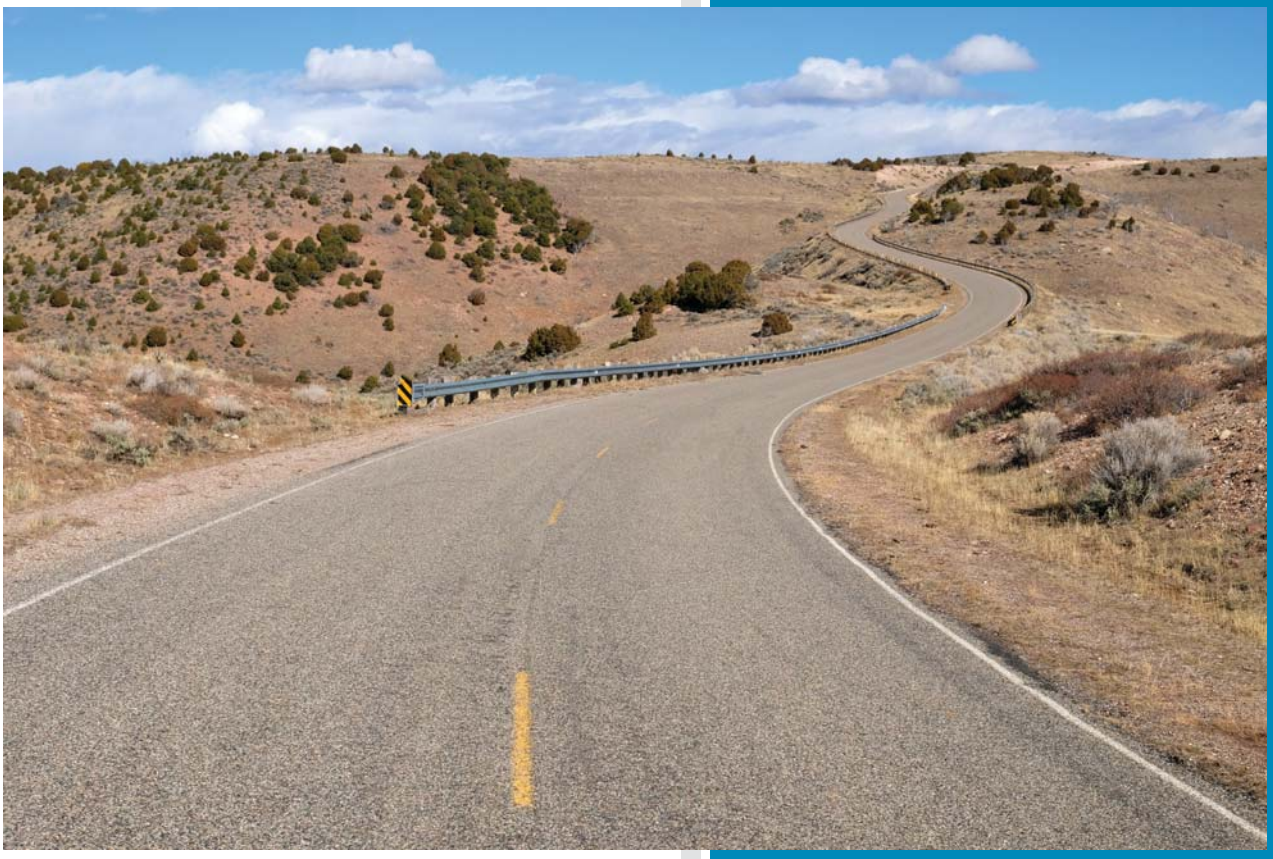
DINO
Cycle 6

Final Report

Road Inventory and Condition Assessment of Paved Routes
Dinosaur National Monument

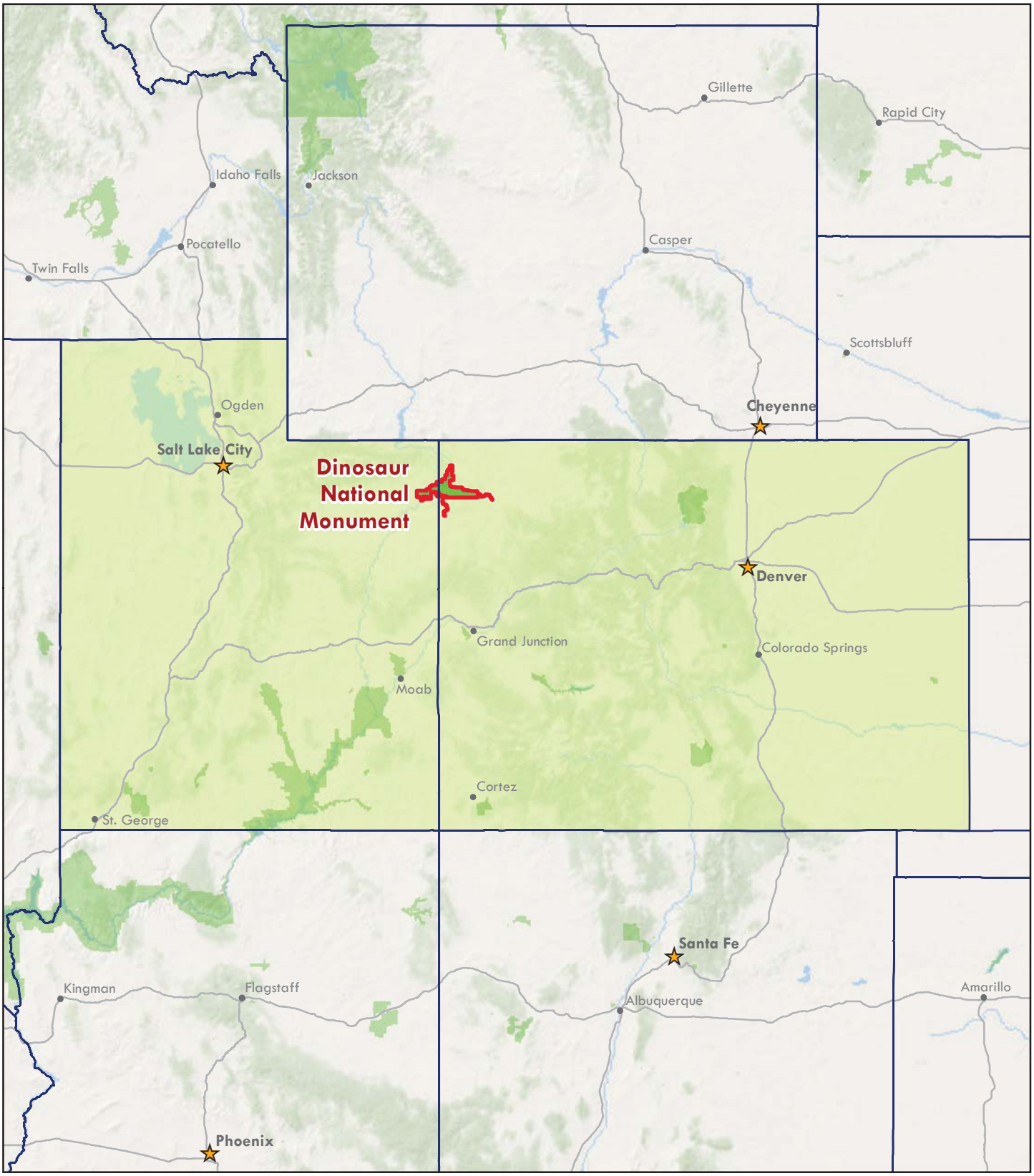


Federal Lands Highway
Road Inventory Program

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

Report Date: June 2018

Dinosaur National Monument
in
Colorado and Utah



Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors

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Section 1
Introduction

Dinosaur National Monument

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 Sterling, Virginia.

Respectfully,

FHWA RIP Team

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Section 2
Park Route Inventory

Dinosaur National Monument

Federal Lands Highway
Road Inventory Program

Report Date: 06/10/2018

Cycle 6 NPS / RIP Route ID Report

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

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DINO *Dinosaur National Monument*

ROAD INVENTORY (1100 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description From	Route Description To	Maintenance District	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)	Surf. Type	Area Map
0010	6	1	69461		GRD MAIN ENTRANCE ROAD	FROM PARK BOUNDARY AT CATTLEGUARD BEFORE PARK ENTRANCE SIGN	TO PAVEMENT END AT MORRIS CABIN ROAD	GREEN RIVER	YES	9.81	0.00	9.81	1		AS	1,1A, 1B,1C
0011	6	1	68897		HARPERS CORNER ROAD	FROM U.S. HIGHWAY 40	TO END OF LOOP AT HARPERS CORNER	YAMPA	YES	31.88	0.00	31.88	1		AS	2,2A, 2B
0100	6	1	68892		QUARRY ACCESS ROAD	FROM ROUTE 0010 (GRD MAIN ENTRANCE ROAD)	TO ROUTE 0901 (QUARRY VISITORS CENTER PARKING)	GREEN RIVER	YES	0.62	0.00	0.62	2		AS	1A
0101	6	1	68776		DEERLODGE ENTRANCE ROAD	FROM U.S. HIGHWAY 40	TO ROUTE 0911 (DEERLODGE ENTRANCE ROAD PARKING)	YAMPA	YES	12.67	0.00	12.67	1		AS	3
0102	NC		68461		YAMPA BENCH ROAD	FROM ROUTE 0210 (ECHO PARK ROAD) AT MP 7.60	TO EAST PARK BOUNDARY	YAMPA	NO	0.00	26.10	26.10	2		GR	
0200A	6	1	69216		SPLIT MOUNTAIN CAMPGROUND LOOP ROAD	FROM END OF ROUTE 0216 (SPLIT MOUNTAIN CAMPGROUND ACCESS ROAD)	TO END OF LOOP	GREEN RIVER	YES	0.40	0.00	0.40	3		AS	1B
0200B	6	1	99971		SPLIT MOUNTAIN CAMPGROUND SPUR ROAD	FROM ROUTE 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD)	TO END OF LOOP	GREEN RIVER	YES	0.36	0.00	0.36	3		AS	1B
0201	6	1	68492		CANYON OVERLOOK ROAD	FROM ROUTE 0011 (HARPERS CORNER ROAD) AT MP 19.45	TO END OF LOOP	YAMPA	YES	0.88	0.00	0.88	2		AS	2B
0202	6	1	69126		GREEN RIVER CAMPGROUND ACCESS ROAD	FROM ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 5.91	TO INTERSECTION WITH ROUTE 0214A (GREEN RIVER CAMPGROUND LOOP ROAD A), ROUTE 0214B (GREEN RIVER CAMPGROUND LOOP ROAD B), AND 0214C (GREEN RIVER CAMPGROUND LOOP ROAD C)	GREEN RIVER	YES	0.46	0.00	0.46	3		AS	1C

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0203	NC		69066		ISLAND PARK ACCESS ROAD	FROM WEST PARK BOUNDARY	TO RUPLE RANCH	GREEN RIVER	NO	0.00	7.15	7.15	2		GR	
0204	NC		69068		RAINBOW CAMPGROUND ROAD	FROM ROUTE 0203 (ISLAND PARK ACCESS ROAD) AT MP 1.90	TO RAINBOW PARK CAMPGROUND	GREEN RIVER	NO	0.00	0.89	0.89	4		GR	
0205	NC		68500		LODORE ACCESS ROAD	FROM NORTH PARK BOUNDARY	TO LODORE CAMPGROUND	YAMPA	NO	0.00	2.26	2.26	4		GR	
0206	NC		69043		CUB CREEK ACCESS ROAD	FROM END OF ROUTE 0010 (GRD MAIN ENTRANCE ROAD)	TO MORRIS CABIN	GREEN RIVER	NO	0.00	1.50	1.50	4		GR	
0207	NC		69057		BLUE MOUNTAIN ROAD	FROM END OF ROUTE 0010 (GRD MAIN ENTRANCE ROAD)	TO BLM ADMINISTERED ROAD	GREEN RIVER	NO	0.00	1.23	1.23	4		GR	
0210	NC		68391		ECHO PARK ROAD	FROM ROUTE 0011 (HARPERS CORNER ROAD) AT MP 25.52	TO ECHO PARK CAMPGROUND	YAMPA	NO	0.00	11.40	11.40	4		GR	
0211	NC		68798		CASTLE PARK ROAD	FROM ROUTE 0102 (YAMPA BENCH ROAD) AT MP 7.70	TO PRIVATE PROPERTY	YAMPA	NO	0.00	1.67	1.67	4		GR	
0212	NC		68780		DEERLODGE CAMPGROUND ROAD	FROM ROUTE 0101 (DEERLODGE ENTRANCE ROAD) AT MP 12.21	TO END OF CAMPGROUND	YAMPA	NO	0.00	0.42	0.42	4		GR	
0213	6	1	68799		CROSS MOUNTAIN GORGE ROAD	FROM ROUTE 0101 (DEERLODGE ENTRANCE ROAD) AT MP 4.15	TO ROUTE 0924 (CROSS MOUNTAIN GORGE PARKING AREA) AT CATTLE GUARD	YAMPA	YES	0.22	0.10	0.32	3		AS	3
0214A	6	1	69130		GREEN RIVER CAMPGROUND LOOP ROAD A	FROM INTERSECTION OF ROUTE 0214B (GREEN RIVER CAMPGROUND LOOP ROAD B), 0214B (GREEN RIVER CAMPGROUND LOOP B), AND 0214C (GREEN RIVER CAMPGROUND LOOP ROAD C)	TO END OF LOOP	GREEN RIVER	YES	0.25	0.00	0.25	3		AS	1C

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Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description From	Route Description To	Maintenance District	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)	Surf. Type	Area Map
0214B	6	1	98459		GREEN RIVER CAMPGROUND LOOP ROAD B	FROM END OF ROUTE 0202 (GREEN RIVER CAMPGROUND ACCESS ROAD)	TO INTERSECTION OF ROUTE 0214C (GREEN RIVER CAMPGROUND LOOP ROAD C), 0214D (GREEN RIVER CAMPGROUND LOOP ROAD D), AND 0214E (GREEN RIVER CAMPGROUND LOOP E)	GREEN RIVER	YES	0.18	0.00	0.18	3		AS	1C
0214C	6	1	99446		GREEN RIVER CAMPGROUND LOOP ROAD C	FROM INTERSECTION OF ROUTE 0214B (GREEN RIVER CAMPGROUND LOOP ROAD B), 0214D (GREEN RIVER CAMPGROUND LOOP ROAD D), 0214E (GREEN RIVER CAMPGROUND LOOP ROAD E)	TO INTERSECTION OF ROUTE 0202 (GREEN RIVER CAMPGROUND ACCESS ROAD), 0214A (GREEN RIVER CAMPGROUND LOOP A), AND 0214B (GREEN RIVER CAMPGROUND LOOP ROAD B)	GREEN RIVER	YES	0.14	0.00	0.14	3		AS	1C
0214D	6	1	99447		GREEN RIVER CAMPGROUND LOOP ROAD D	FROM INTERSECTION OF ROUTE 0214B (GREEN RIVER CAMPGROUND LOOP ROAD B), 0214C (GREEN RIVER CAMPGROUND LOOP ROAD C), AND 0214E (GREEN RIVER CAMPGROUND LOOP ROAD E)	TO ROUTE 0214C (GREEN RIVER CAMPGROUND LOOP ROAD C)	GREEN RIVER	YES	0.18	0.00	0.18	3		AS	1C
0214E	6	1	99448		GREEN RIVER CAMPGROUND LOOP ROAD E	FROM ROUTE 0214D (GREEN RIVER CAMPGROUND LOOP ROAD D)	TO INTERSECTION OF ROUTE 0214B (GREEN RIVER CAMPGROUND LOOP ROAD B), 0214C (GREEN RIVER CAMPGROUND LOOP ROAD C), AND 0214D (GREEN RIVER CAMPGROUND LOOP ROAD D)	GREEN RIVER	YES	0.28	0.00	0.28	3		AS	1C

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ROAD INVENTORY (1100 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description From	Route Description To	Maintenance District	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)	Surf. Type	Area Map
0215	6	1	68495		CANYON OVERLOOK LOWER ROAD	FROM ROUTE 0201 (CANYON OVERLOOK ROAD)	TO END OF LOOP	YAMPA	YES	0.30	0.00	0.30	3		AS	2B
0216	6	1	69211		SPLIT MOUNTAIN CAMPGROUND ACCESS ROAD	FROM ROUTE 0010 (GRD MAIN ENTRANCE ROAD)	TO BEGINNING OF ROUTE 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD)	GREEN RIVER	YES	0.99	0.00	0.99	3		AS	1B
0221	NC		68618		PLACER POINT ACCESS ROAD	FROM ROUTE 0100 (QUARRY ACCESS ROAD)	TO TERMINUS	GREEN RIVER	NO	0.00	0.50	0.50	4		GR	
0222	NC		68481		ROUND TOP AREA ROAD	FROM BLM LAND	TO TERMINUS	GREEN RIVER	NO	0.00	0.25	0.25	4		GR	
0223	6	1	108846		QUARRY VISITOR CENTER SHUTTLE BUS PICKUP ROAD	FROM ROUTE 0100 (QUARRY ACCESS ROAD)	TO END OF LOOP	GREEN RIVER	NO	0.11	0.00	0.11	6		AS	1A
0400	6	1	69080		QUARRY HOUSING ROAD	FROM ROUTE 0010 (GRD MAIN ENTRANCE ROAD)	TO ROUTE 0100 (QUARRY ACCESS ROAD)	GREEN RIVER	NO	0.33	0.00	0.33	6		AS	1A
0401	6	1	68457		HEADQUARTERS HOUSING ROAD	FROM ROUTE 0011 (HARPERS CORNER ROAD) AT MP 0.37	TO END AT CULDESAC	YAMPA	NO	0.45	0.00	0.45	6		AS	2A
0402	NC		68458		HEADQUARTERS QUARTERS WELL ROAD	FROM ROUTE 0401 (HEADQUARTERS HOUSING ROAD) AT MP 0.29	TO END	YAMPA	NO	0.00	0.33	0.33	6		GR	
0403	6	1	68893		QUARRY WASTEWATER ROAD	FROM ROUTE 0100 (QUARRY ACCESS ROAD)	TO END OF PAVEMENT	GREEN RIVER	NO	0.14	0.21	0.35	6		AS	1A
0404	NC		69203		GR BONEYARD ACCESS ROAD	FROM ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 6.23	TO END	GREEN RIVER	NO	0.00	0.59	0.59	6		GR	
0405	NC		69055		WATER STORAGE TANK ROAD	FROM ROUTE 0100 (QUARRY ACCESS ROAD) AT MP 4.0	TO TERMINUS	GREEN RIVER	NO	0.00	0.50	0.50	6		GR	
0406	NC		68465		ZENOBIA FIRETOWER ROAD	FROM BLM LAND	TO TERMINUS	GREEN RIVER	NO	0.00	0.25	0.25	6		GR	
0407	NC		68782		DEERLODGE RANGER STATION ROAD	FROM ROUTE 0212 (DEERLODGE CAMPGROUND ROAD)	TO TERMINUS	YAMPA	NO	0.00	0.08	0.08	5		GR	

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ROAD INVENTORY (1100 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description From	Route Description To	Maintenance District	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)	Surf. Type	Area Map
0408	NC		68691		HEADQUARTERS SEWAGE LAGOON ROAD	FROM U.S. HIGHWAY 40	TO TERMINUS	YAMPA	NO	0.00	0.33	0.33	6		GR	
0409	NC		108847		GATES OF LODORE WELL ROAD	FROM ROUTE 0205 (LODORE ACCESS ROAD) AT MP 1.7	TO END	YAMPA	NO	0.00	0.30	0.30	6		GR	
0410	NC		108848		GATES OF LODORE RESERVOIR ROAD	FROM ROUTE 0205 (LODORE ACCESS ROAD) AT MP 2.0	TO END	YAMPA	NO	0.00	0.40	0.40	6		GR	

PARKING AREA INVENTORY (1300 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description From	Route Description To	Maintenance District	FLTP	Access Level	Area (SQ FT)	Surf. Type	Area Map
0900	6	1	69047		QUARRY VISITOR CENTER LOWER PARKING AREA	FROM ROUTE 0100 (QUARRY ACCESS ROAD) AT MP 0.03	TO PARKING	GREEN RIVER	YES	PUBLIC	71,969	AS	1A
0901	6	1	69032		QUARRY VISITORS CENTER PARKING	FROM END OF ROUTE 0100 (QUARRY ACCESS ROAD)	TO PARKING	GREEN RIVER	YES	PUBLIC	21,123	AS	1A
0902	6	1	69469		GREEN RIVER CAMPGROUND OVERLOOK	FROM ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 5.57	TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 5.63	GREEN RIVER	YES	PUBLIC	11,221	AS	1C
0903	6	1	69212		SPLIT MOUNTAIN CAMPGROUND BOAT RAMP PARKING	FROM END OF ROUTE 0216 (SPLIT MOUNTAIN CAMPGROUND ACCESS ROAD) AND BEGINNING OF ROUTE 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD)	TO PARKING	GREEN RIVER	YES	PUBLIC	17,902	AS	1B
0904A	6	1	68795		HEADQUARTERS PUBLIC PARKING AREA A	FROM ROUTE 0011 (HARPERS CORNER ROAD) AT MP 0.04	TO ROUTE 0904B (HEADQUARTERS EMPLOYEE PARKING AREA B)	YAMPA	YES	PUBLIC	17,639	AS	2A
0904B	6	1	249246		HEADQUARTERS EMPLOYEE PARKING AREA B	FROM ROUTE 0904A (HEADQUARTERS PUBLIC PARKING AREA A)	TO PARKING	YAMPA	NO	NONPUBLIC	6,191	AS	2A
0905	6	1	68812		PARKING AREA AT MP 3.74	FROM ROUTE 0011 (HARPERS CORNER ROAD) AT MP 3.74	TO ROUTE 0011 (HARPERS CORNER ROAD) AT MP 3.78	YAMPA	YES	PUBLIC	7,643	AS	2A

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Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description From	Route Description To	Maintenance District	FLTP	Access Level	Area (SQ FT)	Surf. Type	Area Map
0906	6	1	68488		ESCALANTE OVERLOOK PARKING AREA	FROM ROUTE 0011 (HARPERS CORNER ROAD) AT MP 8.08	TO PARKING	YAMPA	YES	PUBLIC	35,380	AS	2
0907	6	1	68815		PARKING AREA AT MP 25.15	FROM ROUTE 0011 (HARPERS CORNER ROAD) AT MP 25.15	TO ROUTE 0011 (HARPERS CORNER ROAD) AT MP 25.19	YAMPA	YES	PUBLIC	11,037	AS	2
0908	6	1	68508		ISLAND PARK OVERLOOK PARKING AREA	FROM ROUTE 0011 (IHARPERS CORNER ROAD) AT MP 26.01	TO PARKING	YAMPA	YES	PUBLIC	31,341	AS	2
0909	6	1	68510		IRON SPRINGS BENCH PARKING AREA	FROM ROUTE 0011 (HARPERS CORNER ROAD) AT MP 27.34	TO PARKING	YAMPA	YES	PUBLIC	47,583	AS	2
0910	6	1	68521		ECHO PARK OVERLOOK PARKING AREA	FROM ROUTE 0011 (HARPERS CORNER ROAD) AT MP 30.46	TO ROUTE 0011 (HARPERS CORNER ROAD) AT MP 30.49	YAMPA	YES	PUBLIC	11,819	AS	2
0911	6	1	68816		DEERLODGE ENTRANCE ROAD PARKING	FROM END OF ROUTE 0101 (DEERLODGE ENTRANCE ROAD)	TO PARKING	YAMPA	YES	PUBLIC	17,824	AS	3
0912	NC		68818		DEERLODGE ROAD NEEDLE PARKING AREA	ADJACENT TO ROUTE 0101 (DEERLODGE ENTRANCE ROAD) AT MP 5.68		YAMPA	NO	PUBLIC	15,519	GR	
0913	6	1	68819		DEERLODGE INFORMATION KIOSK PARKING AREA AT MP 0.13	FROM ROUTE 0101 (DEERLODGE ENTRANCE ROAD) AT MP 0.13	TO ROUTE 0101 (DEERLODGE ENTRANCE ROAD) AT MP 0.16	YAMPA	YES	PUBLIC	9,817	AS	3
0914	6	1	68825		QUARRY VISITOR CENTER MIDDLE PARKING LOT	FROM ROUTE 0100 (QUARRY ACCESS ROAD) AT MP 0.37	TO ROUTE 0100 (QUARRY ACCESS ROAD) AT MP 0.42	GREEN RIVER	YES	PUBLIC	15,605	AS	1A
0915	6	1	68806		QUARRY EMPLOYEE PARKING	ADJACENT TO ROUTE 0403 (QUARRY WASTEWATER ROAD)		GREEN RIVER	NO	NONPUBLIC	6,656	AS	1A
0916A	6	1	68371		HARPERS CORNER PARKING AREA A	ADJACENT TO ROUTE 0011 (HARPERS CORNER ROAD) AT MP 31.64 ON RIGHT		YAMPA	YES	PUBLIC	13,248	AS	2
0916B	6	1	104944		HARPERS CORNER PARKING AREA B	ADJACENT TO ROUTE 0011 (HARPERS CORNER ROAD) AT MP 31.67 ON LEFT		YAMPA	YES	PUBLIC	4,565	AS	2
0917	6	1	68802		QUARRY MAINTENANCE YARD	FROM ROUTE 0400 (QUARRY HOUSING ROAD)	TO ROUTE 0403 (QUARRY WASTEWATER ROAD)	GREEN RIVER	NO	NONPUBLIC	29,444	AS	1A
0918	6	1	68793		YAMPA MAINTENANCE PARKING YARD	FROM ROUTE 0011 (HARPERS CORNER ROAD) AT MP 0.14	TO PARKING	YAMPA	NO	NONPUBLIC	65,422	AS	2A

Report Date: 06/10/2018

Cycle 6 NPS / RIP Route ID Report

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

Shading Color Key

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NC = Not Collected

DINO *Dinosaur National Monument*

PARKING AREA INVENTORY (1300 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description From	Route Description To	Maintenance District	FLTP	Access Level	Area (SQ FT)	Surf. Type	Area Map
0919A	6	1	68494		CANYON OVERLOOK PARKING AREA A	ADJACENT TO ROUTE 0201 (CANYON OVERLOOK ROAD)		YAMPA	YES	PUBLIC	2,754	AS	2B
0919B	6	1	104947		CANYON OVERLOOK PARKING AREA B	ADJACENT TO ROUTE 0201 (CANYON OVERLOOK ROAD)		YAMPA	YES	PUBLIC	1,139	AS	2B
0920	6	1	68496		CANYON OVERLOOK LOWER ROAD PARKING AREA	ADJACENT TO ROUTE 0215 (CANYON OVERLOOK LOWER ROAD)		YAMPA	YES	PUBLIC	2,987	AS	2B
0921	6	1	69088		GRD SEASONAL HOUSING PARKING	ADJACENT TO ROUTE 0400 (QUARRY HOUSING ROAD)		GREEN RIVER	NO	NONPUBLIC	4,532	AS	1A
0922A	6	1	104951		HEADQUARTERS HOUSING PARKING AREA A	FROM ROUTE 0401 (HEADQUARTERS HOUSING ROAD) ON LEFT	TO PARKING	YAMPA	NO	NONPUBLIC	6,123	AS	2A
0922B	6	1	104958		HEADQUARTERS HOUSING PARKING AREA B	ADJACENT TO ROUTE 0401 (HEADQUARTERS HOUSING ROAD) ON RIGHT		YAMPA	NO	NONPUBLIC	1,179	AS	2A
0923	6	1	104962		YAMPA RIVER PARKING AREA AT MP 10.8	ADJACENT TO ROUTE 0101 (DEERLODGE ENTRANCE ROAD) AT MP 10.80		YAMPA	YES	PUBLIC	15,188	AS	3
0924	NC		104967		CROSS MOUNTAIN GORGE PARKING AREA	FROM END OF ROUTE 0213 (CROSS MOUNTAIN GORGE ROAD) AT CATTLE GUARD	TO PARKING	YAMPA	NO	PUBLIC	14,223	GR	
0925A	6	1	104992		GREEN RIVER CAMPGROUND PARKING AREA A	ADJACENT TO ROUTE 0202 (GREEN RIVER CAMPGROUND ACCESS ROAD)		GREEN RIVER	YES	PUBLIC	1,835	AS	1C
0925B	6	1	105028		GREEN RIVER CAMPGROUND PARKING AREA B	ADJACENT TO ROUTE 0214B (GREEN RIVER CAMPGROUND LOOP ROAD B)		GREEN RIVER	YES	PUBLIC	4,910	AS	1C
0926ZZ	6	1	99972		SPLIT MOUNTAIN CAMPGROUND BOAT TRAILER PARKING AREAS	FROM ROUTE 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD)	TO ROUTE 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD)	GREEN RIVER	YES	PUBLIC	23,951	AS	1B

Report Date: 06/10/2018

Cycle 6 NPS / RIP Route ID Report

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DINO *Dinosaur National Monument*

PARKING AREA INVENTORY (1300 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description From	Route Description To	Maintenance District	FLTP	Access Level	Area (SQ FT)	Surf. Type	Area Map
0927A	6	1	105040		SPLIT MOUNTAIN CAMPGROUND SPUR PARKING A	ADJACENT TO ROUTE 0200B (SPLIT MOUNTAIN CAMPGROUND SPUR ROAD)		GREEN RIVER	YES	PUBLIC	2,161	AS	1B
0927B	6	1	105042		SPLIT MOUNTAIN CAMPGROUND SPUR PARKING B	ADJACENT TO ROUTE 0200B (SPLIT MOUNTAIN CAMPGROUND SPUR ROAD)		GREEN RIVER	YES	PUBLIC	1,790	AS	1B
0928	6	1	105045		GREEN RIVER KIOSK PARKING AREA	ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 0.26		GREEN RIVER	YES	PUBLIC	4,249	AS	1
0929ZZ	6	1	249247		GRD ENTRANCE PULLOUT AT MP 0.03	ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 0.03		GREEN RIVER	YES	PUBLIC	6,948	AS	1
0930	6	1	249248		MANCOS SEA PULLOUT	ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT 0.73 ON RIGHT		GREEN RIVER	YES	PUBLIC	2,833	AS	1
0931ZZ	6	1	249249		SWELTER SHELTER PULLOUTS	ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 2.69		GREEN RIVER	YES	PUBLIC	3,586	AS	1A
0932	6	1			SOUND OF SILENCE PULLOUT	ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT 3.56 ON LEFT		GREEN RIVER	YES	PUBLIC	2,413	AS	1B
0933	6	1	249250		PULLOUT AT MP 4.03	ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 4.05 ON RIGHT		GREEN RIVER	YES	PUBLIC	2,229	AS	1B
0934	6	1	249251		MORRISON PULLOUT	ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 6.29 ON RIGHT		GREEN RIVER	YES	PUBLIC	1,601	AS	1
0935	6	1	249252		FIRE HISTORY PULLOUT	ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 7.05 ON RIGHT		GREEN RIVER	YES	PUBLIC	1,988	AS	1
0936	6	1	249253		CHEW PULLOUT	ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 8.16 ON RIGHT		GREEN RIVER	YES	PUBLIC	1,292	AS	1
0937	NC		249254		TURTLE ROCK PULLOUT	FROM ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 9.20 ON LEFT	TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 9.23 ON LEFT	GREEN RIVER	NO	PUBLIC	3,000	GR	
0938	6	1	249255		CUB CREEK PULLOUT	ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 9.49 ON LEFT		GREEN RIVER	YES	PUBLIC	2,288	AS	1

Report Date: 06/10/2018

Cycle 6 NPS / RIP Route ID Report

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DINO *Dinosaur National Monument*

PARKING AREA INVENTORY (1300 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description From	Route Description To	Maintenance District	FLTP	Access Level	Area (SQ FT)	Surf. Type	Area Map
0939	6	1	68828		PLUG HAT PICNIC AREA PARKING	FROM ROUTE 0011 (HARPERS CORNER ROAD) AT MP 4.31 ON LEFT	TO PARKING	YAMPA	YES	PUBLIC	21,690	AS	2A
0940	6	1			DEERLODGE BOATER PARKING	ADJACENT TO ROUTE 0101 (DEERLODGE ENTRANCE ROAD) AT MP 12.16 ON RIGHT		YAMPA	YES	PUBLIC	3,849	AS	3
0941	6	1			SPLIT MOUNTAIN OVERLOOK	ADJACENT TO ROUTE 0216 (SPLIT MOUNTAIN CAMPGROUND ACCESS ROAD)		GREEN RIVER	YES	PUBLIC	3,114	AS	1B

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Cycle 6 NPS / RIP Route ID Report

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= Concession Route

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Cycle 6 Summary Totals for Dinosaur National Monument

Cycle 6 Route Totals

	NPS Maintained	Concessionaire Maintained	Park Totals
Paved Roads, Data Collection Vehicle Rated (Miles)	60.65	0	**60.65**
Paved Roads, Manually Rated Length (Miles)	0	0	**0**
Paved Roads, Manually Rated Area (Sq. Ft.)	0	0	**0**
Unpaved Roads (Miles)	56.46	0	**56.46**
Paved Parking (Sq. Ft.)	580,058	0	**580,058**
Unpaved Parking (Sq. Ft.)	32,742	0	**32,742**

Cycle 6 Lane Miles and Overall Pavement Condition

	Lanes Miles*	Pavement Condition Rating**
Data Collection Vehicle Routes	135.71	91
Manually Rated Roads	0	N/A
Parking Areas	9.99	70

* 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

Report Date: 06/10/2018

Cycle 6 NPS / RIP Route ID Report

(Numerical By Summary Route and Subcomponent #)

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= Concession Route

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General Park Road Functional Classification (FC) Table

FC	Type	User Access	Description	Route Numbers
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
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
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
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
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
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

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

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

The historic route numbering system also included a 300 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.

Report Date: 06/10/2018

NPS / RIP Subcomponent Details for DINO

(Numerical By Summary Route and Subcomponent #)

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Road Inventory Program

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DINO *Dinosaur National Monument*

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

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	FLTP	User Access	Area (SQ FT)
0926ZZ	99972	6	1		SPLIT MOUNTAIN CAMPGROUND BOAT TRAILER PARKING AREAS	FROM ROUTE 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD)	TO ROUTE 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD)	YES	PUBLIC	23,951
0929ZZ	249247	6	1		GRD ENTRANCE PULLOUT AT MP 0.03	ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 0.03		YES	PUBLIC	6,948
0931ZZ	249249	6	1		SWELTER SHELTER PULLOUTS	ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 2.69		YES	PUBLIC	3,586

DINO-0926ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	FLTP	User Access	Area (SQ FT)
0926AZ	99972	6	1		SPLIT MOUNTAIN CAMPGROUND BOAT TRAILER PARKING A	FROM ROUTE 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD)	TO ROUTE 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD)	YES	PUBLIC	19,409
0926BZ	99972	6	1		SPLIT MOUNTAIN CAMPGROUND BOAT TRAILER PARKING B	ADJACENT TO ROUTE 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD) ON RIGHT		YES	PUBLIC	2,758
0926CZ	99972	6	1		SPLIT MOUNTAIN CAMPGROUND BOAT TRAILER PARKING C	ADJACENT TO ROUTE 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD) ON RIGHT		YES	PUBLIC	1,784

Report Date: 06/10/2018

NPS / RIP Subcomponent Details for DINO

(Numerical By Summary Route and Subcomponent #)

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Road Inventory Program

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Yellow = Unpaved Routes, DCV not Driven	Blue = Paved Parking Areas	Green = Unpaved Parking Areas

■ = Concession Route

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NC = Not Collected

DINO *Dinosaur National Monument*

DINO-0929ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	FLTP	User Access	Area (SQ FT)
0929AZ	249247	6	1		GRD ENTRANCE PULLOUT A AT MP 0.03	ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 0.03 ON RIGHT		YES	PUBLIC	4,380
0929BZ	249247	6	1		GRD ENTRANCE PULLOUT B AT MP 0.03	ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 0.03 ON LEFT		YES	PUBLIC	2,568

DINO-0931ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	FLTP	User Access	Area (SQ FT)
0931AZ	249249	6	1		SWELTER SHELTER PULLOUT A	ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 2.70 ON RIGHT		YES	PUBLIC	2,216
0931BZ	249249	6	1		SWELTER SHELTER PULLOUT B	ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 2.69 ON LEFT		YES	PUBLIC	1,370

Route Identification Changes to Paved Routes from Previous Cycle
Dinosaur National Monument

ROUTES REMOVED FROM PREVIOUS INVENTORY:			
Route No.	**Route Name**	**Type of Change**	**Comments**
0217	IRON SPRINGS BENCH OVERLOOK ROAD	OTHER	CYCLE 5 ROUTES 0217, 0909A, AND 0909B WERE COMBINED INTO ROUTE 0909.
0218	ISLAND PARK OVERLOOK ROAD	OTHER	CYCLE 5 ROUTE 0218 WAS COMBINED WITH ROUTE 0908.
0219	ESCALANTE OVERLOOK ROAD	OTHER	CYCLE 5 ROUTE 0219 WAS COMBINED WITH ROUTE 0906.
0411	YAMPA DISTRICT BONEYARD	OTHER	ROUTE REMOVED BECAUSE PARK MAINTAINS THIS ROUTE AS A LANDSCAPE.
0909B	IRON SPRINGS BENCH PARKING AREA B	OTHER	CYCLE 5 ROUTE 0909B WAS COMBINED WITH ROUTES 0909A AND 0217.

ROUTES ADDED FROM PREVIOUS INVENTORY:			
Route No.	**Route Name**	**Type of Change**	**Comments**
0929ZZ	GRD ENTRANCE PULLOUT AT MP 0.03	OTHER	PAVED PARKING AREAS ADDED IN CYCLE 6.
0930	MANCOS SEA PULLOUT	OTHER	PAVED PARKING AREA ADDED IN CYCLE 6.
0931ZZ	SWELTER SHELTER PULLOUTS	OTHER	PAVED PARKING AREAS ADDED IN CYCLE 6.
0932	SOUND OF SILENCE PULLOUT	OTHER	PAVED PARKING AREA ADDED IN CYCLE 6.
0933	PULLOUT AT MP 4.03	OTHER	PAVED PARKING AREA ADDED IN CYCLE 6.
0934	MORRISON PULLOUT	OTHER	PAVED PARKING AREA ADDED IN CYCLE 6.
0935	FIRE HISTORY PULLOUT	OTHER	PAVED PARKING AREA ADDED IN CYCLE 6.
0936	CHEW PULLOUT	OTHER	PAVED PARKING AREA ADDED IN CYCLE 6.
0937	TURTLE ROCK PULLOUT	OTHER	UNPAVED PARKING AREA ADDED IN CYCLE 6.
0938	CUB CREEK PULLOUT	OTHER	PAVED PARKING AREA ADDED IN CYCLE 6.

Route Identification Changes to Paved Routes from Previous Cycle
Dinosaur National Monument

ROUTES ADDED FROM PREVIOUS INVENTORY:			
Route No.	**Route Name**	**Type of Change**	**Comments**
0940	DEERLODGE BOATER PARKING	OTHER	PAVED PARKING AREA ADDED IN CYCLE 6.
0941	SPLIT MOUNTAIN OVERLOOK	OTHER	PAVED PARKING AREA ADDED IN CYCLE 6. PARK NEEDS TO ADD TO FMSS.

ROUTES MODIFIED FROM PREVIOUS INVENTORY:			
Route No.	**Route Name**	**Type of Change**	**Comments**
0101	DEERLODGE ENTRANCE ROAD	LENGTH CHANGE	ROUTE SHORTENED DUE TO CHANGE IN PARKING 0911 AT END.
0213	CROSS MOUNTAIN GORGE ROAD	LENGTH CHANGE	THE PAVED SECTION OF THE ROAD ENDS AT THE BEGINNING OF THE LOOP, LOOP IS NOW UNPAVED.
0223	QUARRY VISITOR CENTER SHUTTLE BUS PICKUP ROAD	ROUTE NAME	ROUTE NAME CHANGED FROM "LOWER VISITOR CENTER SHUTTLE BUS PICKUP ROAD" TO "QUARRY VISITOR CENTER SHUTTLE BUS PICKUP ROAD" TO ALIGN WITH FMSS.
0900	QUARRY VISITOR CENTER LOWER PARKING AREA	SQ FEET CHANGE	IMPROVED GPS AND SQUARE FOOTAGE COLLECTED IN CYCLE 6.
0901	QUARRY VISITORS CENTER PARKING	SQ FEET CHANGE	IMPROVED GPS AND SQUARE FOOTAGE COLLECTED IN CYCLE 6.
0903	SPLIT MOUNTAIN CAMPGROUND BOAT RAMP PARKING	SQ FEET CHANGE	IMPROVED GPS AND SQUARE FOOTAGE COLLECTED IN CYCLE 6.
0904B	HEADQUARTERS EMPLOYEE PARKING AREA B	SQ FEET CHANGE	IMPROVED GPS AND SQUARE FOOTAGE COLLECTED IN CYCLE 6.
0905	PARKING AREA AT MP 3.74	ROUTE NAME	ROUTE NAME CHANGED FROM "SUNRISE PARKING AREA" TO "PARKING AREA AT MP 3.74" TO ALIGN WITH FMSS.
0906	ESCALANTE OVERLOOK PARKING AREA	ROUTES COMBINED	CYCLE 5 ROUTE 0219 WAS COMBINED WITH ROUTE 0906 UNDER FMSS NUMBER 68488. IMPROVED GPS AND SQUARE FOOTAGE COLLECTED IN CYCLE 6.
0907	PARKING AREA AT MP 25.15	ROUTE NAME	ROUTE NAME CHANGED FROM "PARKING CENTER OF THE UNIVERSE" TO "PARKING AREA AT MP 25.15" TO ALIGN WITH FMSS.

Route Identification Changes to Paved Routes from Previous Cycle
Dinosaur National Monument

ROUTES MODIFIED FROM PREVIOUS INVENTORY:			
Route No.	**Route Name**	**Type of Change**	**Comments**
0908	ISLAND PARK OVERLOOK PARKING AREA	ROUTES COMBINED	CYCLE 5 ROUTE 0218 WAS COMBINED WITH ROUTE 0908 UNDER FMSS NUMBER 68508. IMPROVED GPS AND SQUARE FOOTAGE COLLECTED IN CYCLE 6.
0909	IRON SPRINGS BENCH PARKING AREA	ROUTES COMBINED	CYCLE 5 ROUTES 0217, 0909A, AND 0909B WERE COMBINED UNDER FMSS NUMBER 68510. IMPROVED GPS AND SQUARE FOOTAGE COLLECTED IN CYCLE 6.
0911	DEERLODGE ENTRANCE ROAD PARKING	ROUTES COMBINED	ROUTES 0911A AND 0911B WERE COMBINED INTO 0911 IN CYCLE 6. IMPROVED GPS AND SQUARE FOOTAGE COLLECTED IN CYCLE 6.
0912	DEERLODGE ROAD NEEDLE PARKING AREA	SURFACE TYPE CHANGE	PARKING AREA CHANGED FROM ASPHALT TO GRAVEL IN CYCLE 6.
0916B	HARPERS CORNER PARKING AREA B	SQ FEET CHANGE	IMPROVED GPS AND SQUARE FOOTAGE COLLECTED IN CYCLE 6.
0919A	CANYON OVERLOOK PARKING AREA A	SQ FEET CHANGE	IMPROVED GPS AND SQUARE FOOTAGE COLLECTED IN CYCLE 6.
0920	CANYON OVERLOOK LOWER ROAD PARKING AREA	SQ FEET CHANGE	IMPROVED GPS AND SQUARE FOOTAGE COLLECTED IN CYCLE 6.
0923	YAMPA RIVER PARKING AREA AT MP 10.8	SQ FEET CHANGE	IMPROVED GPS AND SQUARE FOOTAGE COLLECTED IN CYCLE 6.
0924	CROSS MOUNTAIN GORGE PARKING AREA	SURFACE TYPE CHANGE	PARKING AREA CHANGED FROM ASPHALT TO GRAVEL IN CYCLE 6.
0926ZZ	SPLIT MOUNTAIN CAMPGROUND BOAT TRAILER PARKING AREAS	OTHER	CYCLE 5 ROUTE 0926 WAS COMBINED WITH NEW SUBCOMPONENTS 0926BZ AND 0926CZ. IMPROVED GPS AND SQUARE FOOTAGE COLLECTED IN CYCLE 6.

Section 3
Park Summary Information

Dinosaur National Monument

Federal Lands Highway
Road Inventory Program

Parkwide Paved Route Condition Summary
Dinosaur National Monument

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

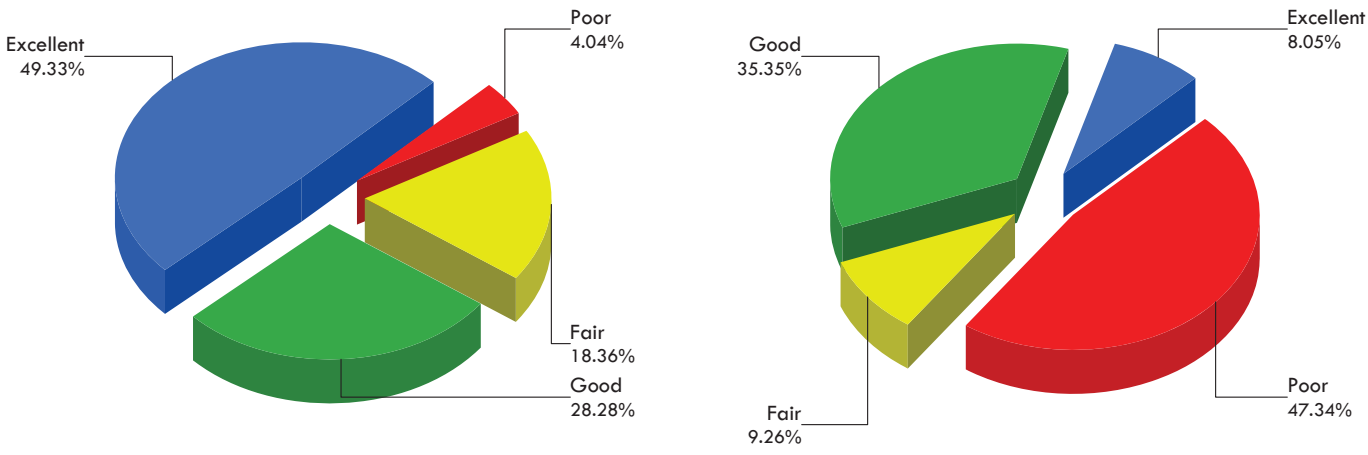
Breakdown of Pavement Condition Rating (PCR) Based on Access Level

	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	1.09	9.49	15.60	28.18	54.36
2	0.76	0.18	0.24	0.32	1.50
3	0.40	0.88	1.08	1.40	3.76
4					
5					
6	0.20	0.59	0.23	0.01	1.03
7					
8					
Total Mileage by PCR	**2.45**	**11.14**	**17.15**	**29.91**	**60.65**
PAVED PARKING					
Access Level	**Area (sq. ft.)**	**Area (sq. ft.)**	**Area (sq. ft.)**	**Area (sq. ft.)**	**Total Area**
PUBLIC	156,228	52,577	205,028	46,678	460,511
NONPUBLIC	118,368	1,179			119,547
Total Area by PCR	**274,596**	**53,756**	**205,028**	**46,678**	**580,058**

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



Road Condition Percentages **Parking Area Condition Percentages**

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

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

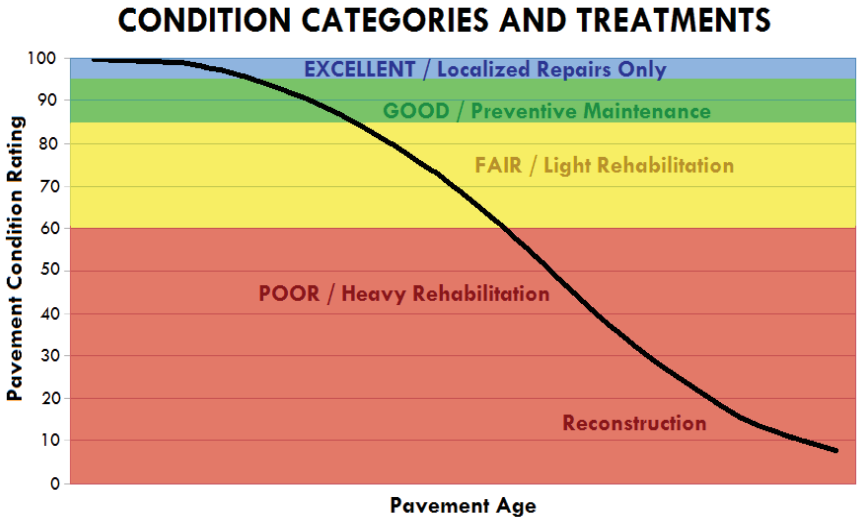
The Road Inventory Program aims to provide assistance in translating the excellent / good / fair / poor rating categories into pavement needs categories. The PCR can be used to indicate the place in the Pavement Life Cycle and the type of treatments that should be considered now and into the future.

- 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.

Federal Lands Highway
Road Inventory Program

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

Dinosaur National Monument

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 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
DINO-0010	69461	GRD MAIN ENTRANCE ROAD	1	AS	9.81	95	100	91	95	99	96	91	99	99
DINO-0011	68897	HARPERS CORNER ROAD	1	AS	31.88	90	85	94	95	100	95	94	100	94
DINO-0100	68892	QUARRY ACCESS ROAD	2	AS	0.62	92	85	97	97	100	97	97	100	99
DINO-0101	68776	DEERLODGE ENTRANCE ROAD	1	AS	12.67	100	100	100	100	100	100	100	100	100
DINO-0200A	69216	SPLIT MOUNTAIN CAMPGROUND LOOP ROAD	3	AS	0.40	87	NR	87	91	100	91	87	93	92
DINO-0200B	99971	SPLIT MOUNTAIN CAMPGROUND SPUR ROAD	3	AS	0.36	0	NR	0	0	99	0	0	99	87
DINO-0201	68492	CANYON OVERLOOK ROAD	2	AS	0.88	27	67	0	0	88	10	88	100	83
DINO-0202	69126	GREEN RIVER CAMPGROUND ACCESS ROAD	3	AS	0.46	95	NR	95	100	100	100	95	100	99
DINO-0213	68799	CROSS MOUNTAIN GORGE ROAD	3	AS	0.22	94	NR	94	95	100	95	94	100	96
DINO-0214A	69130	GREEN RIVER CAMPGROUND LOOP ROAD A	3	AS	0.25	96	NR	96	99	100	99	97	100	96
DINO-0214B	98459	GREEN RIVER CAMPGROUND LOOP ROAD B	3	AS	0.18	98	NR	98	99	100	99	99	100	98
DINO-0214C	99446	GREEN RIVER CAMPGROUND LOOP ROAD C	3	AS	0.14	98	NR	98	100	100	100	100	100	98
DINO-0214D	99447	GREEN RIVER CAMPGROUND LOOP ROAD D	3	AS	0.18	98	NR	98	99	100	99	99	100	98
DINO-0214E	99448	GREEN RIVER CAMPGROUND LOOP ROAD E	3	AS	0.28	99	NR	99	100	100	100	99	100	99
DINO-0215	68495	CANYON OVERLOOK LOWER ROAD	3	AS	0.30	94	NR	94	94	100	94	99	100	95
DINO-0216	69211	SPLIT MOUNTAIN CAMPGROUND ACCESS ROAD	3	AS	0.99	81	66	91	97	100	97	91	100	96
DINO-0223	108846	QUARRY VISITOR CENTER SHUTTLE BUS PICKUP ROAD	6	AS	0.11	86	NR	86	86	100	86	90	99	95
DINO-0400	69080	QUARRY HOUSING ROAD	6	AS	0.33	73	NR	73	78	100	78	73	100	96
DINO-0401	68457	HEADQUARTERS HOUSING ROAD	6	AS	0.45	76	NR	76	88	100	88	76	100	96
DINO-0403	68893	QUARRY WASTEWATER ROAD	6	AS	0.14	77	NR	77	77	100	77	87	96	92

Data Collection Date: 08/2017

Federal Lands Highway
Road Inventory Program

Cycle 6 - Road Inventory Program
Parking Area Condition Summary Report

Dinosaur National Monument

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 Parking Areas

Route No.	FMSS No.	Route Name	User Access	Surf. Type	Area (Sq. Ft.)	Pavement Condition Rating (PCR)	Asphalt Surface Distresses: Alligator Cracking	Asphalt Surface Distresses: Longitudinal / Tranverse Cracking	Asphalt Surface Distresses: Rutting / Distortions	Asphalt Surface Distresses: Potholes / Patching	Asphalt Surface Distresses: HMA Patching	Asphalt Surface Distresses: Surface Raveling / Bleeding	Concrete Surface Distresses: Joint Faulting	Concrete Surface Distresses: Slab Cracking	Concrete Surface Distresses: Joint Distresses	Concrete Surface Distresses: Delamination / Pop-Outs	Concrete Surface Distresses: Potholes / Patching
DINO-0900	69047	QUARRY VISITOR CENTER LOWER PARKING AREA	PUBLIC	AS	71,969	53	73	53	73	90	97	90					
DINO-0901	69032	QUARRY VISITORS CENTER PARKING	PUBLIC	AS	21,123	73	73	90	73	97	97	90					
DINO-0902	69469	GREEN RIVER CAMPGROUND OVERLOOK	PUBLIC	AS	11,221	53	97	53	90	97	97	90					
DINO-0903	69212	SPLIT MOUNTAIN CAMPGROUND BOAT RAMP PARKING	PUBLIC	AS	17,902	90	97	90	90	97	97	90					
DINO-0904A	68795	HEADQUARTERS PUBLIC PARKING AREA A	PUBLIC	AS	17,639	53	73	53	90	97	90	90					
DINO-0904B	249246	HEADQUARTERS EMPLOYEE PARKING AREA B	NONPUBLIC	AS	6,191	53	53	53	90	90	97	90					
DINO-0905	68812	PARKING AREA AT MP 3.74	PUBLIC	AS	7,643	53	73	53	90	97	97	73					
DINO-0906	68488	ESCALANTE OVERLOOK PARKING AREA	PUBLIC	AS	35,380	90	90	90	90	97	97	90					
DINO-0907	68815	PARKING AREA AT MP 25.15	PUBLIC	AS	11,037	73	73	90	73	97	97	73					
DINO-0908	68508	ISLAND PARK OVERLOOK PARKING AREA	PUBLIC	AS	31,341	90	90	90	90	97	97	90					
DINO-0909	68510	IRON SPRINGS BENCH PARKING AREA	PUBLIC	AS	47,583	90	90	90	90	97	97	90					
DINO-0910	68521	ECHO PARK OVERLOOK PARKING AREA	PUBLIC	AS	11,819	90	90	90	97	97	97	90					
DINO-0911	68816	DEERLODGE ENTRANCE ROAD PARKING	PUBLIC	AS	17,824	97	97	97	97	97	97	97					
DINO-0913	68819	DEERLODGE INFORMATION KIOSK PARKING AREA AT MP 0.13	PUBLIC	AS	9,817	97	97	97	97	97	97	97					
DINO-0914	68825	QUARRY VISITOR CENTER MIDDLE PARKING LOT	PUBLIC	AS	15,605	53	53	53	53	90	97	90					
DINO-0915	68806	QUARRY EMPLOYEE PARKING	NONPUBLIC	AS	6,656	30	53	97	73	30	73	73					
DINO-0916A	68371	HARPERS CORNER PARKING AREA A	PUBLIC	AS	13,248	90	90	90	97	97	97	90					
DINO-0916B	104944	HARPERS CORNER PARKING AREA B	PUBLIC	AS	4,565	73	90	90	97	97	97	73					
DINO-0917	68802	QUARRY MAINTENANCE YARD	NONPUBLIC	AS	29,444	30	30	53	53	90	90	90					
DINO-0918	68793	YAMPA MAINTENANCE PARKING YARD	NONPUBLIC	AS	65,422	53	53	53	73	90	90	73					
DINO-0919A	68494	CANYON OVERLOOK PARKING AREA A	PUBLIC	AS	2,754	90	90	90	97	97	97	90					
DINO-0919B	104947	CANYON OVERLOOK PARKING AREA B	PUBLIC	AS	1,139	90	97	90	97	97	97	90					
DINO-0920	68496	CANYON OVERLOOK LOWER ROAD PARKING AREA	PUBLIC	AS	2,987	90	97	90	90	97	97	90					
DINO-0921	69088	GRD SEASONAL HOUSING PARKING	NONPUBLIC	AS	4,532	53	73	53	90	97	97	73					
DINO-0922A	104951	HEADQUARTERS HOUSING PARKING AREA A	NONPUBLIC	AS	6,123	53	90	53	90	90	97	90					
DINO-0922B	104958	HEADQUARTERS HOUSING PARKING AREA B	NONPUBLIC	AS	1,179	73	90	90	90	97	97	73					

Data Collection Date: 06/2017

Federal Lands Highway
Road Inventory Program

Cycle 6 - Road Inventory Program
Parking Area Condition Summary Report

Dinosaur National Monument

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 Parking Areas

Route No.	FMSS No.	Route Name	User Access	Surf. Type	Area (Sq. Ft.)	Pavement Condition Rating (PCR)	Asphalt Surface Distresses: Alligator Cracking	Asphalt Surface Distresses: Longitudinal / Tranverse Cracking	Asphalt Surface Distresses: Rutting / Distortions	Asphalt Surface Distresses: Potholes / Patching	Asphalt Surface Distresses: HMA Patching	Asphalt Surface Distresses: Surface Raveling / Bleeding	Concrete Surface Distresses: Joint Faulting	Concrete Surface Distresses: Slab Cracking	Concrete Surface Distresses: Joint Distresses	Concrete Surface Distresses: Delamination / Pop-Outs	Concrete Surface Distresses: Potholes / Patching
DINO-0923	104962	YAMPA RIVER PARKING AREA AT MP 10.8	PUBLIC	AS	15,188	97	97	97	97	97	97	97					
DINO-0925A	104992	GREEN RIVER CAMPGROUND PARKING AREA A	PUBLIC	AS	1,835	90	97	90	90	97	97	97					
DINO-0925B	105028	GREEN RIVER CAMPGROUND PARKING AREA B	PUBLIC	AS	4,910	90	97	90	90	97	97	90					
DINO-0926AZ	99972	SPLIT MOUNTAIN CAMPGROUND BOAT TRAILER PARKING A	PUBLIC	AS	19,409	53	90	53	90	97	97	90					
DINO-0926BZ	99972	SPLIT MOUNTAIN CAMPGROUND BOAT TRAILER PARKING B	PUBLIC	AS	2,758	53	90	53	90	97	97	73					
DINO-0926CZ	99972	SPLIT MOUNTAIN CAMPGROUND BOAT TRAILER PARKING C	PUBLIC	AS	1,784	53	90	53	90	97	97	73					
DINO-0927A	105040	SPLIT MOUNTAIN CAMPGROUND SPUR PARKING A	PUBLIC	AS	2,161	30	30	97	90	90	97	73					
DINO-0927B	105042	SPLIT MOUNTAIN CAMPGROUND SPUR PARKING B	PUBLIC	AS	1,790	30	30	97	90	90	97	73					
DINO-0928	105045	GREEN RIVER KIOSK PARKING AREA	PUBLIC	AS	4,249	53	53	53	73	97	73	73					
DINO-0929AZ	249247	GRD ENTRANCE PULLOUT A AT MP 0.03	PUBLIC	AS	4,380	73	97	90	90	97	97	73					
DINO-0929BZ	249247	GRD ENTRANCE PULLOUT B AT MP 0.03	PUBLIC	AS	2,568	73	97	90	90	97	97	73					
DINO-0930	249248	MANCOS SEA PULLOUT	PUBLIC	AS	2,833	73	90	90	90	97	97	73					
DINO-0931AZ	249249	SWELTER SHELTER PULLOUT A	PUBLIC	AS	2,216	90	97	90	90	97	97	90					
DINO-0931BZ	249249	SWELTER SHELTER PULLOUT B	PUBLIC	AS	1,370	73	97	90	90	97	97	73					
DINO-0932	N/A	SOUND OF SILENCE PULLOUT	PUBLIC	AS	2,413	73	97	90	90	97	97	73					
DINO-0933	249250	PULLOUT AT MP 4.03	PUBLIC	AS	2,229	90	97	90	90	97	97	90					
DINO-0934	249251	MORRISON PULLOUT	PUBLIC	AS	1,601	90	97	90	90	97	97	90					
DINO-0935	249252	FIRE HISTORY PULLOUT	PUBLIC	AS	1,988	90	97	90	90	97	97	90					
DINO-0936	249253	CHEW PULLOUT	PUBLIC	AS	1,292	90	97	90	90	97	97	90					
DINO-0938	249255	CUB CREEK PULLOUT	PUBLIC	AS	2,288	73	97	90	90	97	97	73					
DINO-0939	68828	PLUG HAT PICNIC AREA PARKING	PUBLIC	AS	21,690	90	90	90	90	97	97	90					
DINO-0940	N/A	DEERLODGE BOATER PARKING	PUBLIC	AS	3,849	97	97	97	97	97	97	97					
DINO-0941	N/A	SPLIT MOUNTAIN OVERLOOK	PUBLIC	AS	3,114	90	97	90	90	90	97	90					

Data Collection Date: 06/2017

Section 4
Park Route Location Maps

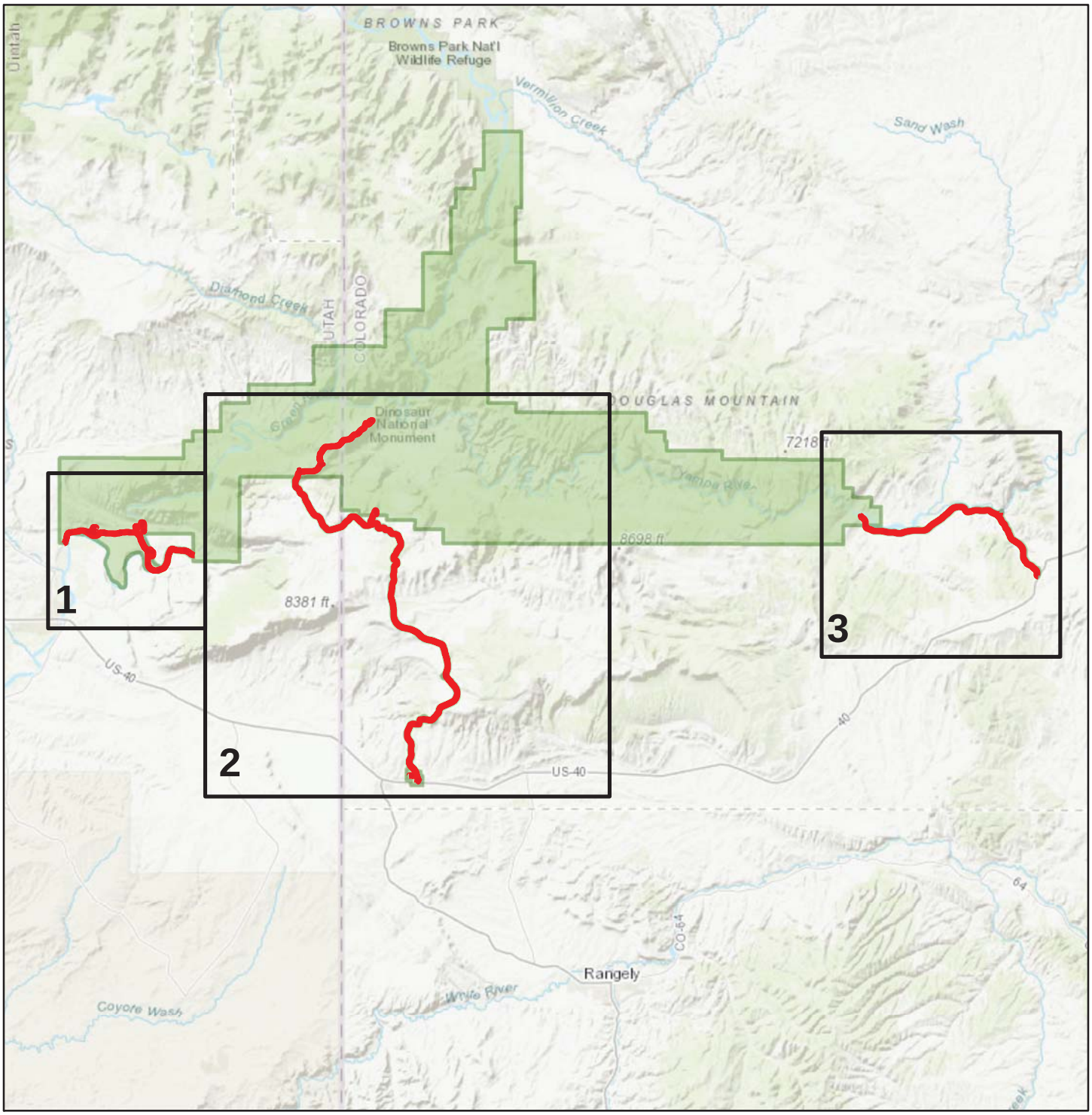
Dinosaur National Monument

Federal Lands Highway
Road Inventory Program

Dinosaur National Monument

ROUTE LOCATION MAP

Key Map



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

NPS Collected Routes

Miles

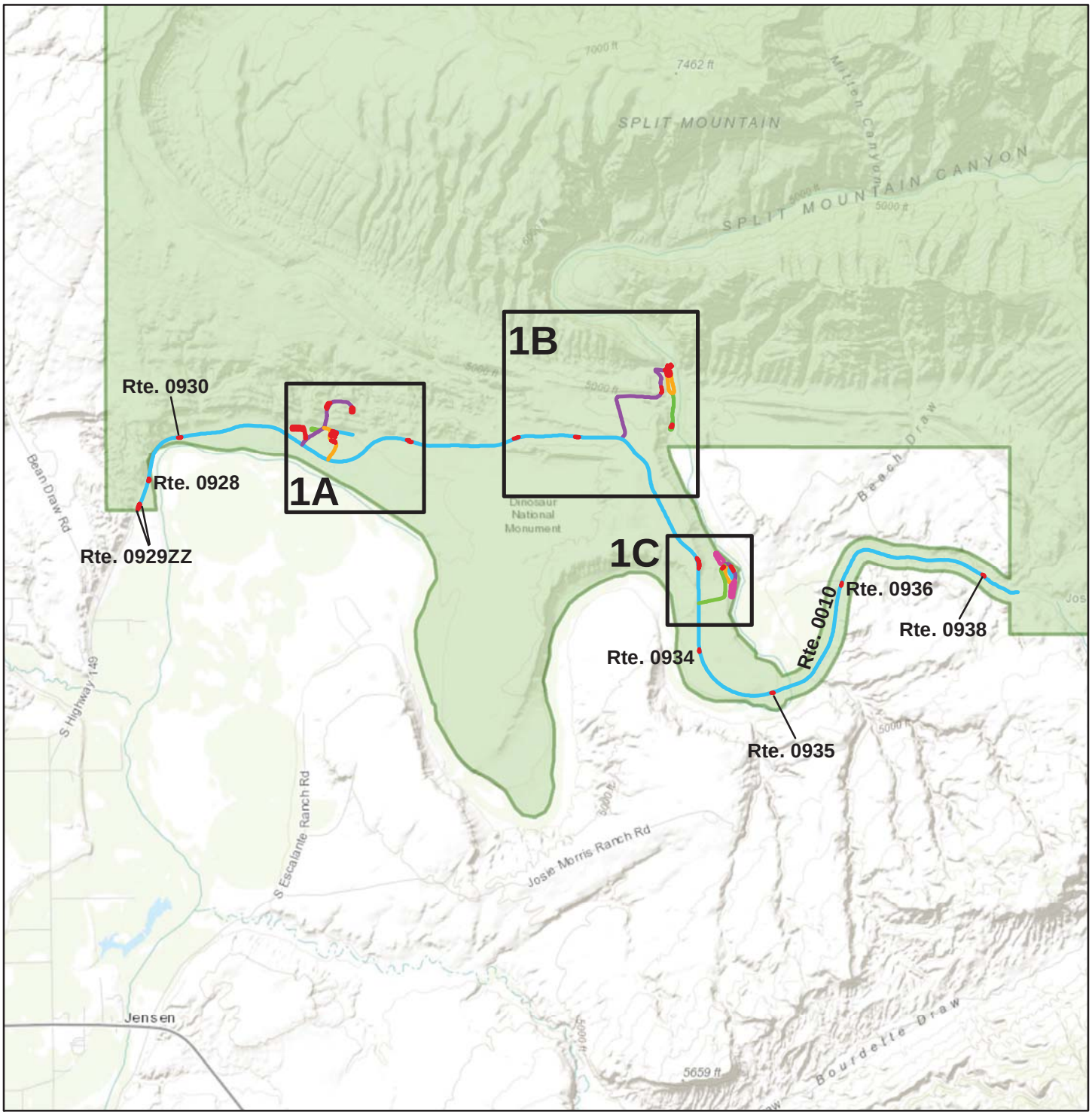
0 20 40

N

Dinosaur National Monument

ROUTE LOCATION MAP

Area Map 1



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

Note: Unique colors are used to differentiate roads

Miles

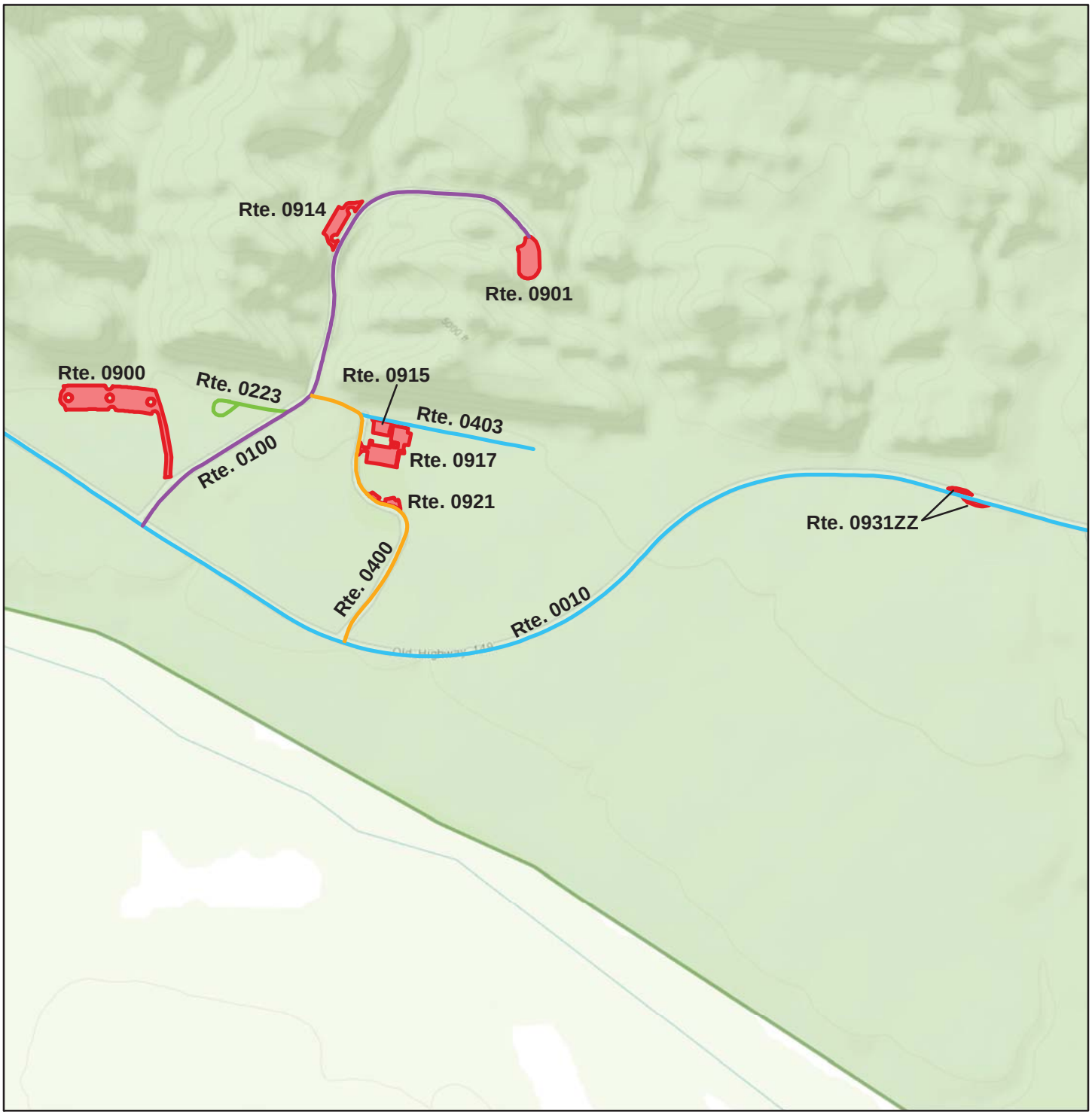
0 3 6

N

Dinosaur National Monument

ROUTE LOCATION MAP

Area Map 1A



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

Note: Unique colors are used to differentiate roads

Miles

0 0.4 0.8

N

Dinosaur National Monument

ROUTE LOCATION MAP

Area Map 1B

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

Note: Unique colors are used to differentiate roads

Miles

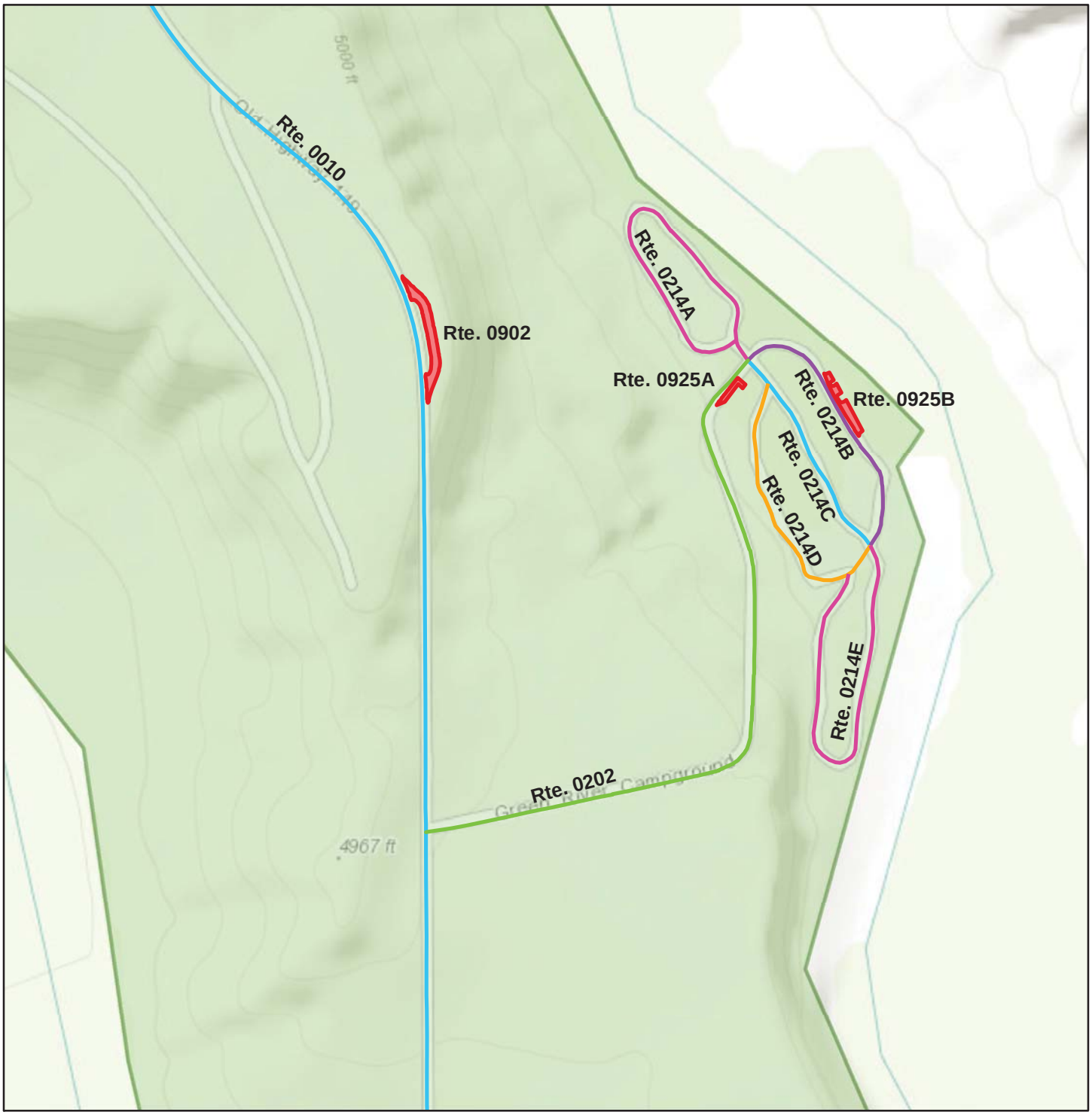
0 0.5 1

N

Dinosaur National Monument

ROUTE LOCATION MAP

Area Map 1C



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

Note: Unique colors are used to differentiate roads

Miles

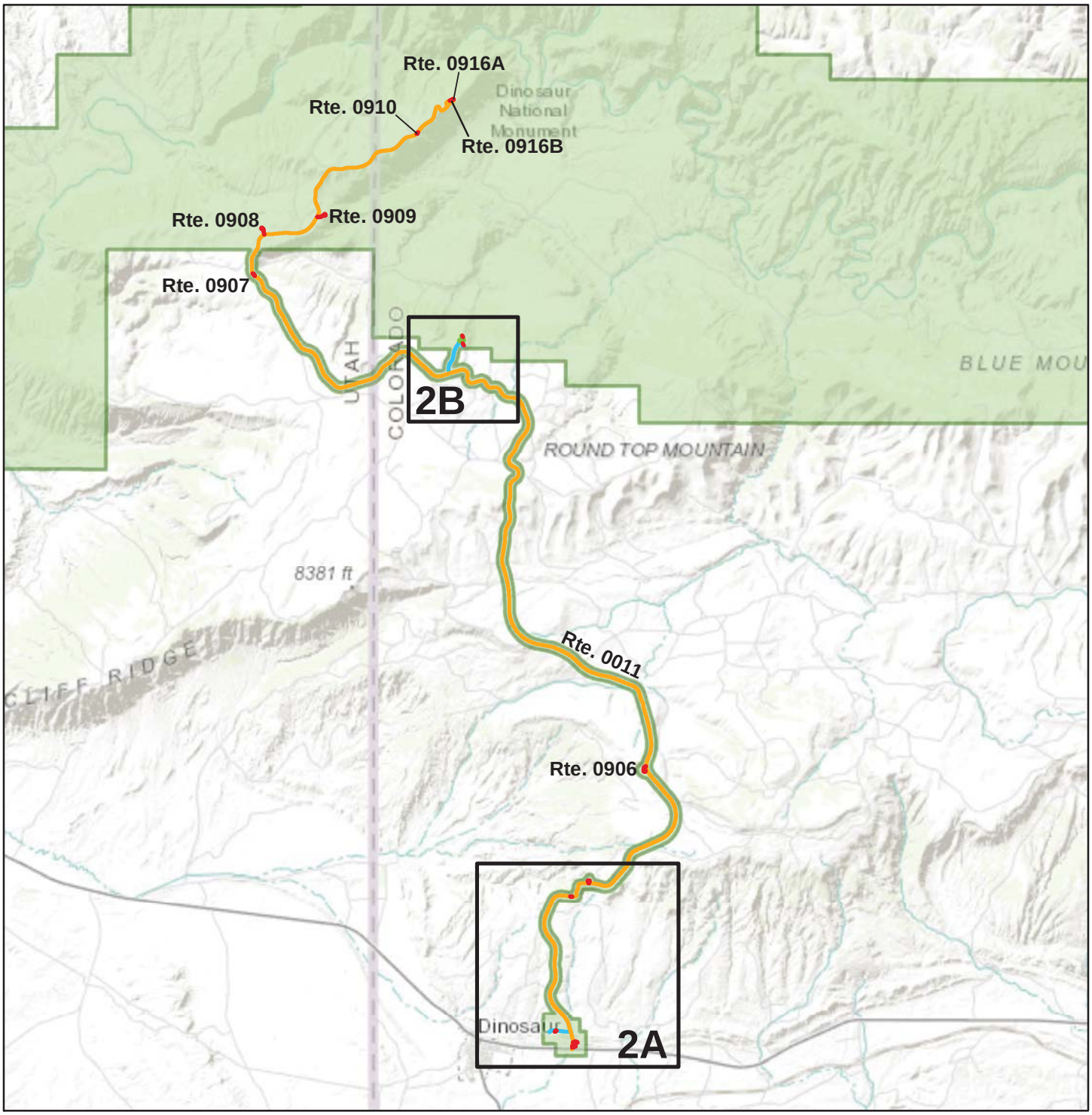
0 0.3 0.6

N

Dinosaur National Monument

ROUTE LOCATION MAP

Area Map 2



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

Note: Unique colors are used to differentiate roads

Miles

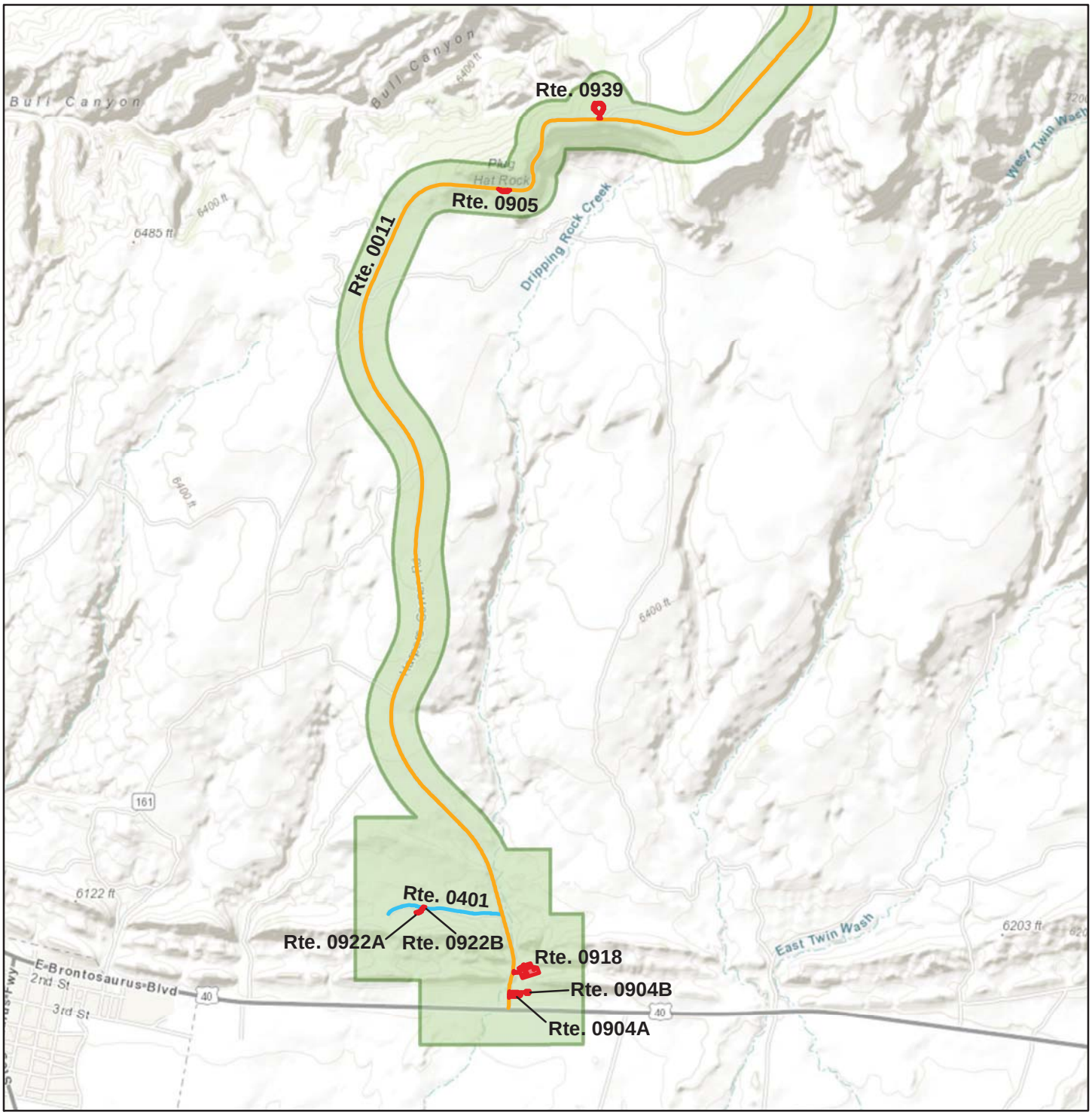
0 8 16

N

Dinosaur National Monument

ROUTE LOCATION MAP

Area Map 2A



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

Note: Unique colors are used to differentiate roads

Miles

0 1 2

N

Dinosaur National Monument

ROUTE LOCATION MAP

Area Map 2B

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

Note: Unique colors are used to differentiate roads

Miles

0 1 2

N

Dinosaur National Monument

ROUTE LOCATION MAP

Area Map 3

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), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Note: Unique colors are used to differentiate roads

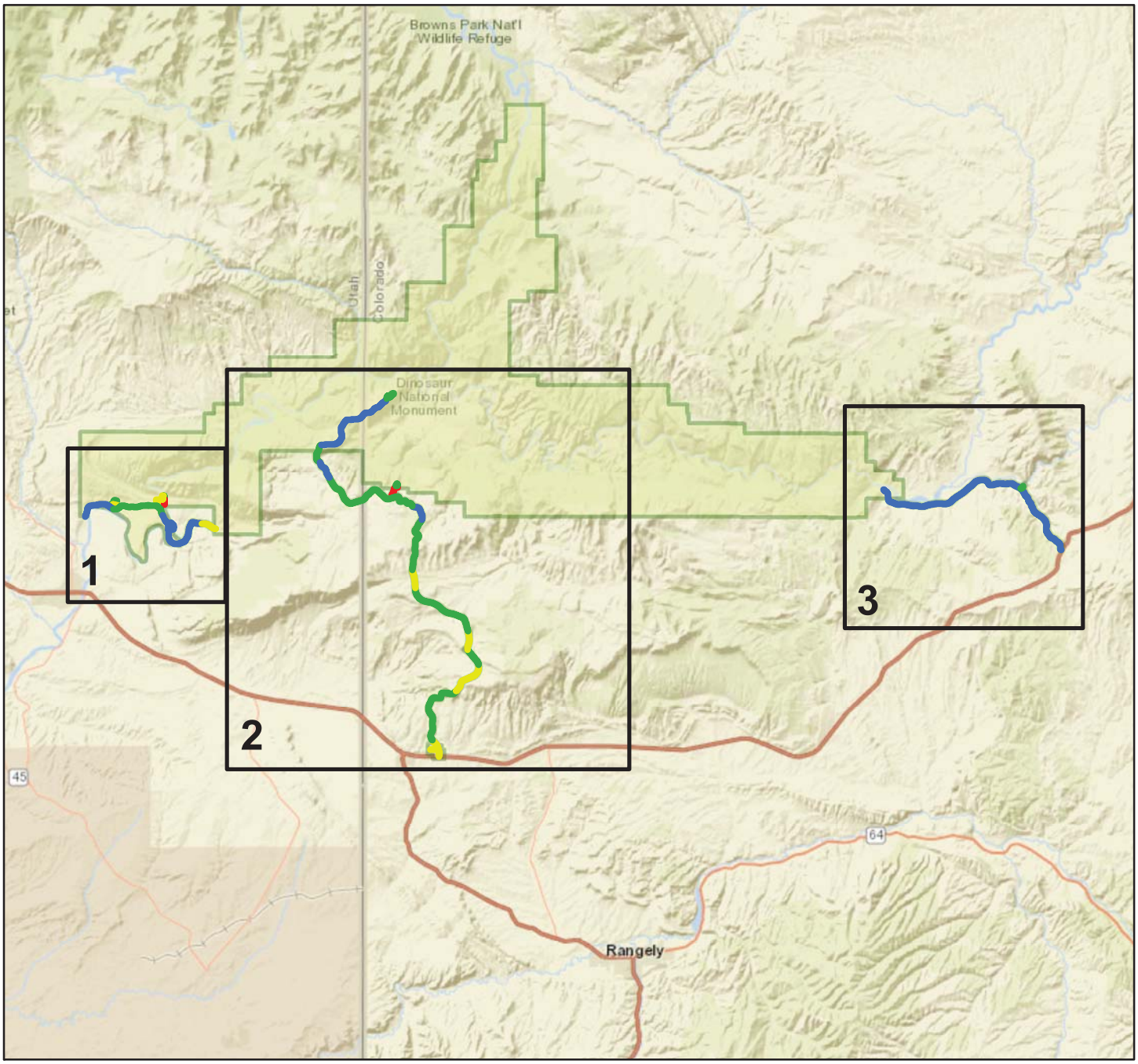
Miles

0 5 10

N

Dinosaur National Monument

ROUTE CONDITION MAP
PCR - MILE BY MILE
Key Map



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © 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

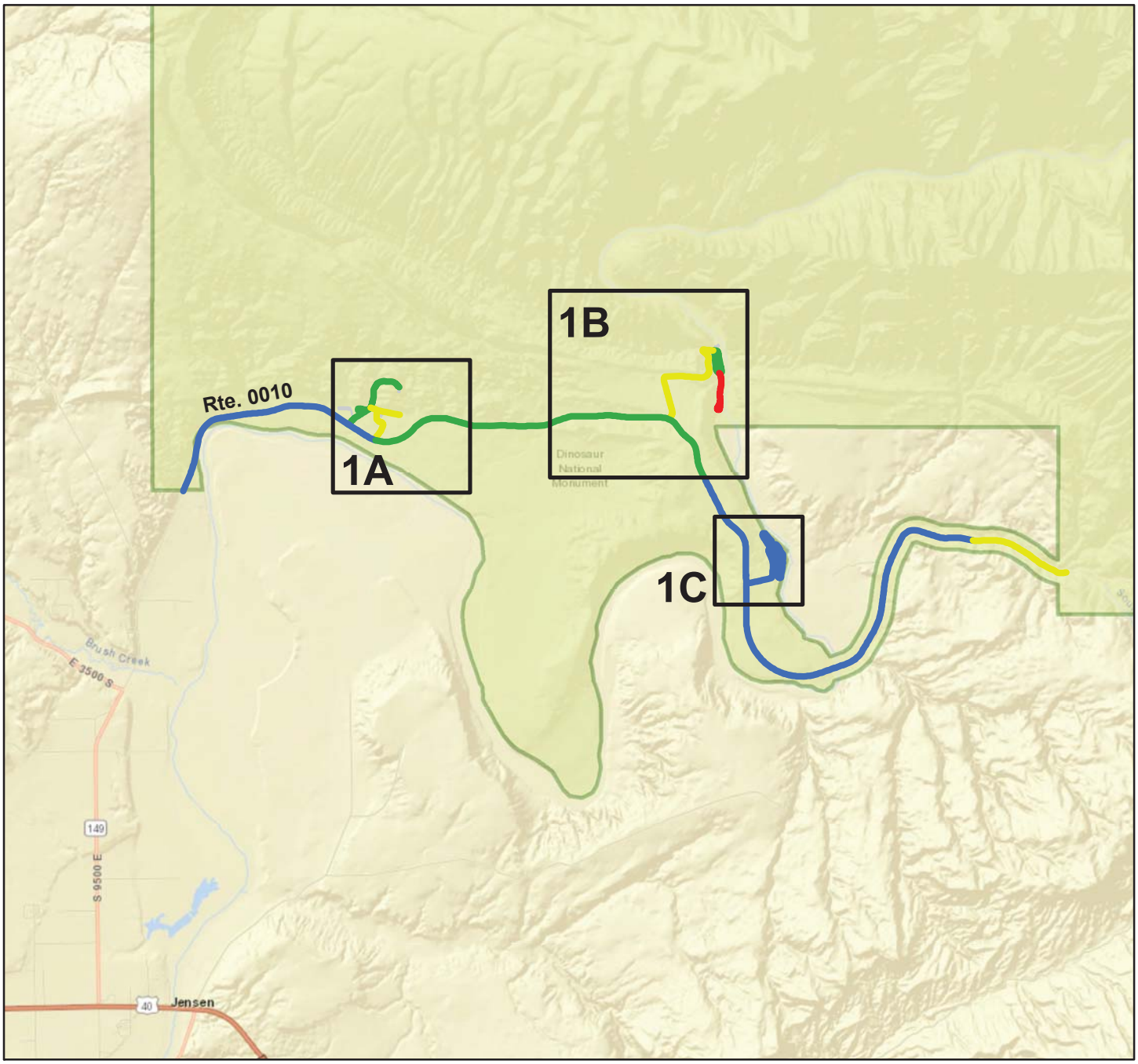
See Appendix for definitions and formulas
Only Data Collection Vehicle and Manually Rated Roads are displayed

Miles
0 20 40

N

Dinosaur National Monument

ROUTE CONDITION MAP
PCR - MILE BY MILE
Area Map 1



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © 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
Only Data Collection Vehicle and Manually Rated Roads are displayed

Miles
0 3 6

N

Dinosaur National Monument

ROUTE CONDITION MAP
PCR - MILE BY MILE
Area Map 1A

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © 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

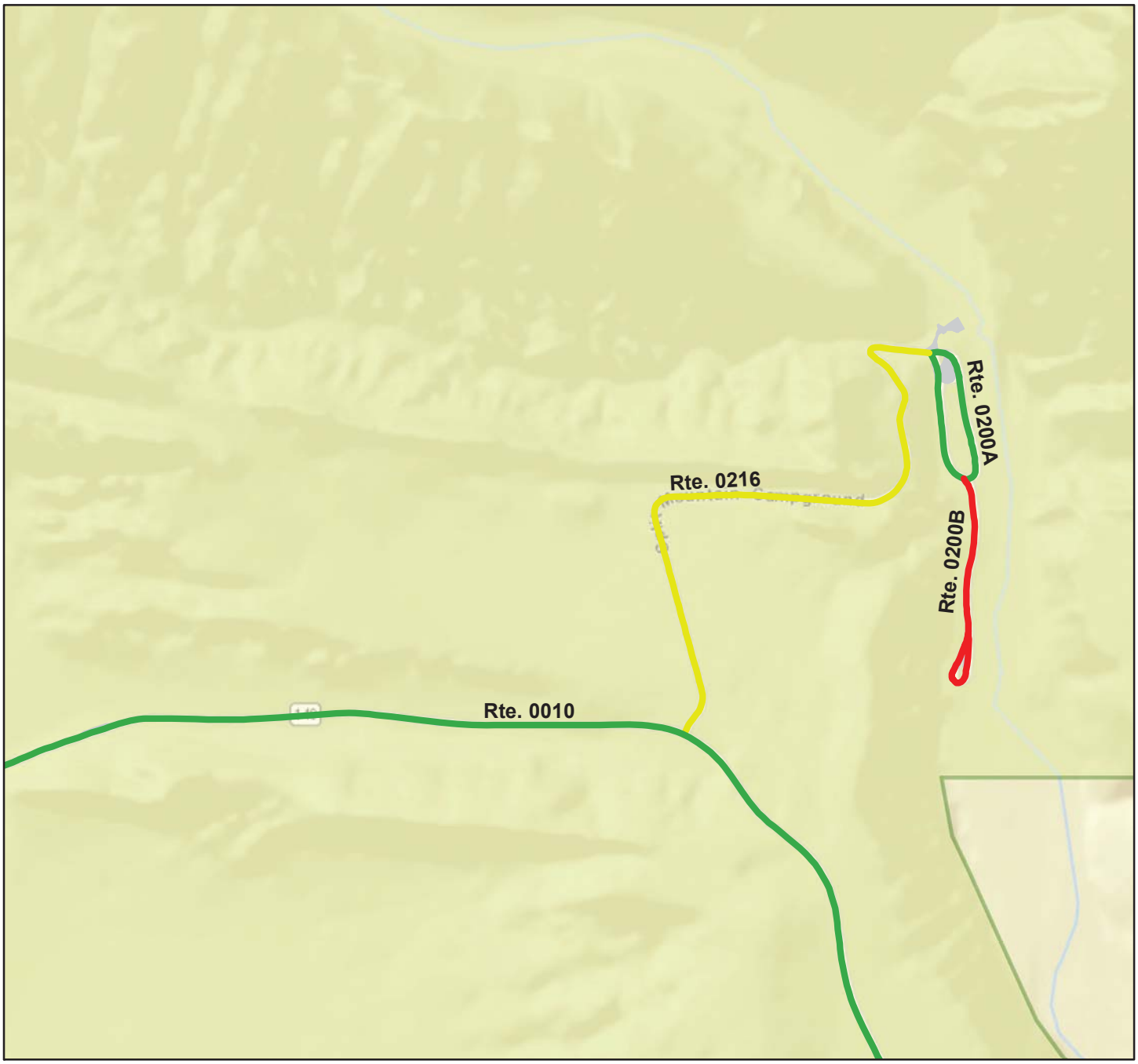
See Appendix for definitions and formulas
Only Data Collection Vehicle and Manually Rated Roads are displayed

Miles
0 0.4 0.8

N

Dinosaur National Monument

ROUTE CONDITION MAP
PCR - MILE BY MILE
Area Map 1B



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © 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
Only Data Collection Vehicle and Manually Rated Roads are displayed

Miles
0 0.5 1

N

Dinosaur National Monument

ROUTE CONDITION MAP
PCR - MILE BY MILE
Area Map 1C

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © 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

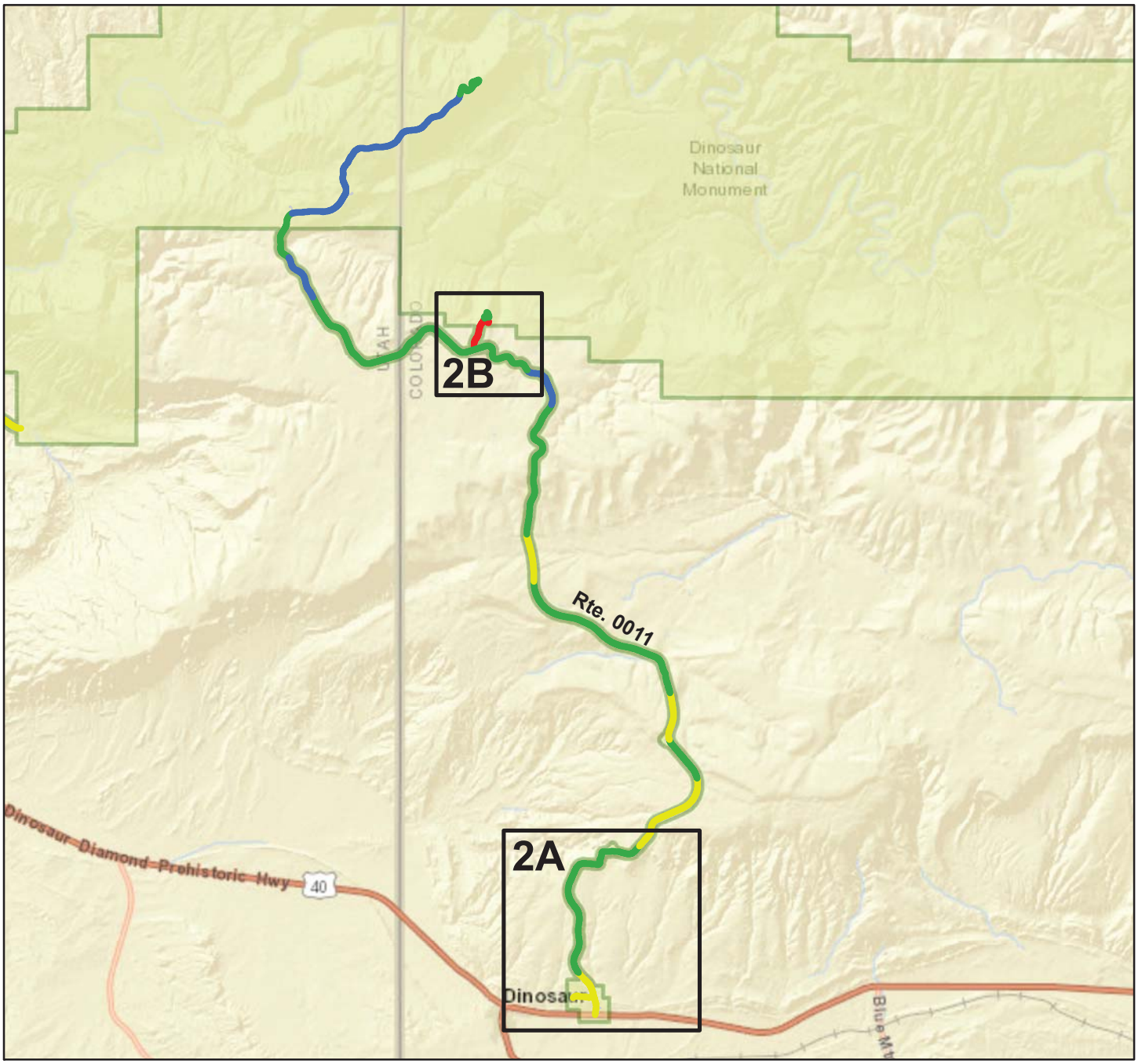
See Appendix for definitions and formulas
Only Data Collection Vehicle and Manually Rated Roads are displayed

Miles
0 0.3 0.6

N

Dinosaur National Monument

ROUTE CONDITION MAP
PCR - MILE BY MILE
Area Map 2



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © 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

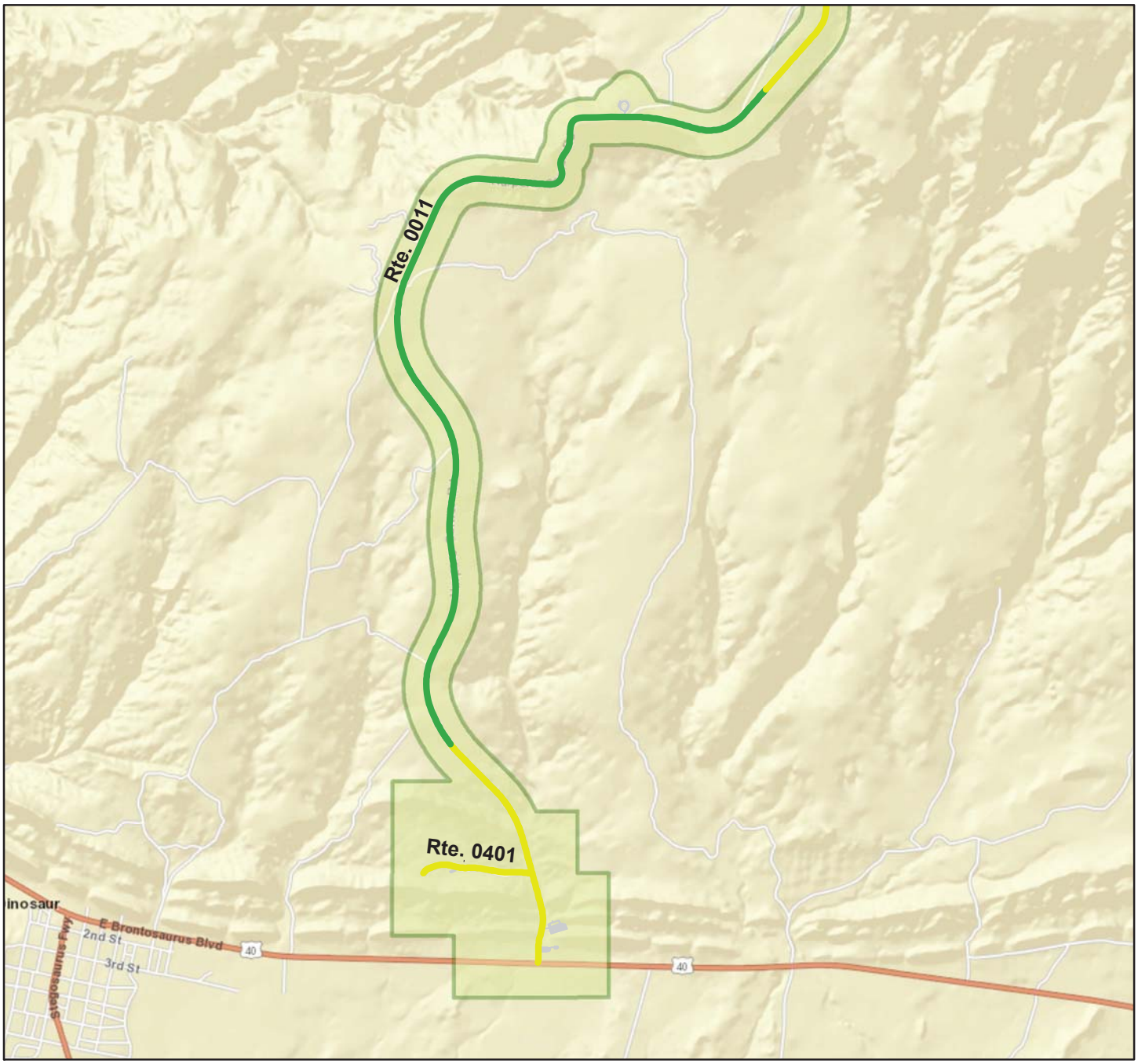
See Appendix for definitions and formulas
Only Data Collection Vehicle and Manually Rated Roads are displayed

Miles
0 8 16

N

Dinosaur National Monument

ROUTE CONDITION MAP
PCR - MILE BY MILE
Area Map 2A



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © 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

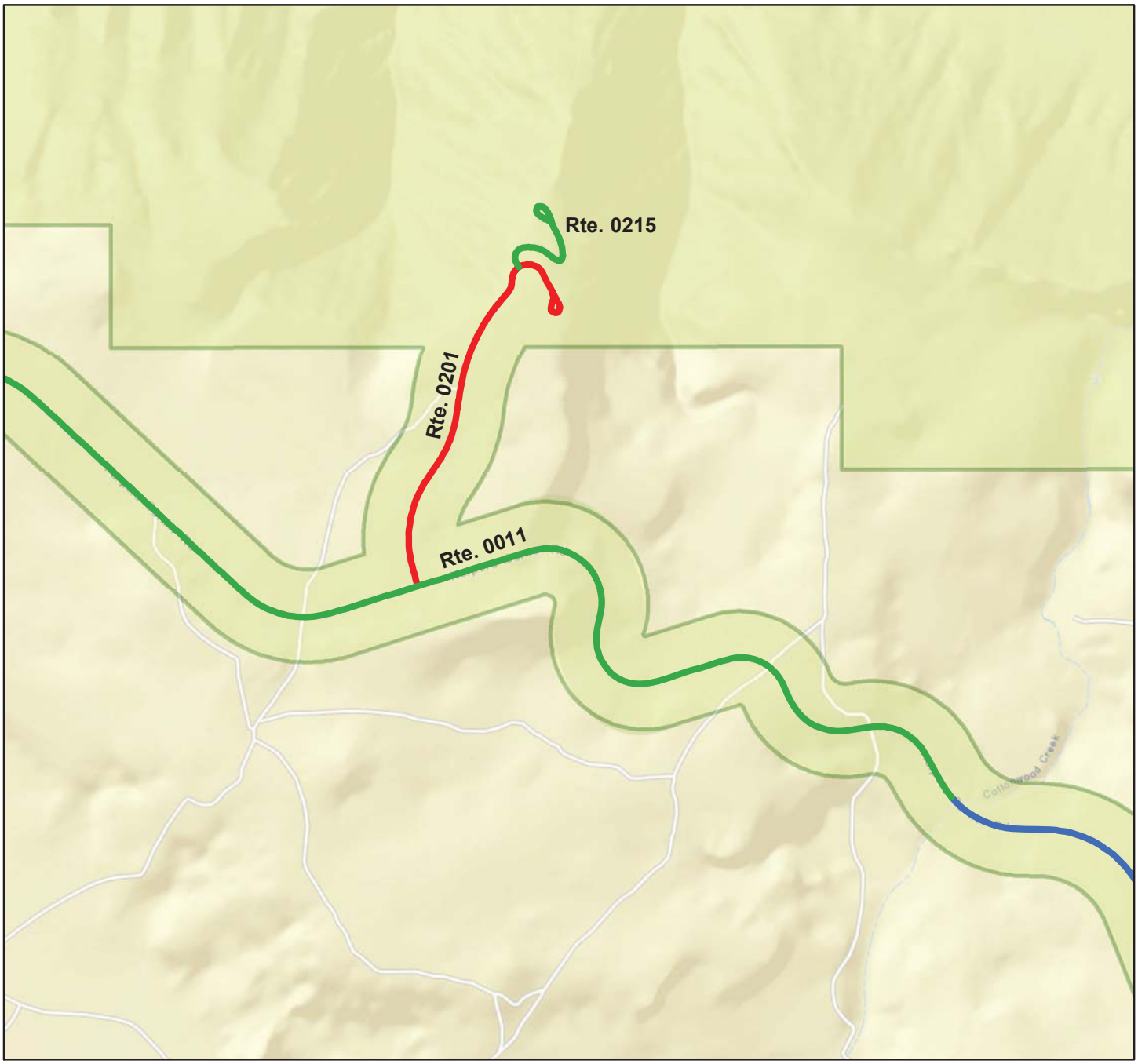
See Appendix for definitions and formulas
Only Data Collection Vehicle and Manually Rated Roads are displayed

Miles
0 1 2

N

Dinosaur National Monument

ROUTE CONDITION MAP
PCR - MILE BY MILE
Area Map 2B



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © 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

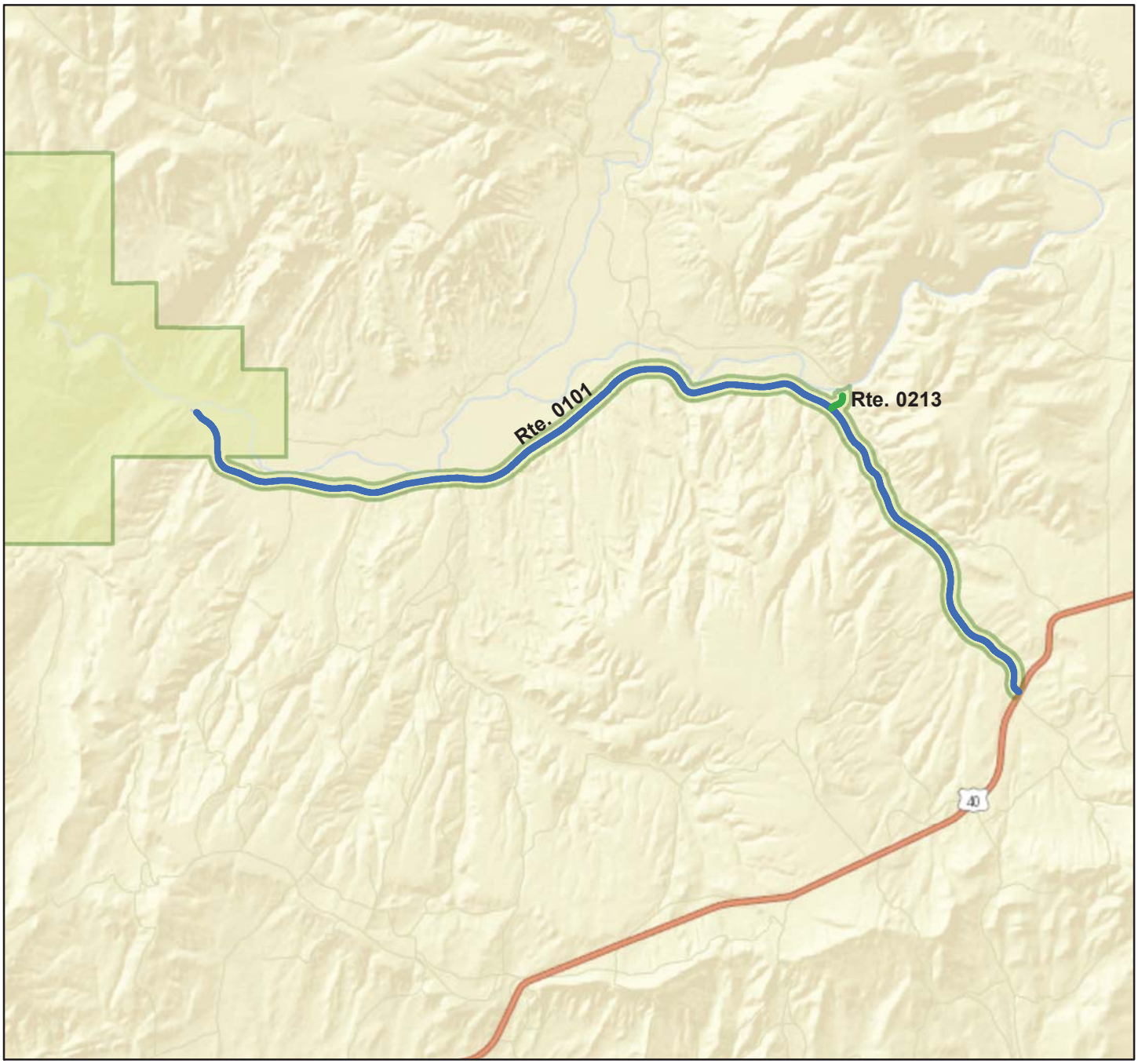
See Appendix for definitions and formulas
Only Data Collection Vehicle and Manually Rated Roads are displayed

Miles
0 1 2

N

Dinosaur National Monument

ROUTE CONDITION MAP
PCR - MILE BY MILE
Area Map 3



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © 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
Only Data Collection Vehicle and Manually Rated Roads are displayed

Miles
0 5 10

N

Section 5
Paved Road Condition Rating Sheets

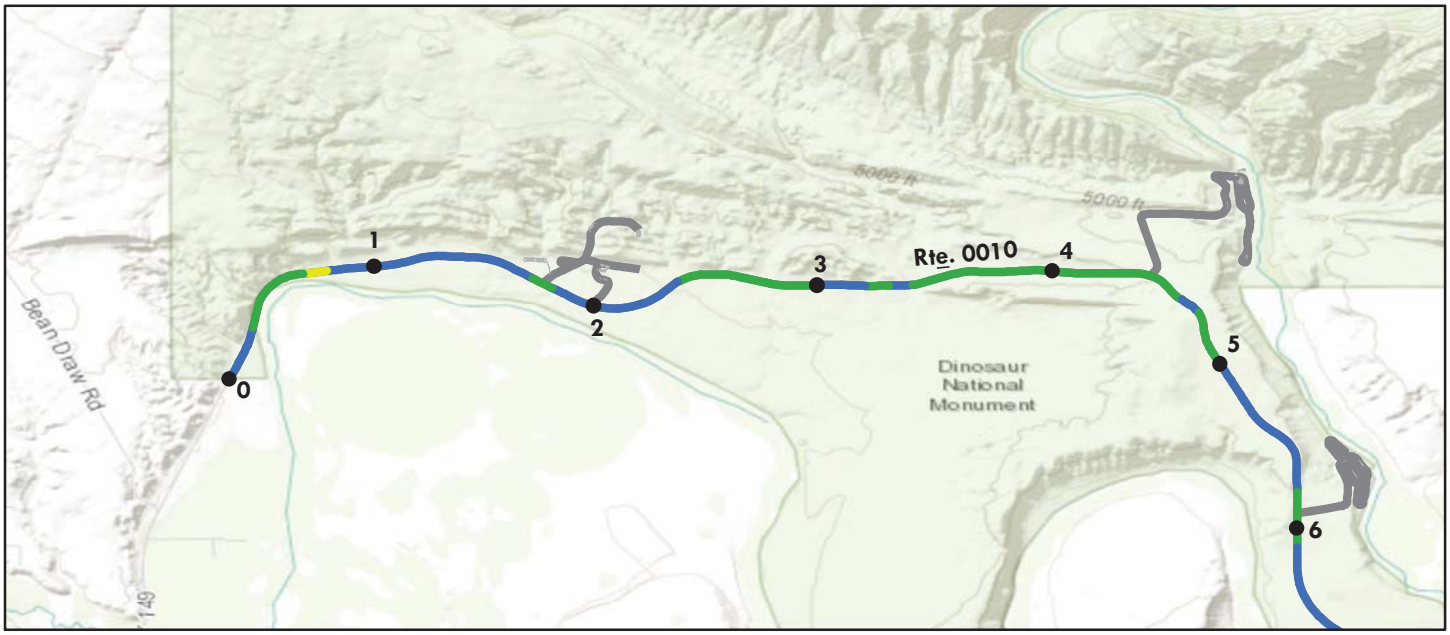
Dinosaur National Monument

Federal Lands Highway
Road Inventory Program

Dinosaur National Monument

ROUTE 0010: GRD MAIN 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), swisstopo, © 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

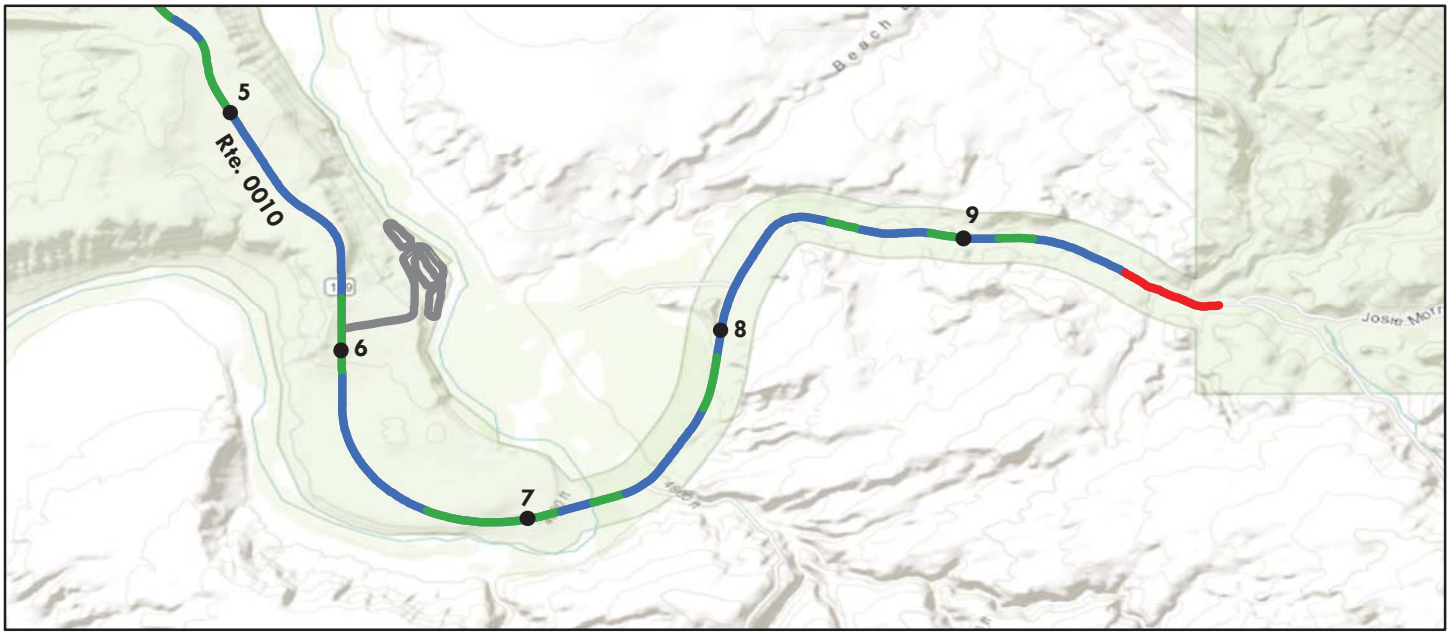
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 8/15/2017	**Beginning Section MP**	0	1	2	3	4
Paved Length (Miles): 9.81	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	95	95	99	94	92	94
Surface Condition Rating (SCR)	91	98	98	90	90	90
Roughness Condition Index (RCI)	100	91	100	100	95	100
Distress Index Values						
Structural Crack Index	95	98	100	99	98	98
Alligator Crack Index	99	100	100	100	100	100
Longitudinal Crack Index	96	98	100	99	98	98
Transverse Cracking Index	91	98	98	90	90	90
Patching Index	99	100	98	100	100	100
Rutting Index	99	99	99	100	100	100
International Roughness Index (IRI)	93	139	75	96	127	89
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	27.1	26.8	31.4	26.1	26.2	27.2
Lane Width (ft)	10.2	10.3	10.6	9.9	10.3	10.4

Dinosaur National Monument

ROUTE 0010: GRD MAIN 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), swisstopo, © 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

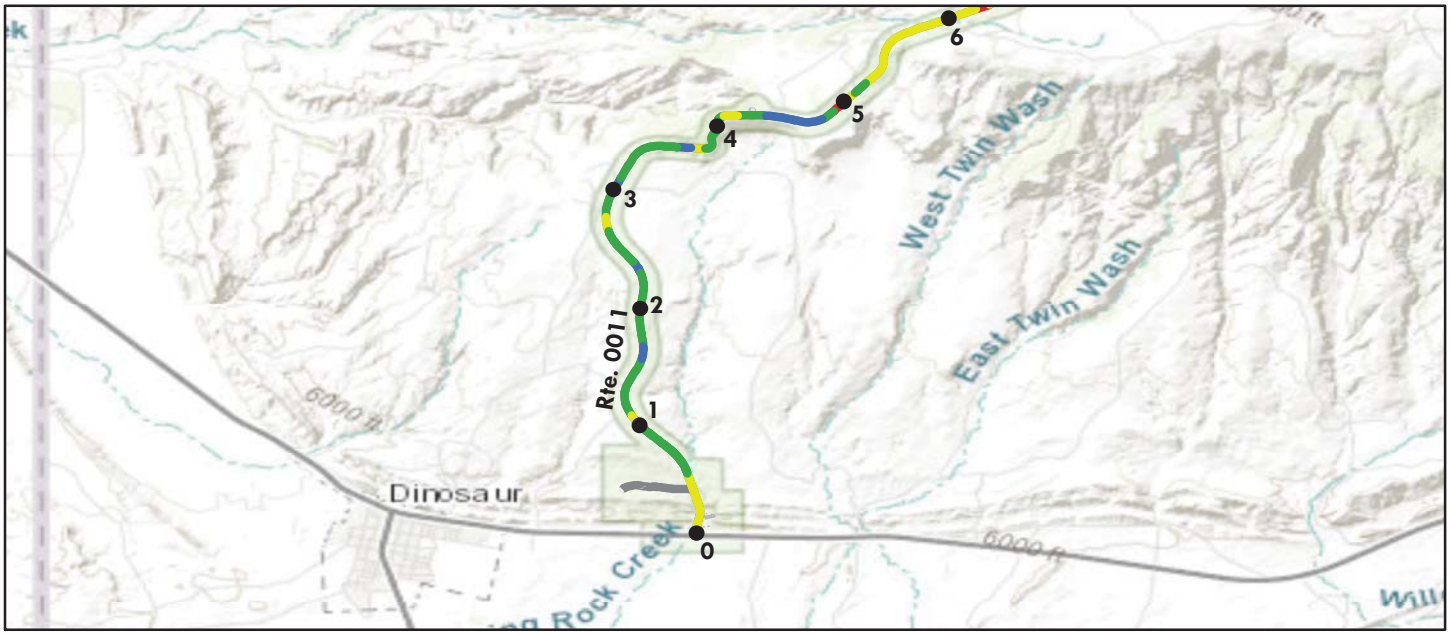
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 8/15/2017	**Beginning Section MP**	5	6	7	8	9
Paved Length (Miles): 9.81	**Section Length (MI)**	1	1	1	1	0.81
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	95	96	95	95	97	70
Surface Condition Rating (SCR)	91	94	92	92	95	58
Roughness Condition Index (RCI)	100	100	100	100	100	89
Distress Index Values						
Structural Crack Index	95	96	100	100	99	58
Alligator Crack Index	99	100	100	100	100	89
Longitudinal Crack Index	96	96	100	100	99	69
Transverse Cracking Index	91	94	92	92	95	63
Patching Index	99	100	100	100	100	96
Rutting Index	99	100	100	100	99	95
International Roughness Index (IRI)	93	56	49	78	90	143
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	27.1	28.6	26.4	26.3	27.2	24.6
Lane Width (ft)	10.2	10.3	10.2	10.2	10.3	9.9

Dinosaur National Monument

ROUTE 0011: HARPERS CORNER 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), swisstopo, © 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

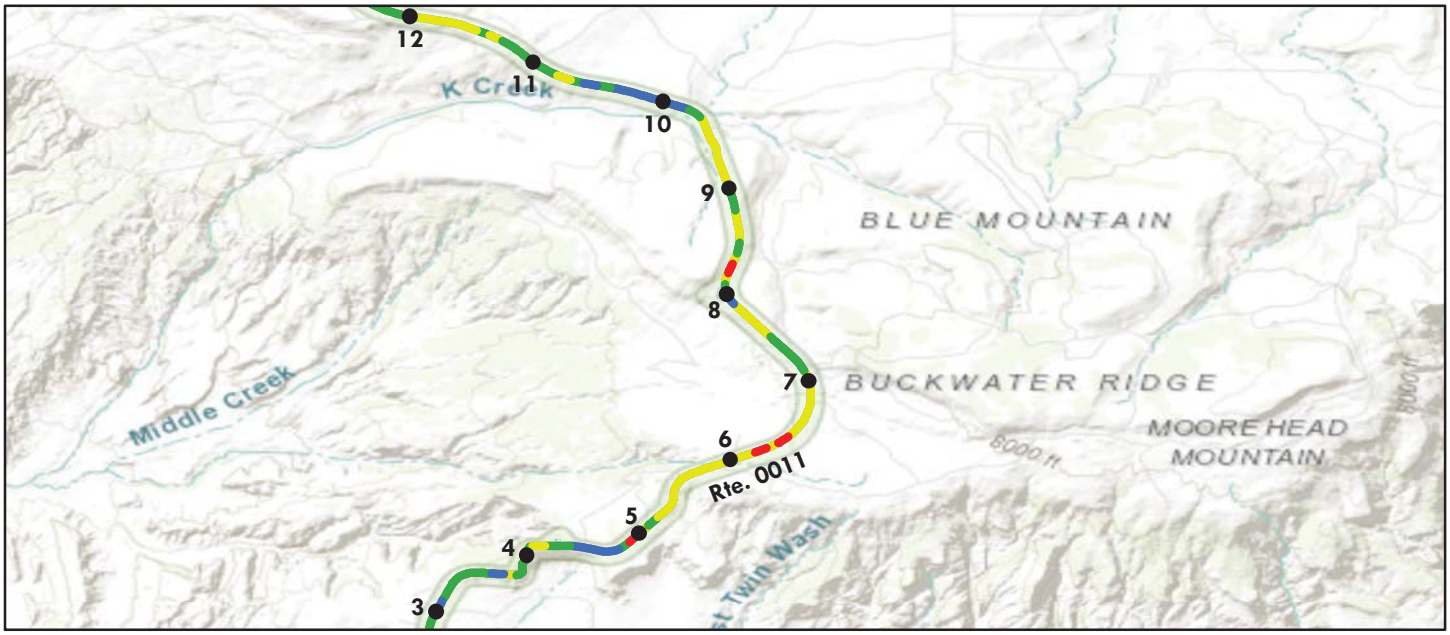
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 8/15/2017	**Beginning Section MP**	0	1	2	3	4
Paved Length (Miles): 31.88	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	90	82	90	91	91	91
Surface Condition Rating (SCR)	94	88	90	89	90	91
Roughness Condition Index (RCI)	85	73	89	94	93	90
Distress Index Values						
Structural Crack Index	95	89	94	95	94	91
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	95	89	94	95	94	91
Transverse Cracking Index	94	88	90	89	90	91
Patching Index	100	97	100	100	100	99
Rutting Index	94	95	96	96	95	95
International Roughness Index (IRI)	154	190	143	130	133	141
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	26.7	30.3	30.8	31.6	30.1	30
Lane Width (ft)	10.3	10.6	10.4	10.4	10.5	10.9

Dinosaur National Monument

ROUTE 0011: HARPERS CORNER 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), swisstopo, © 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

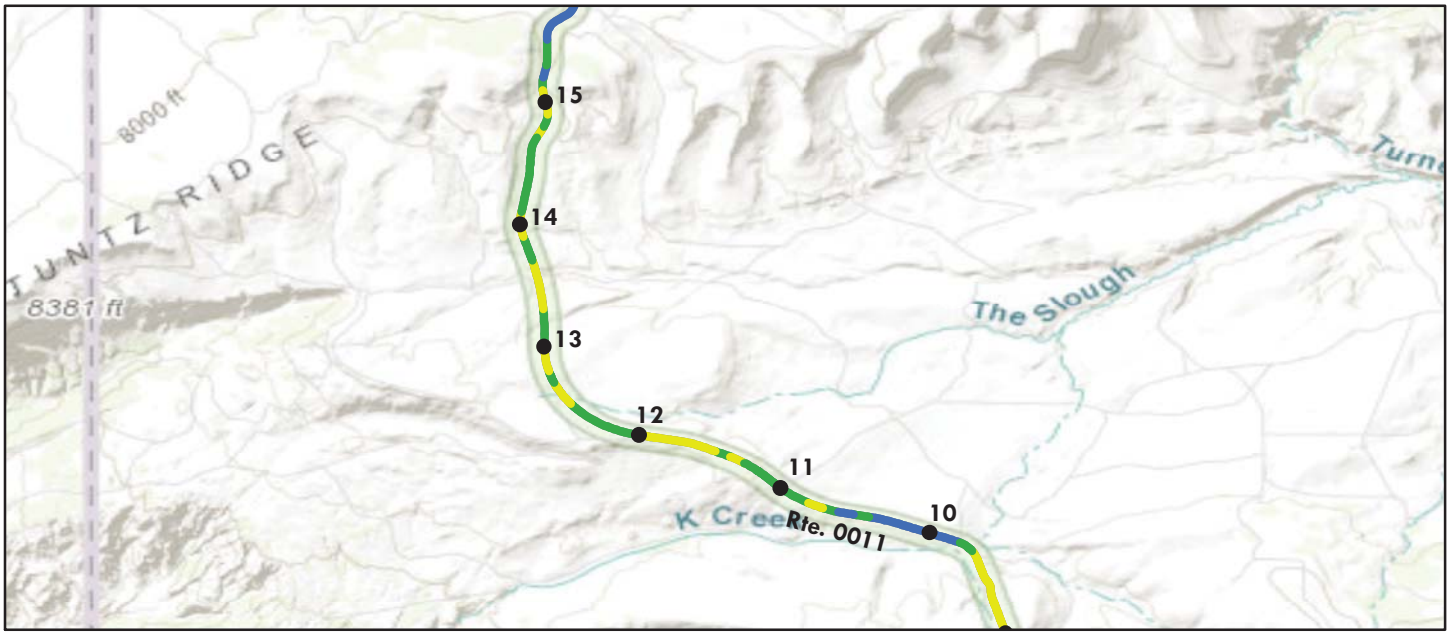
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 8/15/2017	**Beginning Section MP**	5	6	7	8	9
Paved Length (Miles): 31.88	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	90	76	70	85	78	86
Surface Condition Rating (SCR)	94	87	80	89	86	94
Roughness Condition Index (RCI)	85	60	55	79	66	75
Distress Index Values						
Structural Crack Index	95	91	80	92	86	98
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	95	91	80	92	86	98
Transverse Cracking Index	94	92	90	89	90	95
Patching Index	100	100	100	100	98	100
Rutting Index	94	87	87	92	90	94
International Roughness Index (IRI)	154	239	260	172	217	186
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	26.7	31	32.5	28.3	26.8	30.8
Lane Width (ft)	10.3	11.8	13.1	11.6	10.7	10.8

Dinosaur National Monument

ROUTE 0011: HARPERS CORNER 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), swisstopo, © 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

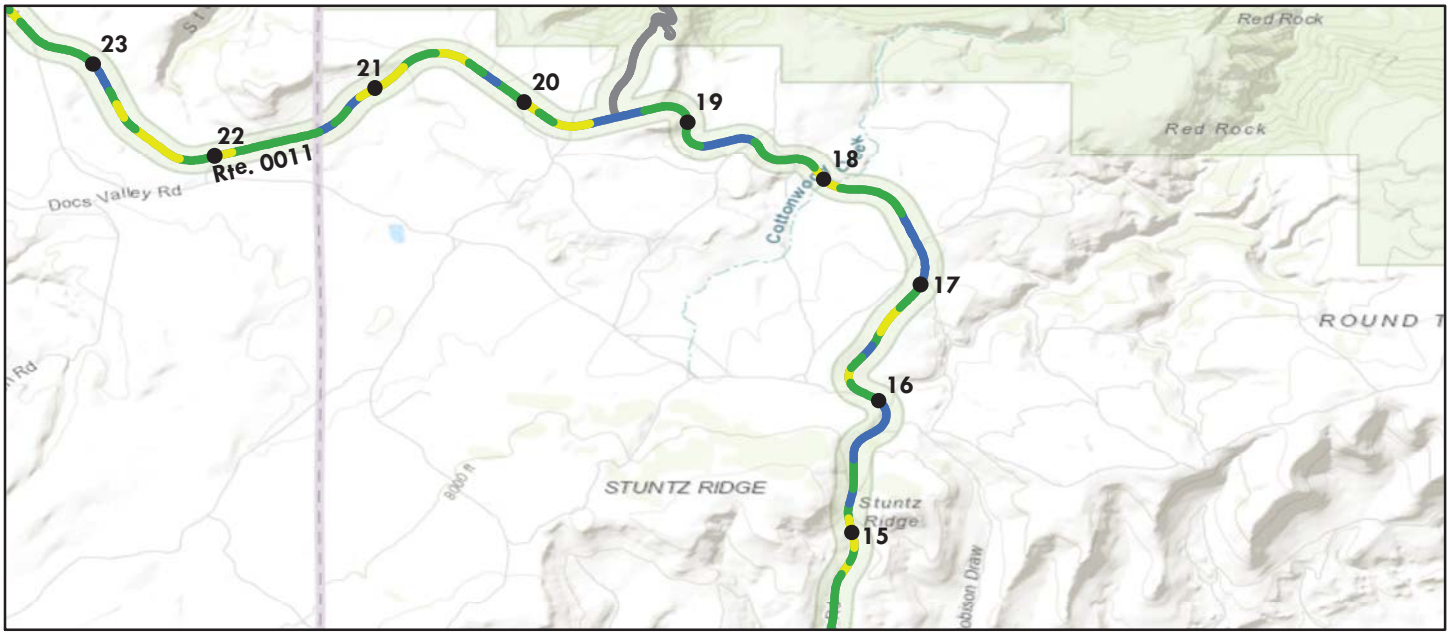
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 8/15/2017	**Beginning Section MP**	10	11	12	13	14
Paved Length (Miles): 31.88	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	90	92	86	86	83	87
Surface Condition Rating (SCR)	94	91	85	88	83	89
Roughness Condition Index (RCI)	85	93	87	82	84	85
Distress Index Values						
Structural Crack Index	95	97	85	89	93	96
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	95	97	85	89	93	96
Transverse Cracking Index	94	91	86	88	83	89
Patching Index	100	100	100	100	100	100
Rutting Index	94	95	94	90	95	93
International Roughness Index (IRI)	154	131	150	164	156	156
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	26.7	25.8	26.3	27.1	28.3	26.8
Lane Width (ft)	10.3	10.3	9.8	10.2	9.9	10.3

Dinosaur National Monument

ROUTE 0011: HARPERS CORNER 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), swisstopo, © 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

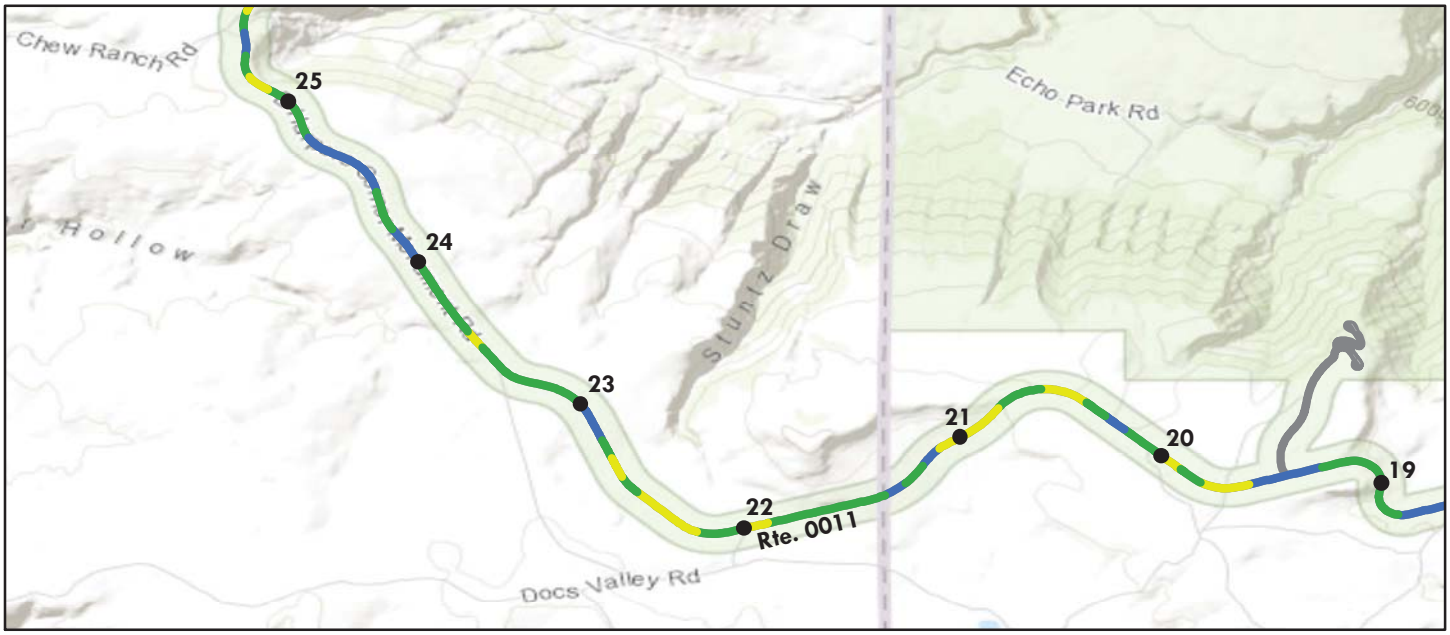
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 8/15/2017	**Beginning Section MP**	15	16	17	18	19
Paved Length (Miles): 31.88	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	90	92	88	96	91	91
Surface Condition Rating (SCR)	94	94	91	96	94	96
Roughness Condition Index (RCI)	85	90	84	95	86	83
Distress Index Values						
Structural Crack Index	95	98	100	96	96	98
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	95	98	100	96	96	98
Transverse Cracking Index	94	98	99	98	94	96
Patching Index	100	99	99	100	100	100
Rutting Index	94	94	91	96	96	96
International Roughness Index (IRI)	154	140	158	127	152	160
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	26.7	28.5	27.5	25.2	28.7	26.5
Lane Width (ft)	10.3	9.7	10	10.1	9.9	9.9

Dinosaur National Monument

ROUTE 0011: HARPERS CORNER 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), swisstopo, © 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

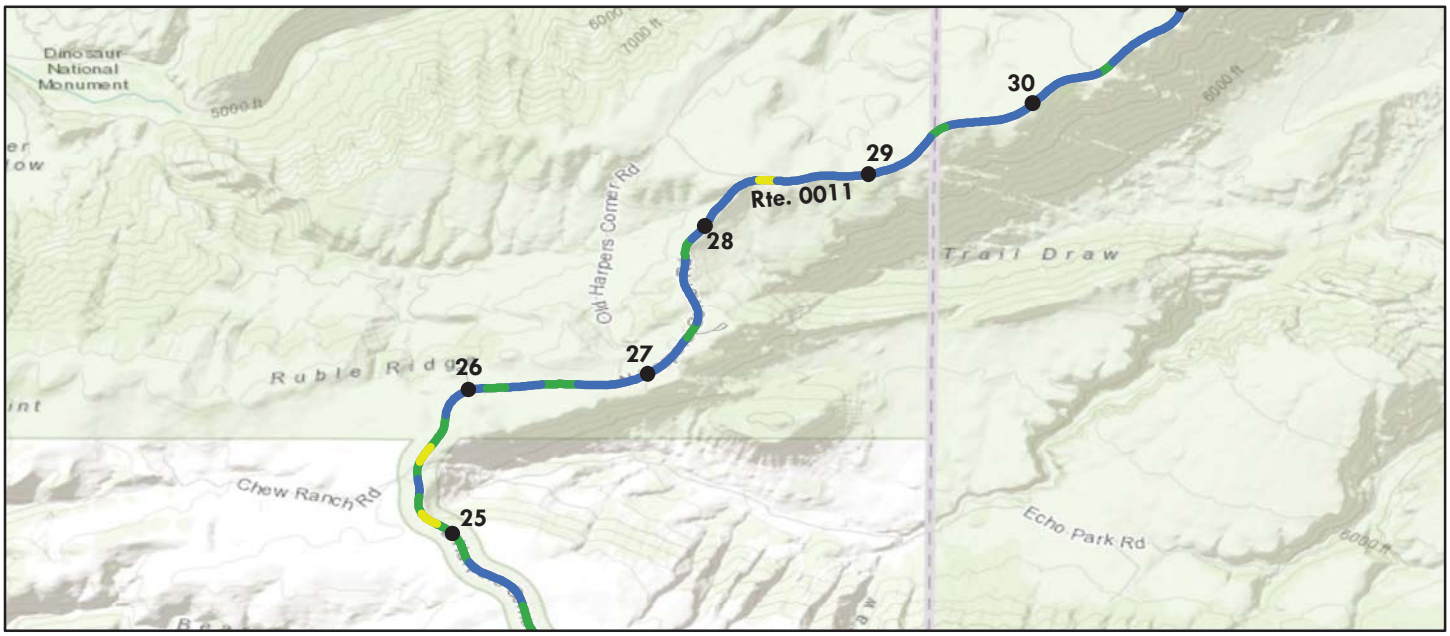
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 8/15/2017	**Beginning Section MP**	20	21	22	23	24
Paved Length (Miles): 31.88	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	90	86	92	87	89	95
Surface Condition Rating (SCR)	94	93	92	93	93	94
Roughness Condition Index (RCI)	85	75	92	78	83	97
Distress Index Values						
Structural Crack Index	95	97	92	98	99	100
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	95	97	92	98	99	100
Transverse Cracking Index	94	97	97	99	99	99
Patching Index	100	99	99	100	100	100
Rutting Index	94	93	94	93	93	94
International Roughness Index (IRI)	154	186	135	175	160	122
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	26.7	27	24.2	22.4	23.9	27.3
Lane Width (ft)	10.3	10.4	9.9	9.1	9.2	9.6

Dinosaur National Monument

ROUTE 0011: HARPERS CORNER 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), swisstopo, © 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: 8/15/2017	**Beginning Section MP**	25	26	27	28	29
Paved Length (Miles): 31.88	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	90	89	95	98	98	99
Surface Condition Rating (SCR)	94	92	95	97	96	98
Roughness Condition Index (RCI)	85	84	94	100	100	100
Distress Index Values						
Structural Crack Index	95	99	100	100	100	100
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	95	99	100	100	100	100
Transverse Cracking Index	94	99	99	99	100	100
Patching Index	100	99	100	100	100	100
Rutting Index	94	92	95	97	96	98
International Roughness Index (IRI)	154	158	129	114	99	98
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	26.7	25.6	22.6	21.9	22.6	22.2
Lane Width (ft)	10.3	10	9.9	9.6	9.6	9.9

Dinosaur National Monument

ROUTE 0011: HARPERS CORNER 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), swisstopo, © 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

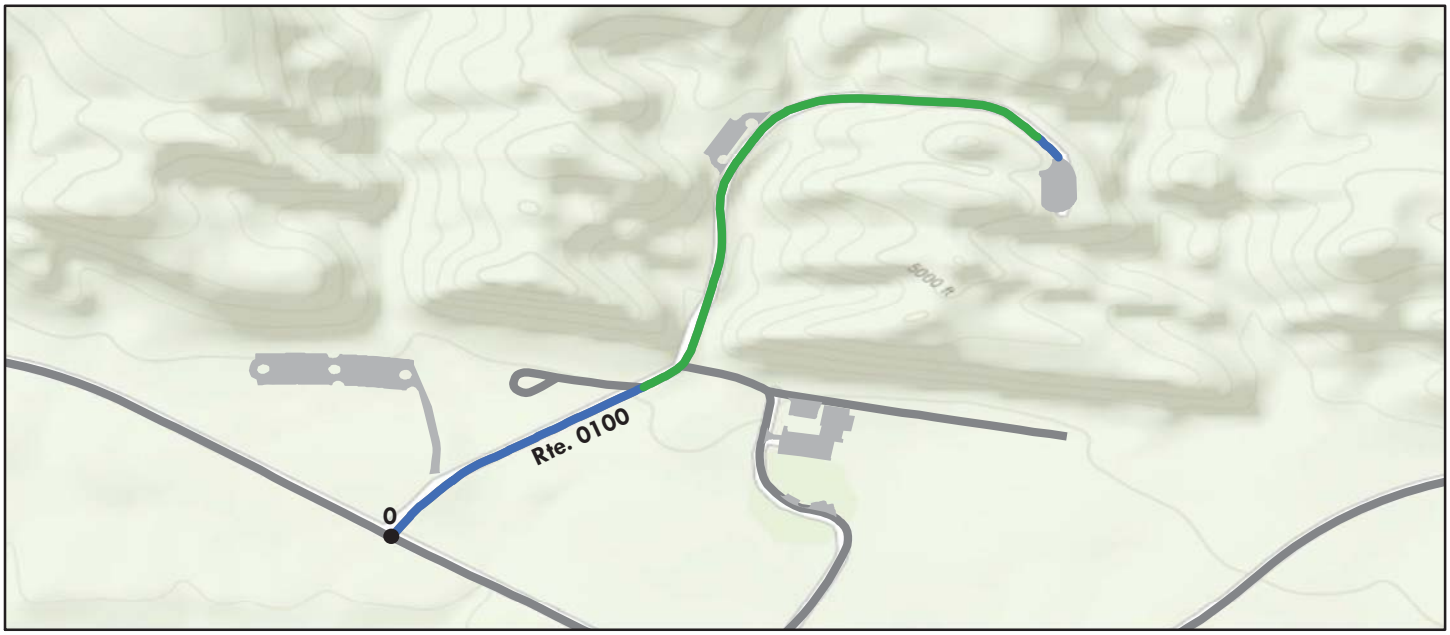
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 8/15/2017	**Beginning Section MP**	30	31			
Paved Length (Miles): 31.88	**Section Length (MI)**	1	0.88			
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	90	98	89			
Surface Condition Rating (SCR)	94	97	88			
Roughness Condition Index (RCI)	85	100	91			
Distress Index Values						
Structural Crack Index	95	100	88			
Alligator Crack Index	100	100	100			
Longitudinal Crack Index	95	100	88			
Transverse Cracking Index	94	100	98			
Patching Index	100	100	100			
Rutting Index	94	97	97			
International Roughness Index (IRI)	154	100	139			
Lane & Width Information						
Number of Lanes	2	2	1			
Paved Width (ft)	26.7	21.8	19.6			
Lane Width (ft)	10.3	10	10.3			

Dinosaur National Monument

ROUTE 0100: QUARRY 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), swisstopo, © 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: 8/15/2017	**Beginning Section MP**	0				
Paved Length (Miles): 0.62	**Section Length (MI)**	0.62				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	92	92				
Surface Condition Rating (SCR)	97	97				
Roughness Condition Index (RCI)	85	85				
Distress Index Values						
Structural Crack Index	97	97				
Alligator Crack Index	100	100				
Longitudinal Crack Index	97	97				
Transverse Cracking Index	97	97				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	154	154				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	27.5	27.5				
Lane Width (ft)	10.2	10.2				

Dinosaur National Monument

ROUTE 0101: DEERLODGE 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), swisstopo, © 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

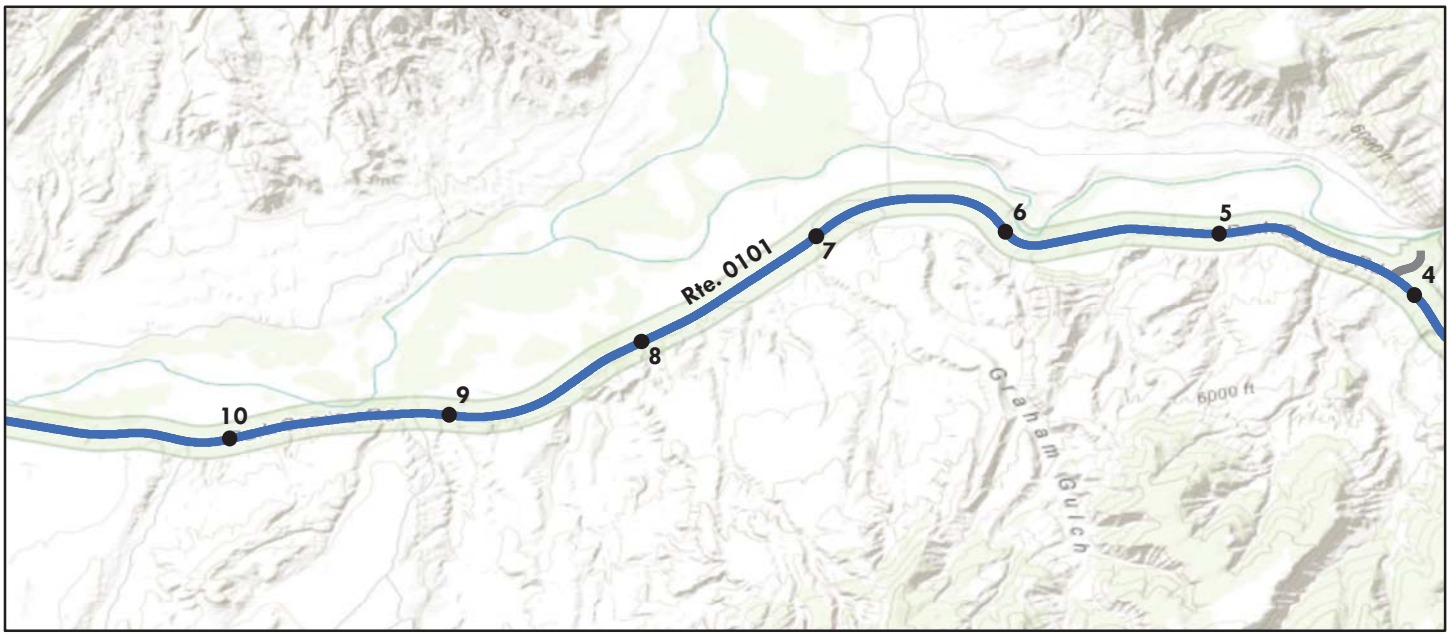
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 8/15/2017	**Beginning Section MP**	0	1	2	3	4
Paved Length (Miles): 12.67	**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)	58	65	58	60	62	53
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	19	19.6	19.1	19.3	19	18.6
Lane Width (ft)	8.3	8.8	8.4	8.2	8.4	8.1

Dinosaur National Monument

ROUTE 0101: DEERLODGE 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), swisstopo, © 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

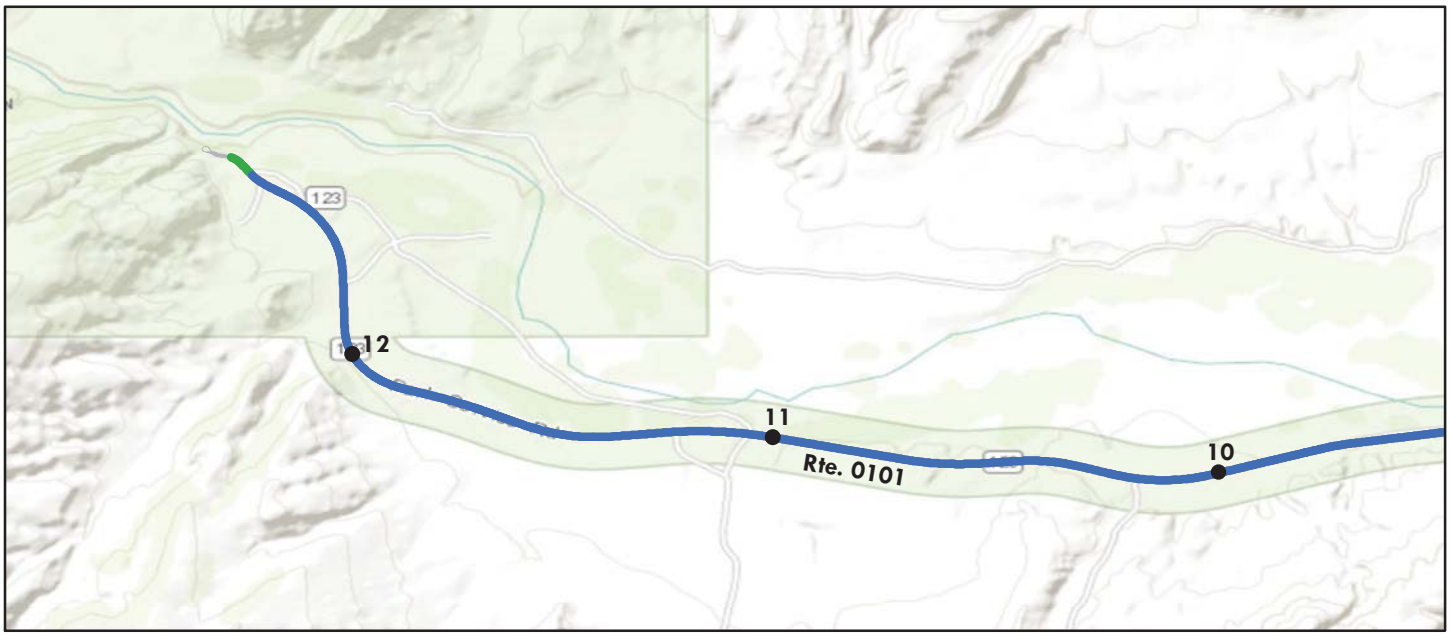
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 8/15/2017	**Beginning Section MP**	5	6	7	8	9
Paved Length (Miles): 12.67	**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)	58	52	49	52	52	55
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	19	18.6	18.2	18.4	18.7	19.1
Lane Width (ft)	8.3	8.6	7.9	8	8.6	8.4

Dinosaur National Monument

ROUTE 0101: DEERLODGE 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), swisstopo, © 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

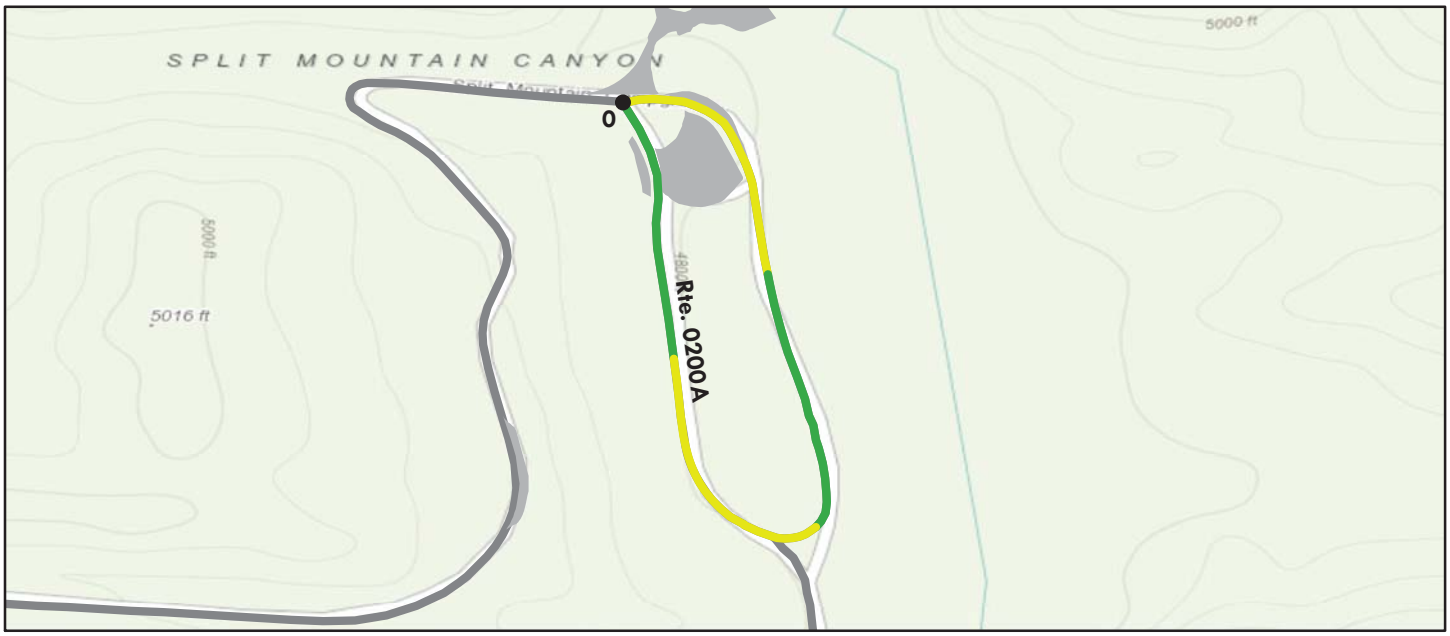
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 8/15/2017	**Beginning Section MP**	10	11	12		
Paved Length (Miles): 12.67	**Section Length (MI)**	1	1	0.67		
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	100	100	100	100		
Surface Condition Rating (SCR)	100	100	100	100		
Roughness Condition Index (RCI)	100	100	100	100		
Distress Index Values						
Structural Crack Index	100	100	100	100		
Alligator Crack Index	100	100	100	100		
Longitudinal Crack Index	100	100	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)	58	61	54	87		
Lane & Width Information						
Number of Lanes	2	2	2	2		
Paved Width (ft)	19	20.4	18.4	19.7		
Lane Width (ft)	8.3	8.1	7.9	8.1		

Dinosaur National Monument

ROUTE 0200A: SPLIT MOUNTAIN CAMPGROUND 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), swisstopo, © 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: 8/15/2017	**Beginning Section MP**	0				
Paved Length (Miles): 0.40	**Section Length (MI)**	0.40				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	87	87				
Surface Condition Rating (SCR)	87	87				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	91	91				
Alligator Crack Index	100	100				
Longitudinal Crack Index	91	91				
Transverse Cracking Index	87	87				
Patching Index	93	93				
Rutting Index	92	92				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	14	14				
Lane Width (ft)	14	14				

Dinosaur National Monument

ROUTE 0200B: SPLIT MOUNTAIN CAMPGROUND SPUR 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), swisstopo, © 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

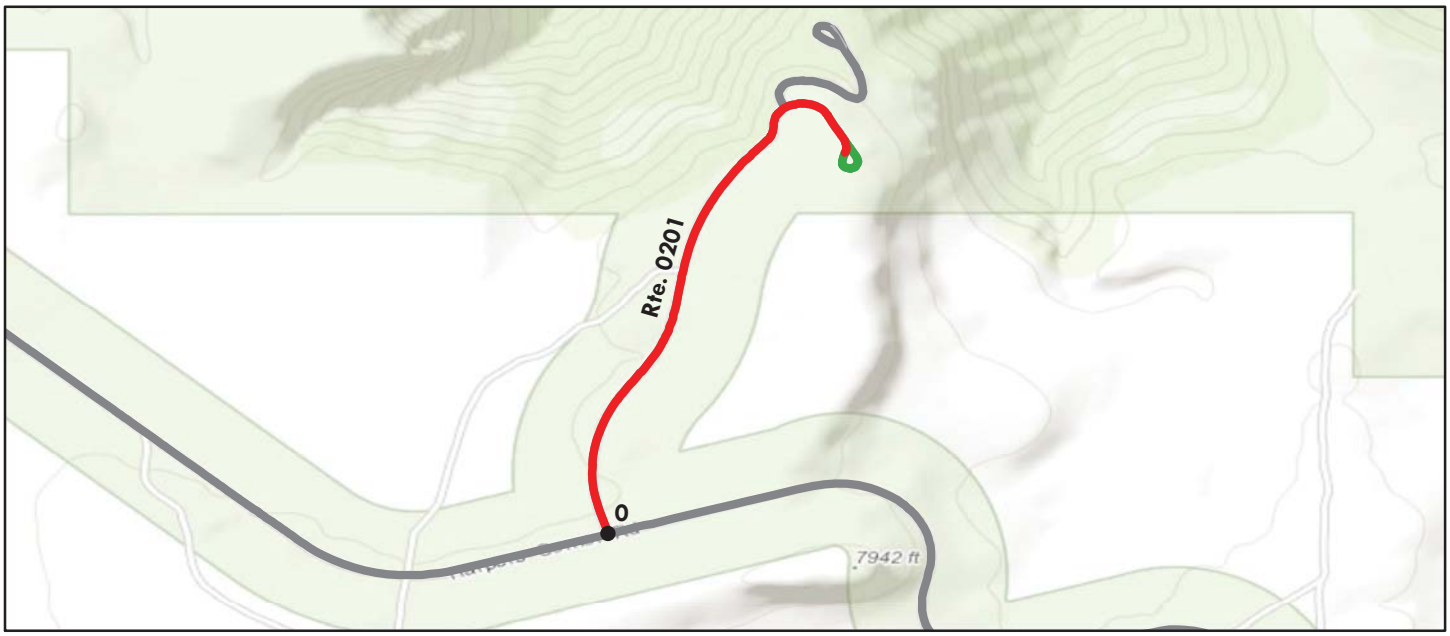
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 8/15/2017	**Beginning Section MP**	0				
Paved Length (Miles): 0.36	**Section Length (MI)**	0.36				
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	0	0				
Alligator Crack Index	99	99				
Longitudinal Crack Index	0	0				
Transverse Cracking Index	0	0				
Patching Index	99	99				
Rutting Index	87	87				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	16.3	16.3				
Lane Width (ft)	10.8	10.8				

Dinosaur National Monument

ROUTE 0201: CANYON OVERLOOK 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), swisstopo, © 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

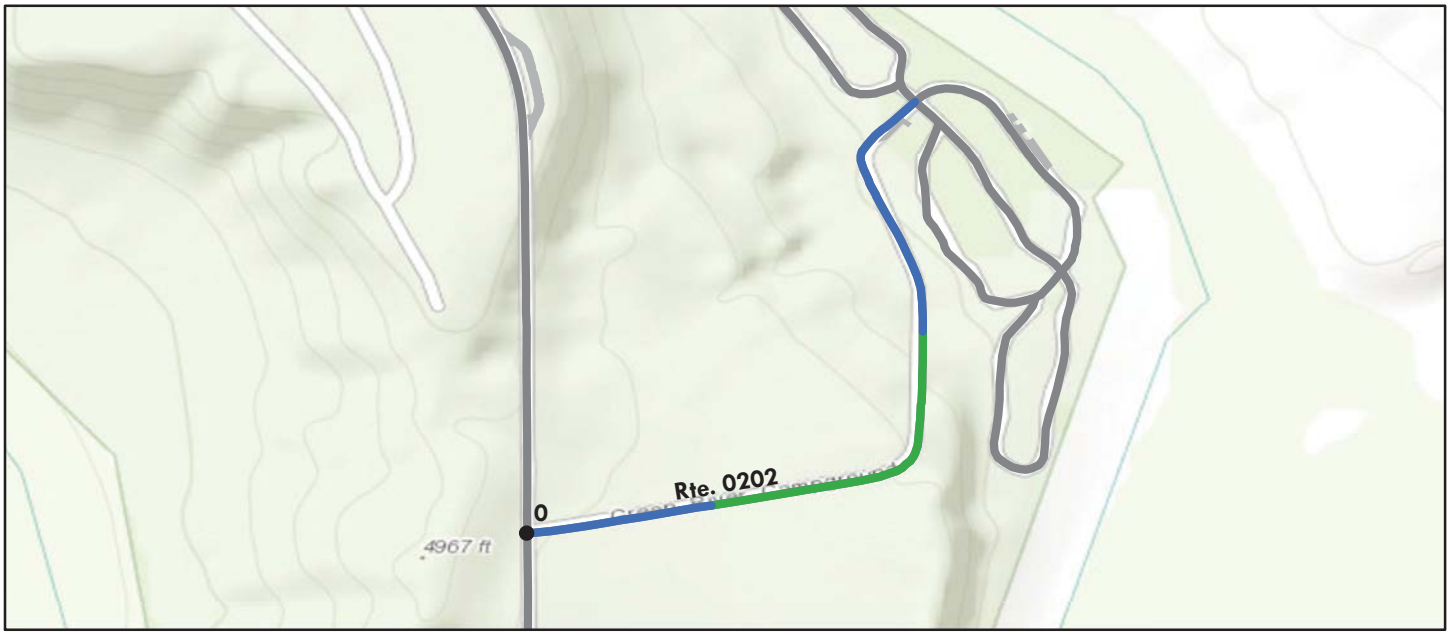
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 8/15/2017	**Beginning Section MP**	0				
Paved Length (Miles): 0.88	**Section Length (MI)**	0.88				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	27	27				
Surface Condition Rating (SCR)	0	0				
Roughness Condition Index (RCI)	67	67				
Distress Index Values						
Structural Crack Index	0	0				
Alligator Crack Index	88	88				
Longitudinal Crack Index	10	10				
Transverse Cracking Index	88	88				
Patching Index	100	100				
Rutting Index	83	83				
International Roughness Index (IRI)	213	213				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	22.8	22.8				
Lane Width (ft)	11.5	11.5				

Dinosaur National Monument

ROUTE 0202: GREEN RIVER 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), swisstopo, © 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

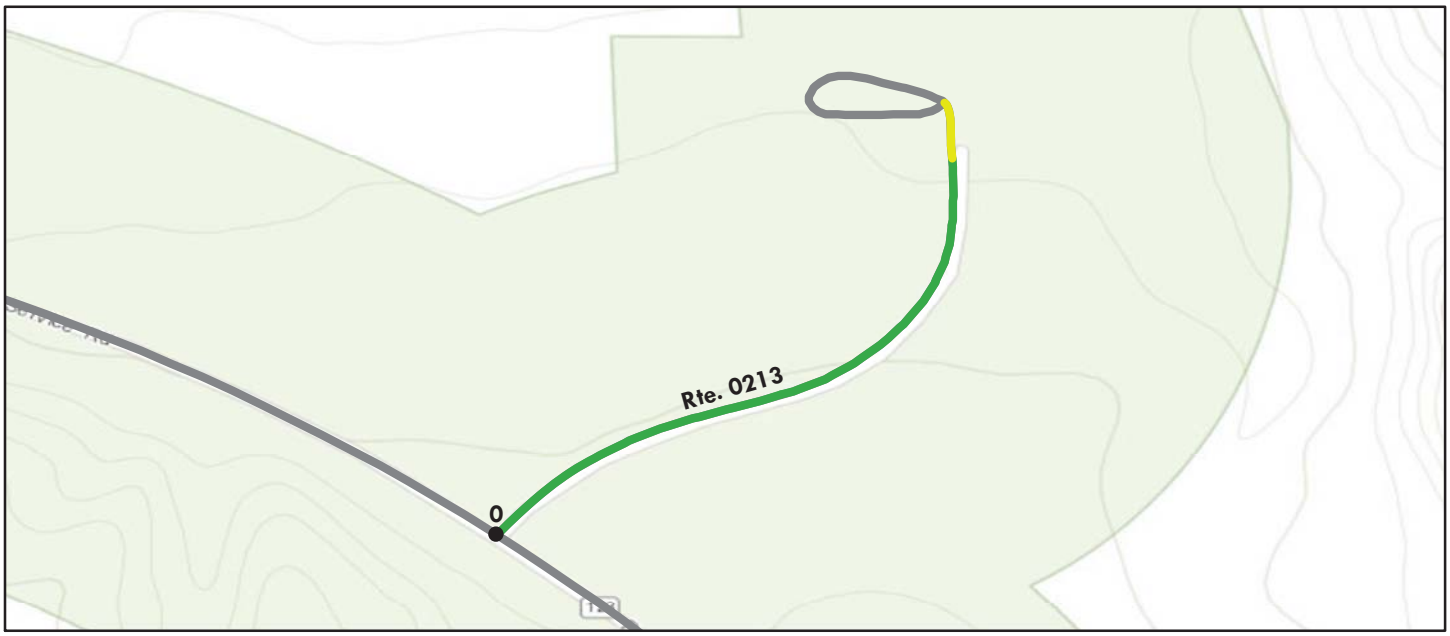
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 8/15/2017	**Beginning Section MP**	0				
Paved Length (Miles): 0.46	**Section Length (MI)**	0.46				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	95	95				
Surface Condition Rating (SCR)	95	95				
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	95	95				
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)	24.7	24.7				
Lane Width (ft)	10.7	10.7				

Dinosaur National Monument

ROUTE 0213: CROSS MOUNTAIN GORGE 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), swisstopo, © 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

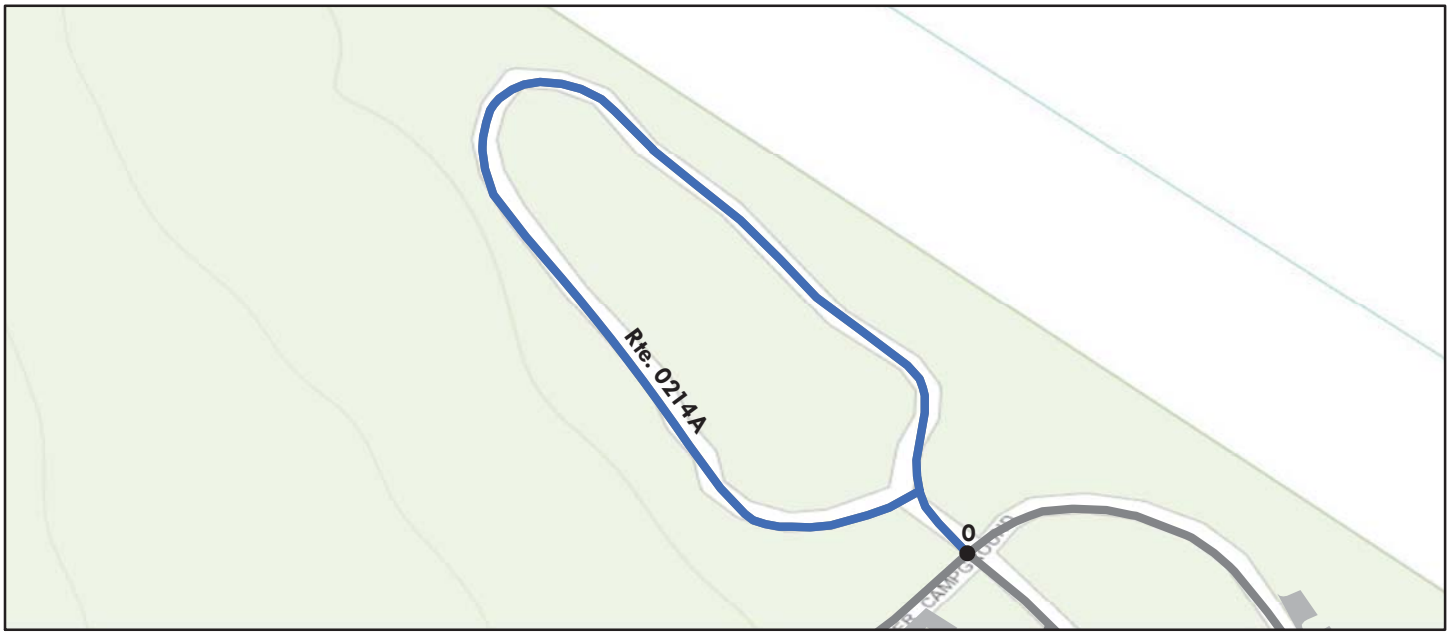
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 8/15/2017	**Beginning Section MP**	0				
Paved Length (Miles): 0.22	**Section Length (MI)**	0.22				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	94	94				
Surface Condition Rating (SCR)	94	94				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	95	95				
Alligator Crack Index	100	100				
Longitudinal Crack Index	95	95				
Transverse Cracking Index	94	94				
Patching Index	100	100				
Rutting Index	96	96				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	16.9	16.9				
Lane Width (ft)	7.3	7.3				

Dinosaur National Monument

ROUTE 0214A: GREEN RIVER CAMPGROUND LOOP ROAD 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), swisstopo, © 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

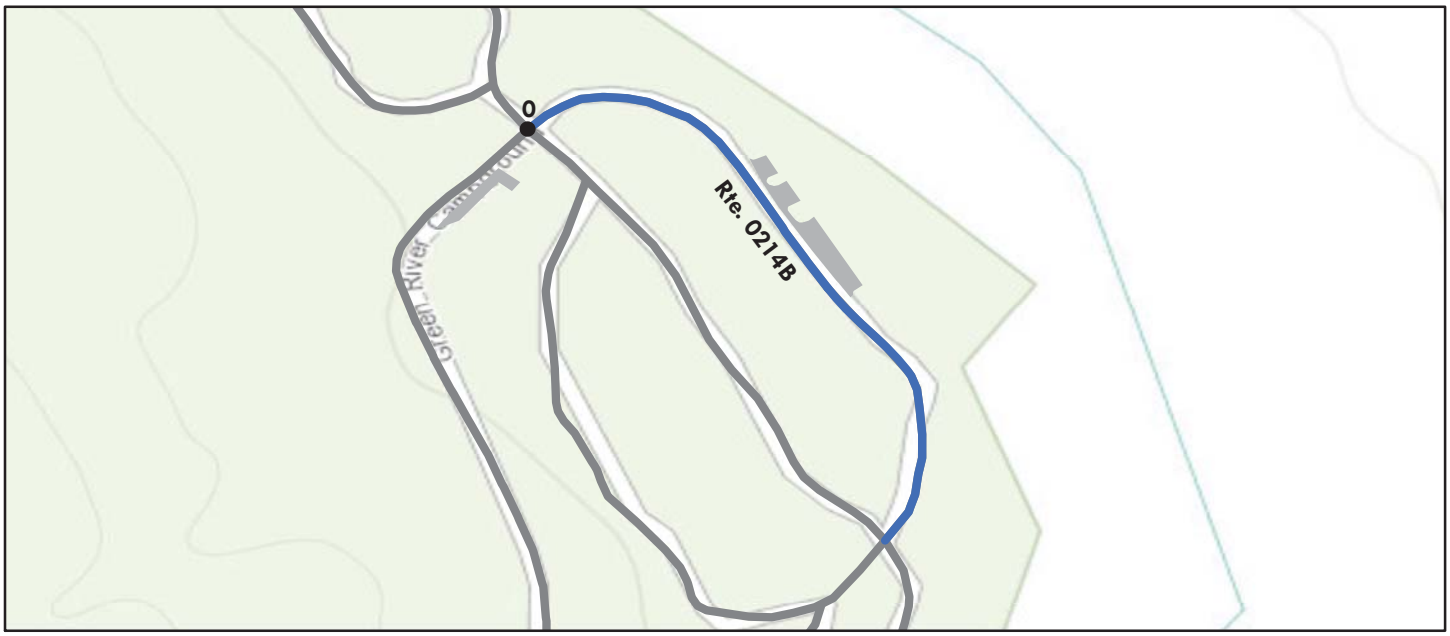
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 8/15/2017	**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)	96	96				
Surface Condition Rating (SCR)	96	96				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	99	99				
Alligator Crack Index	100	100				
Longitudinal Crack Index	99	99				
Transverse Cracking Index	97	97				
Patching Index	100	100				
Rutting Index	96	96				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	17.8	17.8				
Lane Width (ft)	17.8	17.8				

Dinosaur National Monument

ROUTE 0214B: GREEN RIVER CAMPGROUND LOOP ROAD 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), swisstopo, © 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

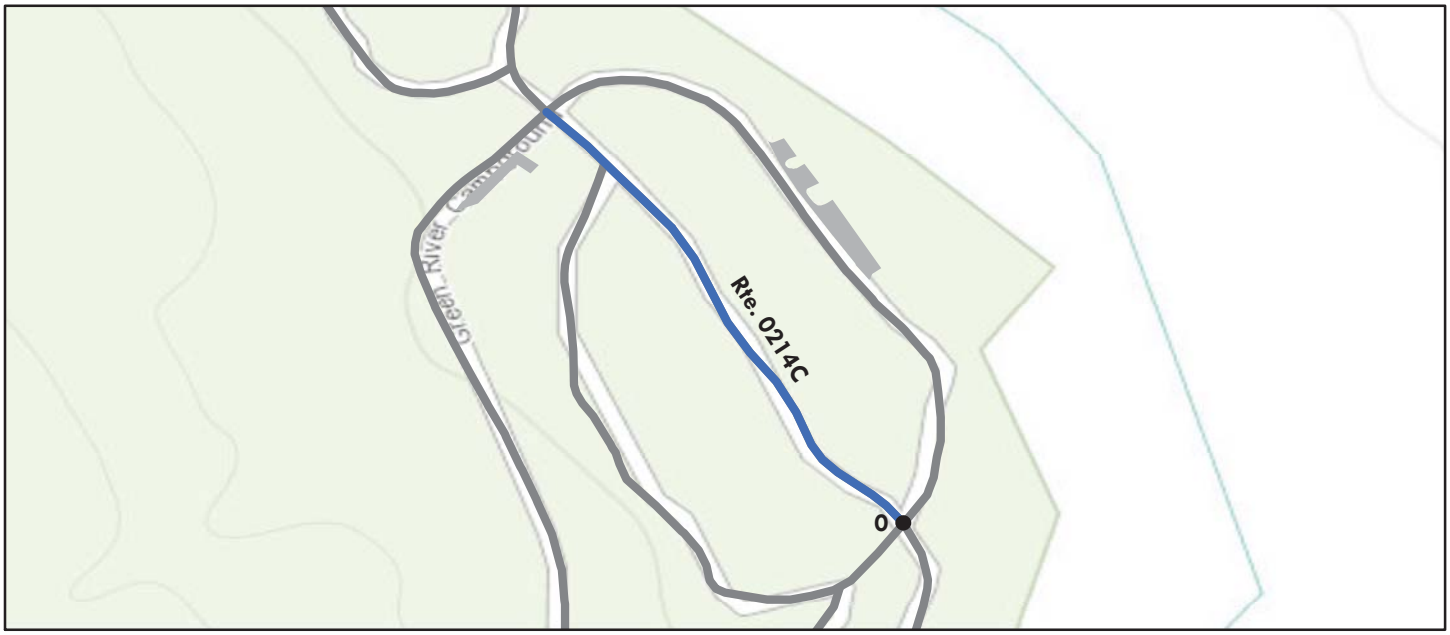
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 8/15/2017	**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)	98	98				
Surface Condition Rating (SCR)	98	98				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	99	99				
Alligator Crack Index	100	100				
Longitudinal Crack Index	99	99				
Transverse Cracking Index	99	99				
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)	21.3	21.3				
Lane Width (ft)	21.3	21.3				

Dinosaur National Monument

ROUTE 0214C: GREEN RIVER CAMPGROUND LOOP ROAD 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), swisstopo, © 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

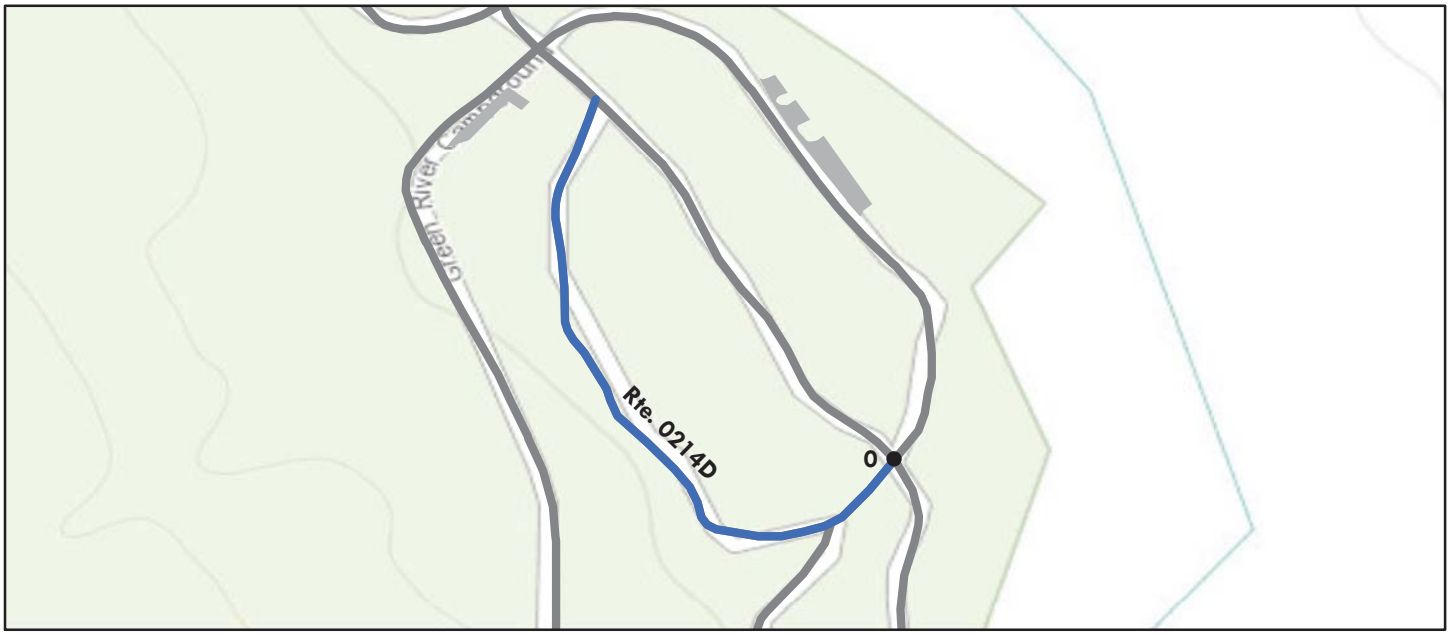
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 8/15/2017	**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)	18	18				
Lane Width (ft)	18	18				

Dinosaur National Monument

ROUTE 0214D: GREEN RIVER CAMPGROUND LOOP ROAD 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), swisstopo, © 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

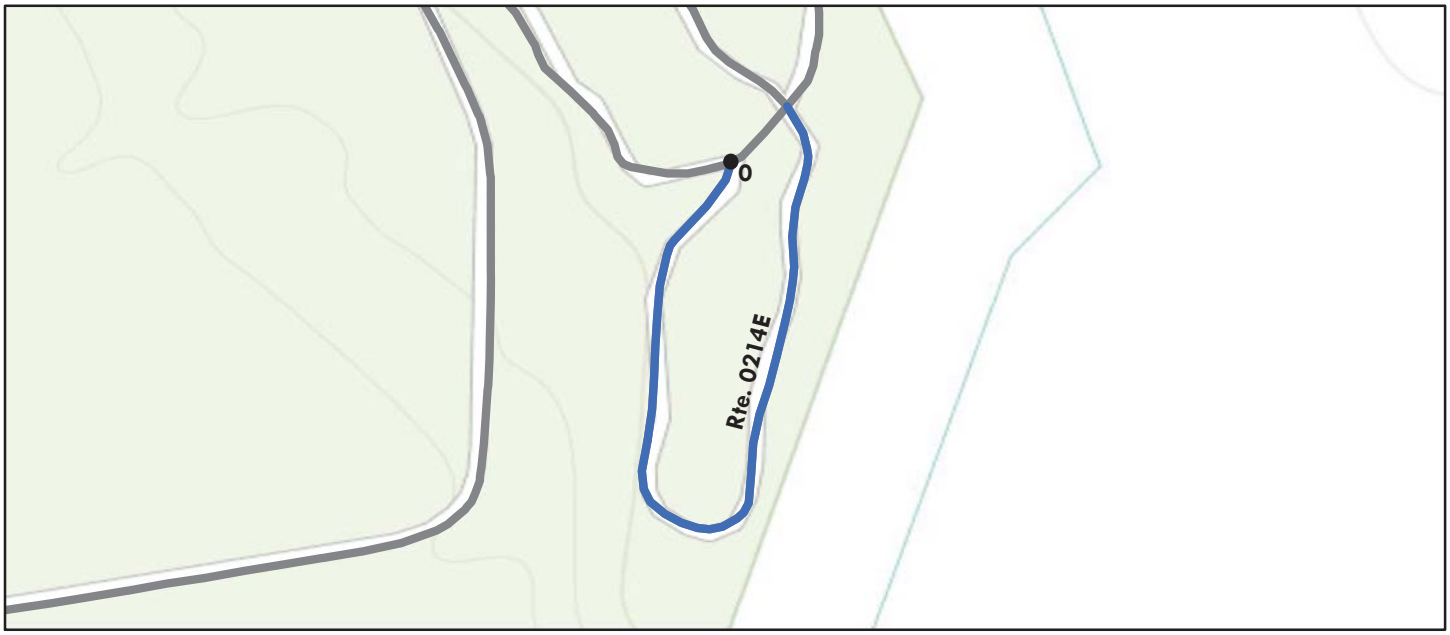
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 8/15/2017	**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)	98	98				
Surface Condition Rating (SCR)	98	98				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	99	99				
Alligator Crack Index	100	100				
Longitudinal Crack Index	99	99				
Transverse Cracking Index	99	99				
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)	16.2	16.2				
Lane Width (ft)	16.2	16.2				

Dinosaur National Monument

ROUTE 0214E: GREEN RIVER CAMPGROUND LOOP ROAD E

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), swisstopo, © 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

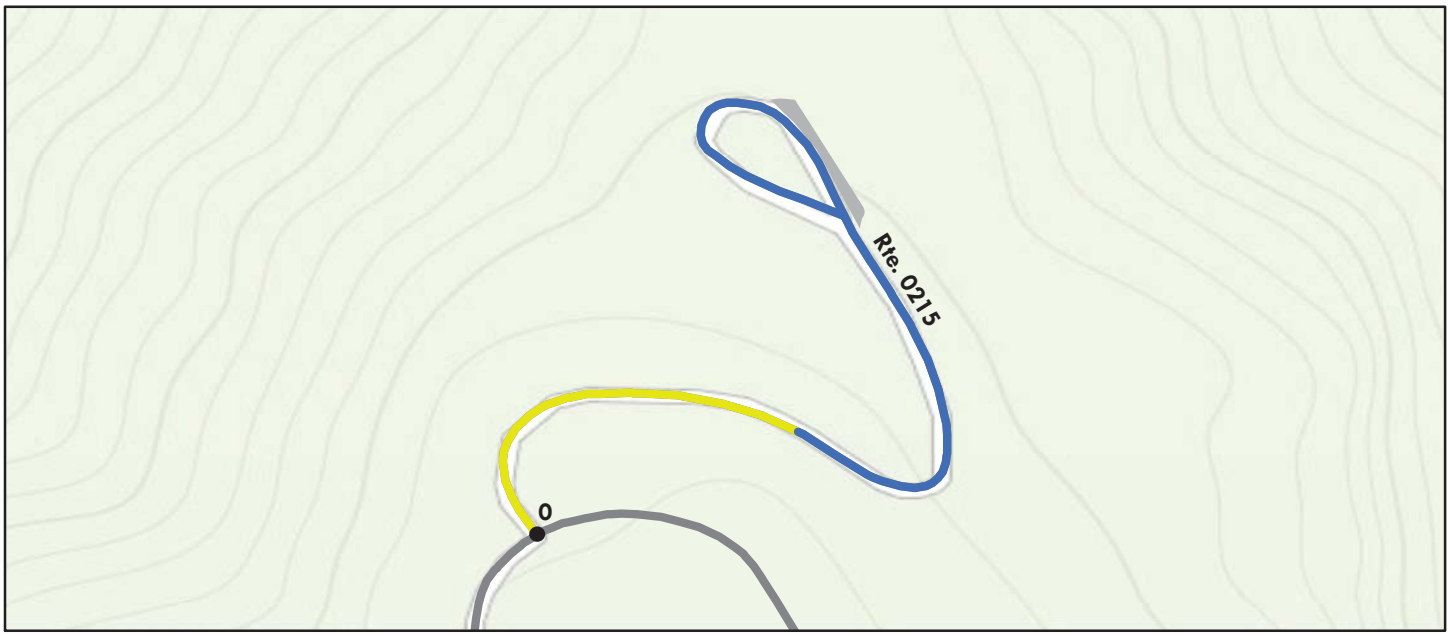
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 8/15/2017	**Beginning Section MP**	0				
Paved Length (Miles): 0.28	**Section Length (MI)**	0.28				
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	99	99				
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)	16.7	16.7				
Lane Width (ft)	16.7	16.7				

Dinosaur National Monument

ROUTE 0215: CANYON OVERLOOK LOWER 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), swisstopo, © 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

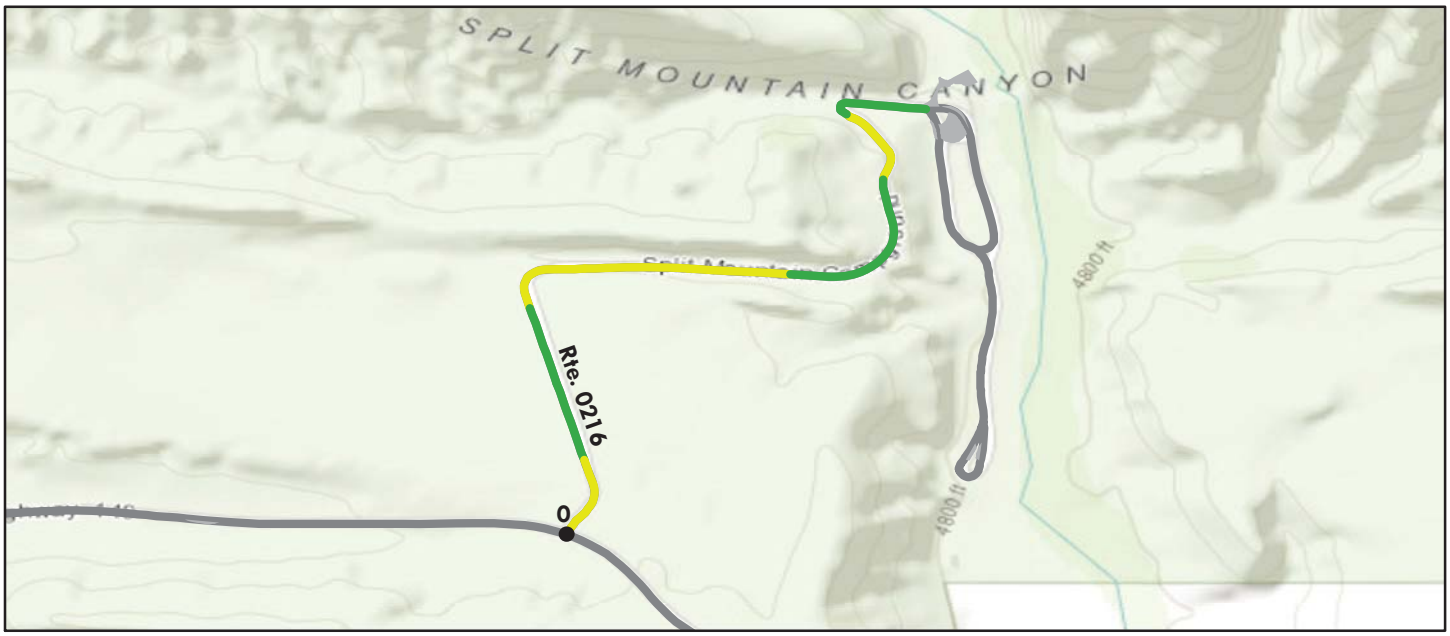
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 8/15/2017	**Beginning Section MP**	0				
Paved Length (Miles): 0.30	**Section Length (MI)**	0.30				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	94	94				
Surface Condition Rating (SCR)	94	94				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	94	94				
Alligator Crack Index	100	100				
Longitudinal Crack Index	94	94				
Transverse Cracking Index	99	99				
Patching Index	100	100				
Rutting Index	95	95				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	26.5	26.5				
Lane Width (ft)	10.4	10.4				

Dinosaur National Monument

ROUTE 0216: SPLIT MOUNTAIN 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), swisstopo, © 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

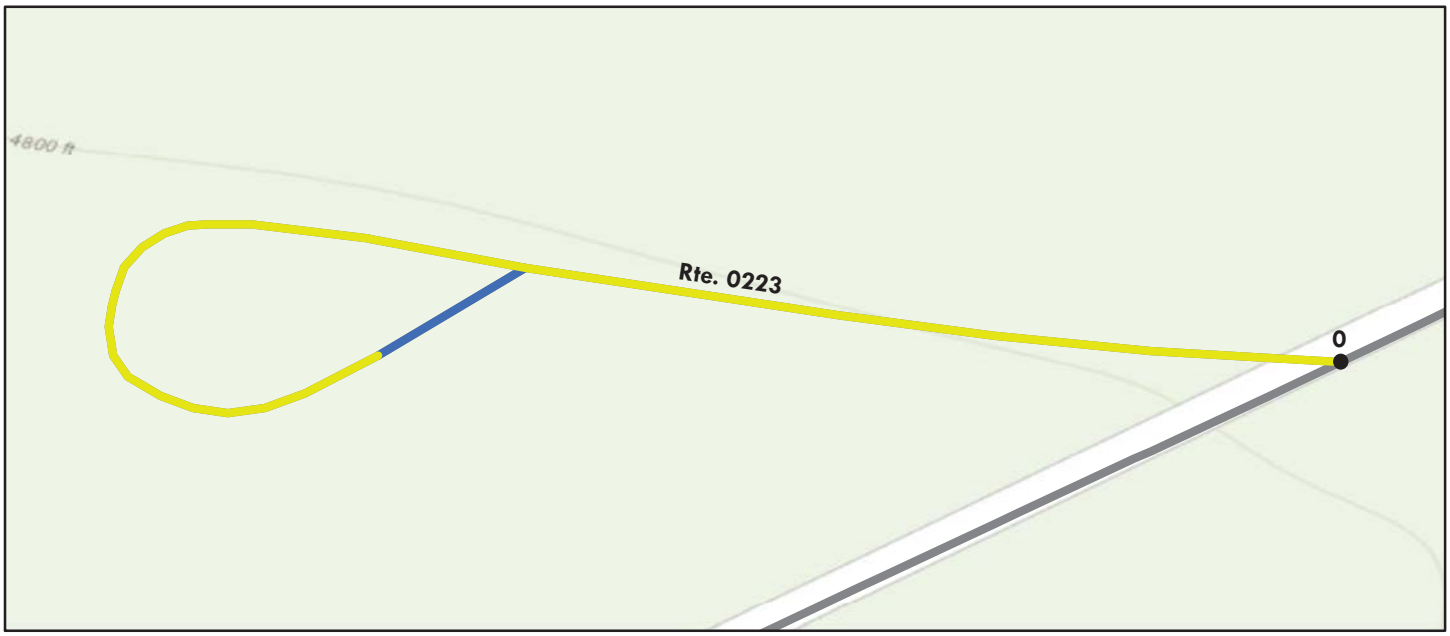
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 8/15/2017	**Beginning Section MP**	0				
Paved Length (Miles): 0.99	**Section Length (MI)**	0.99				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	81	81				
Surface Condition Rating (SCR)	91	91				
Roughness Condition Index (RCI)	66	66				
Distress Index Values						
Structural Crack Index	97	97				
Alligator Crack Index	100	100				
Longitudinal Crack Index	97	97				
Transverse Cracking Index	91	91				
Patching Index	100	100				
Rutting Index	96	96				
International Roughness Index (IRI)	217	217				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	23	23				
Lane Width (ft)	10	10				

Dinosaur National Monument

ROUTE 0223: QUARRY VISITOR CENTER SHUTTLE BUS PICKUP 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), swisstopo, © 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

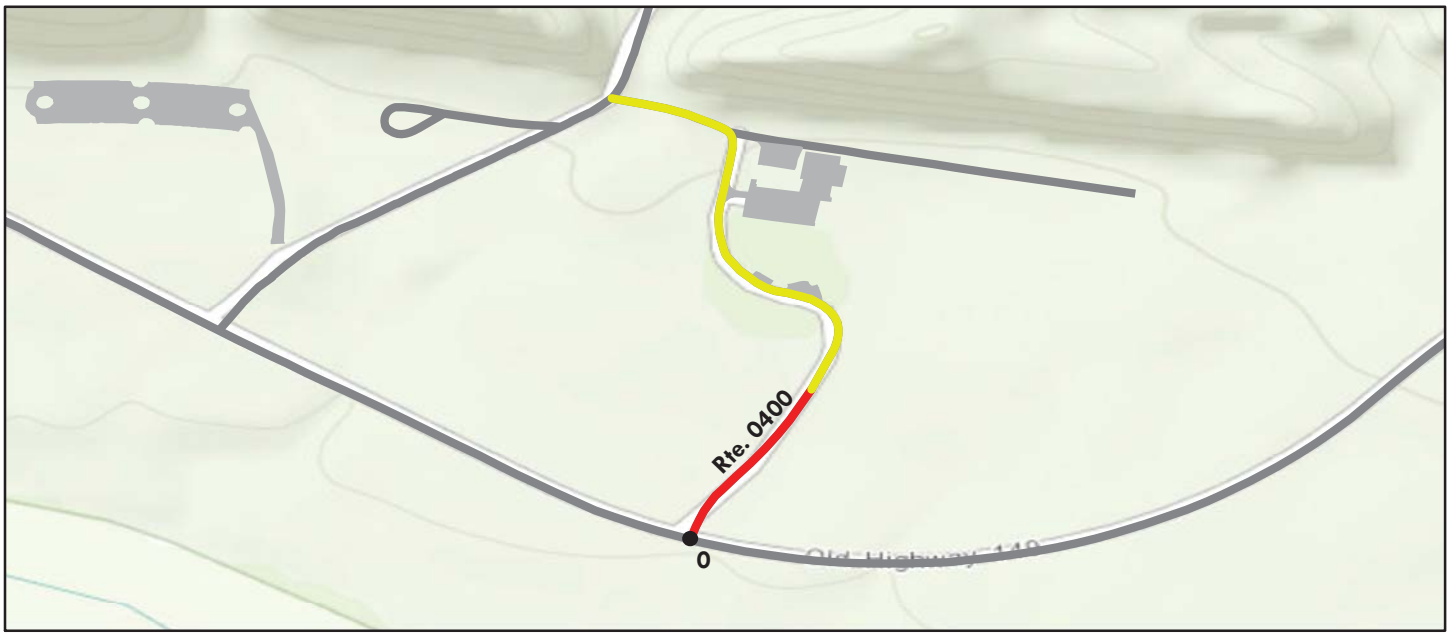
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 8/15/2017	**Beginning Section MP**	0				
Paved Length (Miles): 0.11	**Section Length (MI)**	0.11				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	86	86				
Surface Condition Rating (SCR)	86	86				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	86	86				
Alligator Crack Index	100	100				
Longitudinal Crack Index	86	86				
Transverse Cracking Index	90	90				
Patching Index	99	99				
Rutting Index	95	95				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	17.3	17.3				
Lane Width (ft)	12.1	12.1				

Dinosaur National Monument

ROUTE 0400: QUARRY HOUSING 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), swisstopo, © 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: 8/15/2017	**Beginning Section MP**	0				
Paved Length (Miles): 0.33	**Section Length (MI)**	0.33				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	73	73				
Surface Condition Rating (SCR)	73	73				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	78	78				
Alligator Crack Index	100	100				
Longitudinal Crack Index	78	78				
Transverse Cracking Index	73	73				
Patching Index	100	100				
Rutting Index	96	96				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	22.2	22.2				
Lane Width (ft)	8.9	8.9				

Dinosaur National Monument

ROUTE 0401: HEADQUARTERS HOUSING 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), swisstopo, © 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: 8/15/2017	**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)	76	76				
Surface Condition Rating (SCR)	76	76				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	88	88				
Alligator Crack Index	100	100				
Longitudinal Crack Index	88	88				
Transverse Cracking Index	76	76				
Patching Index	100	100				
Rutting Index	96	96				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	22.8	22.8				
Lane Width (ft)	10	10				

Dinosaur National Monument

ROUTE 0403: QUARRY WASTEWATER 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), swisstopo, © 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: 8/15/2017	**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)	77	77				
Surface Condition Rating (SCR)	77	77				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	77	77				
Alligator Crack Index	100	100				
Longitudinal Crack Index	77	77				
Transverse Cracking Index	87	87				
Patching Index	96	96				
Rutting Index	92	92				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	20.1	20.1				
Lane Width (ft)	10.1	10.1				

Section 6
Paved Parking Area Condition Rating Sheets

Dinosaur National Monument

Federal Lands Highway
Road Inventory Program

Dinosaur National Monument

ROUTE 0900: QUARRY VISITOR CENTER LOWER PARKING AREA

Manual Rating

FROM ROUTE 0100 (QUARRY ACCESS ROAD) AT MP 0.03

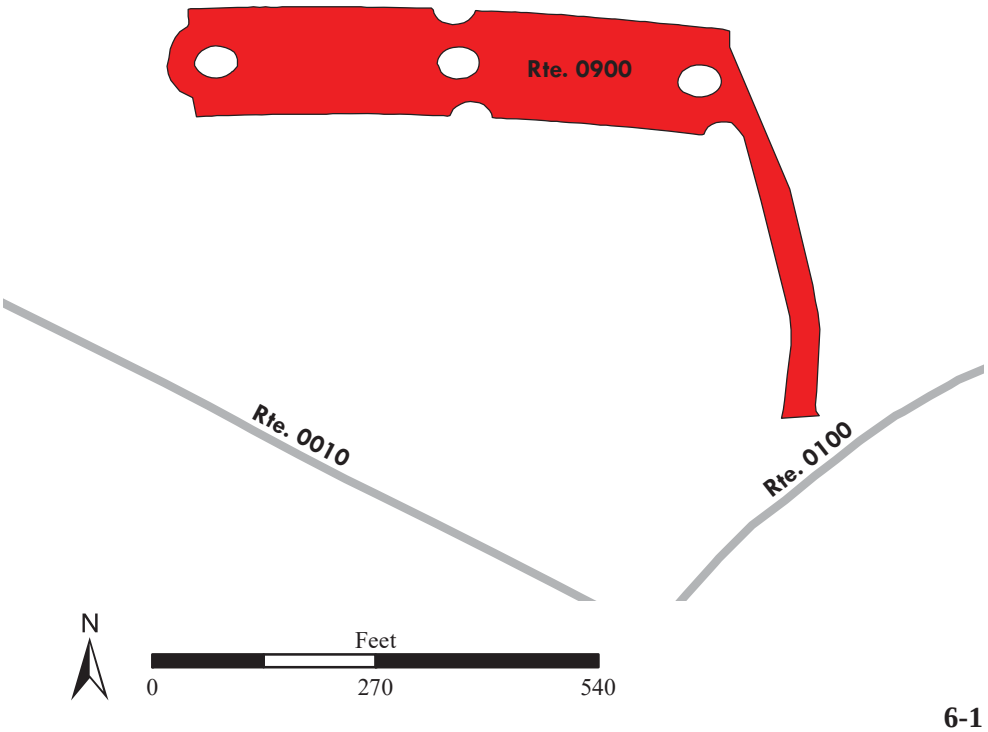
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	69047	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
71,969	1.239	NOT APPLICABLE	DO NOTHING
Curb Type		**Curb & Gutter Type**	
NO CURB		CONCRETE	
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**

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0901: QUARRY VISITORS CENTER PARKING

Manual Rating

FROM END OF ROUTE 0100 (QUARRY ACCESS ROAD)

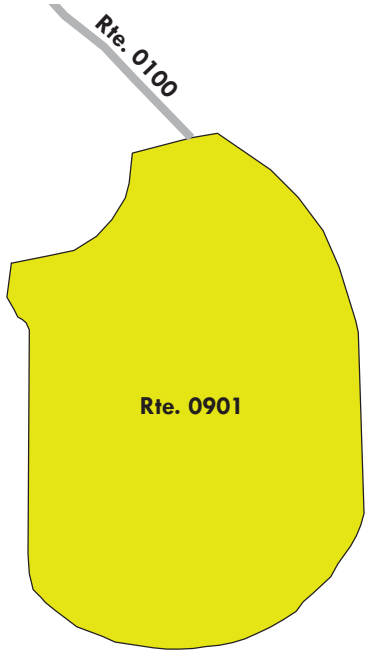
TO PARKING

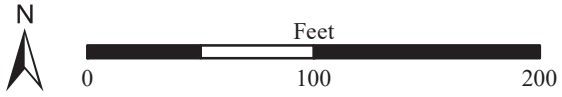
Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	69032	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
21,123	0.364	6	DO NOTHING
Curb Type		**Curb & Gutter Type**	
CONCRETE		CONCRETE	
Pavement Recommendation		**Condition Rating / 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





Dinosaur National Monument

ROUTE 0902: GREEN RIVER CAMPGROUND OVERLOOK

Manual Rating

FROM ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 5.57

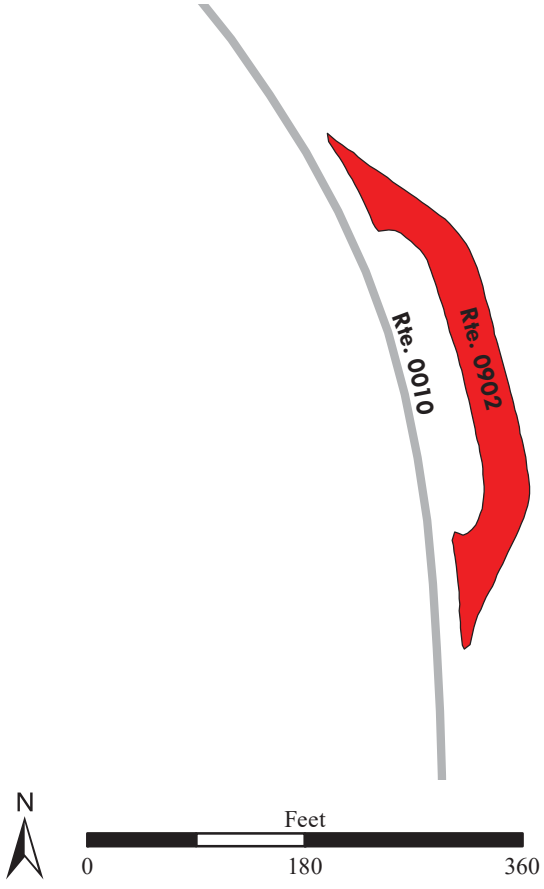
TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 5.63

Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	69469	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
11,221	0.193	7	LIGHT REPAIR
Curb Type		**Curb & Gutter Type**	
ASPHALT		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**

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0903: SPLIT MOUNTAIN CAMPGROUND BOAT RAMP PARKING

Manual Rating

FROM END OF ROUTE 0216 (SPLIT MOUNTAIN CAMPGROUND ACCESS ROAD) AND BEGINNING OF ROUTE 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD)

TO PARKING

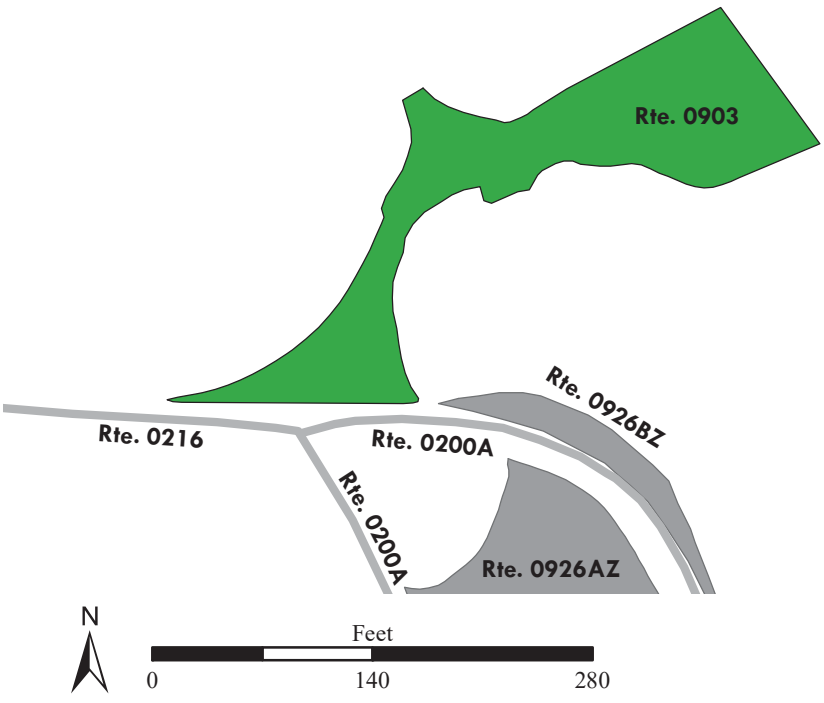
Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	69212	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
17,902	0.308	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**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

Note: "No Parking" sign present at boat ramp.



Dinosaur National Monument

ROUTE 0904A: HEADQUARTERS PUBLIC PARKING AREA A

Manual Rating

FROM ROUTE 0011 (HARPERS CORNER ROAD) AT MP 0.04

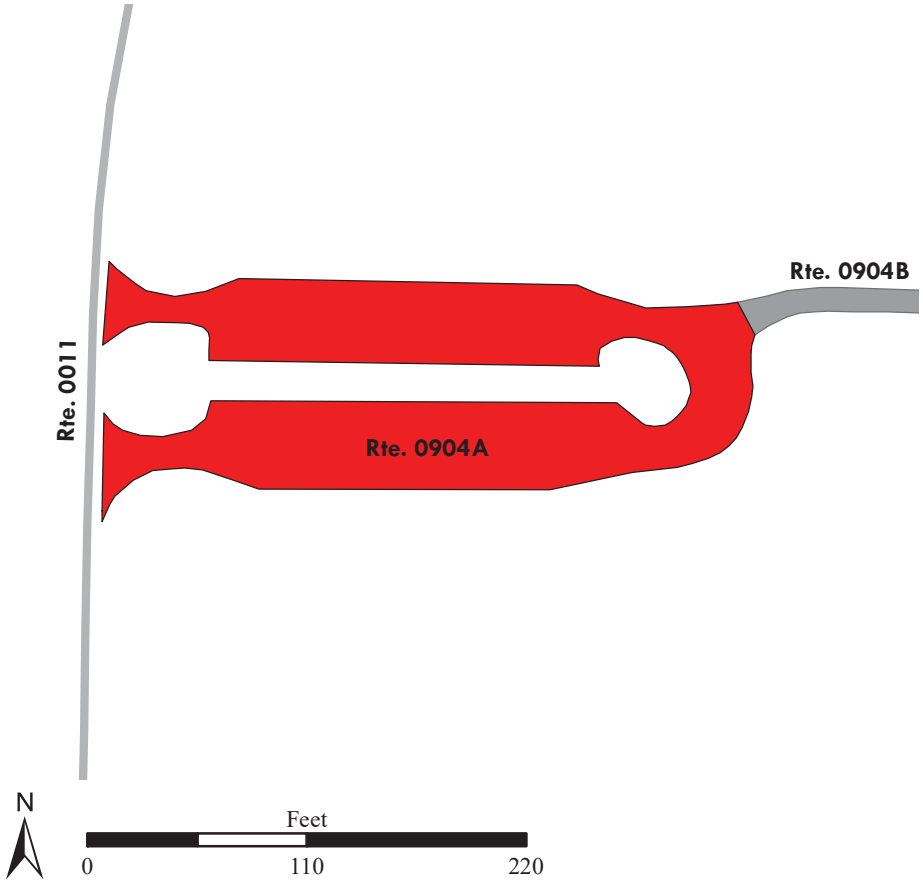
TO ROUTE 0904B (HEADQUARTERS EMPLOYEE PARKING AREA B)

Inspection Date	FMSS Number	User Access	Surface Type
6/22/2017	68795	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
17,639	0.304	NOT APPLICABLE	DO NOTHING
Curb Type		**Curb & Gutter Type**	
NO CURB		CONCRETE	
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

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0904B: HEADQUARTERS EMPLOYEE PARKING AREA B

Manual Rating

FROM ROUTE 0904A (HEADQUARTERS PUBLIC PARKING AREA A)

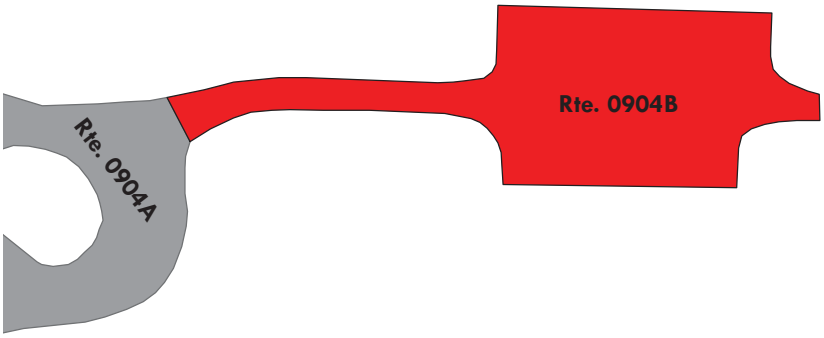
TO PARKING

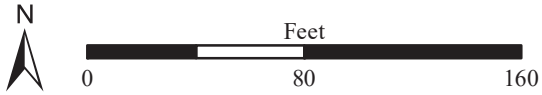
Inspection Date	FMSS Number	User Access	Surface Type
6/22/2017	249246	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
6,191	0.107	NOT APPLICABLE	DO NOTHING
Curb Type		**Curb & Gutter Type**	
NO CURB		CONCRETE	
Pavement Recommendation		**Condition 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**

See Appendix for definitions and formulas





Dinosaur National Monument

ROUTE 0905: PARKING AREA AT MP 3.74

Manual Rating

FROM ROUTE 0011 (HARPERS CORNER ROAD) AT MP 3.74

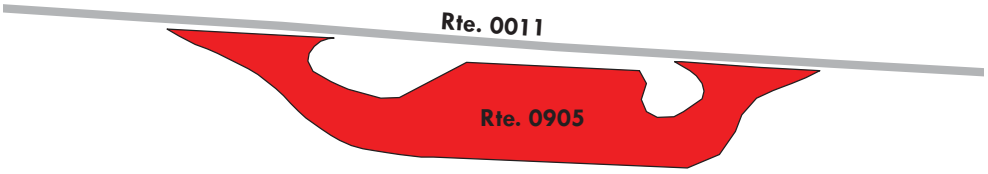
TO ROUTE 0011 (HARPERS CORNER ROAD) AT MP 3.78

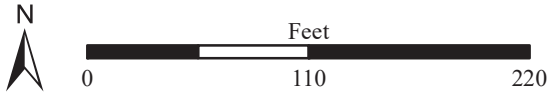
Inspection Date	FMSS Number	User Access	Surface Type
6/22/2017	68812	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
7,643	0.132	NOT APPLICABLE	LIGHT REPAIR
Curb Type		**Curb & Gutter Type**	
NO CURB		CONCRETE	
Pavement Recommendation		**Condition 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**

See Appendix for definitions and formulas





Dinosaur National Monument

ROUTE 0906: ESCALANTE OVERLOOK PARKING AREA

Manual Rating

FROM ROUTE 0011 (HARPERS CORNER ROAD) AT MP 8.08

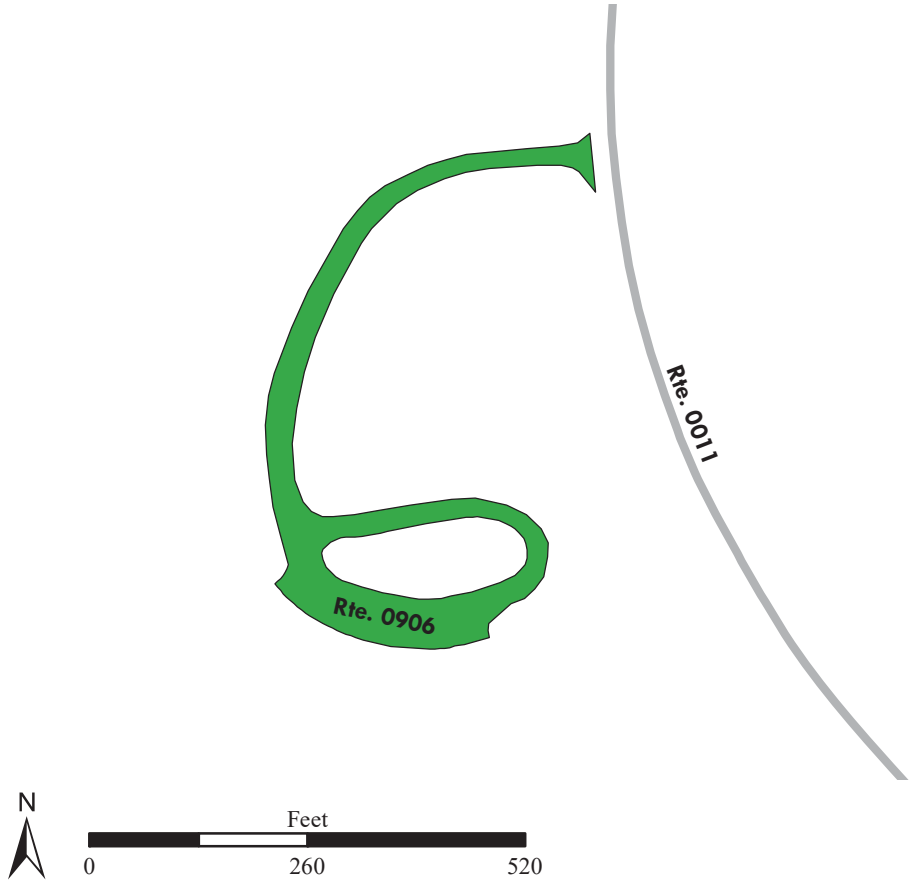
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
6/22/2017	68488	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
35,380	0.609	NOT APPLICABLE	DO NOTHING
Curb Type		**Curb & Gutter Type**	
NO CURB		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

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0907: PARKING AREA AT MP 25.15

Manual Rating

FROM ROUTE 0011 (HARPERS CORNER ROAD) AT MP 25.15

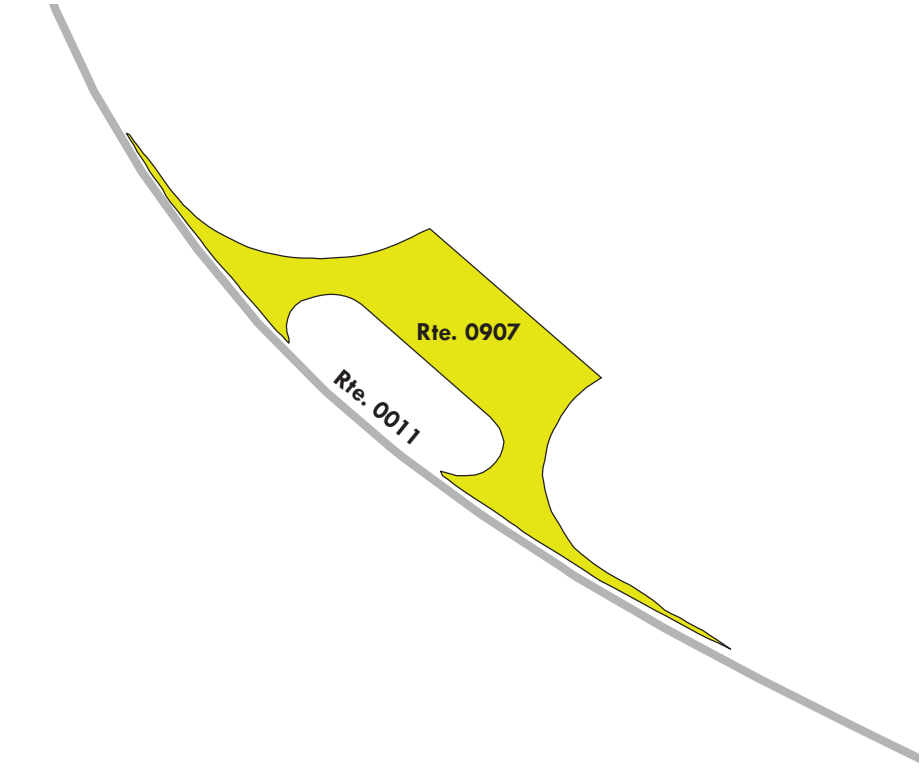
TO ROUTE 0011 (HARPERS CORNER ROAD) AT MP 25.19

Inspection Date	FMSS Number	User Access	Surface Type
6/22/2017	68815	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
11,037	0.19	NOT APPLICABLE	DO NOTHING
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

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0908: ISLAND PARK OVERLOOK PARKING AREA

Manual Rating

FROM ROUTE 0011 (IHARPERS CORNER ROAD) AT MP 26.01

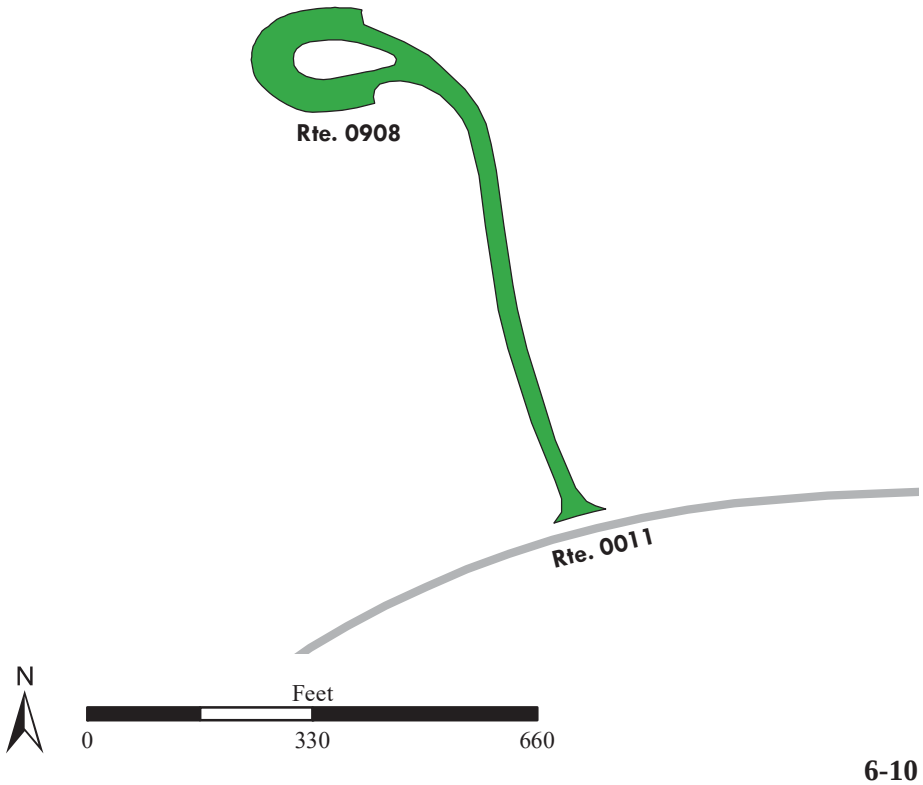
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
6/22/2017	68508	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
31,341	0.54	NOT APPLICABLE	DO NOTHING
Curb Type		**Curb & Gutter Type**	
NO CURB		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

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0909: IRON SPRINGS BENCH PARKING AREA

Manual Rating

FROM ROUTE 0011 (HARPERS CORNER ROAD) AT MP 27.34

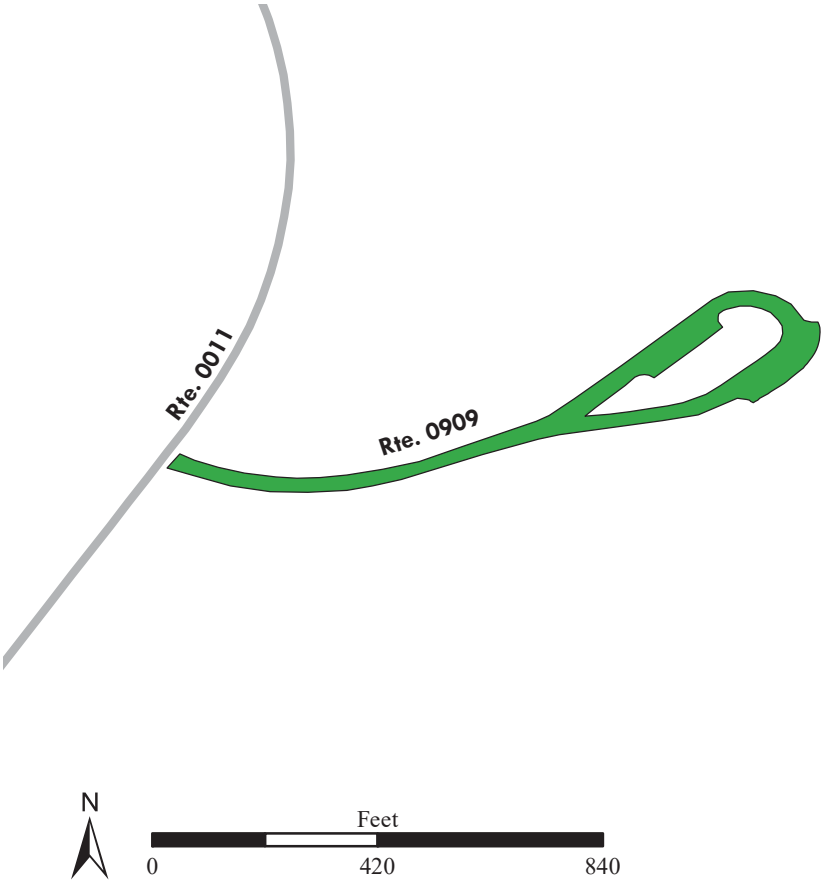
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
6/22/2017	68510	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
47,583	0.819	NOT APPLICABLE	DO NOTHING
Curb Type		**Curb & Gutter Type**	
NO CURB		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

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0910: ECHO PARK OVERLOOK PARKING AREA

Manual Rating

FROM ROUTE 0011 (HARPERS CORNER ROAD) AT MP 30.46

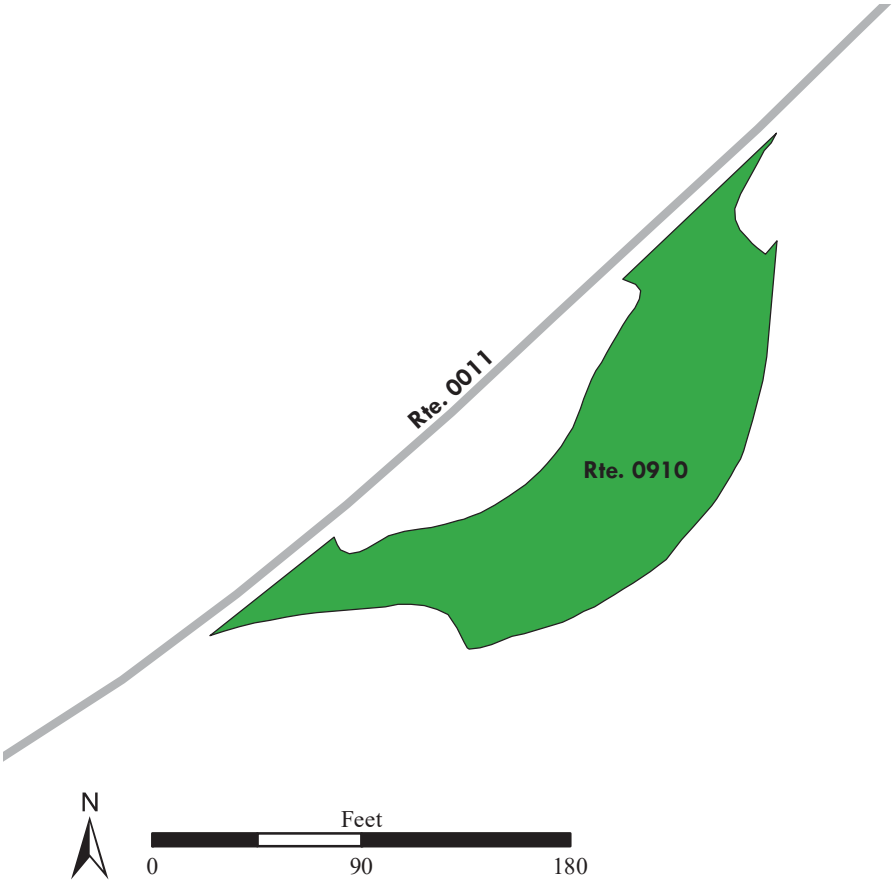
TO ROUTE 0011 (HARPERS CORNER ROAD) AT MP 30.49

Inspection Date	FMSS Number	User Access	Surface Type
6/22/2017	68521	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
11,819	0.203	NOT APPLICABLE	DO NOTHING
Curb Type		**Curb & Gutter Type**	
NO CURB		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

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0911: DEERLODGE ENTRANCE ROAD PARKING

Manual Rating

FROM END OF ROUTE 0101 (DEERLODGE ENTRANCE ROAD)

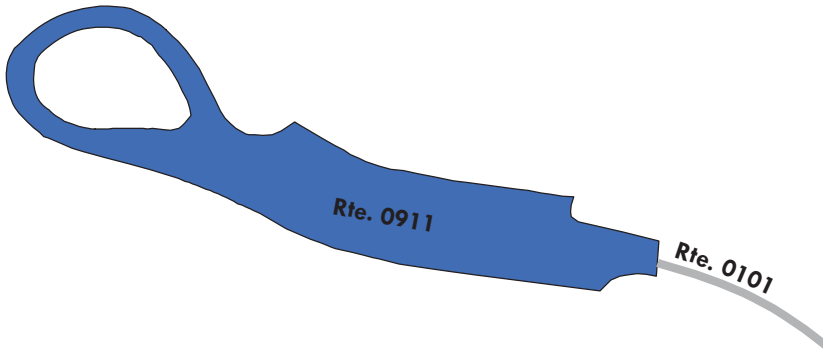
TO PARKING

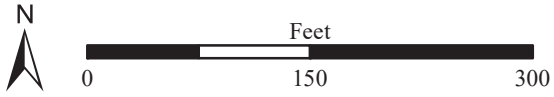
Inspection Date	FMSS Number	User Access	Surface Type
6/22/2017	68816	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
17,824	0.307	6	DO NOTHING
Curb Type		**Curb & Gutter Type**	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		**Condition 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

See Appendix for definitions and formulas





Dinosaur National Monument

ROUTE 0913: DEERLODGE INFORMATION KIOSK PARKING AREA AT MP 0.13

Manual Rating

FROM ROUTE 0101 (DEERLODGE ENTRANCE ROAD) AT MP 0.13

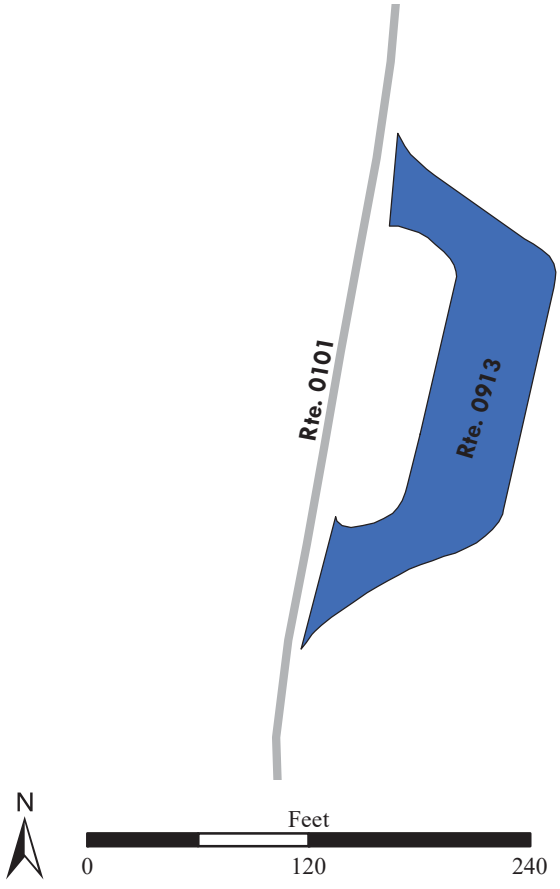
TO ROUTE 0101 (DEERLODGE ENTRANCE ROAD) AT MP 0.16

Inspection Date	FMSS Number	User Access	Surface Type
6/22/2017	68819	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
9,817	0.169	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

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0914: QUARRY VISITOR CENTER MIDDLE PARKING LOT

Manual Rating

FROM ROUTE 0100 (QUARRY ACCESS ROAD) AT MP 0.37

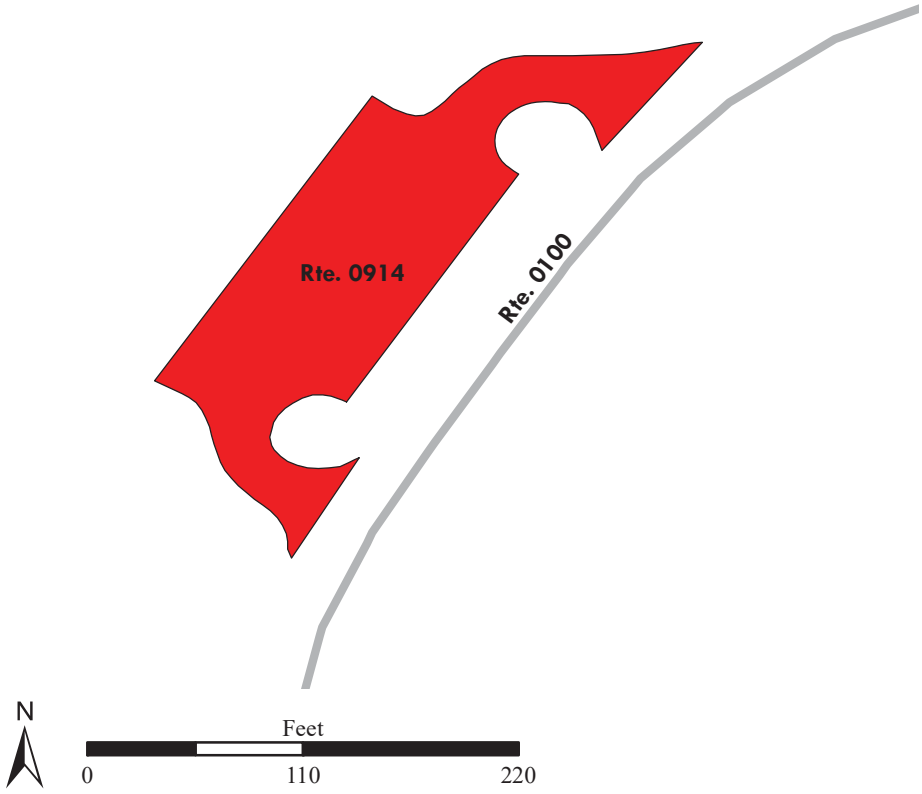
TO ROUTE 0100 (QUARRY ACCESS ROAD) AT MP 0.42

Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	68825	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
15,605	0.269	6	REPLACE
Curb Type		**Curb & Gutter Type**	
ASPHALT AND WOOD		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

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0915: QUARRY EMPLOYEE PARKING

Manual Rating

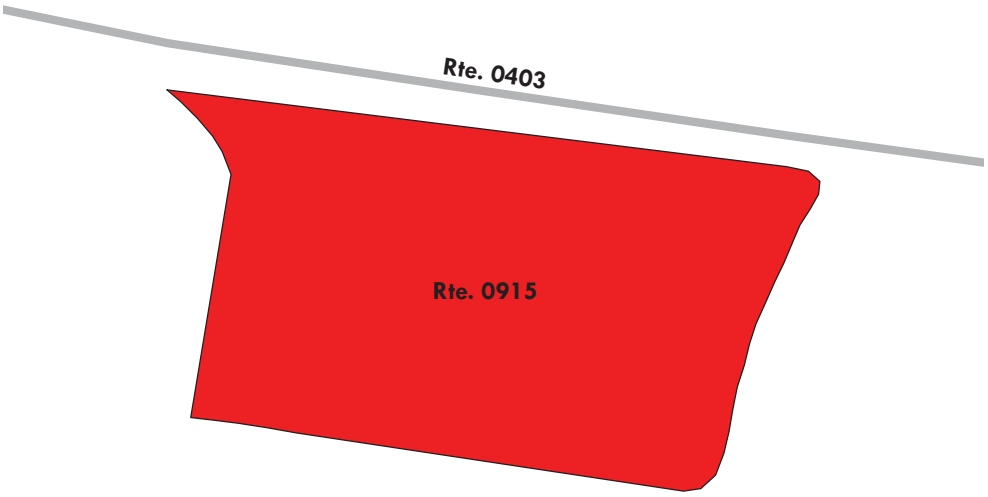
ADJACENT TO ROUTE 0403 (QUARRY WASTEWATER ROAD)

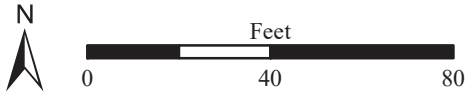
Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	68806	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
6,656	0.115	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
RECONSTRUCTION		POOR / 30	

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





Dinosaur National Monument

ROUTE 0916A: HARPERS CORNER PARKING AREA A

Manual Rating

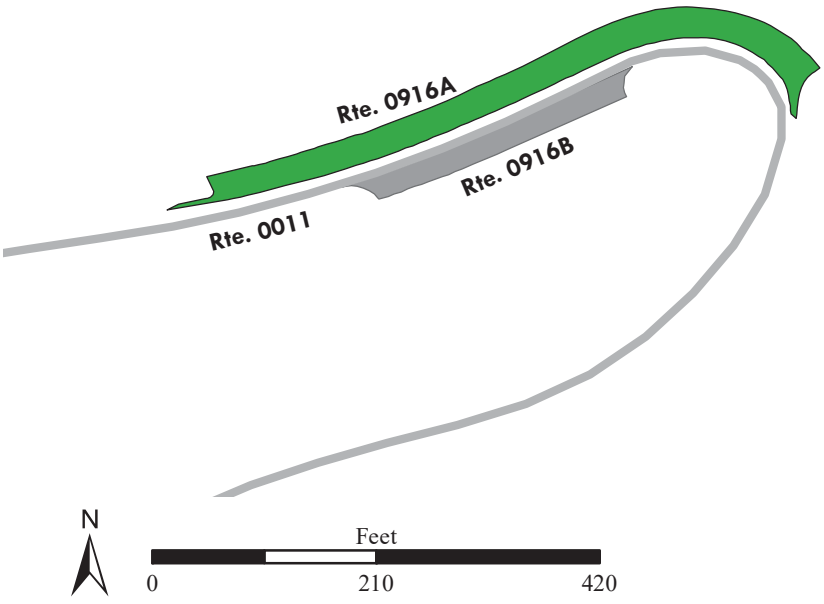
ADJACENT TO ROUTE 0011 (HARPERS CORNER ROAD) AT MP 31.64 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/22/2017	68371	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
13,248	0.228	NOT APPLICABLE	DO NOTHING
Curb Type		**Curb & Gutter Type**	
NO CURB		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

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0916B: HARPERS CORNER PARKING AREA B

Manual Rating

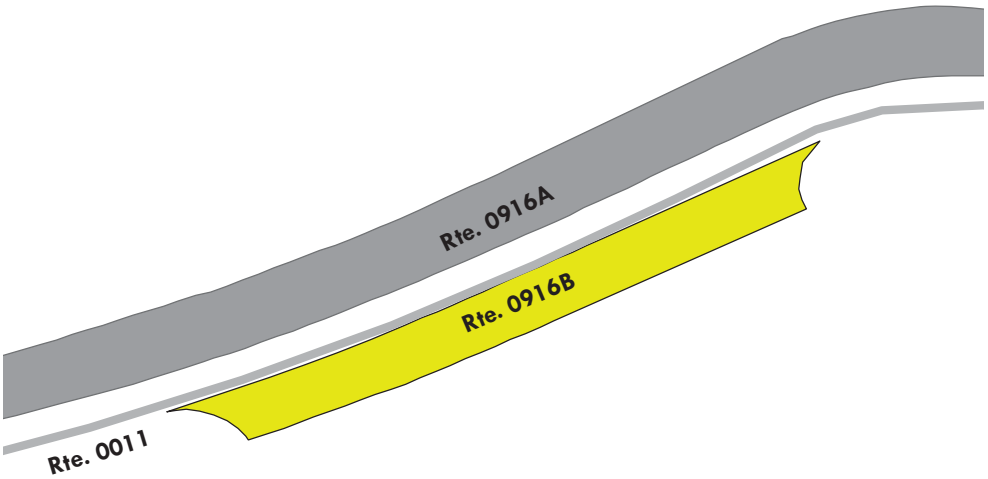
ADJACENT TO ROUTE 0011 (HARPERS CORNER ROAD) AT MP 31.67 ON LEFT

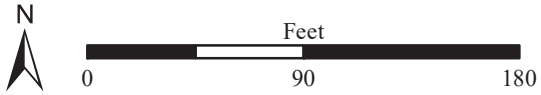
Inspection Date	FMSS Number	User Access	Surface Type
6/22/2017	104944	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
4,565	0.079	NOT APPLICABLE	DO NOTHING
Curb Type		**Curb & Gutter Type**	
NO CURB		CONCRETE	
Pavement Recommendation		**Condition 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**

See Appendix for definitions and formulas





Dinosaur National Monument

ROUTE 0917: QUARRY MAINTENANCE YARD

Manual Rating

FROM ROUTE 0400 (QUARRY HOUSING ROAD)

TO ROUTE 0403 (QUARRY WASTEWATER ROAD)

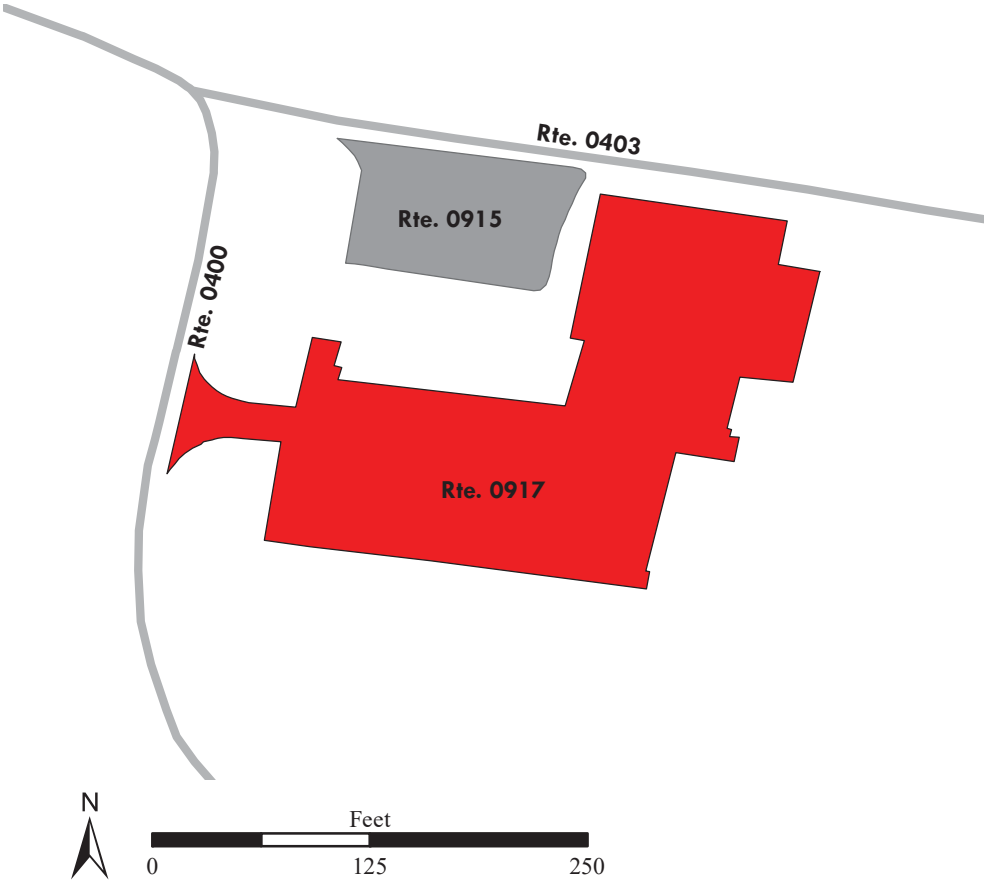
Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	68802	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
29,444	0.507	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
RECONSTRUCTION		POOR / 30	

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

Note: Parking area consists of multiple surface types: 1 part Asphalt at 28,131 square feet; 2 parts Concrete at 1,313 square feet.



Dinosaur National Monument

ROUTE 0918: YAMPA MAINTENANCE PARKING YARD

Manual Rating

FROM ROUTE 0011 (HARPERS CORNER ROAD) AT MP 0.14

TO PARKING

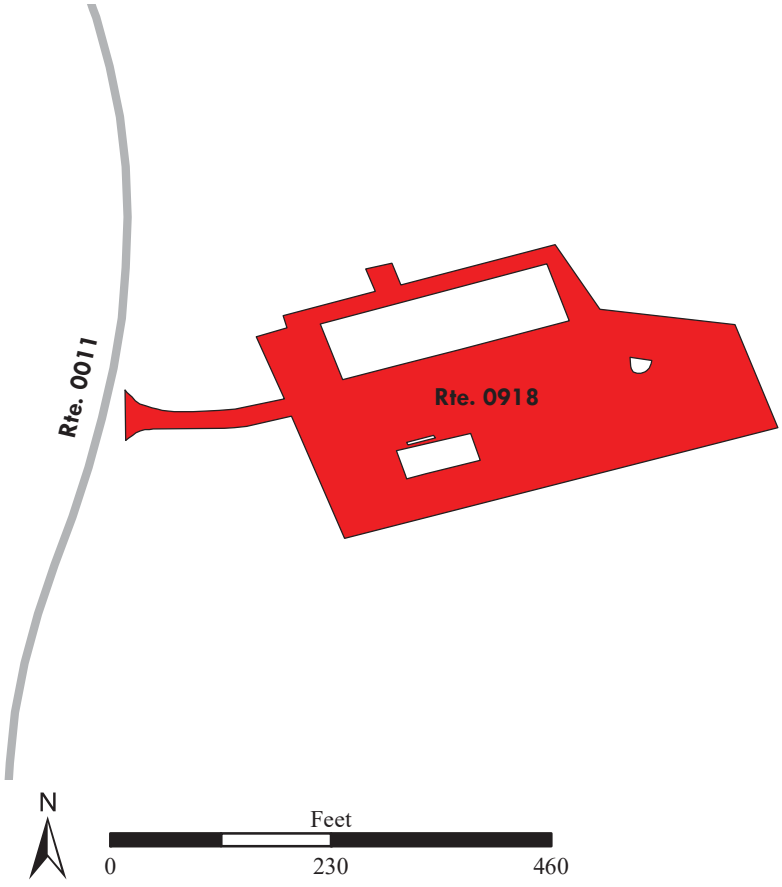
Inspection Date	FMSS Number	User Access	Surface Type
6/22/2017	68793	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
65,422	1.126	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**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

See Appendix for definitions and formulas

Note: Parking area consists of multiple surface types: 1 part Asphalt at 62,699 square feet; 4 parts Concrete at 2,723 square feet.



Dinosaur National Monument

ROUTE 0919A: CANYON OVERLOOK PARKING AREA A

Manual Rating

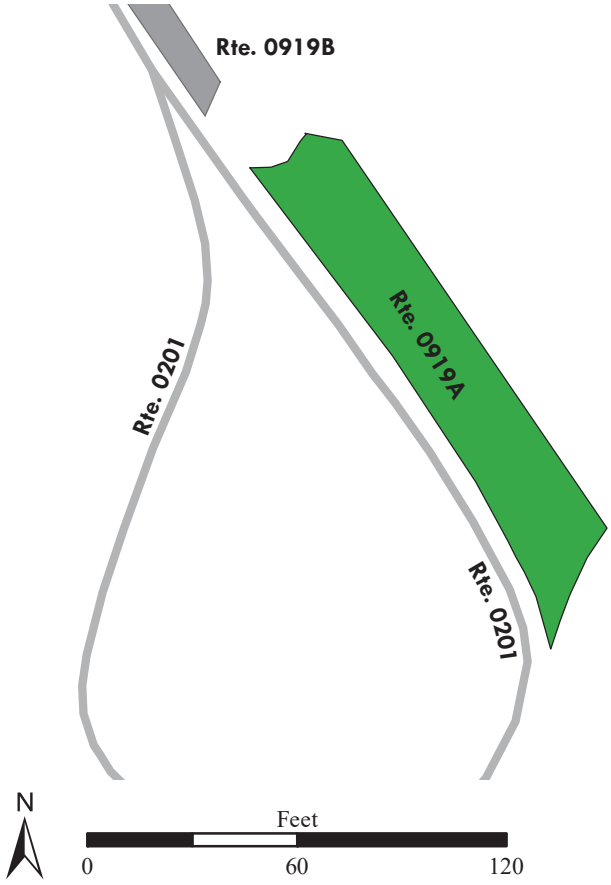
ADJACENT TO ROUTE 0201 (CANYON OVERLOOK ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
6/22/2017	68494	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
2,754	0.047	NOT APPLICABLE	DO NOTHING
Curb Type		**Curb & Gutter Type**	
NO CURB		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

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0919B: CANYON OVERLOOK PARKING AREA B

Manual Rating

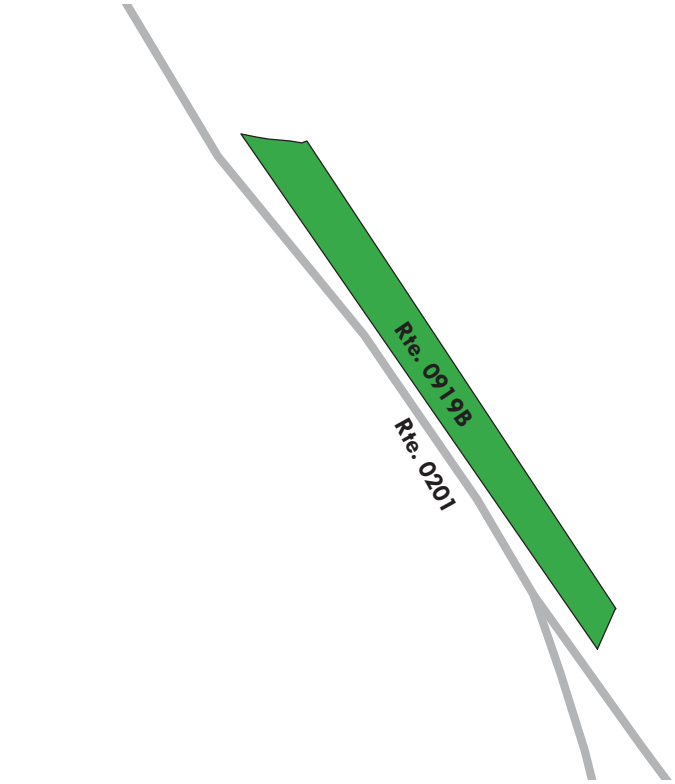
ADJACENT TO ROUTE 0201 (CANYON OVERLOOK ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
6/22/2017	104947	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
1,139	0.02	NOT APPLICABLE	DO NOTHING
Curb Type		**Curb & Gutter Type**	
NO CURB		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

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0920: CANYON OVERLOOK LOWER ROAD PARKING AREA

Manual Rating

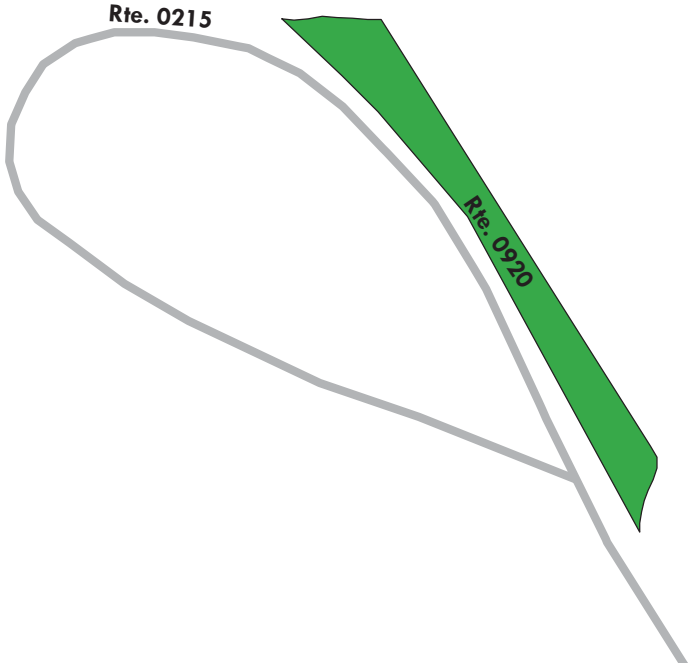
ADJACENT TO ROUTE 0215 (CANYON OVERLOOK LOWER ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
6/22/2017	68496	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
2,987	0.051	NOT APPLICABLE	DO NOTHING
Curb Type		**Curb & Gutter Type**	
NO CURB		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

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0921: GRD SEASONAL HOUSING PARKING

Manual Rating

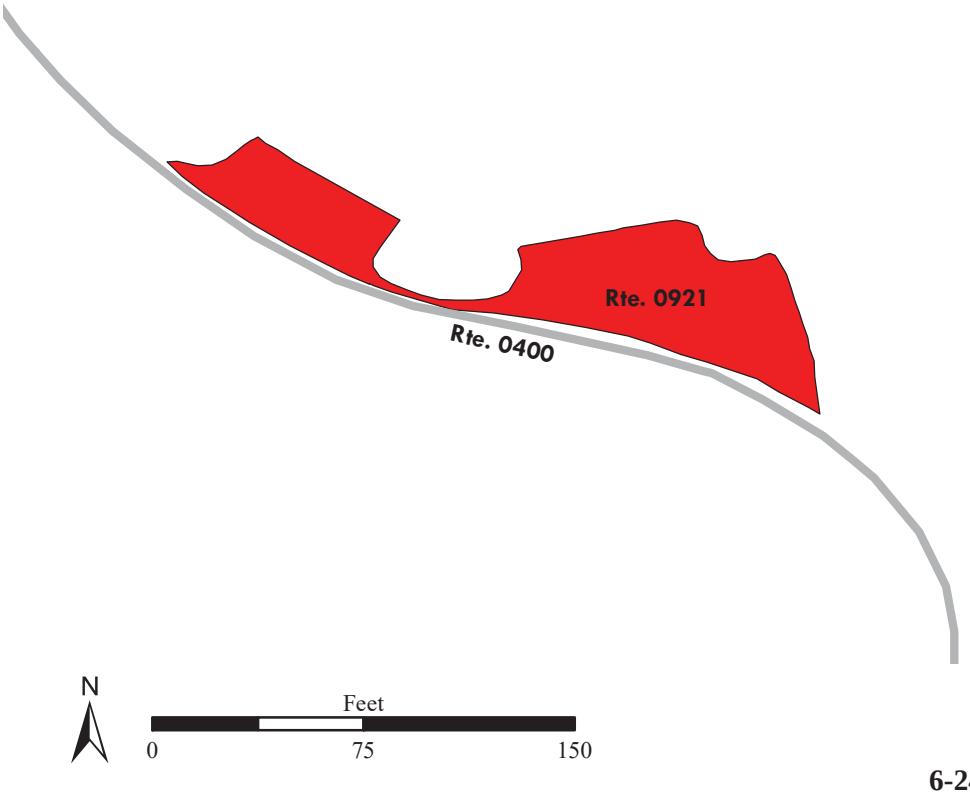
ADJACENT TO ROUTE 0400 (QUARRY HOUSING ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	69088	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
4,532	0.078	NOT APPLICABLE	DO NOTHING
Curb Type		**Curb & Gutter Type**	
NO CURB		CONCRETE	
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**

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0922A: HEADQUARTERS HOUSING PARKING AREA A

Manual Rating

FROM ROUTE 0401 (HEADQUARTERS HOUSING ROAD) ON LEFT

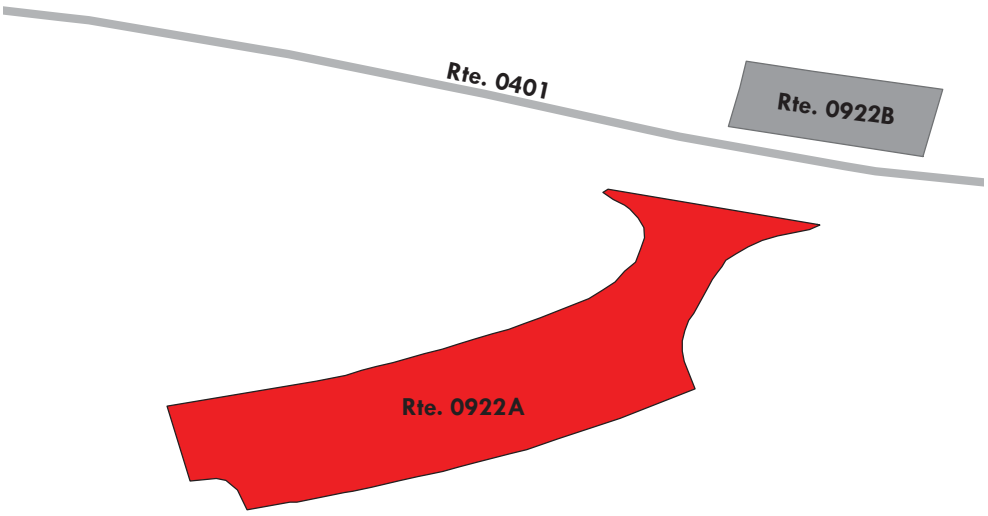
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
6/22/2017	104951	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
6,123	0.105	NOT APPLICABLE	DO NOTHING
Curb Type		**Curb & Gutter Type**	
NO CURB		CONCRETE	
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

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0922B: HEADQUARTERS HOUSING PARKING AREA B

Manual Rating

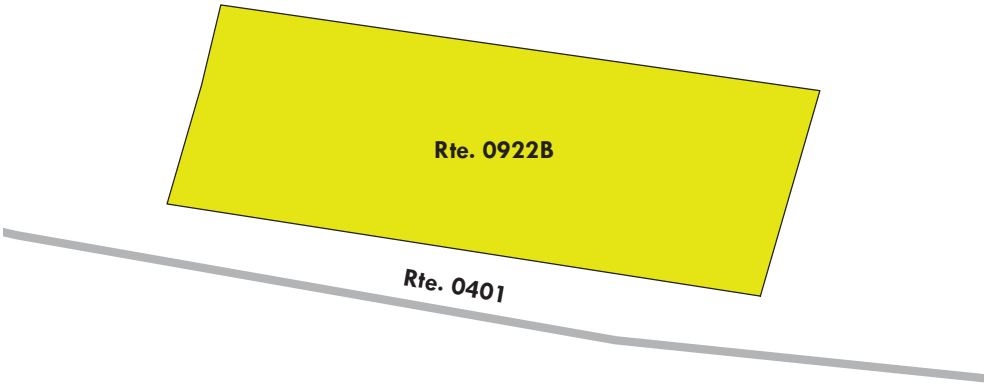
ADJACENT TO ROUTE 0401 (HEADQUARTERS HOUSING ROAD) ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/22/2017	104958	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
1,179	0.02	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

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0923: YAMPA RIVER PARKING AREA AT MP 10.8

Manual Rating

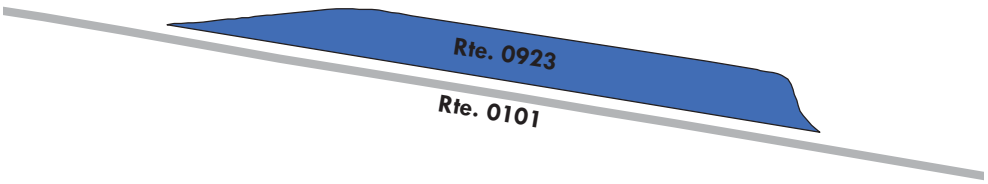
ADJACENT TO ROUTE 0101 (DEERLODGE ENTRANCE ROAD) AT MP 10.80

Inspection Date	FMSS Number	User Access	Surface Type
6/22/2017	104962	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
15,188	0.262	7	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

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0925A: GREEN RIVER CAMPGROUND PARKING AREA A

Manual Rating

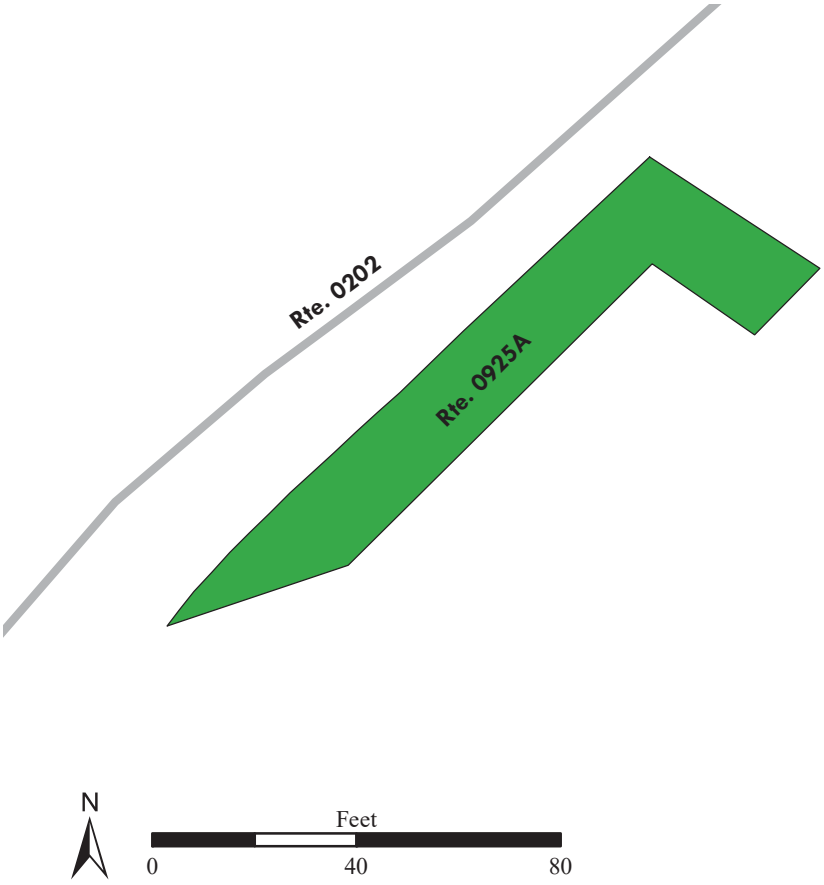
ADJACENT TO ROUTE 0202 (GREEN RIVER CAMPGROUND ACCESS ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	104992	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
1,835	0.032	NOT APPLICABLE	DO NOTHING
Curb Type		**Curb & Gutter Type**	
NO CURB		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

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0925B: GREEN RIVER CAMPGROUND PARKING AREA B

Manual Rating

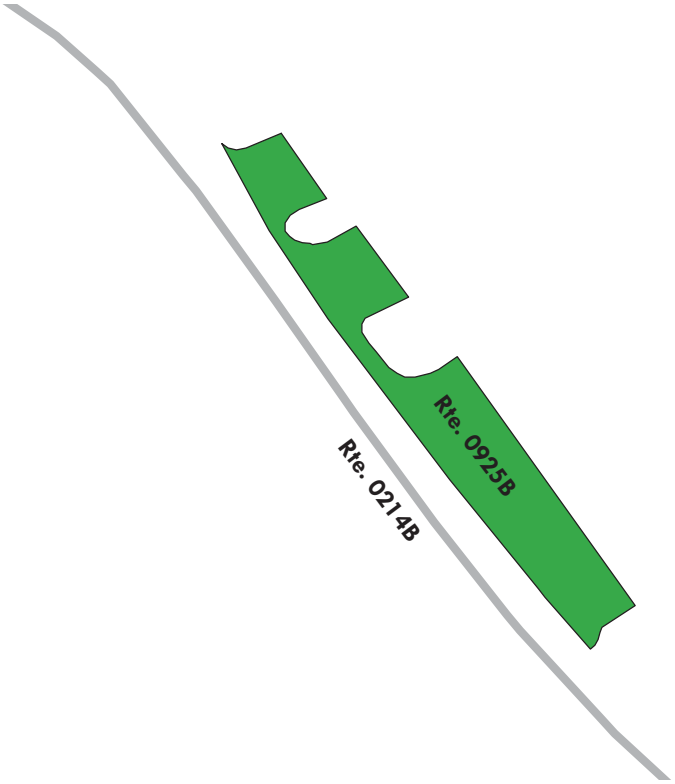
ADJACENT TO ROUTE 0214B (GREEN RIVER CAMPGROUND LOOP ROAD B)

Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	105028	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
4,910	0.085	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



Dinosaur National Monument

ROUTE 0926ZZ: SPLIT MOUNTAIN CAMPGROUND BOAT TRAILER PARKING AREAS

Summary Route
Manual Rating

FROM ROUTE 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD)

TO ROUTE 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD)

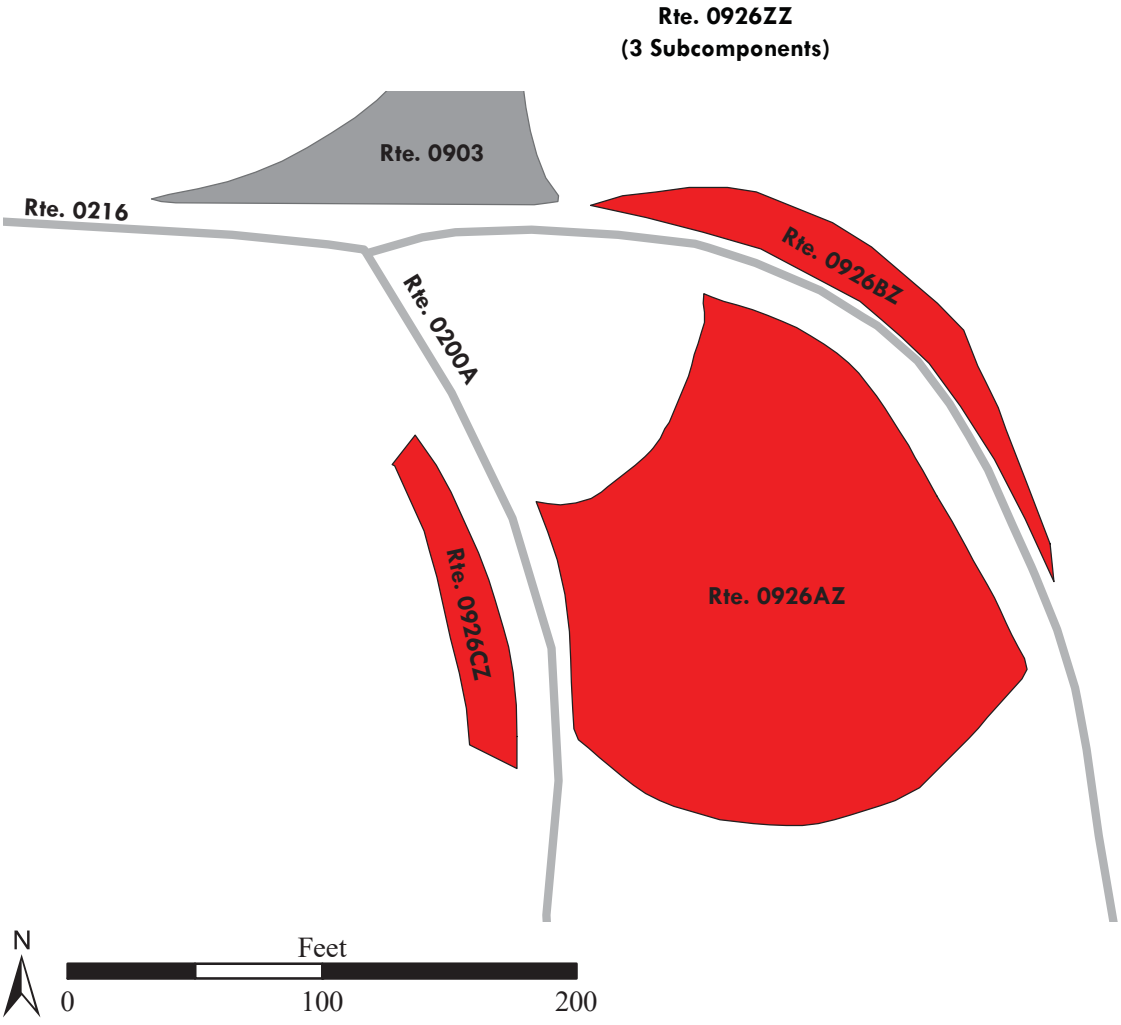
Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	99972	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Condition Rating / PCR**	
23,951	0.412	SUMMARY / 53	

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.



Dinosaur National Monument

ROUTE 0926AZ: SPLIT MOUNTAIN CAMPGROUND BOAT TRAILER PARKING A

Subcomponent of Route DINO-0926ZZ
Manual Rating

FROM ROUTE 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD)

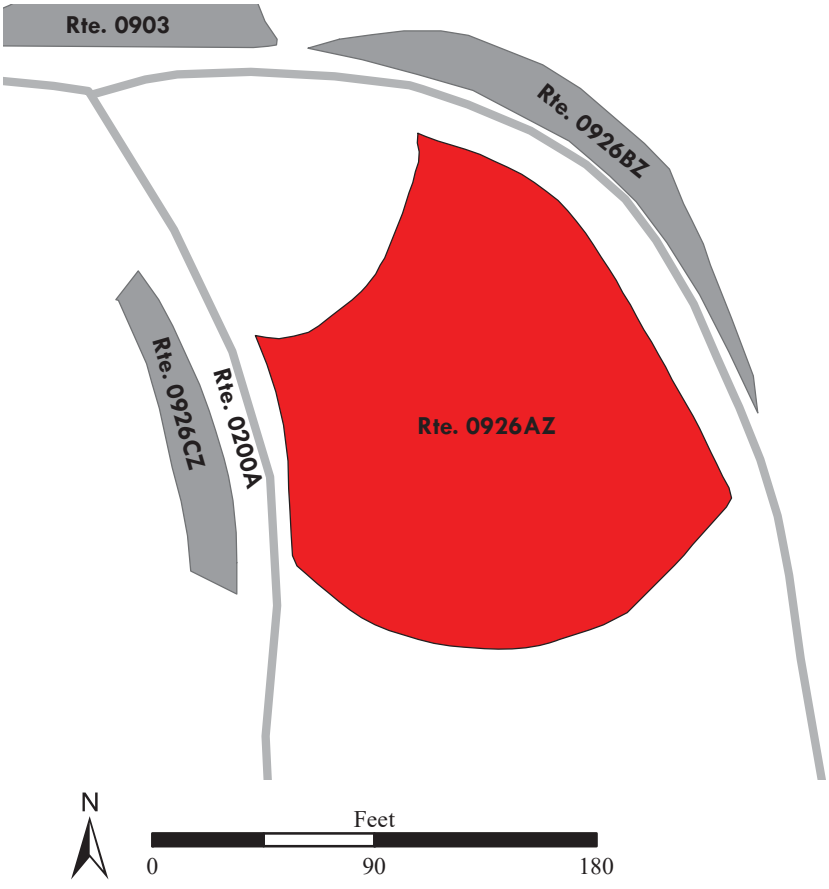
TO ROUTE 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	99972	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
19,409	0.334	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

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0926BZ: SPLIT MOUNTAIN CAMPGROUND BOAT TRAILER PARKING B

Subcomponent of Route DINO-0926ZZ
Manual Rating

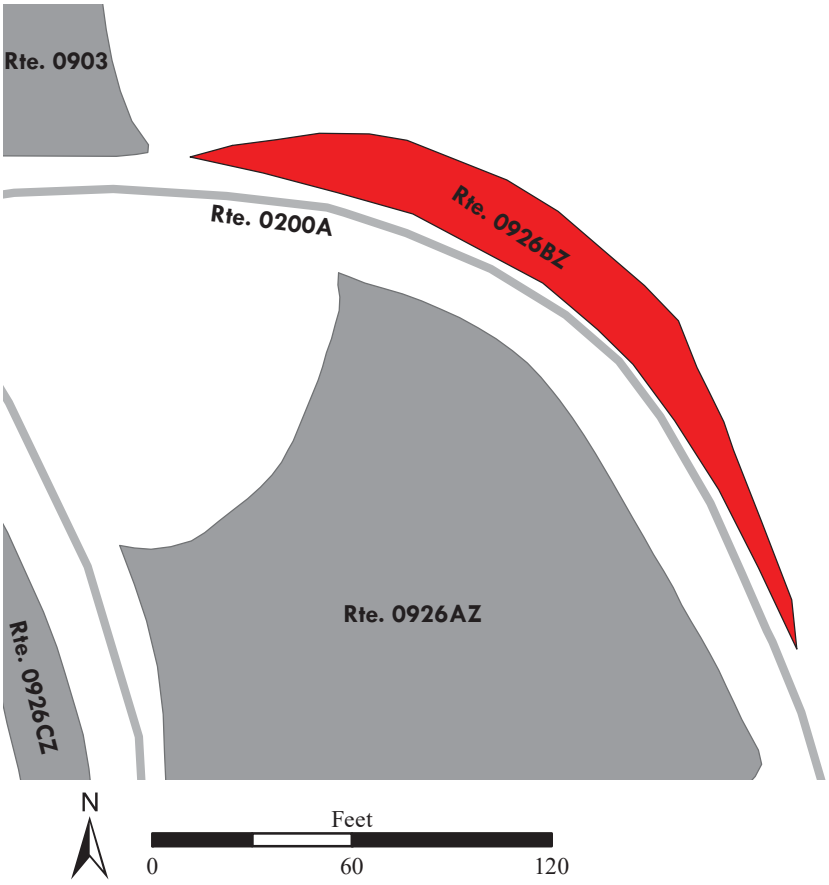
ADJACENT TO ROUTE 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD) ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	99972	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
2,758	0.047	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

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0926CZ: SPLIT MOUNTAIN CAMPGROUND BOAT TRAILER PARKING C

Subcomponent of Route DINO-0926ZZ
Manual Rating

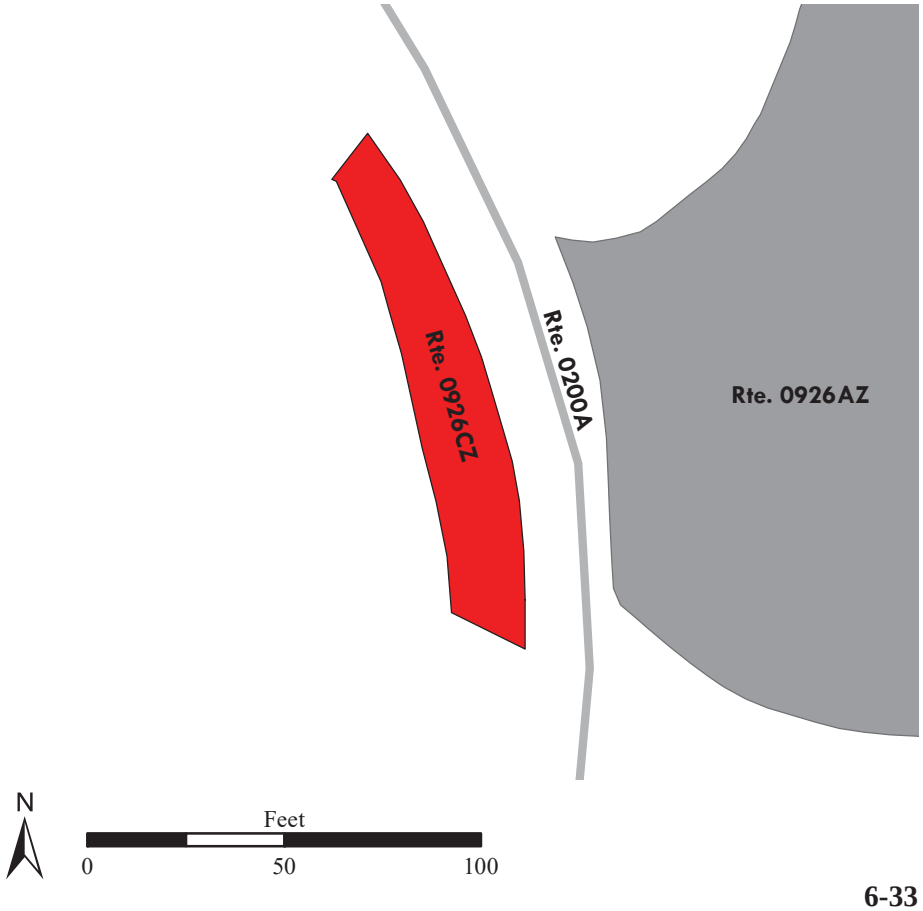
ADJACENT TO ROUTE 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD) ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	99972	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
1,784	0.031	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

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0927A: SPLIT MOUNTAIN CAMPGROUND SPUR PARKING A

Manual Rating

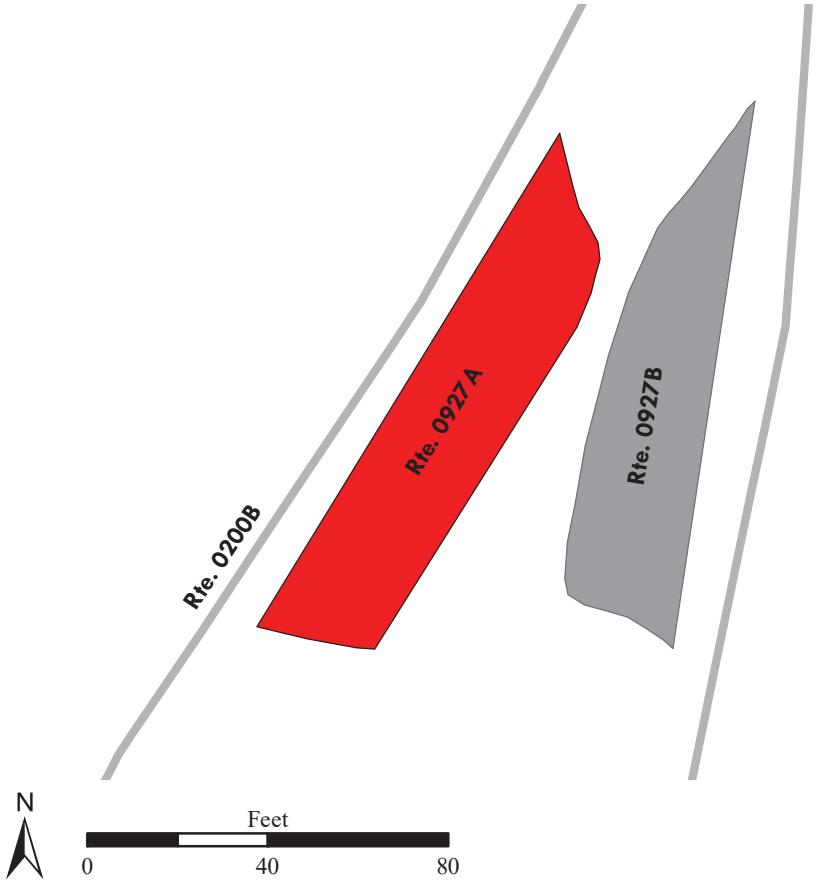
ADJACENT TO ROUTE 0200B (SPLIT MOUNTAIN CAMPGROUND SPUR ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	105040	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
2,161	0.037	5	MODERATE REPAIR
Curb Type		**Curb & Gutter Type**	
WOOD		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
RECONSTRUCTION		POOR / 30	

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



Dinosaur National Monument

ROUTE 0927B: SPLIT MOUNTAIN CAMPGROUND SPUR PARKING B

Manual Rating

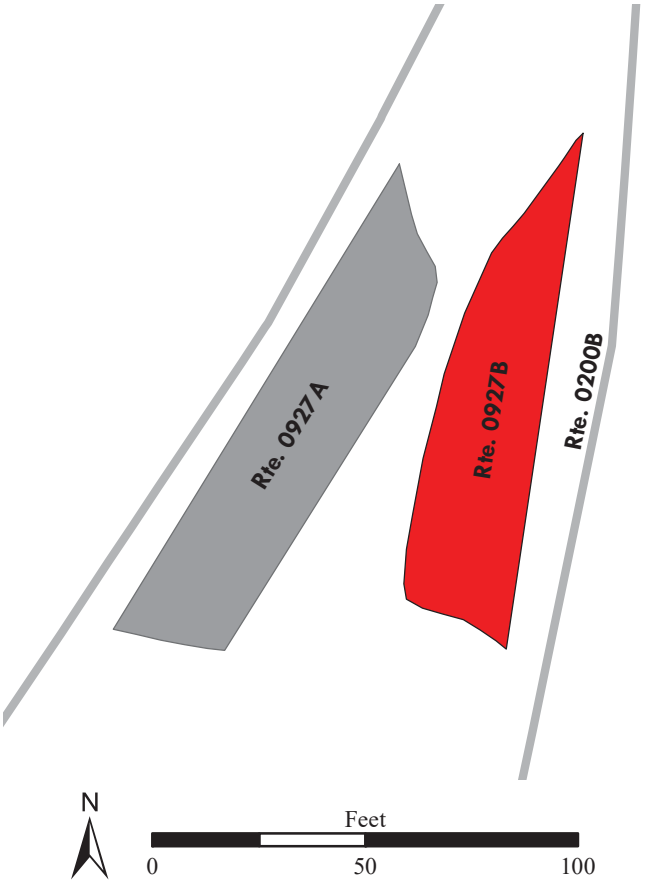
ADJACENT TO ROUTE 0200B (SPLIT MOUNTAIN CAMPGROUND SPUR ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	105042	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
1,790	0.031	5	MODERATE REPAIR
Curb Type		**Curb & Gutter Type**	
WOOD		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
RECONSTRUCTION		POOR / 30	

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



Dinosaur National Monument

ROUTE 0928: GREEN RIVER KIOSK PARKING AREA

Manual Rating

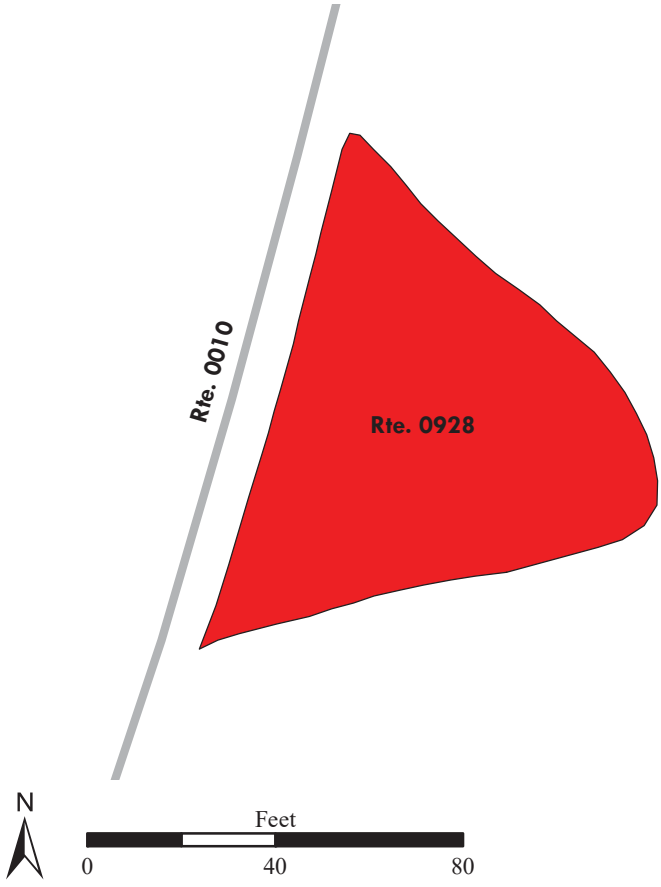
ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 0.26

Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	105045	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
4,249	0.073	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

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0929ZZ: GRD ENTRANCE PULLOUT AT MP 0.03

Summary Route
Manual Rating

ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 0.03

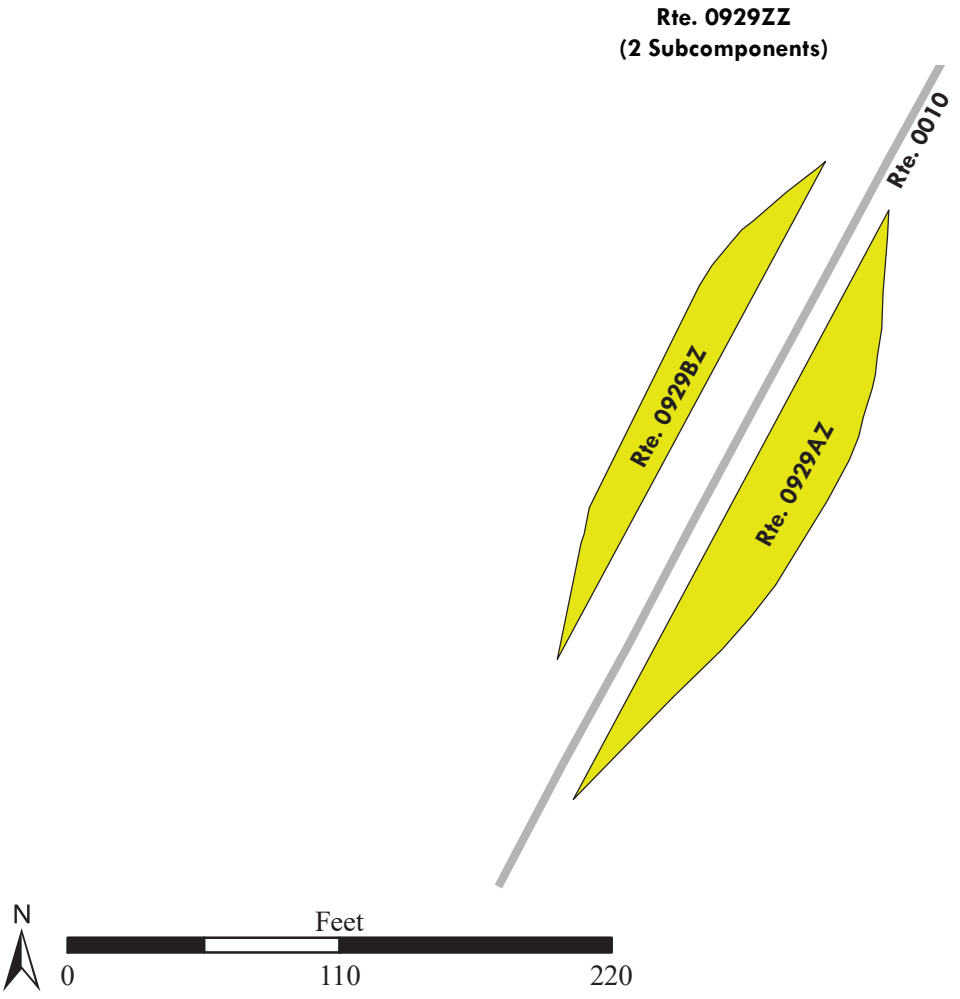
Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	249247	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Condition Rating / PCR**	
6,948	0.119	SUMMARY / 73	

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

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



Dinosaur National Monument

ROUTE 0929AZ: GRD ENTRANCE PULLOUT A AT MP 0.03

Subcomponent of Route DINO-0929ZZ
Manual Rating

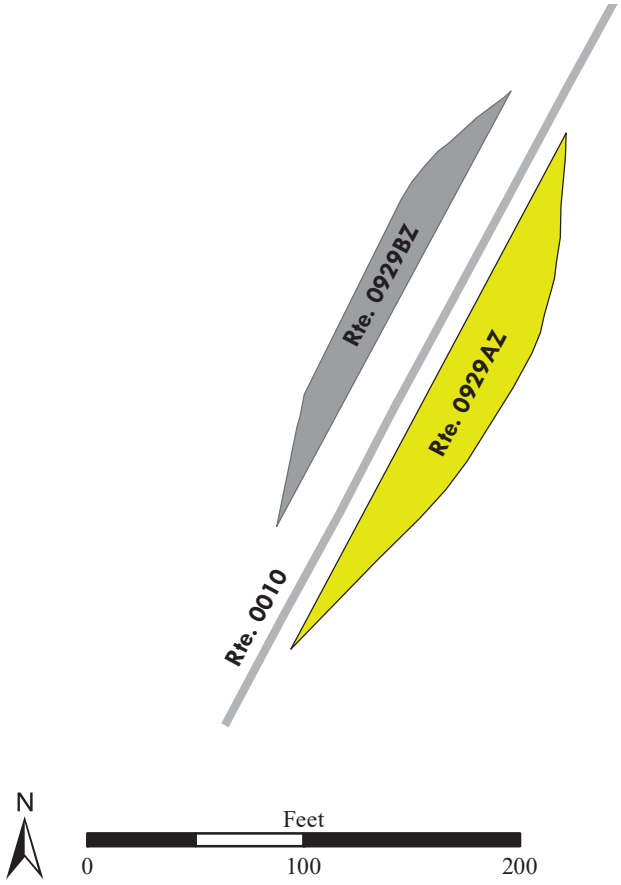
ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 0.03 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	249247	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
4,380	0.075	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

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0929BZ: GRD ENTRANCE PULLOUT B AT MP 0.03

Subcomponent of Route DINO-0929ZZ
Manual Rating

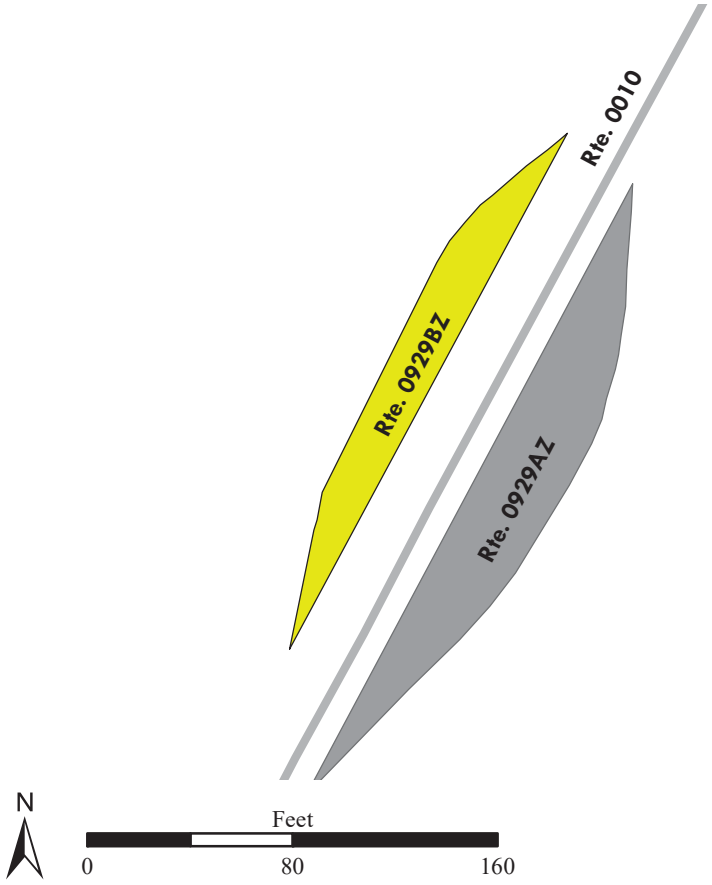
ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 0.03 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	249247	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
2,568	0.044	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

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0930: MANCOS SEA PULLOUT

Manual Rating

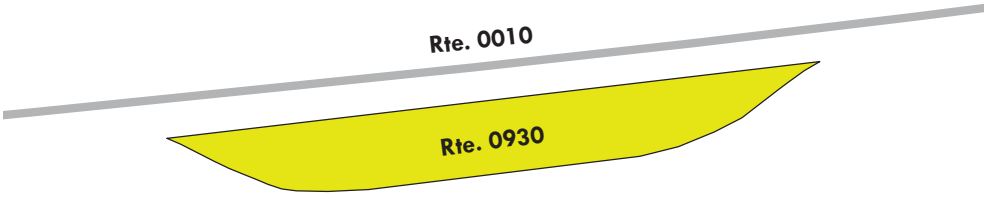
ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT 0.73 ON RIGHT

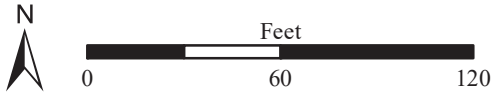
Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	249248	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
2,833	0.049	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**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

See Appendix for definitions and formulas





Dinosaur National Monument

ROUTE 0931ZZ: SWELTER SHELTER PULLOUTS

Summary Route
Manual Rating

ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 2.69

Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	249249	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Condition Rating / PCR**	
3,586	0.062	SUMMARY / 84	

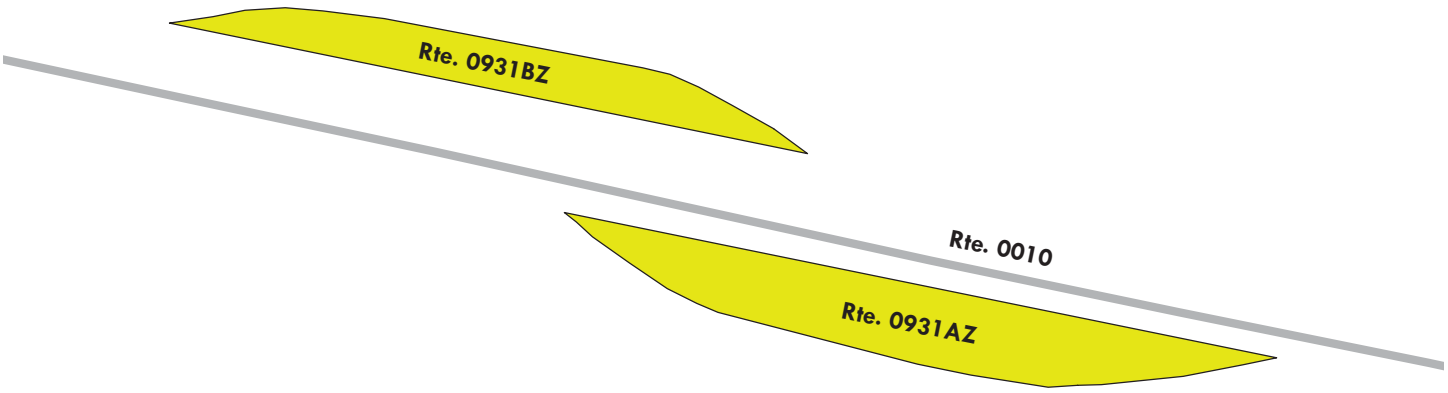
Route Condition Legend – Pavement Condition Rating (PCR)

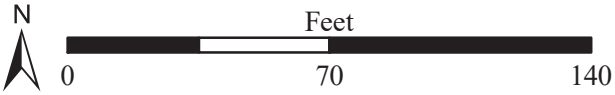
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

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
(2 Subcomponents)





Dinosaur National Monument

ROUTE 0931AZ: SWELTER SHELTER PULLOUT A

Subcomponent of Route DINO-0931ZZ
Manual Rating

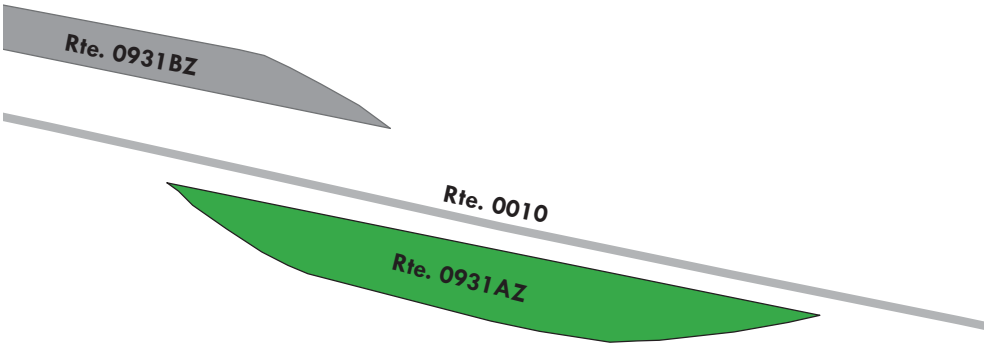
ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 2.70 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	249249	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
2,216	0.038	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



Dinosaur National Monument

ROUTE 0931BZ: SWELTER SHELTER PULLOUT B

Subcomponent of Route DINO-0931ZZ
Manual Rating

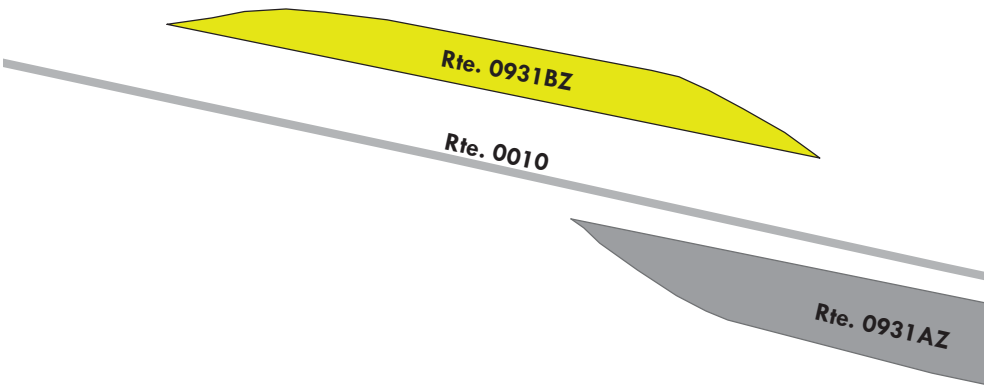
ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 2.69 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	249249	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
1,370	0.024	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

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0932: SOUND OF SILENCE PULLOUT

Manual Rating

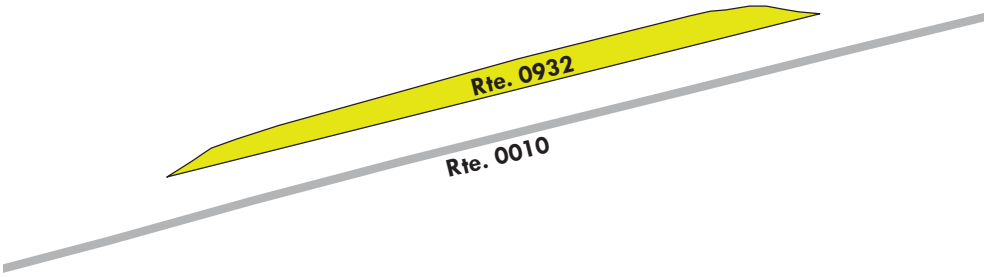
ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT 3.56 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	N/A	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
2,413	0.042	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

See Appendix for definitions and formulas



Dinosaur National Monument

ROUTE 0933: PULLOUT AT MP 4.03

Manual Rating

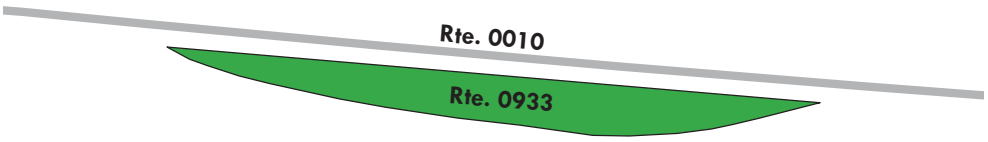
ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 4.05 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	249250	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
2,229	0.038	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



Dinosaur National Monument

ROUTE 0934: MORRISON PULLOUT

Manual Rating

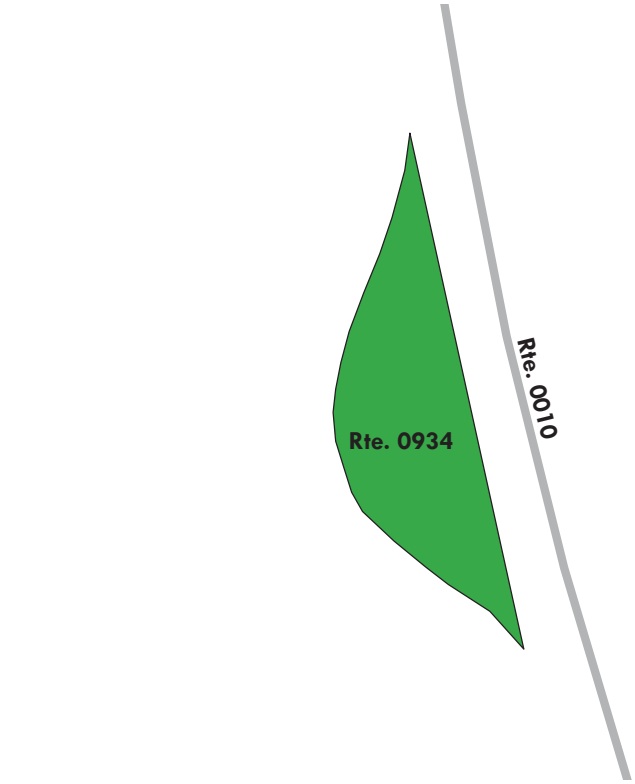
ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 6.29 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	249251	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
1,601	0.028	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



Dinosaur National Monument

ROUTE 0935: FIRE HISTORY PULLOUT

Manual Rating

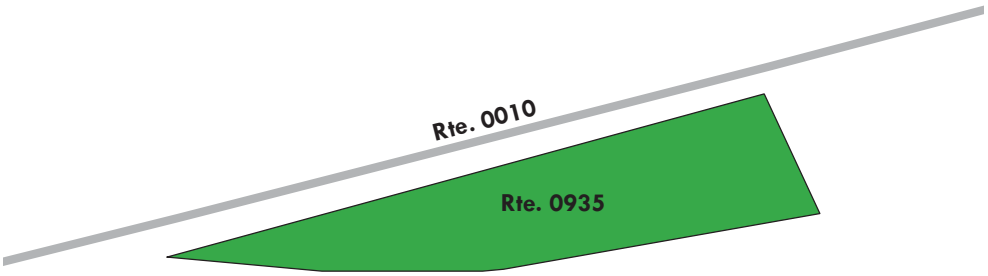
ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 7.05 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	249252	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
1,988	0.034	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



Dinosaur National Monument

ROUTE 0936: CHEW PULLOUT

Manual Rating

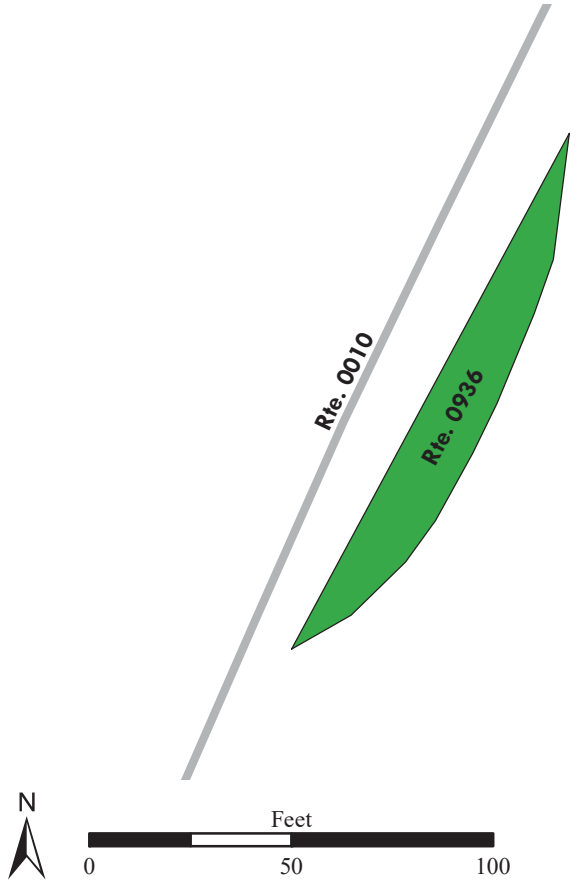
ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 8.16 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	249253	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
1,292	0.022	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



Dinosaur National Monument

ROUTE 0938: CUB CREEK PULLOUT

Manual Rating

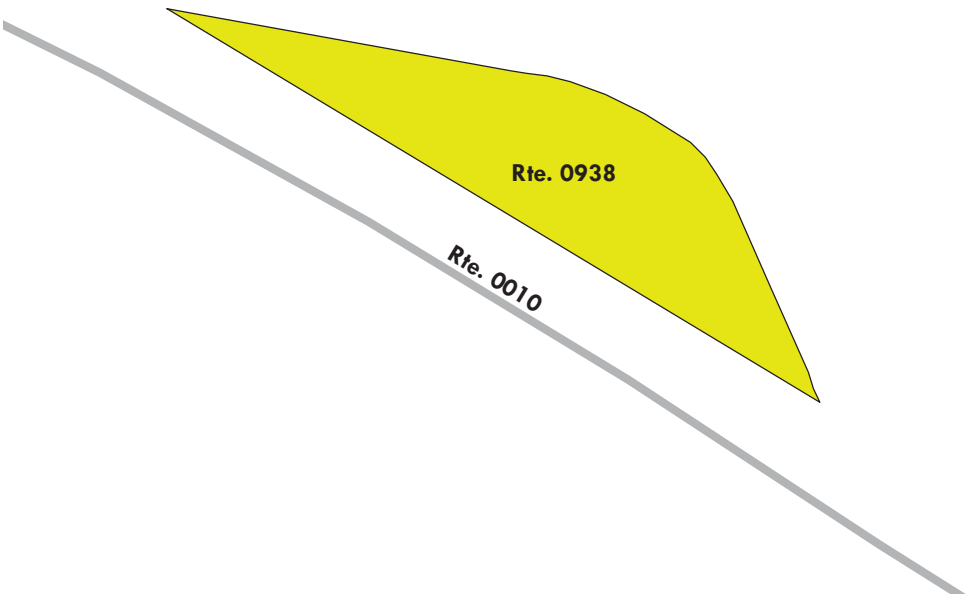
ADJACENT TO ROUTE 0010 (GRD MAIN ENTRANCE ROAD) AT MP 9.49 ON LEFT

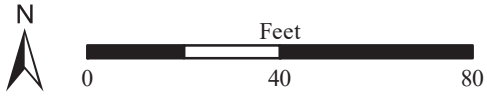
Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	249255	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
2,288	0.039	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**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

See Appendix for definitions and formulas





Dinosaur National Monument

ROUTE 0939: PLUG HAT PICNIC AREA PARKING

Manual Rating

FROM ROUTE 0011 (HARPERS CORNER ROAD) AT MP 4.31 ON LEFT

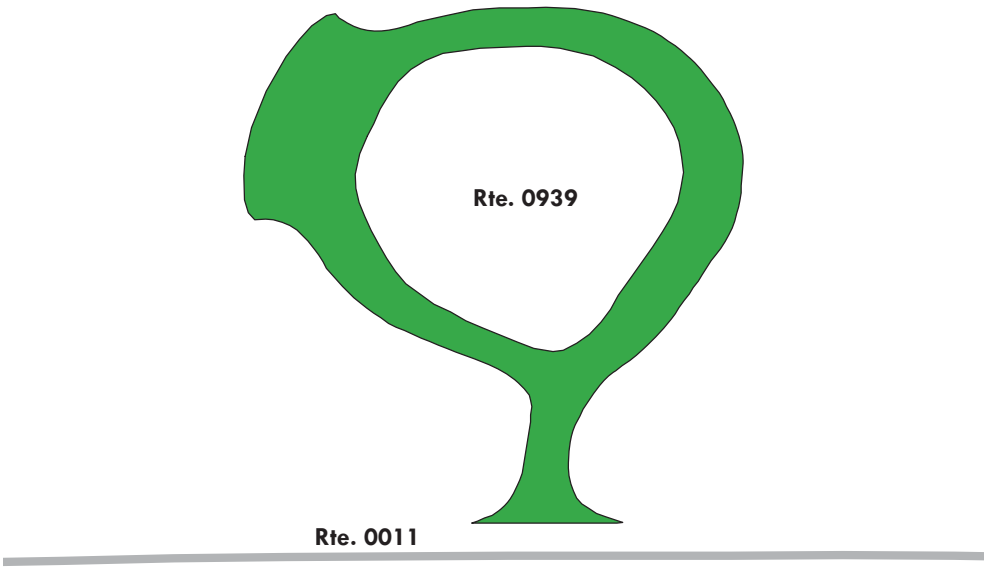
TO PARKING

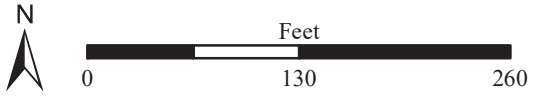
Inspection Date	FMSS Number	User Access	Surface Type
6/22/2017	68828	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
21,690	0.373	NOT APPLICABLE	DO NOTHING
Curb Type		**Curb & Gutter Type**	
NO CURB		CONCRETE	
Pavement Recommendation		**Condition 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

See Appendix for definitions and formulas





Dinosaur National Monument

ROUTE 0940: DEERLODGE BOATER PARKING

Manual Rating

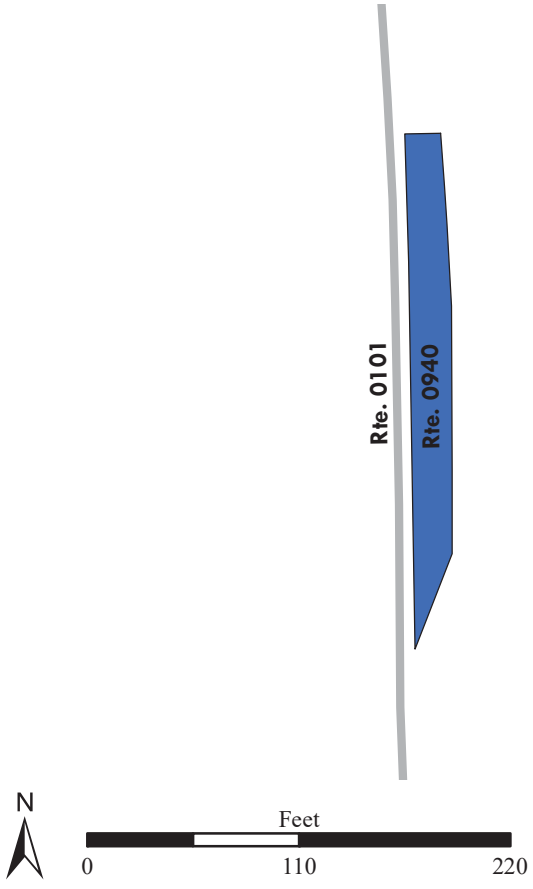
ADJACENT TO ROUTE 0101 (DEERLODGE ENTRANCE ROAD) AT MP 12.16 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/22/2017	N/A	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
3,849	0.066	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



Dinosaur National Monument

ROUTE 0941: SPLIT MOUNTAIN OVERLOOK

Manual Rating

ADJACENT TO ROUTE 0216 (SPLIT MOUNTAIN CAMPGROUND ACCESS ROAD)

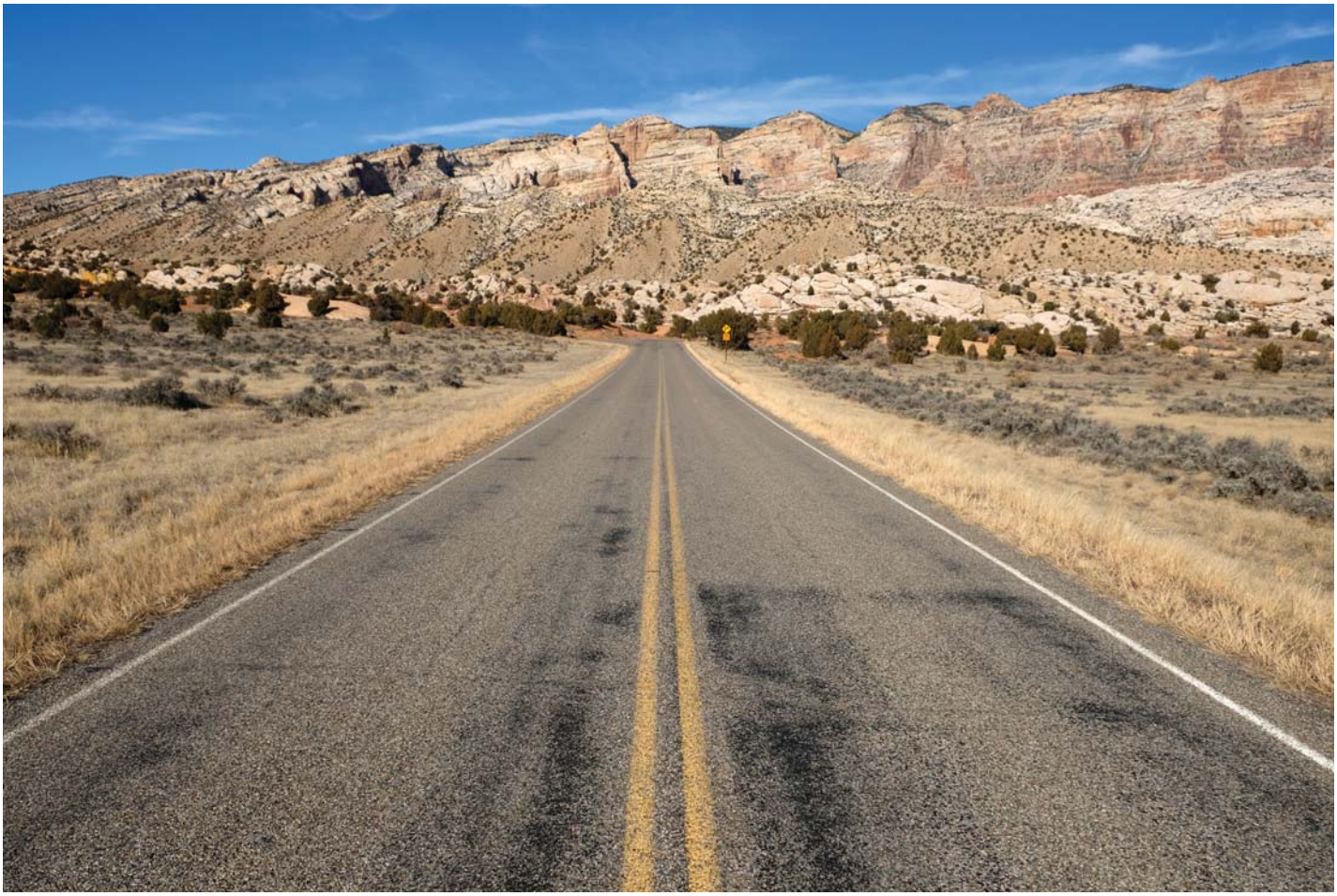
Inspection Date	FMSS Number	User Access	Surface Type
6/23/2017	N/A	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
3,114	0.054	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**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

Section 7
Road Milepost Information



Dinosaur National Monument

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.

DINO: Route Milepost Log

ROUTE 0010: GRD MAIN 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	PARK BOUNDARY	N/A	WEST MONUMENT BOUNDARY
0.00	0.00	INTERSECTION	N/A	ROUTE 0010 (GRD MAIN ENTRANCE ROAD)
0.03	0.03	INTERSECTION	R	ROUTE 0929AZ (GRD ENTRANCE PULLOUT A AT MP 0.03)
0.03	0.03	INTERSECTION	L	ROUTE 0929BZ (GRD ENTRANCE PULLOUT B AT MP 0.03)
0.26	0.26	INTERSECTION	R	ROUTE 0928 (GREEN RIVER KIOSK PARKING AREA)
0.73	0.73	INTERSECTION	R	ROUTE 0930 (MANCOS SEA PULLOUT)
1.75	1.75	INTERSECTION	L	ROUTE 0100 (QUARRY ACCESS ROAD)
1.99	1.99	INTERSECTION	L	ROUTE 0400 (QUARRY HOUSING ROAD)
2.69	2.69	INTERSECTION	L	ROUTE 0931BZ (SWELTER SHELTER PULLOUT B)
2.70	2.70	INTERSECTION	R	ROUTE 0931AZ (SWELTER SHELTER PULLOUT A)
2.82	2.82	INTERSECTION	R	UNPAVED ROUTE
3.56	3.56	INTERSECTION	L	ROUTE 0932 (SOUND OF SILENCE PULLOUT)
4.05	4.05	INTERSECTION	R	ROUTE 0933 (PULLOUT AT MP 4.03)
4.41	4.41	INTERSECTION	L	ROUTE 0216 (SPLIT MOUNTAIN CAMPGROUND ACCESS ROAD)
5.57	5.57	INTERSECTION	L	ROUTE 0902 (GREEN RIVER CAMPGROUND OVERLOOK)
5.63	5.63	INTERSECTION	L	ROUTE 0902 (GREEN RIVER CAMPGROUND OVERLOOK)
5.91	5.91	INTERSECTION	L	ROUTE 0202 (GREEN RIVER CAMPGROUND ACCESS ROAD)
6.24	6.24	INTERSECTION	R	UNPAVED ROUTE
6.29	6.29	INTERSECTION	R	ROUTE 0934 (MORRISON PULLOUT)
6.94	6.94	INTERSECTION	R	UNPAVED ROUTE
7.05	7.05	INTERSECTION	R	ROUTE 0935 (FIRE HISTORY PULLOUT)
7.18	7.26	BRIDGE	N/A	1400-001 (GREEN RIVER BRIDGE)
7.37	7.37	INTERSECTION	R	UNPAVED ROUTE
7.43	7.43	INTERSECTION	L	UNPAVED ROUTE (CHEW RANCH)
8.16	8.16	INTERSECTION	R	ROUTE 0936 (CHEW PULLOUT)
8.17	8.17	INTERSECTION	L	UNPAVED ROUTE (CHEW RANCH ROAD)
8.65	8.65	INTERSECTION	R	UNPAVED ROUTE
8.68	8.68	INTERSECTION	R	UNPAVED ROUTE
9.20	9.20	INTERSECTION	L	ROUTE 0937 (TURTLE ROCK PULLOUT)

Data Collected on 8/2017

DINO: Route Milepost Log

ROUTE 0010: GRD MAIN 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
9.23	9.23	INTERSECTION	L	ROUTE 0937 (TURTLE ROCK PULLOUT)
9.49	9.49	INTERSECTION	L	ROUTE 0938 (CUB CREEK PULLOUT)
9.49	9.49	INTERSECTION	R	UNPAVED ROUTE
9.64	9.64	INTERSECTION	R	UNPAVED ROUTE
9.67	9.67	INTERSECTION	R	UNPAVED ROUTE
9.81	9.81	INTERSECTION	N/A	UNPAVED ROUTE

DINO: Route Milepost Log

ROUTE 0011: HARPERS CORNER 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	SOUTH MONUMENT BOUNDARY
0.00	0.00	INTERSECTION	L	U.S. HIGHWAY 40
0.00	0.00	INTERSECTION	R	U.S. HIGHWAY 40
0.01	0.01	INTERSECTION	R	U.S. HIGHWAY 40 SPUR
0.01	0.01	INTERSECTION	L	U.S. HIGHWAY 40 SPUR
0.04	0.04	INTERSECTION	R	ROUTE 0904A (HEADQUARTERS PUBLIC PARKING AREA A)
0.06	0.06	INTERSECTION	R	ROUTE 0904A (HEADQUARTERS PUBLIC PARKING AREA A)
0.14	0.14	INTERSECTION	R	ROUTE 0918 (YAMPA MAINTENANCE PARKING YARD)
0.37	0.37	INTERSECTION	L	ROUTE 0401 (HEADQUARTERS HOUSING ROAD)
2.98	2.98	INTERSECTION	L	UNPAVED ROUTE (COUNTY ROAD 161)
3.74	3.74	INTERSECTION	R	ROUTE 0905 (PARKING AREA AT MP 3.74)
3.78	3.78	INTERSECTION	R	ROUTE 0905 (PARKING AREA AT MP 3.74)
4.31	4.31	INTERSECTION	L	ROUTE 0939 (PLUG HAT PICNIC AREA PARKING)
4.34	4.34	INTERSECTION	L	UNPAVED ROUTE
5.97	5.97	INTERSECTION	R	UNPAVED ROUTE
5.99	5.99	INTERSECTION	L	UNPAVED ROUTE
6.90	6.90	INTERSECTION	R	UNPAVED ROUTE
7.05	7.05	INTERSECTION	L	UNPAVED ROUTE
8.08	8.08	INTERSECTION	L	ROUTE 0906 (ESCALANTE OVERLOOK PARKING AREA)
8.91	8.91	INTERSECTION	R	UNPAVED ROUTE
8.91	8.91	INTERSECTION	L	UNPAVED ROUTE
9.78	9.78	INTERSECTION	R	UNPAVED ROUTE
9.78	9.78	INTERSECTION	L	UNPAVED ROUTE
11.16	11.16	INTERSECTION	R	UNPAVED ROUTE
11.80	11.80	INTERSECTION	L	UNPAVED ROUTE (MOFFET COUNTY ROUTE 16)
12.15	12.15	INTERSECTION	L	UNPAVED ROUTE
13.54	13.54	INTERSECTION	L	UNPAVED ROUTE
15.75	15.75	INTERSECTION	R	UNPAVED ROUTE
16.11	16.11	INTERSECTION	L	UNPAVED ROUTE

Data Collected on 8/2017

DINO: Route Milepost Log

ROUTE 0011: HARPERS CORNER 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
17.28	17.28	INTERSECTION	R	UNPAVED ROUTE
17.28	17.28	INTERSECTION	L	UNPAVED ROUTE
18.84	18.84	INTERSECTION	L	UNPAVED ROUTE
19.45	19.45	INTERSECTION	R	ROUTE 0201 (CANYON OVERLOOK ROAD)
19.70	19.70	INTERSECTION	L	UNPAVED ROUTE
21.43	21.43	STATE BOUNDARY	N/A	LEAVING COLORADO / ENTERING UTAH
22.01	22.01	INTERSECTION	L	POINT OF THE PINES, CLIFF RIDGE LAUNCH SITE
23.37	23.37	INTERSECTION	L	UNPAVED ROUTE
23.37	23.37	INTERSECTION	R	UNPAVED ROUTE
24.25	24.25	INTERSECTION	L	UNPAVED ROUTE
24.77	24.77	INTERSECTION	R	UNPAVED ROUTE
24.77	24.77	INTERSECTION	L	UNPAVED ROUTE
25.15	25.15	INTERSECTION	R	ROUTE 0907 (PARKING AREA AT MP 25.15)
25.19	25.19	INTERSECTION	R	ROUTE 0907 (PARKING AREA AT MP 25.15)
25.47	25.47	INTERSECTION	L	UNPAVED ROUTE
25.48	25.48	INTERSECTION	R	UNPAVED ROUTE
25.52	25.52	INTERSECTION	R	ROUTE 0210 (ECHO PARK ROAD)
26.01	26.01	INTERSECTION	L	ROUTE 0908 (ISLAND PARK OVERLOOK PARKING AREA)
26.82	26.82	INTERSECTION	L	UNPAVED ROUTE (ECHO PARK ROAD)
27.34	27.34	INTERSECTION	R	ROUTE 0909 (IRON SPRINGS BENCH PARKING AREA)
28.50	28.50	INTERSECTION	L	UNPAVED ROUTE
29.49	29.49	STATE BOUNDARY	N/A	LEAVING UTAH / ENTERING COLORADO
30.36	30.36	INTERSECTION	L	UNPAVED ROUTE
30.46	30.46	INTERSECTION	R	ROUTE 0910 (ECHO PARK OVERLOOK PARKING AREA)
30.49	30.49	INTERSECTION	R	ROUTE 0910 (ECHO PARK OVERLOOK PARKING AREA)
31.24	31.24	INTERSECTION	L	ROUTE 0011 (HARPERS CORNER ROAD)
31.24	31.24	ONE-WAY START	N/A	N/A
31.64	31.64	INTERSECTION	R	ROUTE 0916A (HARPERS CORNER PARKING AREA A)
31.67	31.67	INTERSECTION	L	ROUTE 0916B (HARPERS CORNER PARKING AREA B)

Data Collected on 8/2017

DINO: Route Milepost Log

ROUTE 0011: HARPERS CORNER 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
31.88	31.88	ONE-WAY END	N/A	N/A
31.88	31.88	INTERSECTION	L	ROUTE 0011 (HARPERS CORNER ROAD)
31.88	31.88	INTERSECTION	N/A	ROUTE 0011 (HARPERS CORNER ROAD)

ROUTE 0100: QUARRY 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	L	ROUTE 0010 (GRD MAIN ENTRANCE ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0010 (GRD MAIN ENTRANCE ROAD)
0.03	0.03	INTERSECTION	L	ROUTE 0900 (QUARRY VISITOR CENTER LOWER PARKING AREA)
0.18	0.18	INTERSECTION	L	ROUTE 0223 (QUARRY VISITOR CENTER SHUTTLE BUS PICKUP ROAD)
0.21	0.21	INTERSECTION	R	ROUTE 0400 (QUARRY HOUSING ROAD)
0.37	0.37	INTERSECTION	L	ROUTE 0914 (QUARRY VISITOR CENTER MIDDLE PARKING LOT)
0.42	0.42	INTERSECTION	L	ROUTE 0914 (QUARRY VISITOR CENTER MIDDLE PARKING LOT)
0.62	0.62	INTERSECTION	N/A	ROUTE 0901 (QUARRY VISITORS CENTER PARKING)

DINO: Route Milepost Log

ROUTE 0101: DEERLODGE ENTRANCE ROAD

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	U.S. HIGHWAY 40
0.00	0.00	PARK BOUNDARY	N/A	EAST MONUMENT BOUNDARY
0.00	0.00	INTERSECTION	R	U.S. HIGHWAY 40
0.13	0.13	INTERSECTION	R	ROUTE 0913 (DEERLODGE INFORMATION KIOSK PARKING AREA AT MP 0.13)
0.16	0.16	INTERSECTION	R	ROUTE 0913 (DEERLODGE INFORMATION KIOSK PARKING AREA AT MP 0.13)
1.01	1.01	MILE MARKER	R	MILE MARKER 1
1.01	1.01	MILE MARKER	L	MILE MARKER 1
2.01	2.01	MILE MARKER	L	MILE MARKER 2
2.01	2.01	MILE MARKER	R	MILE MARKER 2
2.02	2.02	INTERSECTION	R	UNPAVED ROUTE (MOFFATT COUNTY ROUTE 123)
3.02	3.02	MILE MARKER	R	MILE MARKER 3
3.02	3.02	MILE MARKER	L	MILE MARKER 3
4.01	4.01	MILE MARKER	R	MILE MARKER 4
4.01	4.01	MILE MARKER	L	MILE MARKER 4
4.15	4.15	INTERSECTION	R	ROUTE 0213 (CROSS MOUNTAIN GORGE ROAD)
4.27	4.27	INTERSECTION	R	UNPAVED ROUTE (MOFFATT COUNTY ROUTE 123)
5.02	5.02	MILE MARKER	R	MILE MARKER 5
5.02	5.02	MILE MARKER	L	MILE MARKER 5
5.68	5.68	INTERSECTION	R	ROUTE 0912 (DEERLODGE ROAD NEEDLE PARKING AREA)
6.02	6.02	MILE MARKER	L	MILE MARKER 6
6.02	6.02	MILE MARKER	R	MILE MARKER 6
6.60	6.60	INTERSECTION	R	UNPAVED ROUTE (MOFFATT COUNTY ROUTE 25)
7.03	7.03	MILE MARKER	R	MILE MARKER 7
7.03	7.03	MILE MARKER	L	MILE MARKER 7
7.71	7.71	INTERSECTION	L	UNPAVED ROUTE (YAMPA VALLEY TRAIL ACCESS)
8.03	8.03	MILE MARKER	L	MILE MARKER 8
8.03	8.03	MILE MARKER	R	MILE MARKER 8
8.92	8.92	INTERSECTION	L	UNPAVED ROUTE (YAMPA VALLEY TRAIL ACCESS)

Data Collected on 8/2017

DINO: Route Milepost Log

ROUTE 0101: DEERLODGE ENTRANCE ROAD

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
9.04	9.04	MILE MARKER	L	MILE MARKER 9
9.04	9.04	MILE MARKER	R	MILE MARKER 9
9.16	9.16	INTERSECTION	L	UNPAVED ROUTE (YAMPA VALLEY TRAIL ACCESS)
10.04	10.04	MILE MARKER	R	MILE MARKER 10
10.04	10.04	MILE MARKER	L	MILE MARKER 10
10.80	10.80	INTERSECTION	R	ROUTE 0923 (YAMPA RIVER PARKING AREA AT MP 10.8)
10.98	10.98	INTERSECTION	R	UNPAVED ROAD
11.04	11.04	MILE MARKER	R	MILE MARKER 11
11.04	11.04	MILE MARKER	L	MILE MARKER 11
11.22	11.22	INTERSECTION	L	UNPAVED ROAD
12.06	12.06	MILE MARKER	R	MILE MARKER 12
12.06	12.06	MILE MARKER	L	MILE MARKER 12
12.16	12.16	INTERSECTION	R	ROUTE 0940 (DEERLODGE BOATER PARKING)
12.21	12.21	INTERSECTION	R	ROUTE 0212 (DEERLODGE CAMPGROUND ROAD)
12.67	12.67	INTERSECTION	N/A	ROUTE 0911 (DEERLODGE ENTRANCE ROAD PARKING)

DINO: Route Milepost Log

ROUTE 0200A: SPLIT MOUNTAIN CAMPGROUND 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	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	L	ROUTE 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD)
0.00	0.00	INTERSECTION	N/A	ROUTE 0216 (SPLIT MOUNTAIN CAMPGROUND ACCESS ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0903 (SPLIT MOUNTAIN CAMPGROUND BOAT RAMP PARKING)
0.02	0.02	INTERSECTION	L	ROUTE 0926AZ (SPLIT MOUNTAIN CAMPGROUND BOAT TRAILER PARKING A)
0.03	0.03	INTERSECTION	R	ROUTE 0926CZ (SPLIT MOUNTAIN CAMPGROUND BOAT TRAILER PARKING C)
0.19	0.19	INTERSECTION	R	ROUTE 0200B (SPLIT MOUNTAIN CAMPGROUND SPUR ROAD)
0.20	0.20	INTERSECTION	R	ROUTE 0200B (SPLIT MOUNTAIN CAMPGROUND SPUR ROAD)
0.37	0.37	INTERSECTION	L	ROUTE 0926AZ (SPLIT MOUNTAIN CAMPGROUND BOAT TRAILER PARKING A)
0.39	0.39	INTERSECTION	R	ROUTE 0926BZ (SPLIT MOUNTAIN CAMPGROUND BOAT TRAILER PARKING B)
0.40	0.40	ONE-WAY END	N/A	N/A
0.40	0.40	INTERSECTION	R	ROUTE 0903 (SPLIT MOUNTAIN CAMPGROUND BOAT RAMP PARKING)
0.40	0.40	INTERSECTION	L	ROUTE 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD)
0.40	0.40	INTERSECTION	N/A	ROUTE 0216 (SPLIT MOUNTAIN CAMPGROUND ACCESS ROAD)

DINO: Route Milepost Log

ROUTE 0200B: SPLIT MOUNTAIN CAMPGROUND SPUR 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 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD)
0.02	0.02	INTERSECTION	L	ROUTE 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD) SPUR
0.23	0.23	INTERSECTION	L	ROUTE 0200B (SPLIT MOUNTAIN CAMPGROUND SPUR ROAD)
0.23	0.23	ONE-WAY START	N/A	N/A
0.26	0.26	INTERSECTION	L	ROUTE 0927B (SPLIT MOUNTAIN CAMPGROUND SPUR PARKING B)
0.33	0.33	INTERSECTION	L	ROUTE 0927A (SPLIT MOUNTAIN CAMPGROUND SPUR PARKING A)
0.36	0.36	INTERSECTION	N/A	ROUTE 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD)
0.36	0.36	ONE-WAY END	N/A	N/A
0.36	0.36	INTERSECTION	L	ROUTE 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD)

DINO: Route Milepost Log

ROUTE 0201: CANYON OVERLOOK 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 0011 (HARPERS CORNER ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0011 (HARPERS CORNER ROAD)
0.70	0.70	INTERSECTION	L	ROUTE 0215 (CANYON OVERLOOK LOWER ROAD)
0.79	0.79	INTERSECTION	L	ROUTE 0919B (CANYON OVERLOOK PARKING AREA B)
0.81	0.81	ONE-WAY START	N/A	N/A
0.81	0.81	INTERSECTION	L	ROUTE 0201 (CANYON OVERLOOK ROAD)
0.87	0.87	INTERSECTION	R	ROUTE 0919A (CANYON OVERLOOK PARKING AREA A)
0.88	0.88	ONE-WAY END	N/A	N/A
0.88	0.88	INTERSECTION	N/A	ROUTE 0201 (CANYON OVERLOOK ROAD)
0.88	0.88	INTERSECTION	L	ROUTE 0201 (CANYON OVERLOOK ROAD)
0.88	0.88	INTERSECTION	R	ROUTE 0919A (CANYON OVERLOOK PARKING AREA A)

ROUTE 0202: GREEN RIVER 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 (GRD MAIN ENTRANCE ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0010 (GRD MAIN ENTRANCE ROAD)
0.17	0.17	INTERSECTION	R	UNPAVED ROAD
0.45	0.45	INTERSECTION	R	ROUTE 0925A (GREEN RIVER CAMPGROUND PARKING AREA A)
0.46	0.46	INTERSECTION	L	ROUTE 0214A (GREEN RIVER CAMPGROUND LOOP ROAD A)
0.46	0.46	INTERSECTION	R	ROUTE 0214C (GREEN RIVER CAMPGROUND LOOP ROAD C)
0.46	0.46	INTERSECTION	N/A	ROUTE 0214B (GREEN RIVER CAMPGROUND LOOP ROAD B)

DINO: Route Milepost Log

ROUTE 0213: CROSS MOUNTAIN GORGE ROAD

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0101 (DEERLODGE ENTRANCE ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0101 (DEERLODGE ENTRANCE ROAD)
0.18	0.18	INTERSECTION	R	UNPAVED ROUTE
0.22	0.22	INTERSECTION	N/A	ROUTE 0213 (CROSS MOUNTAIN GORGE ROAD) UNPAVED SECTION

ROUTE 0214A: GREEN RIVER CAMPGROUND LOOP ROAD 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	INTERSECTION	R	ROUTE 0214B (GREEN RIVER CAMPGROUND LOOP ROAD B)
0.00	0.00	INTERSECTION	L	ROUTE 0202 (GREEN RIVER CAMPGROUND ACCESS ROAD)
0.00	0.00	INTERSECTION	N/A	ROUTE 0214C (GREEN RIVER CAMPGROUND LOOP ROAD C)
0.01	0.01	INTERSECTION	L	ROUTE 0214A (GREEN RIVER CAMPGROUND LOOP ROAD A)
0.01	0.01	ONE-WAY START	N/A	N/A
0.25	0.25	INTERSECTION	R	ROUTE 0214A (GREEN RIVER CAMPGROUND LOOP ROAD A)
0.25	0.25	INTERSECTION	L	ROUTE 0214A (GREEN RIVER CAMPGROUND LOOP ROAD A)
0.25	0.25	ONE-WAY END	N/A	N/A

DINO: Route Milepost Log

ROUTE 0214B: GREEN RIVER CAMPGROUND LOOP ROAD 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	INTERSECTION	N/A	ROUTE 0202 (GREEN RIVER CAMPGROUND ACCESS ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0214C (GREEN RIVER CAMPGROUND LOOP ROAD C)
0.00	0.00	INTERSECTION	L	ROUTE 0214A (GREEN RIVER CAMPGROUND LOOP ROAD A)
0.00	0.00	ONE-WAY START	N/A	N/A
0.08	0.08	INTERSECTION	L	ROUTE 0925B (GREEN RIVER CAMPGROUND PARKING AREA B)
0.18	0.18	INTERSECTION	L	ROUTE 0214E (GREEN RIVER CAMPGROUND LOOP ROAD E)
0.18	0.18	INTERSECTION	R	ROUTE 0214C (GREEN RIVER CAMPGROUND LOOP ROAD C)
0.18	0.18	INTERSECTION	N/A	ROUTE 0214D (GREEN RIVER CAMPGROUND LOOP ROAD D)
0.18	0.18	ONE-WAY END	N/A	N/A

ROUTE 0214C: GREEN RIVER CAMPGROUND LOOP ROAD 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	R	ROUTE 0214B (GREEN RIVER CAMPGROUND LOOP ROAD B)
0.00	0.00	INTERSECTION	L	ROUTE 0214D (GREEN RIVER CAMPGROUND LOOP ROAD D)
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	N/A	ROUTE 0214E (GREEN RIVER CAMPGROUND LOOP ROAD E)
0.12	0.12	INTERSECTION	L	ROUTE 0214D (GREEN RIVER CAMPGROUND LOOP ROAD D)
0.14	0.14	INTERSECTION	R	ROUTE 0214B (GREEN RIVER CAMPGROUND LOOP ROAD B)
0.14	0.14	INTERSECTION	N/A	ROUTE 0214A (GREEN RIVER CAMPGROUND LOOP ROAD A)
0.14	0.14	INTERSECTION	L	ROUTE 0202 (GREEN RIVER CAMPGROUND ACCESS ROAD)
0.14	0.14	ONE-WAY END	N/A	N/A

Data Collected on 8/2017

DINO: Route Milepost Log

ROUTE 0214D: GREEN RIVER CAMPGROUND LOOP ROAD 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 0214E (GREEN RIVER CAMPGROUND LOOP ROAD E)
0.00	0.00	INTERSECTION	N/A	ROUTE 0214B (GREEN RIVER CAMPGROUND LOOP ROAD B)
0.00	0.00	INTERSECTION	R	ROUTE 0214C (GREEN RIVER CAMPGROUND LOOP ROAD C)
0.00	0.00	ONE-WAY START	N/A	N/A
0.02	0.02	INTERSECTION	L	ROUTE 0214E (GREEN RIVER CAMPGROUND LOOP ROAD E)
0.18	0.18	INTERSECTION	L	ROUTE 0214C (GREEN RIVER CAMPGROUND LOOP ROAD C)
0.18	0.18	INTERSECTION	R	ROUTE 0214C (GREEN RIVER CAMPGROUND LOOP ROAD C)
0.18	0.18	ONE-WAY END	N/A	N/A

ROUTE 0214E: GREEN RIVER CAMPGROUND LOOP ROAD E

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 0214D (GREEN RIVER CAMPGROUND LOOP ROAD D)
0.00	0.00	INTERSECTION	N/A	ROUTE 0214D (GREEN RIVER CAMPGROUND LOOP ROAD D)
0.00	0.00	ONE-WAY START	N/A	N/A
0.28	0.28	INTERSECTION	L	ROUTE 0214D (GREEN RIVER CAMPGROUND LOOP ROAD D)
0.28	0.28	INTERSECTION	R	ROUTE 0214B (GREEN RIVER CAMPGROUND LOOP ROAD B)
0.28	0.28	INTERSECTION	N/A	ROUTE 0214C (GREEN RIVER CAMPGROUND LOOP ROAD C)
0.28	0.28	ONE-WAY END	N/A	N/A

DINO: Route Milepost Log

ROUTE 0215: CANYON OVERLOOK LOWER 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 0201 (CANYON OVERLOOK ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0201 (CANYON OVERLOOK ROAD)
0.21	0.21	INTERSECTION	L	ROUTE 0215 (CANYON OVERLOOK LOWER ROAD)
0.21	0.21	ONE-WAY START	N/A	N/A
0.22	0.22	INTERSECTION	R	ROUTE 0920 (CANYON OVERLOOK LOWER ROAD PARKING AREA)
0.30	0.30	INTERSECTION	L	ROUTE 0215 (CANYON OVERLOOK LOWER ROAD)
0.30	0.30	INTERSECTION	N/A	ROUTE 0215 (CANYON OVERLOOK LOWER ROAD)
0.30	0.30	ONE-WAY END	N/A	N/A

ROUTE 0216: SPLIT MOUNTAIN 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	L	ROUTE 0010 (GRD MAIN ENTRANCE ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0010 (GRD MAIN ENTRANCE ROAD)
0.15	0.15	INTERSECTION	R	PAVED PULLOUT
0.30	0.30	INTERSECTION	L	PAVED PULLOUT
0.44	0.44	INTERSECTION	R	PAVED PULLOUT
0.74	0.74	INTERSECTION	R	ROUTE 0941 (SPLIT MOUNTAIN OVERLOOK)
0.99	0.99	INTERSECTION	L	ROUTE 0903 (SPLIT MOUNTAIN CAMPGROUND BOAT RAMP PARKING)
0.99	0.99	INTERSECTION	R	ROUTE 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD)
0.99	0.99	INTERSECTION	N/A	ROUTE 0200A (SPLIT MOUNTAIN CAMPGROUND LOOP ROAD)

DINO: Route Milepost Log

ROUTE 0223: QUARRY VISITOR CENTER SHUTTLE BUS PICKUP 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 0100 (QUARRY ACCESS ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0100 (QUARRY ACCESS ROAD)
0.05	0.05	INTERSECTION	L	ROUTE 0223 (QUARRY VISITOR CENTER SHUTTLE BUS PICKUP ROAD)
0.11	0.11	INTERSECTION	L	ROUTE 0223 (QUARRY VISITOR CENTER SHUTTLE BUS PICKUP ROAD)
0.11	0.11	INTERSECTION	R	ROUTE 0223 (QUARRY VISITOR CENTER SHUTTLE BUS PICKUP ROAD)

ROUTE 0400: QUARRY HOUSING 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 (GRD MAIN ENTRANCE ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0010 (GRD MAIN ENTRANCE ROAD)
0.17	0.17	INTERSECTION	R	ROUTE 0921 (GRD SEASONAL HOUSING PARKING)
0.24	0.24	INTERSECTION	R	ROUTE 0917 (QUARRY MAINTENANCE YARD)
0.26	0.26	INTERSECTION	L	UNPAVED PARKING FOR RESOURCE CENTER
0.28	0.28	INTERSECTION	R	ROUTE 0403 (QUARRY WASTEWATER ROAD)
0.33	0.33	INTERSECTION	R	ROUTE 0100 (QUARRY ACCESS ROAD)
0.33	0.33	INTERSECTION	L	ROUTE 0100 (QUARRY ACCESS ROAD)

DINO: Route Milepost Log

ROUTE 0401: HEADQUARTERS HOUSING 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 0011 (HARPERS CORNER ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0011 (HARPERS CORNER ROAD)
0.29	0.29	INTERSECTION	R	ROUTE 0402 (HEADQUARTERS QUARTERS WELL ROAD)
0.31	0.31	INTERSECTION	L	ROUTE 0922A (HEADQUARTERS HOUSING PARKING AREA A)
0.31	0.31	INTERSECTION	R	ROUTE 0922B (HEADQUARTERS HOUSING PARKING AREA B)
0.45	0.45	INTERSECTION	N/A	ROUTE 0401 (HEADQUARTERS HOUSING ROAD)

ROUTE 0403: QUARRY WASTEWATER 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 0400 (QUARRY HOUSING ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0403 (QUARRY WASTEWATER ROAD)
0.02	0.02	INTERSECTION	R	ROUTE 0915 (QUARRY EMPLOYEE PARKING)
0.04	0.04	INTERSECTION	R	ROUTE 0917 (QUARRY MAINTENANCE YARD)
0.18	0.18	INTERSECTION	N/A	ROUTE 0403 (QUARRY WASTEWATER ROAD) UNPAVED SECTION

Section 8
Appendix

Dinosaur National Monument

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.

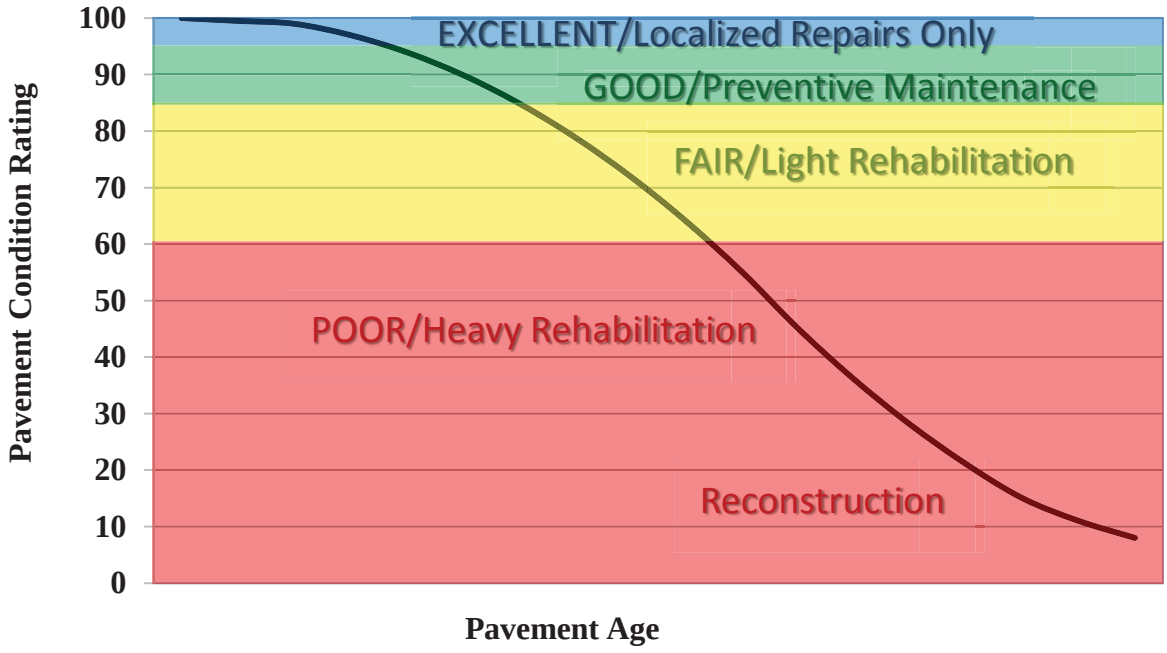
Explanation of the Condition Descriptions

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:

Asphalt PCR = (0.60 * SCR) + (0.40 * RCI)
Concrete PCR = 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:

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

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

RUT_INDEX = 100 – 40 * [(%LOW / 535) + (%MED / 205) + (%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:

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

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)

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:

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

There is no applicable threshold for failure for this index.

Roughness Condition Index (Concrete)

RCI = $(-0.0012)(IRI^2) + (0.0499)(IRI) + 99.542$

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 is 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 <= 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:

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

Where:

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

Rutting Index for Manual Rating:

RUT_INDEX = 100 – 40 * (%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 ºF to +140 ºF)
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

Interim Report Delivery

Partial report will be primarily focused on manually collected routes. The report will be released approximately four months after manual collection of parking lots and other manually collected routes to provide NPS an immediate report on the condition of routes collected manually.

The Interim Report Delivery consists of an Interim Report PDF that contains the following:

- Parking lot and manually rated route conditions
- Route ID Reports
- Route ID Changes Report.

Please note that since the Data Collection Vehicle will have not collected data at this point in time, the following will not be in the Interim Report:

- No park summary information will be provided in the report
- No DCV data will be provided in report
- No road logs will be provided in report
- No maps will be provided in report
- Any mileages collected will be approximate

All data provided in the Interim Report will also be included in the Final Report.

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 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 with 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 programing 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