheets (Section 5)
Curb Recommendation	Curb remediation based on overall percentage of curb distress
Curb Reveal	Height of curb exposed from gutter flow line to top of curb
DCV	Data Collection Vehicle
Excellent	Excellent rating with an index value of 95 to 100
Fair	Fair rating with an index value from 61 to 84
FUNCT_CLASS	Functional Classification (see Route ID, Section 2)
Good	Good rating with an index value from 85 to 94
IRI	International Roughness Index
HPMA	Highway Pavement Management Application
Lane Width	Width from road centerline to fogline, or from centerline to edge-of-pavement when no fogline exists
LC	Longitudinal Cracking
MRR	Manually Rated Route
MRL	Manually Rated Line
MRP	Manually Rated Polygon
N/A	Not Applicable
NC	Not Collected
PATCH	Patching and Potholes
Paved Width	Width from edge-of-pavement to edge-of-pavement
PCR	Pavement Condition Rating
PKG	Parking Area
Poor	Poor rating with an index value of 0 to 60
RCI	Roughness Condition Index
SC	Structural Cracking
SCR	Surface Condition Rating
TC	Transverse Cracking