

DENA Cycle 6

Final Report

Road Inventory and Condition Assessments for Denali National Park & Preserve



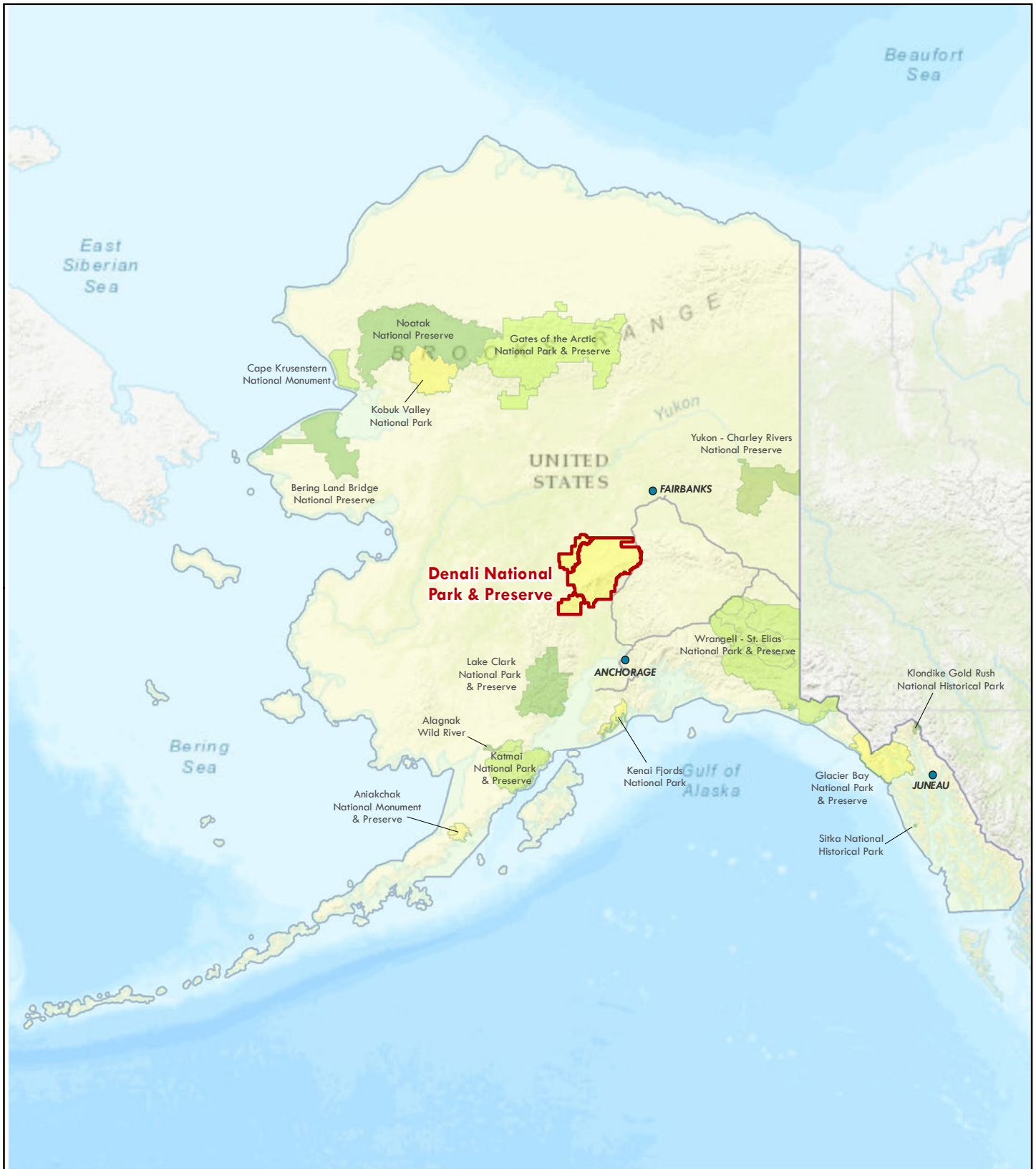
**Federal Lands Highway
Road Inventory Program**

Prepared By:

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

Report Date: February 2020

Denali National Park & Preserve in Alaska



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



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Section 1 Introduction



Denali National Park & Preserve



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



Denali National Park & Preserve



Federal Lands Highway
Road Inventory Program

Cycle 6 NPS / RIP Route ID Report

(Numerical By Summary Route and Subcomponent #)



Shading Color Key

White = Paved Routes, DCV Driven

Grey = Paved Routes, DCV not Driven

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■ = Concession Route

Yellow = Unpaved Routes, DCV not Driven

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ROAD INVENTORY (1100 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description		Maintenance District	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)	Surf. Type	Area Map
						From	To									
0010EZZ	6	1	20052		DENALI PARK ROAD - EAST	FROM ROUTE 5000 (GEORGE PARKS HIGHWAY)	TO BEGINNING OF ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 14.971	EAST	YES	15.04	0	15.04	1		AS	1,1A, 1B,1C
0010W	6	1	20051		DENALI PARK ROAD - WEST	FROM END OF ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 14.971	TO COUNTERCLOCKWISE LOOP AT KANTISHNA AIRSTRIP	EAST / WEST	YES	0	77.59	77.59	1		GR	1,2,3,4
0100	6	1	22435	■	RILEY CREEK CAMPGROUND ACCESS ROAD	FROM ROUTE 0222 (MERCANTILE ACCESS ROAD) AT MP 0.29 ON RIGHT	TO ROUTE 0916A (RILEY CREEK OVERFLOW PARKING (PAVED))	EAST	YES	0.22	0	0.22	2		AS	1A
0103	6	1	39571		WONDER LAKE CAMPGROUND ACCESS ROAD	FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 84.61 ON LEFT	TO BEGINNING OF ROUTE 0208ZZ (WONDER LAKE CAMPGROUND LOOPS) AND ROUTE 0300 (WONDER LAKE SHUTTLE SERVICE ROAD)	WEST	NO	0	1.58	1.58	2		GR	4A
0200ZZ	6	1	100035	■	RILEY CREEK CAMPGROUND LOOPS	FROM ROUTE 0100 (RILEY CREEK CAMPGROUND ACCESS ROAD)	THROUGH CAMPGROUND	EAST	YES	1.54	0	1.54	3		AS	1A
0201	6	1	39573	■	WILDERNESS ACCESS CENTER (BUS DEPOT) ACCESS ROAD	FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 0.75 ON RIGHT	TO ROUTE 0900ZZ (BUS DEPOT PARKING AREAS)	EAST	YES	0.29	0	0.29	1		AS	1A
0203	6	1	39575		HEADQUARTERS ACCESS ROAD	FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) MP 3.39 ON LEFT	TO BEGINNING OF ROUTE 0409ZZ (DOG KENNELS ACCESS ROADS)	EAST	YES	0.12	0	0.20	5		AS	1B
0204ZZ	6	1	39577	■	SAVAGE RIVER CAMPGROUND ROADS	FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 12.81 ON LEFT	THROUGH CAMPGROUND	EAST	NO	0	1.06	1.06	3		GR	1C
0205	6	1	39578	■	SANCTUARY CAMPGROUND ROAD	FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 22.71 ON LEFT	TO END	EAST	NO	0	0.16	0.16	3		GR	2

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Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description		Maintenance District	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)	Surf. Type	Area Map
						From	To									
0206	6	1	39579	■	TEKLANIKA CAMPGROUND ACCESS ROAD	FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 29.17 ON RIGHT	TO BEGINNING OF ROUTE 0210ZZ (TEKLANIKA CAMPGROUND LOOPS)	EAST	NO	0	0.15	0.15	3		GR	2A
0207	6	1	39581	■	IGLOO CAMPGROUND LOOP	FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 34.11 ON LEFT AND ROUTE 0941 (IGLOO PIT STORAGE AREA)	TO END	EAST	NO	0	0.09	0.09	3		GR	2
0208ZZ	6	1	39582	■	WONDER LAKE CAMPGROUND LOOPS	FROM END OF ROUTE 0103 (WONDER LAKE CAMPGROUND ACCESS ROAD)	THROUGH CAMPGROUND	WEST	NO	0	0.39	0.39	3		GR	4A
0210ZZ	6	1	39584	■	TEKLANIKA CAMPGROUND LOOPS	FROM ROUTE 0206 (TEKLANIKA CAMPGROUND ACCESS ROAD)	THROUGH CAMPGROUND	EAST	NO	0	0.46	0.46	3		GR	2A
0222	6	1	99195	■	MERCANTILE ACCESS ROAD	FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 0.43 ON LEFT	TO ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 0.45 ON LEFT	EAST	YES	0.33	0	0.33	3		AS	1A
0223ZZ	6	1	99222		TRAIN DEPOT ACCESS ROADS	FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 0.04 ON RIGHT	THROUGH DEPOT	EAST	YES	0.51	0.06	0.57	3		AS	1A
0224	6	1	113052		MOUNTAIN VISTA LOOP ROAD	FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 12.68 ON LEFT	TO END OF LOOP	EAST	YES	0.28	0	0.28	3		AS	1C
0300	6	1	39588		WONDER LAKE SHUTTLE SERVICE ROAD	FROM END OF ROUTE 0103 (WONDER LAKE CAMPGROUND ACCESS ROAD) AND ROUTE 0208ZZ (WONDER LAKE CAMPGROUND LOOPS)	TO END OF LOOP	WEST	NO	0	0.43	0.43	3		GR	4A
0400	NC		39589		MILE 234 PIT ROAD	FROM ROUTE 5000 (GEORGE PARKS HIGHWAY)	TO END	EAST	NO	0	0.20	0.20	6		GR	1
0402	6	1	39591		AIRSTRIIP ACCESS ROAD	FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 1.15 ON LEFT	TO END	EAST	NO	0	0.43	0.43	3		GR	1A

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ROAD INVENTORY (1100 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description		Maintenance District	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)	Surf. Type	Area Map
						From	To									
0404ZZ	6	1	39595		FRONT COUNTRY WATER SUPPLY ROAD	FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 1.54 ON RIGHT	TO ROUTE 0958 (FRONT COUNTRY PUMP HOUSE PARKING)	EAST	YES	0.14	0.35	0.49	5		AS	1A
0405	6	1	39603		C CAMP RESIDENCE AND MAINTENANCE ROAD	FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 3.05 ON RIGHT	TO ROUTE 0936 (B AND U PAD PARKING)	EAST	YES	0.20	0	0.20	5		AS	1B
0406	6	1	39756		ROCK CREEK PUMP HOUSE ROAD	FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 3.22 ON RIGHT	TO END	EAST	NO	0	0.23	0.23	6		GR	1B
0407ZZ	6	1	39760		HEADQUARTERS HOUSING AREA ROADS	FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 3.33 ON LEFT	THROUGH HEADQUARTERS AREA	EAST	YES	0.49	0.07	0.56	5		AS	1B
0409ZZ	6	1	39769		DOG KENNELS ACCESS ROADS	FROM END OF ROUTE 0203 (HEADQUARTERS ACCESS ROAD)	TO KENNEL	EAST	NO	0	0.12	0.12	5		GR	1B
0410ZZ	6	1	39770		ROCK CREEK RESERVOIR ROAD	FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 3.43 ON RIGHT	TO ROUTE 0970 (ROCK CREEK RESERVOIR / AIR QUALITY PARKING)	EAST	NO	0.03	0.11	0.14	6		AS	1B
0413	6	1	39774		TEKLANIKA CAMPGROUND SERVICE ROAD	FROM ROUTE 0206 (TEKLANIKA CAMPGROUND ACCESS ROAD) AT MP 0.07 ON LEFT	TO END	EAST	NO	0	0.11	0.11	6		GR	2A
0415	6	1	39775		EAST FORK CABIN ROAD	FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 43.05 ON LEFT	TO END AT CABIN	EAST	NO	0	0.26	0.26	3		GR	2
0416	6	1	39776		TOKLAT MAINTENANCE CAMP ROAD	FROM ROUTE 0912 (TOKLAT PARKING)	TO ROUTE 0938 (TOKLAT MAINTENANCE CAMP PARKING)	WEST	NO	0	0.24	0.24	5		GR	3A
0417ZZ	6	1	39778		WONDER LAKE WATER TANK ROADS	FROM ROUTE 0208ZZ (WONDER LAKE CAMPGROUND LOOPS) AT 0.15 ON LEFT	TO END OF LOOP	WEST	NO	0	0.79	0.79	6		GR	4A

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ROAD INVENTORY (1100 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description		Maintenance District	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)	Surf. Type	Area Map
						From	To									
0418ZZ	6	1	39779		C CAMP RESIDENCE ROADS	FROM ROUTE 0985ZZ (C CAMP RESIDENTIAL PAVED PARKING AREAS)	THROUGH CAMPGROUND	EAST	NO	0	0.35	0.35	6		GR	1B
0419ZZ	6	1	39780		TOKLAT CAMP RESIDENCE ROADS	FROM ROUTE 0416 (TOKLAT MAINTENANCE CAMP ROAD) AT MP 0.23 ON LEFT	THROUGH RESIDENCIAL	WEST	NO	0	0.42	0.42	6		GR	3A
0423	6	1	99223	■	MERCANTILE SERVICE ROAD	FROM ROUTE 0222 (MERCANTILE ACCESS ROAD) AT MP 0.20 ON RIGHT	TO ROUTE 0222 (MERCANTILE ACCESS ROAD) AT MP 0.27 ON RIGHT	EAST	YES	0.11	0	0.11	5		AS	1A
0424	6	1	109885		FRIDAY CREEK CAMP ROAD	FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT 91.72 ON RIGHT	TO END	WEST	NO	0	0.16	0.16	6		GR	4
0425	6	1	229106		KANTISHNA SKYLINE DRIVE	FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT 92.25 ON RIGHT	TO END	WEST	NO	0	10.46	10.46	6		GR	4
0426	6	1	98449	■	CONCESSIONS SUGARLOAF HALL ACCESS ROAD	FROM ROUTE 0404ZZ (FRONT COUNTRY WATER SUPPLY ROAD) AT MP 0.05 ON RIGHT	TO SUGARLOAF DINING HALL	EAST	NO	0.07	0	0.07	6		AS	1A
0427	6	1	98414	■	MORINO GRILL ACCESS ROAD	FROM ROUTE 0223ZZ (TRAIN DEPOT ACCESS ROADS) AT MP 0.04	TO END	EAST	NO	0.05	0	0.05	6		AS	1A
0428	6	1			ARRC ACCESS ROAD	FROM ROUTE 0223ZZ (TRAIN DEPOT ACCESS ROADS) AT MP 0.08 ON LEFT	TO END	EAST	NO	0	0.05	0.05	6		GR	1A
0429ZZ	6	1	100043		BUS DEPOT DROP OFF LOOPS	FROM ROUTE 0201 (WILDERNESS ACCESS CENTER (BUS DEPOT) ACCESS ROAD) AT MP 0.05 ON RIGHT	TO PARKING	EAST	YES	0.17	0	0.17	3		AS	1A

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NON-NPS ROADS INVENTORY

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Description		Maintenance District	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)	Surf. Type	Area Map
					From	To									
5000	5	1			GEORGE PARKS HIGHWAY	FROM SOUTH PARK BOUNDARY AT MP 231 (NENANA RIVER BRIDGE)	TO NORTH PARK BOUNDARY AT MP 238 (NENANA RIVER BRIDGE)	EAST	NO	6.87	0	6.87		AS	1,1A

PARKING AREA INVENTORY (1300 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Description		Maintenance District	FLTP	Access Level	Area (SQ FT)	Surf. Type	Area Map	
					From	To							
0900ZZ	6	1	39788		BUS DEPOT PARKING AREAS	FROM END OF ROUTE 0201 (WILDERNESS ACCESS CENTER (BUS DEPOT) ACCESS ROAD)	TO PARKING	EAST	YES	PUBLIC	187,665	AS	1A
0903	6	1	39797		ENTRANCE SIGN PARKING	FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 0.04 ON RIGHT	TO ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 0.07 ON RIGHT	EAST	YES	PUBLIC	12,212	AS	1A
0905ZZ	6	1	39800		HEADQUARTERS PARKING AREAS	FROM ROUTE 0203 (HEADQUARTERS ACCESS ROAD) ON LEFT AND RIGHT	TO PARKING	EAST	YES	PUBLIC	18,531	AS	1B
0906	6	1	39801		SAVAGE RIVER EAST PARKING	FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 14.74 ON RIGHT	TO PARKING	EAST	YES	PUBLIC	23,832	AS	1
0907	6	1	39802		SAVAGE RIVER WEST PARKING	FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 14.86 ON RIGHT	TO PARKING	EAST	NO	PUBLIC	26,751	GR	1
0908A	6	1	99228	■	EAST PRIMROSE PARKING	FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 17.2 ON LEFT	TO PARKING	EAST	NO	PUBLIC	25,467	GR	2
0908B	6	1	39803	■	WEST PRIMROSE PARKING	ADJACENT TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 17.30 ON LEFT		EAST	NO	PUBLIC	7,129	GR	2
0909	6	1	39804		MILE 20 VISTA PARKING	FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 19.71 ON LEFT	TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 19.76 ON LEFT	EAST	NO	PUBLIC	15,885	GR	2
0911	6	1	39806		TEKLANIKA REST STOP PARKING	FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 30.28 ON RIGHT	TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 30.37 ON RIGHT	EAST	NO	PUBLIC	42,012	GR	2

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PARKING AREA INVENTORY (1300 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Description		Maintenance District	FLTP	Access Level	Area (SQ FT)	Surf. Type	Area Map	
					From	To							
0912	6	1	100047		TOKLAT PARKING	FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 53.57 ON RIGHT	TO PARKING	WEST	NO	PUBLIC	78,019	GR	3A
0913	6	1	38021		STONY HILL OVERLOOK PARKING	FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 62.07 ON LEFT	TO PARKING	WEST	NO	PUBLIC	19,669	GR	3
0914	6	1	94869		EIELSON VISITOR CENTER PARKING	FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 66.01 ON LEFT	TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 66.08 ON LEFT	WEST	NO	PUBLIC	28,540	GR	3
0916A	6	1	39810		RILEY CREEK OVERFLOW PARKING (PAVED)	FROM END OF ROUTE 0100 (RILEY CREEK CAMPGROUND ACCESS ROAD)	TO ROUTE 0916B (RILEY CREEK OVERFLOW PARKING (UNPAVED))	EAST	YES	PUBLIC	5,076	AS	1A
0916B	6	1	39809		RILEY CREEK OVERFLOW PARKING (UNPAVED)	FROM ROUTE 0916A (RILEY CREEK OVERFLOW PARKING (PAVED))	TO PARKING	EAST	NO	PUBLIC	56,623	GR	1A
0920	6	1	39813	■	BUS MAINTENANCE WEST PARKING	FROM ROUTE 0404ZZ (FRONT COUNTRY WATER SUPPLY ROAD)	TO ROUTE 0426 (CONCESSIONS SUGARLOAF HALL ACCESS ROAD) AT MP 0.13 ON RIGHT	EAST	NO	NONPUBLIC	54,751	AS	1A
0921	6	1	39814	■	CONCESSIONS EMPLOYEE PARKING	FROM ROUTE 0404ZZ (FRONT COUNTRY WATER SUPPLY ROAD) AND ROUTE 0920 (BUS MAINTENANCE WEST PARKING)	TO PARKING	EAST	NO	PUBLIC	53,596	GR	1A
0922	6	1	39815	■	CONCESSIONS BUS FLEET PARKING	FROM ROUTE 0404ZZ (FRONT COUNTRY WATER SUPPLY ROAD) AT MP 0.10 ON LEFT	TO ROUTE 0404ZZ (FRONT COUNTRY WATER SUPPLY ROAD) AT 0.13 ON LEFT	EAST	NO	PUBLIC	114,313	GR	1A
0924	6	1	39817		POWER STATION PARKING	FROM ROUTE 0974 (DENALI VISITOR CENTER PARKING)	TO PARKING	EAST	NO	NONPUBLIC	8,198	GR	1A
0925	6	1	39818		FRONT COUNTRY SEWAGE LAGOON PARKING	FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 0.23 ON RIGHT AND ROUTE 0928 (RILEY CREEK POST OFFICE PARKING)	TO PARKING	EAST	NO	NONPUBLIC	84,475	GR	1A
0926A	6	1	39819	■	RILEY CREEK CAMPGROUND BEAR LOOP RESTROOM PARKING A	ADJACENT TO ROUTE 0200ZZ (RILEY CREEK CAMPGROUND LOOPS) AT MP 0.09 ON RIGHT		EAST	YES	PUBLIC	1,593	AS	1A

Cycle 6 NPS / RIP Route ID Report

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DENA Denali National Park & Preserve

PARKING AREA INVENTORY (1300 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Description		Maintenance District	FLTP	Access Level	Area (SQ FT)	Surf. Type	Area Map
					From	To						
0926B	6	1	99229	■	RILEY CREEK CAMPGROUND BEAR LOOP RESTROOM PARKING B	ADJACENT TO ROUTE 0200ZZ (RILEY CREEK CAMPGROUND LOOPS) AT MP 0.2 ON RIGHT	EAST	YES	PUBLIC	1,853	AS	1A
0927	6	1	39820	■	RILEY CREEK CAMPGROUND MERCANTILE SHUTTLE STOP	ADJACENT TO ROUTE 0100 (RILEY CREEK CAMPGROUND ACCESS ROAD) AT 0.02 ON RIGHT	EAST	YES	PUBLIC	1,921	AS	1A
0928	6	1	39816		RILEY CREEK POST OFFICE PARKING	FROM END OF ROUTE 0100 (RILEY CREEK CAMPGROUND ACCESS ROAD) ON LEFT TO ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AND ROUTE 0925 (FRONT COUNTRY SEWAGE LAGOON PARKING)	EAST	YES	PUBLIC	30,644	AS	1A
0929A	6	1	39822	■	RILEY CREEK SHUTTLE STOP	ADJACENT TO ROUTE 0100 (RILEY CREEK CAMPGROUND ACCESS ROAD) AT MP 0.17 ON RIGHT	EAST	YES	PUBLIC	747	AS	1A
0929B	6	1	100048	■	RILEY CREEK SHUTTLE BUS TURN AROUND	ADJACENT TO ROUTE 0100 (RILEY CREEK CAMPGROUND ACCESS ROAD) AT MP 0.18 ON LEFT	EAST	YES	PUBLIC	5,614	AS	1A
0930	6	1	39823		SAVAGE RIVER CAMPGROUND SHUTTLE STOP	ADJACENT TO ROUTE 0010EZZ (DENALI PARK ROAD - EAST) MP 12.81 ON RIGHT	EAST	YES	PUBLIC	1,216	AS	1C
0931	6	1	39824		SAVAGE CABIN TRAILHEAD PARKING	ADJACENT TO ROUTE 0010EZZ (DENALI PARK ROAD - EAST) MP 12.96 ON RIGHT	EAST	NO	PUBLIC	10,416	GR	1C
0932	6	1	39825		SAVAGE RIVER VIEWPOINT PARKING	ADJACENT TO ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 11.78 ON LEFT	EAST	YES	PUBLIC	5,494	AS	1
0933	6	1	39826		AUTO SHOP MAINTENANCE PARKING	FROM ROUTE 0405 (C CAMP RESIDENCE AND MAINTENANCE ROAD) ON LEFT TO PARKING	EAST	NO	NONPUBLIC	40,728	AS	1B
0935B	6	1	100049		MAINTENANCE EQUIPMENT PARKING	FROM ROUTE 0405 (C CAMP RESIDENCE AND MAINTENANCE ROAD) AT MP 0.18 ON RIGHT TO PARKING	EAST	NO	NONPUBLIC	32,004	GR	1B
0936	6	1	39829		B AND U PAD PARKING	FROM END OF ROUTE 0405 (C CAMP RESIDENCE AND MAINTENANCE ROAD) TO ROUTE 0984 (MAINTENANCE UPPER GRAVEL PARKING)	EAST	NO	NONPUBLIC	61,722	AS	1B

Cycle 6 NPS / RIP Route ID Report

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DENA Denali National Park & Preserve

PARKING AREA INVENTORY (1300 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description		Maintenance District	FLTP	Access Level	Area (SQ FT)	Surf. Type	Area Map
						From	To						
0938	6	1	39831		TOKLAT MAINTENANCE CAMP PARKING	FROM END OF ROUTE 0416 (TOKLAT MAINTENANCE CAMP ROAD)	TO ROUTE 0419ZZ (TOKLAT CAMP RESIDENCE ROADS)	WEST	NO	NONPUBLIC	84,014	GR	3A
0939	6	1	39832		FIVE MILE PIT STORAGE AREA	FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 5.63 ON RIGHT	TO PARKING	EAST	NO	NONPUBLIC	232,104	GR	1
0941	6	1	39834		IGLOO PIT STORAGE AREA	FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 34.11 ON RIGHT	TO PARKING	EAST	NO	NONPUBLIC	23,509	GR	2
0942	6	1	39835		MILE 25.85 PARKING	FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 25.88 ON RIGHT	TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 25.93 ON RIGHT	EAST	NO	PUBLIC	17,467	GR	2
0944	6	1	39837		TEKLANIKA CAMP HOST PARKING	FROM ROUTE 0206 (TEKLANIKA CAMPGROUND ACCESS ROAD)	TO ROUTE 0413 (TEKLANIKA CAMPGROUND SERVICE ROAD)	EAST	NO	NONPUBLIC	2,981	GR	2A
0945	6	1	39838		TOKLAT BRIDGE LOOP PARKING	FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 52.52 ON RIGHT	TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 52.67 ON RIGHT	WEST	NO	PUBLIC	19,135	GR	3
0946	6	1	39839		MOOSE CREEK PIT PARKING	FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 74.79 ON RIGHT	TO PARKING	WEST	NO	NONPUBLIC	6,178	GR	4
0947	6	1	39840		HIDEOUT PIT PARKING	FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 76.78 ON RIGHT	TO PARKING	WEST	NO	NONPUBLIC	3,130	GR	4
0948	6	1	39843		DUCK POND PULLOUT PARKING	ADJACENT TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 79.34 ON RIGHT		WEST	NO	PUBLIC	9,409	GR	4
0949	6	1	39844		DALLE-MOLLEVILLE PARKING	ADJACENT TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 84.77 ON RIGHT		WEST	NO	NONPUBLIC	5,885	GR	4A
0950	6	1	39845		WONDER LAKE RANGER STATION PARKING	FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 86.67 ON RIGHT	TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 86.70 ON RIGHT	WEST	NO	PUBLIC	9,227	GR	4
0951	6	1	39848		REFLECTION POND PARKING	ADJACENT TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 85.48 ON LEFT		WEST	NO	PUBLIC	1,252	GR	4

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DENA Denali National Park & Preserve

PARKING AREA INVENTORY (1300 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Description		Maintenance District	FLTP	Access Level	Area (SQ FT)	Surf. Type	Area Map	
					From	To							
0953	6	1	39850		MCKINLEY BAR TRAILHEAD PARKING	ADJACENT TO ROUTE 0103 (WONDER LAKE CAMPGROUND ACCESS ROAD) AT MP 1.01 ON LEFT	WEST	NO	PUBLIC	1,831	GR	4A	
0954	6	1	39851		WONDER LAKE SHUTTLE PARKING	ADJACENT TO ROUTE 0300 (WONDER LAKE SHUTTLE SERVICE ROAD) AT MP 0.39 ON RIGHT	WEST	NO	PUBLIC	2,586	GR	4A	
0955	6	1	39853		TEKLANIKA RIVER BRIDGE PARKING	ADJACENT TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 31.36 ON LEFT	EAST	NO	PUBLIC	4,446	GR	2	
0957	6	1	39856		HORSESHOE LAKE TRAILHEAD PARKING	ADJACENT TO ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 1.19 ON RIGHT	EAST	YES	PUBLIC	5,777	AS	1A	
0958	6	1	39857		FRONT COUNTRY PUMP HOUSE PARKING	FROM END OF ROUTE 0404ZZ (FRONT COUNTRY WATER SUPPLY ROAD)	TO PARKING	EAST	NO	NONPUBLIC	8,200	GR	1A
0959	6	1	39859		FRONT COUNTRY WATER TREATMENT PARKING	FROM ROUTE 0404ZZ (FRONT COUNTRY WATER SUPPLY ROAD) AT MP 0.19 ON LEFT	TO PARKING	EAST	NO	NONPUBLIC	5,490	GR	1A
0970	6	1	39861		ROCK CREEK RESERVOIR / AIR QUALITY PARKING	FROM END OF ROUTE 0410ZZ (ROCK CREEK RESERVOIR ROAD)	TO PARKING	EAST	NO	NONPUBLIC	8,579	GR	1B
0971	6	1	39821		MERCANTILE DUMP STATION	FROM ROUTE 0222 (MERCANTILE ACCESS ROAD) AT MP 0.16 ON RIGHT	TO ROUTE 0222 (MERCANTILE ACCESS ROAD) ON RIGHT AND ROUTE 0423 (MERCANTILE SERVICE ROAD)	EAST	YES	PUBLIC	19,960	AS	1A
0972	6	1	39827		MERCANTILE STORE PARKING	FROM ROUTE 0222 (MERCANTILE ACCESS ROAD) AT MP 0.20 ON RIGHT AND ROUTE 0423 (MERCANTILE SERVICE ROAD)	TO ROUTE 0222 (MERCANTILE ACCESS ROAD) AT MP 0.27 ON RIGHT	EAST	YES	PUBLIC	23,018	AS	1A
0973	6	1	109064		MURIE SCIENCE AND LEARNING CENTER PARKING	FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 1.50 ON RIGHT	TO ROUTE 0404ZZ (FRONT COUNTRY WATER SUPPLY ROAD) AT MP 0.02 ON RIGHT	EAST	YES	PUBLIC	10,516	AS	1A

Cycle 6 NPS / RIP Route ID Report

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DENA Denali National Park & Preserve

PARKING AREA INVENTORY (1300 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Description		Maintenance District	FLTP	Access Level	Area (SQ FT)	Surf. Type	Area Map	
					From	To							
0974	6	1	109063		DENALI VISITOR CENTER PARKING	FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 0.02 ON RIGHT	TO ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 1.68 ON LEFT AND ROUTE 0924 (POWER STATION PARKING)	EAST	YES	PUBLIC	178,402	AS	1A
0975ZZ	6	1	109232		TALKEETNA VISITOR CENTER PARKING AREAS	ADJACENT TO SOUTH B STREET		EAST	NO	PUBLIC	7,689	GR	5
0976	6	1	109882		MILE 73 PULLOUT PARKING	FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 73.13 ON LEFT	TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 73.15 ON LEFT	WEST	NO	PUBLIC	3,809	GR	4
0978	6	1	109884		BIG TIMBER OVERLOOK PARKING	ADJACENT TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 83.30 ON LEFT		WEST	NO	PUBLIC	4,031	GR	4
0979ZZ	6	1	88640		RILEY CREEK CAMPGROUND CARIBOU LOOP RESTROOM PARKING LOTS	ADJACENT TO ROUTE 0200ZZ (RILEY CREEK CAMPGROUND LOOPS) ON RIGHT		EAST	YES	PUBLIC	2,664	AS	1A
0980	6	1	113056		MOUNTAIN VISTA LOOP ROAD PARKING	FROM ROUTE 0224 (MOUNTAIN VISTA LOOP ROAD) AT MP 0.08 ON RIGHT	TO ROUTE 0224 (MOUNTAIN VISTA LOOP ROAD) AT MP 0.14 ON RIGHT	EAST	YES	PUBLIC	29,040	AS	1C
0981	6	1			HR STAFF PARKING	ADJACENT TO ROUTE 0407ZZ (HEADQUARTERS HOUSING AREA ROADS) AT MP 0.15 ON RIGHT		EAST	NO	NONPUBLIC	1,126	AS	1B
0983A	6	1	111186		HQ AND KENNELS LOOP ROAD & PARKING (PAVED)	FROM ROUTE 0203 (HEADQUARTERS ACCESS ROAD) AT MP 0.02 ON RIGHT	TO ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AND ROUTE 0983B (HQ AND KENNELS LOOP ROAD & PARKING (UNPAVED))	EAST	YES	PUBLIC	25,484	AS	1B
0983B	6	1	111186		HQ AND KENNELS LOOP ROAD & PARKING (UNPAVED)	FROM ROUTE 0983A (HQ AND KENNELS LOOP ROAD & PARKING (PAVED))	TO PARKING	EAST	NO	PUBLIC	38,297	GR	1B
0984	6	1	225904		MAINTENANCE UPPER GRAVEL PARKING	FROM ROUTE 0936 (B AND U PAD PARKING)	TO PARKING	EAST	NO	NONPUBLIC	49,671	GR	1B
0985ZZ	6	1	226521		C CAMP RESIDENTIAL PAVED PARKING AREAS	FROM ROUTE 0405 (C CAMP RESIDENCE AND MAINTENANCE ROAD)	TO PARKING	EAST	YES	PUBLIC	21,921	AS	1B

Cycle 6 NPS / RIP Route ID Report

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DENA Denali National Park & Preserve

PARKING AREA INVENTORY (1300 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description		Maintenance District	FLTP	Access Level	Area (SQ FT)	Surf. Type	Area Map
						From	To						
0986	6	1	226511		SHAFFER BUILDING LOWER EMPLOYEE PARKING	FROM ROUTE 0405 (C CAMP RESIDENCE AND MAINTENANCE ROAD) ON LEFT	TO ROUTE 0418DZ (C CAMP RESIDENCE ROAD D)	EAST	NO	NONPUBLIC	9,186	AS	1B
0987	6	1	226510		SHAFFER BUILDING UPPER PARKING	FROM ROUTE 0405 (C CAMP RESIDENCE AND MAINTENANCE ROAD) ON RIGHT	TO PARKING	EAST	NO	NONPUBLIC	17,563	AS	1B
0988	6	1	110869		KANTISHNA AIRSTRIP PARKING	ADJACENT TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 92.42 ON LEFT		WEST	NO	NONPUBLIC	2,917	GR	4
0990	6	1	244661		CONCESSIONS MAINTENANCE BUILDING PARKING	FROM ROUTE 0404ZZ (FRONT COUNTRY WATER SUPPLY ROAD) AND ROUTE 0426 (CONCESSIONS SUGARLOAF HALL ACCESS ROAD)	TO PARKING	EAST	NO	NONPUBLIC	18,883	GR	1A

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Cycle 6 Summary Totals for Denali National Park & Preserve

Cycle 6 Route Totals			
	NPS Maintained	Concessionaire Maintained	Park Totals
Paved Roads, Data Collection Vehicle Rated (Miles)	16.96	2.48	19.44
Paved Roads, Manually Rated Length (Miles)	0.03	0.12	0.15
Paved Roads, Manually Rated Area (Sq. Ft.)	0	0	0
Unpaved Roads (Miles)	93.99	2.32	96.30
Paved Parking (Sq. Ft.)	731,777	66,479	798,256
Unpaved Parking (Sq. Ft.)	973,312	200,505	1,173,817

Cycle 6 Lane Miles and Overall Pavement Condition - For Paved Roads/Parking Only		
	Lanes Miles*	Pavement Condition Rating**
Data Collection Vehicle Routes	38.42	90
Manually Rated Roads	0.26	90
Parking Areas	13.74	73

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

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

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General Park Road Functional Classification (FC) Table

FC	Type	User Access	Description	Route Numbers	Surface Types
1	Principal Park Road Rural Parkway	Public	Roads which constitute the main access route, circulatory tour, or thoroughfare for park visitors. Rural Parkways (e.g. Natchez Trace) are numbered 0001 - 0009.	0001 - 0009 0010 - 0099	AS - Asphaltic Concrete Pavement
2	Connector Park Road	Public	Roads which provide access within a park to areas of scenic, scientific, recreational or cultural interest, such as overlooks, campgrounds, etc.	0100 - 0199	BR - Brick or Pavers Road Bed CB - Cobble Stone Road Bed
3	Special Purpose Park Road	Public	Roads which provide circulation within public areas, such as campgrounds, picnic areas, visitor center complexes, concessionaire facilities, etc. These roads generally serve low-speed traffic and are often designed for one-way circulation.	0200 - 0299	CO - Portland Cement Concrete Pavement GR - Gravel Road Bed
4	Primitive Park Road	Public	Roads which provide circulation through remote areas and/or access to primitive campgrounds and undeveloped areas. These roads frequently have no minimum design standards and their use may be limited to specially equipped vehicles. Note: Functional Classes 3 and 4 have the same route numbers because, historically, they were numbered similarly.	0200 - 0299	NV - Native or Dirt Material Road Bed
5	Administrative Park Road	Public	All public roads intended for access to administrative developments or structures such as park offices, employee quarters, or utility areas.	0400 - 0499	OT - Other Materials Road Bed
6	Administrative Park Road (Restricted Access)	Nonpublic	All roads normally closed to the public, including patrol roads, truck trails, and other similar roads. Note: Functional Classes 5 and 6 have the same route numbers because historically they were numbered similarly and often there is little distinction between these routes. For example, because utility areas and employee housing are often closed to the public, this restriction would result in classification of FC 6 rather than FC 5.	0400 - 0499	
7	Urban Parkway	Public	These facilities serve high volumes of park and non-park related traffic and are restricted, limited-access facilities in an urban area. This category of roads primarily encompasses the major parkways which serve as gateways to our nation's capital. Other major park roads or portions thereof, however, may be included in this category.	0001 - 0009	
8	City Street	Public	City streets are usually extensions of the adjoining street system that are owned and maintained by the National Park Service. The construction and/or reconstruction should conform with accepted local engineering practice and local conditions.	0600 - 0699	
N/A	Non-NPS Roads	Public	State, County, or City owned roads which border, traverse, or provide access to Park Facilities or Locations. Non-NPS roads are not assigned functional classes and are driven for GPS and Video Log only.	5000 - 5999	

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

The historic route numbering system also included a 300 series for interpretive roads, and a 500 series for one-way roads. There are approximately 250 roads nationwide which are designated by the 300 and 500 series. The numbers for these roads will be maintained for reporting consistency. However, since these interpretive and one-way routes are not as clearly tied to a specific functional class, the 300 and 500 series will be discontinued for future use.

NPS / RIP Subcomponent Details for DENA

(Numerical By Summary Route and Subcomponent #)



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DENA Denali National Park & Preserve

SUMMARY ROUTE INVENTORY FOR ROADS (1100 SERIES FMSS LOCATIONS)

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
						From	To						
0010EZZ	20052	6	1		DENALI PARK ROAD - EAST	FROM ROUTE 5000 (GEORGE PARKS HIGHWAY)	TO BEGINNING OF ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 14.971	YES	15.04	0.00	15.04	1	
0200ZZ	100035	6	1	■	RILEY CREEK CAMPGROUND LOOPS	FROM ROUTE 0100 (RILEY CREEK CAMPGROUND ACCESS ROAD)	THROUGH CAMPGROUND	YES	1.54	0.00	1.54	3	
0204ZZ	39577	6	1	■	SAVAGE RIVER CAMPGROUND ROADS	FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 12.81 ON LEFT	THROUGH CAMPGROUND	NO	0.00	1.06	1.06	3	
0208ZZ	39582	6	1	■	WONDER LAKE CAMPGROUND LOOPS	FROM END OF ROUTE 0103 (WONDER LAKE CAMPGROUND ACCESS ROAD)	THROUGH CAMPGROUND	NO	0.00	0.39	0.39	3	
0210ZZ	39584	6	1	■	TEKLANIKA CAMPGROUND LOOPS	FROM ROUTE 0206 (TEKLANIKA CAMPGROUND ACCESS ROAD)	THROUGH CAMPGROUND	NO	0.00	0.46	0.46	3	
0223ZZ	99222	6	1		TRAIN DEPOT ACCESS ROADS	FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 0.04 ON RIGHT	THROUGH DEPOT	YES	0.51	0.06	0.57	3	
0404ZZ	39595	6	1		FRONT COUNTRY WATER SUPPLY ROAD	FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 1.54 ON RIGHT	TO ROUTE 0958 (FRONT COUNTRY PUMP HOUSE PARKING)	YES	0.14	0.35	0.49	5	
0407ZZ	39760	6	1		HEADQUARTERS HOUSING AREA ROADS	FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 3.33 ON LEFT	THROUGH HEADQUARTERS AREA	YES	0.49	0.07	0.56	5	
0409ZZ	39769	6	1		DOG KENNELS ACCESS ROADS	FROM END OF ROUTE 0203 (HEADQUARTERS ACCESS ROAD)	TO KENNEL	NO	0.00	0.12	0.12	5	
0410ZZ	39770	6	1		ROCK CREEK RESERVOIR ROAD	FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 3.43 ON RIGHT	TO ROUTE 0970 (ROCK CREEK RESERVOIR / AIR QUALITY PARKING)	NO	0.03	0.11	0.14	6	
0417ZZ	39778	6	1		WONDER LAKE WATER TANK ROADS	FROM ROUTE 0208ZZ (WONDER LAKE CAMPGROUND LOOPS) AT 0.15 ON LEFT	TO END OF LOOP	NO	0.00	0.79	0.79	6	
0418ZZ	39779	6	1		C CAMP RESIDENCE ROADS	FROM ROUTE 0985ZZ (C CAMP RESIDENTIAL PAVED PARKING AREAS)	THROUGH CAMPGROUND	NO	0.00	0.35	0.35	6	
0419ZZ	39780	6	1		TOKLAT CAMP RESIDENCE ROADS	FROM ROUTE 0416 (TOKLAT MAINTENANCE CAMP ROAD) AT MP 0.23 ON LEFT	THROUGH RESIDENTIAL	NO	0.00	0.42	0.42	6	
0429ZZ	100043	6	1		BUS DEPOT DROP OFF LOOPS	FROM ROUTE 0201 (WILDERNESS ACCESS CENTER (BUS DEPOT) ACCESS ROAD) AT MP 0.05 ON RIGHT	TO PARKING	YES	0.17	0.00	0.17	3	

NPS / RIP Subcomponent Details for DENA

(Numerical By Summary Route and Subcomponent #)



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DENA Denali National Park & Preserve

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

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	User Access	Area (SQ FT)
						From	To			
0900ZZ	39788	6	1		BUS DEPOT PARKING AREAS	FROM END OF ROUTE 0201 (WILDERNESS ACCESS CENTER (BUS DEPOT) ACCESS ROAD)	TO PARKING	YES	PUBLIC	187,665
0905ZZ	39800	6	1		HEADQUARTERS PARKING AREAS	FROM ROUTE 0203 (HEADQUARTERS ACCESS ROAD) ON LEFT AND RIGHT	TO PARKING	YES	PUBLIC	18,531
0975ZZ	109232	6	1		TALKEETNA VISITOR CENTER PARKING AREAS	ADJACENT TO SOUTH B STREET		NO	PUBLIC	7,689
0979ZZ	88640	6	1		RILEY CREEK CAMPGROUND CARIBOU LOOP RESTROOM PARKING LOTS	ADJACENT TO ROUTE 0200ZZ (RILEY CREEK CAMPGROUND LOOPS) ON RIGHT		YES	PUBLIC	2,664
0985ZZ	226521	6	1		C CAMP RESIDENTIAL PAVED PARKING AREAS	FROM ROUTE 0405 (C CAMP RESIDENCE AND MAINTENANCE ROAD)	TO PARKING	YES	PUBLIC	21,921

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DENA Denali National Park & Preserve

DENA-0010EZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
						From	To						
0010EOZ	20052	6	1		DENALI PARK ROAD - EAST ROUNDABOUT	FROM ROUTE 0010EZ (DENALI PARK ROAD - EAST) AT MP 1.42 ON LEFT	TO ROUTE 0010EZ (DENALI PARK ROAD - EAST) AT MP 1.40 ON LEFT	YES	0.07	0.00	0.07	1	
0010EZ	20052	6	1		DENALI PARK ROAD - EAST	FROM ROUTE 5000 (GEORGE PARKS HIGHWAY)	TO BEGINNING OF ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 14.971	YES	14.97	0.00	14.97	1	

DENA-0200ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
						From	To						
0200AZ	100035	6	1	■	RILEY CREEK CAMPGROUND CARIBOU LOOP (SITES 93-151)	FROM ROUTE 0100 (RILEY CREEK CAMPGROUND ACCESS ROAD) AT MP 0.21 ON RIGHT	TO END OF LOOP	YES	0.55	0.00	0.55	3	
0200BZ	100035	6	1	■	RILEY CREEK CAMPGROUND WOLF LOOP (SITES 42-92)	FROM ROUTE 0100 (RILEY CREEK CAMPGROUND ACCESS ROAD) AT MP 0.15 ON RIGHT	TO END OF LOOP	YES	0.52	0.00	0.52	3	
0200CZ	100035	6	1	■	RILEY CREEK CAMPGROUND BEAR LOOP (SITES 2-41)	FROM ROUTE 0100 (RILEY CREEK CAMPGROUND ACCESS ROAD) AT MP 0.09 ON RIGHT	TO END OF LOOP	YES	0.46	0.00	0.46	3	

NPS / RIP Subcomponent Details for DENA

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DENA Denali National Park & Preserve

DENA-0204ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
						From	To						
0204AZ	39577	6	1	■	SAVAGE RIVER CAMPGROUND LOOP A	FROM ROUTE 0204Z (SAVAGE RIVER CAMPGROUND ACCESS ROAD) AT 2.97 MP ON RIGHT	TO ROUTE 0204Z (SAVAGE RIVER CAMPGROUND ACCESS ROAD) AT MP 0.14 ON RIGHT	NO	0.00	0.25	0.25	3	
0204BZ	39577	6	1	■	SAVAGE RIVER CAMPGROUND RV LOOP	FROM ROUTE 0204Z (SAVAGE RIVER CAMPGROUND ACCESS ROAD) AT MP 0.12 ON LEFT	TO ROUTE 0204Z (SAVAGE RIVER CAMPGROUND ACCESS ROAD) AT MP 0.26 ON LEFT	NO	0.00	0.27	0.27	3	
0204CZ	39577	6	1	■	SAVAGE RIVER CAMPGROUND A	FROM ROUTE 0204Z (SAVAGE RIVER CAMPGROUND ACCESS ROAD) AT MP 0.29 ON RIGHT	TO ROUTE 0204AZ (SAVAGE RIVER CAMPGROUND LOOP A) AT MP 0.25 ON RIGHT	NO	0.00	0.25	0.25	3	
0204Z	39577	6	1	■	SAVAGE RIVER CAMPGROUND ACCESS ROAD	FROM ROUTE 0010EZ (DENALI PARK ROAD - EAST) AT MP 12.81 ON LEFT	TO END	NO	0.00	0.30	0.30	3	

DENA-0208ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
						From	To						
0208AZ	39582	6	1	■	WONDER LAKE CAMPGROUND LOOP A	FROM END OF ROUTE 01 03 (WONDER LAKE CAMPGROUND ACCESS ROAD) AND ROUTE 0300 (WONDER LAKE SHUTTLE SERVICE ROAD)	TO ROUTE 0300 (WONDER LAKE SHUTTLE SERVICE ROAD)	NO	0.00	0.29	0.29	3	
0208BZ	39582	6	1	■	WONDER LAKE CAMPGROUND LOOP B	FROM ROUTE 0208AZ (WONDER LAKE CAMPGROUND LOOP A) AT MP 0.23 ON LEFT	TO END OF THE LOOP	NO	0.00	0.10	0.10	3	

NPS / RIP Subcomponent Details for DENA

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DENA Denali National Park & Preserve

DENA-0210ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
						From	To						
0210AZ	39584	6	1	■	TEKLANIKA CAMPGROUND LOOP A	FROM END OF ROUTE 0206 (TEKLANIKA CAMPGROUND ACCESS ROAD)	TO END OF LOOP	NO	0.00	0.22	0.22	3	
0210BZ	39584	6	1	■	TEKLANIKA CAMPGROUND LOOP B	FROM ROUTE 0206 (TEKLANIKA CAMPGROUND ACCESS ROAD) AT MP 0.09 ON LEFT	TO END OF LOOP	NO	0.00	0.24	0.24	3	

DENA-0223ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
						From	To						
0223AZ	99222	6	1		TRAIN DEPOT ACCESS ROAD	FROM ROUTE 0010EOZ (DENALI PARK ROAD - EAST ROUNDABOUT)	TO END OF LOOP	YES	0.42	0.00	0.42	3	
0223BZ	99222	6	1		TRAIN DEPOT BUS DROP OFF ROAD	FROM ROUTE 0223AZ (TRAIN DEPOT ACCESS ROAD) AT MP 0.09 ON RIGJHT	TO ROUTE 0223AZ (TRAIN DEPOT ACCESS ROADS) AT MP 0.16 ON RIGHT	YES	0.09	0.00	0.09	3	
0223CZ	99222	6	1		TRAIN DEPOT BACK ACCESS ROAD	FROM ROUTE 0223AZ (TRAIN DEPOT ACCESS ROAD) AT MP 0.33 ON RIGHT	TO END	NO	0.00	0.06	0.06	3	

NPS / RIP Subcomponent Details for DENA

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DENA Denali National Park & Preserve

DENA-0404ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
						From	To						
0404AZ	39595	6	1		FRONT COUNTRY WATER SUPPLY ROAD (PAVED)	FROM ROUTE 0010EZ (DENALI PARK ROAD - EAST) AT MP 1.54 ON RIGHT	TO BEGINNING OF ROUTE 0404BZ (FRONT COUNTRY WATER SUPPLY ROAD (UNPAVED))	YES	0.14	0.00	0.14	5	
0404BZ	39595	6	1		FRONT COUNTRY WATER SUPPLY ROAD (UNPAVED)	FROM ROUTE 0404AZ (FRONT COUNTRY WATER SUPPLY ROAD (PAVED))	TO ROUTE 0958 (FRONT COUNTRY PUMP HOUSE PARKING)	NO	0.00	0.35	0.35	5	

DENA-0407ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
						From	To						
0407AZ	39760	6	1		HEADQUARTERS HOUSING AREA ROAD A	FROM ROUTE 0407Z (HEADQUARTERS HOUSING AREA ROAD) AT MP 0.136 ON LEFT	TO ROUTE 0407Z (HEADQUARTERS HOUSING AREA ROAD) AT MP 0.03 ON RIGHT	YES	0.22	0.00	0.22	5	
0407BZ	39760	6	1		HEADQUARTERS HOUSING AREA ROAD B	FROM ROUTE 0407AZ (HEADQUARTERS HOUSING AREA ROAD A) AT MP 0.06 ON RIGHT	TO END OF PAVEMENT	YES	0.06	0.00	0.06	5	
0407CZ	39760	6	1		HEADQUARTERS HOUSING AREA ROAD C	FROM ROUTE 0407AZ (HEADQUARTERS HOUSING AREA ROAD A) AT MP 0.18 ON LEFT	TO ROUTE 0203 (HEADQUARTERS ACCESS ROAD)	NO	0.00	0.07	0.07	5	
0407Z	39760	6	1		HEADQUARTERS HOUSING AREA ROAD	FROM ROUTE 0010EZ (DENALI PARK ROAD - EAST) AT MP 3.31 ON LEFT	TO ROUTE 0203 (HEADQUARTERS ACCESS ROAD) AT MP 0.11 ON LEFT	YES	0.21	0.00	0.21	5	

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DENA Denali National Park & Preserve

DENA-0409ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
						From	To						
0409AZ	39769	6	1		DOG KENNELS ACCESS ROAD	FROM END OF ROUTE 0203 (HEADQUARTERS ACCESS ROAD)	TO KENNEL	NO	0.00	0.07	0.07	5	
0409BZ	39769	6	1		DOG POOP COMPOST AREA ROAD	FROM ROUTE 0409AZ (DOG KENNELS ACCESS ROAD) AT MP 0.02 ON LEFT	TO END	NO	0.00	0.05	0.05	5	

DENA-0410ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
						From	To						
0410AZ	39770	6	1		ROCK CREEK RESERVOIR ROAD (PAVED)	FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 3.43 ON RIGHT	TO BEGINNING OF ROUTE 0410BZ (ROCK CREEK RESERVOIR ROAD (UNPAVED))	NO	0.03	0.00	0.03	6	
0410BZ	39770	6	1		ROCK CREEK RESERVOIR ROAD (UNPAVED)	FROM END OF ROUTE 0410AZ (ROCK CREEK RESERVOIR ROAD (PAVED))	TO ROUTE 0970 (ROCK CREEK RESERVOIR / AIR QUALITY PARKING)	NO	0.00	0.11	0.11	6	

DENA-0417ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
						From	To						
0417AZ	39778	6	1		WONDER LAKE WATER TANK ROAD	FROM ROUTE 0208AZ (WONDER LAKE CAMPGROUND LOOP A) AT 0.15 ON LEFT	TO END OF LOOP	NO	0.00	0.72	0.72	6	
0417BZ	39778	6	1		WONDER LAKE WATER TANK SPUR ROAD	FROM ROUTE 0417AZ (WONDER LAKE WATER TANK ROAD)	TO END	NO	0.00	0.07	0.07	6	

NPS / RIP Subcomponent Details for DENA

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DENA Denali National Park & Preserve

DENA-0418ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
						From	To						
0418AZ	39779	6	1		C CAMP RESIDENCE ROAD A	FROM ROUTE 0985AZ (C CAMP RESIDENTIAL PAVED PARKING A)	TO END	NO	0.00	0.14	0.14	6	
0418BZ	39779	6	1		C CAMP RESIDENCE ROAD B	FROM ROUTE 0418AZ (C CAMP RESIDENCE ROAD A) AT MP 0.01 ON RIGHT	TO ROUTE 0418AZ (C CAMP RESIDENCE ROAD A) AT 0.06 ON RIGHT	NO	0.00	0.05	0.05	6	
0418CZ	39779	6	1		C CAMP RESIDENCE ROAD C	FROM ROUTE 0418AZ (C CAMP RESIDENCE ROAD A) AT 0.05 ON LEFT	TO END	NO	0.00	0.06	0.06	6	
0418DZ	39779	6	1		C CAMP RESIDENCE ROAD D	FROM ROUTE 0418AZ (C CAMP RESIDENCE ROAD A) AT MP 0.5 ON LEFT	TO END	NO	0.00	0.05	0.05	6	
0418EZ	39779	6	1		C CAMP RESIDENCE ROAD E	FROM ROUTE 0985AZ (C CAMP RESIDENTIAL PAVED PARKING A)	TO END	NO	0.00	0.05	0.05	6	

DENA-0419ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
						From	To						
0419AZ	39780	6	1		TOKLAT CAMP RESIDENCE ROAD A	FROM ROUTE 0416 (TOKLAT MAINTENANCE CAMP ROAD) AT MP 0.23 ON LEFT	TO ROUTE 0938 (TOKLAT MAINTENANCE CAMP PARKING)	NO	0.00	0.19	0.19	6	
0419BZ	39780	6	1		TOKLAT CAMP RESIDENCE ROAD B	FROM ROUTE 0419AZ (TOKLAT CAMP RESIDENCE ROAD A) AT 0.06 ON LEFT	TO ROUTE 0419AZ (TOKLAT CAMP RESIDENCE ROAD A) AT MP 0.10 ON LEFT	NO	0.00	0.06	0.06	6	
0419CZ	39780	6	1		TOKLAT CAMP RESIDENCE ROAD C	FROM ROUTE 0419BZ (TOKLAT CAMP RESIDENCE ROAD B) AT MP 0.02 ON LEFT	TO END	NO	0.00	0.03	0.03	6	
0419DZ	39780	6	1		TOKLAT CAMP RESIDENCE ROAD D	FROM ROUTE 0419AZ (TOKLAT CAMP RESIDENCE ROAD A) AT MO 0.16 ON LEFT	TO END	NO	0.00	0.13	0.13	6	

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DENA Denali National Park and Preserve

DENA-0429ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
						From	To						
0429AZ	100043	6	1		BUS DEPOT DROP OFF LOOP	FROM ROUTE 0201 (WILDERNESS ACCESS CENTER (BUS DEPOT) ACCESS ROAD) AT MP 0.05 ON RIGHT	TO PARKING	NO	0.13	0.00	0.13	3	
0429BZ	100043	6	1		BUS DEPOT TURN AROUND	FROM ROUTE 0201 (WILDERNESS ACCESS CENTER (BUS DEPOT) ACCESS ROAD) AT MP 0.10 ON RIGHT	TO ROUTE 0201 (WILDERNESS ACCESS CENTER (BUS DEPOT) ACCESS ROAD) AT MP 0.13 ON RIGHT	NO	0.05	0.00	0.05	3	

DENA-0900ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	User Access	Area (SQ FT)
						From	To			
0900AZ	39788	6	1		BUS DEPOT LOWER PARKING	FROM ROUTE 0201 (WILDERNESS ACCESS CENTER (BUS DEPOT) ACCESS ROAD) AT MP 0.24 ON RIGHT	TO PARKING	YES	PUBLIC	62,020
0900BZ	39788	6	1		BUS DEPOT UPPER PARKING	FROM END OF ROUTE 0201 (WILDERNESS ACCESS CENTER (BUS DEPOT) ACCESS ROAD)	TO PARKING	YES	PUBLIC	125,645

DENA-0905ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	User Access	Area (SQ FT)
						From	To			
0905BZ	39800	6	1		HEADQUARTERS PARKING 1	FROM ROUTE 0203 (HEADQUARTERS ACCESS ROAD) AT MP 0.08 ON RIGHT	TO PARKING	YES	PUBLIC	13,223
0905CZ	39800	6	1		HEADQUARTERS PARKING 2	ADJACENT TO ROUTE 0203 (HEADQUARTERS ACCESS ROAD) AT MP 0.08 ON LEFT		YES	PUBLIC	5,308

NPS / RIP Subcomponent Details for DENA

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DENA Denali National Park and Preserve

DENA-0975ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	User Access	Area (SQ FT)
						From	To			
0975AZ	109232	6	1		TALKEETNA VISITOR CENTER PARKING A	ADJACENT TO SOUTH B STREET ACROSSS ROUTE 0975BZ (TALKEETNA VISITOR CENTER PARKING B)		NO	PUBLIC	3,664
0975BZ	109232	6	1		TALKEETNA VISITOR CENTER PARKING B	FROM ACROSSS OF ROUTE 0975AZ (TALKEETNA VISITOR CENTER PARKING A) AND UNKNOW STREET	TO PARKING	NO	PUBLIC	1,981
0975CZ	109232	6	1		TALKEETNA VISITOR CENTER PARKING C	ADJACENT TO SOUTH B STREET		NO	PUBLIC	2,044

DENA-0979ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	User Access	Area (SQ FT)
						From	To			
0979AZ	88640	6	1		RILEY CREEK CAMPGROUND CARIBOU LOOP RESTROOM PARKING A	ADJACENT TO ROUTE 0200ZZ (RILEY CREEK CAMPGROUND LOOPS) AT MP 0.39 ON RIGHT		YES	PUBLIC	1,418
0979BZ	88640	6	1		RILEY CREEK CAMPGROUND CARIBOU LOOP RESTROOM PARKING B	ADJACENT TO ROUTE 0200ZZ (RILEY CREEK CAMPGROUND LOOPS) AT MP 0.28 ON RIGHT		YES	PUBLIC	1,246

DENA-0985ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	User Access	Area (SQ FT)
						From	To			
0985AZ	226521	6	1		C CAMP RESIDENTIAL PAVED PARKING A	FROM ROUTE 0405 (C CAMP RESIDENCE AND MAINTENANCE ROAD) AT MP 0.02 ON LEFT	TO ROUTE 0418AZ (C CAMP RESIDENCE ROAD A) AND ROUTE 0418EZ (C CAMP RESIDENCE ROAD E)	YES	PUBLIC	14,755
0985BZ	226521	6	1		C CAMP RESIDENTIAL PAVED PARKING B	FROM ROUTE 0405 (C CAMP RESIDENCE AND MAINTENANCE ROAD)	TO ROUTE 0418EZ (C CAMP RESIDENCE ROAD E)	YES	PUBLIC	7,166

Route Identification Changes from Previous Cycle Denali National Park & Preserve

ROUTES REMOVED FROM PREVIOUS INVENTORY:

Route No.	Route Name	Type of Change	Comments
0211	SANCTUARY CAMPGROUND SPUR	OTHER	ROUTE 0211 WAS COMBINED INTO ROUTE 0205.
0401	FRONTCOUNTRY SEWAGE LAGOON ROAD	OTHER	CYCLE 5 ROUTE 0401 WAS COMBINED INTO PARKING 0925 IN CYCLE 6.
0408	HEADQUARTERS ADMINISTRATION ACCESS ROAD	OTHER	ROUTE REMOVED IN CYCLE 6. NO LONGER INVENTORIED AS A ROAD.
0910	HEADQUARTERS FLAGPOLE SHUTTLE STOP PARKING	OTHER	PAVED PORTION OF PARKING AREA WAS EXPANDED AND IT WAS ABSORBED INTO PARKING AREA 0983A IN CYCLE 6. UPDATED GPS AND SQUARE FOOTAGE COLLECTED IN CYCLE 6.
0919	BUS MAINTENANCE EAST PARKING	OTHER	PARKING AREA REMOVED FROM INVENTORY IN CYCLE 6.
0940	SEVEN MILE PIT STORAGE AREA	OTHER	PARKING AREA REMOVED FROM INVENTORY IN CYCLE 6 (INACTIVE IN FMSS).

ROUTES ADDED FROM PREVIOUS INVENTORY:

Route No.	Route Name	Type of Change	Comments
0428	ARRC ACCESS ROAD	OTHER	UNPAVED ROAD ADDED AND COLLECTED IN CYCLE 6.
0984	MAINTENANCE UPPER GRAVEL PARKING	OTHER	UNPAVED PARKING AREA ADDED IN CYCLE 6.
0985ZZ	C CAMP RESIDENTIAL PAVED PARKING AREAS	OTHER	PAVED PARKING AREA ADDED IN CYCLE 6.
0986	SHAFFER BUILDING LOWER EMPLOYEE PARKING	OTHER	PAVED PARKING AREA ADDED IN CYCLE 6.
0987	SHAFFER BUILDING UPPER PARKING	OTHER	PAVED PARKING AREA ADDED IN CYCLE 6.
0988	KANTISHNA AIRSTRIP PARKING	OTHER	UNPAVED PARKING AREA ADDED IN CYCLE 6.
0990	CONCESSIONS MAINTENANCE BUILDING PARKING	OTHER	UNPAVED PARKING AREA ADDED IN CYCLE 6.

Route Identification Changes from Previous Cycle Denali National Park & Preserve

ROUTES MODIFIED FROM PREVIOUS INVENTORY:			
Route No.	Route Name	Type of Change	Comments
0010EZZ	DENALI PARK ROAD - EAST	LENGTH CHANGE	IN CYCLE 5, ROUTE 0010E INCLUDED A SEGMENT OF THE UNPAVED PARK ROAD UP TO TOKLAT. IN CYCLE 6, THE UNPAVED PORTION OF 0010E WAS TRANSFERRED TO 0010W. THE ENTIRE UNPAVED DENALI PARK ROAD IS NOW ROUTE 0010W.
0010W	DENALI PARK ROAD - WEST	LENGTH CHANGE	UNPAVED SECTION OF CYCLE 5 ROUTE 0010E WAS TRANSFERRED TO THE ROUTE 0010W MILEAGE.
0103	WONDER LAKE CAMPGROUND ACCESS ROAD	FUNCTIONAL CLASS CHANGE	FUNCTIONAL CLASS CHANGED FROM 3 TO 2 IN CYCLE 6.
0200ZZ	RILEY CREEK CAMPGROUND LOOPS	ROUTES COMBINED	CYCLE 5 ROUTES 0200A, 0200B, AND 0200C WERE COMBINED IN CYCLE 6. LOOP 0200C (BEAR LOOP) CHANGED FROM GRAVEL TO ASPHALT.
0201	WILDERNESS ACCESS CENTER (BUS DEPOT) ACCESS ROAD	ROUTE NAME	ROUTE NAME CHANGED FROM "WILDERNESS ACCESS CENTER ROAD" TO ALIGN WITH FMSS.
0203	HEADQUARTERS ACCESS ROAD	LENGTH CHANGE	UNPAVED PORTION OF ROAD TRANSFERRED TO ROUTE 0409ZZ.
0204ZZ	SAVAGE RIVER CAMPGROUND ROADS	ROUTES COMBINED	CYCLE 5 ROUTES 0204, 0209A, AND 0209B WERE COMBINED IN CYCLE 6.
0205	SANCTUARY CAMPGROUND ROAD	ROUTES COMBINED	CYCLE 5 ROUTES 0205 AND 0211 WERE COMBINED IN CYCLE 6.
0210ZZ	TEKLANIKA CAMPGROUND LOOPS	LENGTH CHANGE	ADDITIONAL CAMPGROUND LOOP ADDED IN CYCLE 6. LENGTH CHANGED FROM 0.21 MILES TO 0.46 MILES.
0222	MERCANTILE ACCESS ROAD	LENGTH CHANGE	ROUTE LENGTH CHANGED FROM 0.41 MILES TO 0.33 MILES.
0223ZZ	TRAIN DEPOT ACCESS ROADS	OTHER	ROUTE NAME CHANGED FROM "DEPOT ACCESS ROADS". UNPAVED SUBCOMPONENT ADDED IN CYCLE 6.
0400	MILE 234 PIT ROAD	ROUTE NAME	ROUTE NAME CHANGED FROM "DUMP PIT ROAD".
0405	C CAMP RESIDENCE AND MAINTENANCE ROAD	LENGTH CHANGE	ROUTE REALIGNED AND LENGTH CHANGED IN CYCLE 6.
0407ZZ	HEADQUARTERS HOUSING AREA ROADS	FUNCTIONAL CLASS CHANGE	FUNCTIONAL CLASS CHANGED FROM 3 TO 5 IN CYCLE 6. UNPAVED SECTION (ROUTE 0407CZ) ADDED.

Route Identification Changes from Previous Cycle Denali National Park & Preserve

ROUTES MODIFIED FROM PREVIOUS INVENTORY:			
Route No.	Route Name	Type of Change	Comments
0413	TEKLANIKA CAMPGROUND SERVICE ROAD	ROUTE NAME	ROUTE NAME CHANGED FROM "TEKLANIKA PIT SERVICE ROAD".
0416	TOKLAT MAINTENANCE CAMP ROAD	LENGTH CHANGE	ROUTE SHORTENED. THE PUBLIC BUS ROUTE PORTION LEADING INTO THE TOKLAT REST STOP WAS TRANSFERRED TO PARKING 0912.
0419ZZ	TOKLAT CAMP RESIDENCE ROADS	FUNCTIONAL CLASS CHANGE	FUNCTIONAL CLASS CHANGED FROM 5 TO 6 (NON-PUBLIC).
0423	MERCANTILE SERVICE ROAD	LENGTH CHANGE	ROUTE GEOMETRY ADJUSTED IN CYCLE 6 (0.14 MILES TO 0.11 MILES).
0425	KANTISHNA SKYLINE DRIVE	LENGTH CHANGE	LENGTH MEASURE ADDED IN CYCLE (CHANGED FROM 0 MILES TO 10.46 MILES)
0427	MORINO GRILL ACCESS ROAD	ROUTE NAME	ROUTE NAME CHANGED FROM "DENALI VISITOR CENTER CONCESSIONS GROUNDS ACCESS ROAD".
0429ZZ	BUS DEPOT DROP OFF LOOPS	ROUTE NUMBER	CHANGED FACILITY TYPE FROM PARKING AREAS (0901ZZ) TO ROADS (0429ZZ). FUNCTIONAL CLASS 3 AND CONCESSIONS.
0900ZZ	BUS DEPOT PARKING AREAS	OTHER	ROUTE NAME CHANGED FROM "WILDERNESS ACCESS CENTER PARKING AREAS".
0903	ENTRANCE SIGN PARKING	ROUTE NAME	ROUTE NAME CHANGED FROM "ENTRANCE AREA PARKING".
0905ZZ	HEADQUARTERS PARKING AREAS	OTHER	CYCLE 5 SUBCOMPONENT 0905AZ WAS DEMOLISHED AND REMOVED FROM THE INVENTORY.
0908A	EAST PRIMROSE PARKING	ROUTE NAME	ROUTE NAME CHANGED FROM "OLD PRIMROSE PARKING A".
0908B	WEST PRIMROSE PARKING	ROUTE NAME	ROUTE NAME CHANGED FROM "OLD PRIMROSE PARKING B".
0912	TOKLAT PARKING	SQ FEET CHANGE	ROUTE 0416 WAS SPLIT AND THE PUBLIC PORTION OF THE ROAD WAS COMBINED INTO PARKING 0912.
0913	STONY HILL OVERLOOK PARKING	ROUTE NAME	ROUTE NAME CHANGED FROM "STONEY OVERLOOK VISTA PARKING".
0925	FRONT COUNTRY SEWAGE LAGOON PARKING	ROUTES COMBINED	CYCLE 5 ROUTE 0401 WAS COMBINED INTO PARKING 0925 IN CYCLE 6.
0926A	RILEY CREEK CAMPGROUND BEAR LOOP RESTROOM PARKING A	ROUTE NAME	ROUTE NAME CHANGE FROM "RILEY CREEK CAMPGROUND RESTROOM PARKING A".

Route Identification Changes from Previous Cycle Denali National Park & Preserve

ROUTES MODIFIED FROM PREVIOUS INVENTORY:			
Route No.	Route Name	Type of Change	Comments
0926B	RILEY CREEK CAMPGROUND BEAR LOOP RESTROOM PARKING B	ROUTE NAME	ROUTE NAME CHANGED FROM "RILEY CREEK CAMPGROUND RESTROOM PARKING B".
0927	RILEY CREEK CAMPGROUND MERCANTILE SHUTTLE STOP	SQ FEET CHANGE	ROUTE NAME CHANGED FROM "RILEY CREEK CAMPGROUND ACCESS PARKING".
0928	RILEY CREEK POST OFFICE PARKING	SQ FEET CHANGE	IMPROVED GPS AND SQUARE FOOTAGE COLLECTED IN CYCLE 6.
0936	B AND U PAD PARKING	SURFACE TYPE CHANGE	SURFACE TYPE CHANGED FROM GRAVEL TO ASPHALT. IMPROVED GPS AND SQUARE FOOTAGE COLLECTED IN CYCLE 6.
0942	MILE 25.85 PARKING	ROUTE NAME	ROUTE NAME CHANGED FROM "OUTER RANGE PARKING".
0945	TOKLAT BRIDGE LOOP PARKING	ROUTE NAME	ROUTE NAME CHANGED FROM "SOAPBERRY PATCH LOOP PARKING".
0971	MERCANTILE DUMP STATION	SQ FEET CHANGE	FORMER SUBCOMPONENT PARKING LOTS (ROUTES 0971AZ AND 0971BZ) WERE COMBINED INTO ONE SHAPE.
0979ZZ	RILEY CREEK CAMPGROUND CARIBOU LOOP RESTROOM PARKING LOTS	SURFACE TYPE CHANGE	SURFACE TYPE CHANGED FROM GRAVEL TO ASPHALT. NEW SUBCOMPONENT ADDED TO CAPTURE BOTH RESTROOM PARKING AREAS.
0981	HR STAFF PARKING	ROUTE NAME	ROUTE NAME CHANGED FROM "RANGER CACHE PARKING".
0983A	HQ AND KENNELS LOOP ROAD & PARKING (PAVED)	ROUTES COMBINED	0983A CAPTURES THE PAVED SQUARE FOOTAGE AND 0983B CAPTURES THE UNPAVED SECTION. CYCLE 5 PARKING 0910 WAS COMBINED INTO 0983A.
0983B	HQ AND KENNELS LOOP ROAD & PARKING (UNPAVED)	ROUTES COMBINED	0983A CAPTURES THE PAVED SQUARE FOOTAGE AND 0983B CAPTURES THE UNPAVED SECTION.

Section 3 Park Summary Information



Denali National Park & Preserve



Federal Lands Highway
Road Inventory Program

Parkwide Paved Route Condition Summary

Denali National Park and Preserve

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	1.51	1.54	0.55	11.01	14.61
2	0.14	0.06	0.02		0.22
3	0.53	1.22	0.74	0.27	2.75
4					
5	0.05	0.12	0.40	0.49	1.06
6			0.15		0.15
7					
8					
Total Mileage by PCR	2.23	2.94	1.85	11.76	18.78
PAVED PARKING					
Access Level	Area (sq. ft.)	Area (sq. ft.)	Area (sq. ft.)	Area (sq. ft.)	Total Area
PUBLIC	182,462	227,718	203,000		613,180
NONPUBLIC	61,722	54,751	68,603		185,076
Total Area by PCR	244,184	282,469	271,603	0	798,256

NOTES:

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

Parkwide Condition Percentages

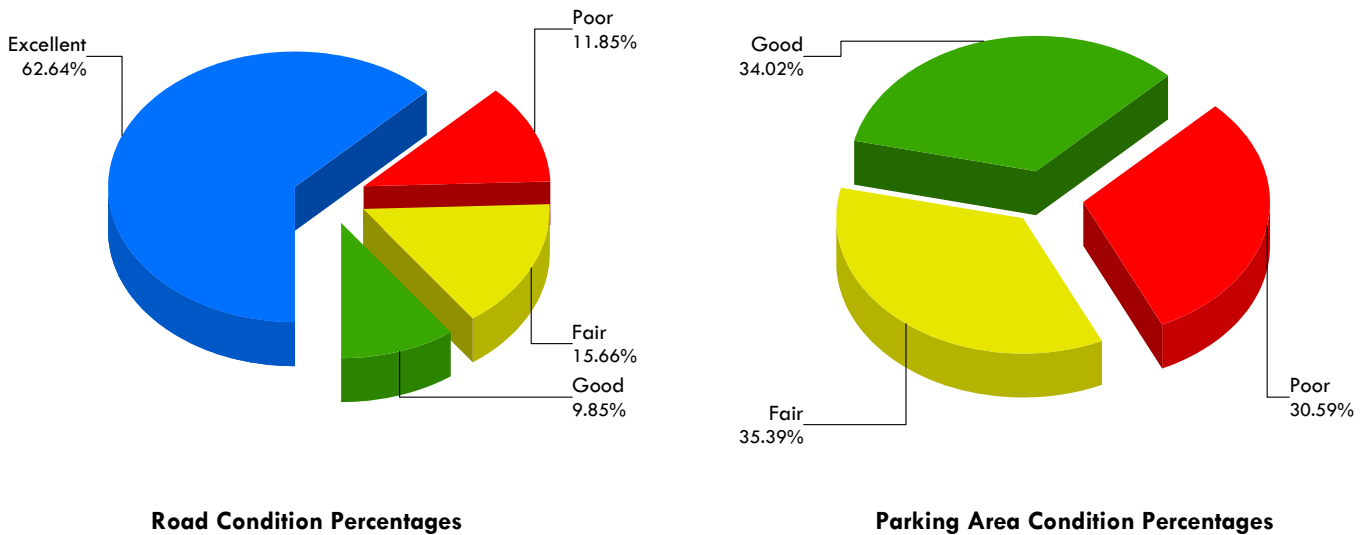
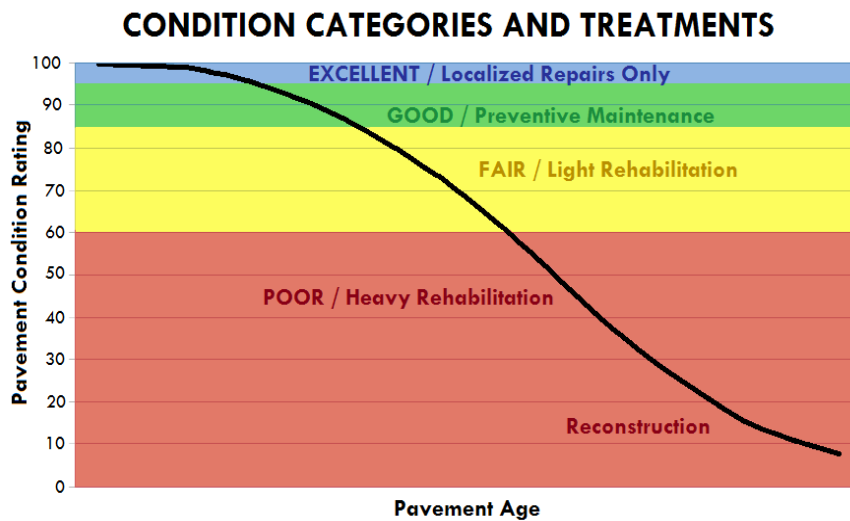


Figure 1: Pavement Condition Rating Breakdown for Paved Roads and Parking Areas

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

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

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



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



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

Condition (Rating / Index) Legend

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

Denali National Park and Preserve

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
DENA-0010EOZ	20052	DENALI PARK ROAD - EAST ROUNDABOUT	1	AS	0.07	82	NR	82	91	100	91	82	100	95
DENA-0010EZ	20052	DENALI PARK ROAD - EAST	1	AS	14.97	94	100	90	93	100	93	90	99	99
DENA-0100	22435	RILEY CREEK CAMPGROUND ACCESS ROAD	2	AS	0.22	43	NR	43	43	100	43	66	100	92
DENA-0200AZ	100035	RILEY CREEK CAMPGROUND CARIBOU LOOP (SITES 93-151)	3	AS	0.55	71	NR	71	86	100	86	71	99	85
DENA-0200BZ	100035	RILEY CREEK CAMPGROUND WOLF LOOP (SITES 42-92)	3	AS	0.52	84	NR	84	91	100	91	84	99	84
DENA-0200CZ	100035	RILEY CREEK CAMPGROUND BEAR LOOP (SITES 2-41)	3	AS	0.46	89	NR	89	92	100	92	89	100	96
DENA-0201	39573	WILDERNESS ACCESS CENTER (BUS DEPOT) ACCESS ROAD	1	AS	0.29	37	NR	37	94	100	94	37	99	96
DENA-0203	39575	HEADQUARTERS ACCESS ROAD	5	AS	0.12	96	NR	96	99	100	99	96	97	97
DENA-0222	99195	MERCANTILE ACCESS ROAD	3	AS	0.33	92	NR	92	93	100	93	92	100	93
DENA-0223AZ	99222	TRAIN DEPOT ACCESS ROAD	3	AS	0.42	54	NR	54	85	100	85	54	99	93
DENA-0223BZ	99222	TRAIN DEPOT BUS DROP OFF ROAD	3	AS	0.09	85	NR	85	89	100	89	85	99	94
DENA-0224	113052	MOUNTAIN VISTA LOOP ROAD	3	AS	0.28	97	NR	97	99	100	99	98	100	97
DENA-0404AZ	39595	FRONT COUNTRY WATER SUPPLY ROAD (PAVED)	5	AS	0.14	69	NR	69	69	99	70	86	98	97
DENA-0405	39603	C CAMP RESIDENCE AND MAINTENANCE ROAD	5	AS	0.20	94	NR	94	98	100	98	94	99	96
DENA-0407AZ	39760	HEADQUARTERS HOUSING AREA ROAD A	5	AS	0.22	97	NR	97	100	100	100	97	100	98
DENA-0407BZ	39760	HEADQUARTERS HOUSING AREA ROAD B	5	AS	0.06	96	NR	96	100	100	100	96	100	100
DENA-0407Z	39760	HEADQUARTERS HOUSING AREA ROAD	5	AS	0.21	94	NR	94	100	100	100	94	100	96
DENA-0423	99223	MERCANTILE SERVICE ROAD	5	AS	0.11	90	NR	90	95	100	95	91	100	90
DENA-0429AZ	100043	BUS DEPOT DROP OFF LOOP	3	AS	0.13	41	NR	41	79	100	79	41	97	91
DENA-0429BZ	100043	BUS DEPOT TURN AROUND	3	AS	0.05	84	NR	84	97	100	97	84	100	98



Federal Lands Highway
Road Inventory Program

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

Denali National Park and Preserve

Condition (Rating / Index) Legend

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

Notes:

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

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

Route No.	FMSS No.	Route Name	Functional Class	Surf. Type	Paved Length (Miles)	Pavement Condition Rating (PCR)	Roughness Condition Index (RCI)	Surface Condition Rating (SCR)	Structural Crack Index	Alligator Crack Index	Longitudinal Cracking Index	Transverse Cracking Index	Patch / Pothole Index	Rutting Index
DENA-0410AZ	39770	ROCK CREEK RESERVOIR ROAD (PAVED)	6	AS	0.03	90	NR	90	NR	97	97	90	97	97
DENA-0426	98449	CONCESSIONS SUGARLOAF HALL ACCESS ROAD	6	AS	0.07	90	NR	90	NR	90	90	90	97	90
DENA-0427	98414	MORINO GRILL ACCESS ROAD	6	AS	0.05	90	NR	90	NR	90	97	90	97	97



Federal Lands Highway
Road Inventory Program

Cycle 6 - Road Inventory Program

Paved Parking Area Condition Summary Report

Denali National Park and Preserve

Condition (Rating / Index) Legend

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

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

Condition Rating Details for Paved Parking Areas

Route No.	FMSS No.	Route Name	User Access	Surf. Type	Area (Sq. Ft.)	Pavement Condition Rating (PCR)	Asphalt Surface Distresses					Concrete Surface Distresses							
							Alligator Cracking	Longitudinal / Transverse Cracking	Rutting / Distortions	Potholes / Patching	HMA Patching	Surface Raveling / Bleeding	Joint Faulting	Slab Cracking	Joint Distresses	Delamination / Pop-Outs	Potholes / Patching		
DENA-0900AZ	39788	BUS DEPOT LOWER PARKING	PUBLIC	AS	62,020	90	97	90	90	97	97	90							
DENA-0900BZ	39788	BUS DEPOT UPPER PARKING	PUBLIC	AS	125,645	53	90	53	90	97	97	90							
DENA-0903	39797	ENTRANCE SIGN PARKING	PUBLIC	AS	12,212	53	97	53	90	97	90	73							
DENA-0905BZ	39800	HEADQUARTERS PARKING 1	PUBLIC	AS	13,223	90	90	90	90	97	97	90							
DENA-0905CZ	39800	HEADQUARTERS PARKING 2	PUBLIC	AS	5,308	90	97	97	90	97	97	90							
DENA-0906	39801	SAVAGE RIVER EAST PARKING	PUBLIC	AS	23,832	73	90	90	73	97	97	90							
DENA-0916A	39810	RILEY CREEK OVERFLOW PARKING (PAVED)	PUBLIC	AS	5,076	53	97	53	90	97	97	90							
DENA-0920	39813	BUS MAINTENANCE WEST PARKING	NONPUBLIC	AS	54,751	73	73	90	73	90	90	90							
DENA-0926A	39819	RILEY CREEK CAMPGROUND BEAR LOOP RESTROOM PARKING A	PUBLIC	AS	1,593	90	97	90	90	97	97	90							
DENA-0926B	99229	RILEY CREEK CAMPGROUND BEAR LOOP RESTROOM PARKING B	PUBLIC	AS	1,853	53	90	90	73	53	97	73							
DENA-0927	39820	RILEY CREEK CAMPGROUND MERCANTILE SHUTTLE STOP	PUBLIC	AS	1,921	90	97	90	90	90	97	90							
DENA-0928	39816	RILEY CREEK POST OFFICE PARKING	PUBLIC	AS	30,644	53	97	53	90	53	73	73							
DENA-0929A	39822	RILEY CREEK SHUTTLE STOP	PUBLIC	AS	747	90	97	90	97	97	97	90							
DENA-0929B	100048	RILEY CREEK SHUTTLE BUS TURN AROUND	PUBLIC	AS	5,614	53	97	53	97	97	97	90							
DENA-0930	39823	SAVAGE RIVER CAMPGROUND SHUTTLE STOP	PUBLIC	AS	1,216	90	97	97	90	97	97	90							
DENA-0932	39825	SAVAGE RIVER VIEWPOINT PARKING	PUBLIC	AS	5,494	90	97	97	97	97	97	90							
DENA-0933	39826	AUTO SHOP MAINTENANCE PARKING	NONPUBLIC	AS	40,728	90	90	90	90	97	97	90							
DENA-0936	39829	B AND U PAD PARKING	NONPUBLIC	AS	61,722	53	90	53	90	97	97	90							
DENA-0957	39856	HORSESHOE LAKE TRAILHEAD PARKING	PUBLIC	AS	5,777	90	97	90	97	97	97	90							
DENA-0971	39821	MERCANTILE DUMP STATION	PUBLIC	AS	19,960	90	97	90	97	90	97	97							
DENA-0972	39827	MERCANTILE STORE PARKING	PUBLIC	AS	23,018	90	97	90	90	97	97	90							
DENA-0973	109064	MURIE SCIENCE AND LEARNING CENTER PARKING	PUBLIC	AS	10,516	90	90	90	97	97	97	90							
DENA-0974	109063	DENALI VISITOR CENTER PARKING	PUBLIC	AS	178,402	73	90	90	73	90	97	90							
DENA-0979AZ	88640	RILEY CREEK CAMPGROUND CARIBOU LOOP RESTROOM PARKING A	PUBLIC	AS	1,418	53	97	53	90	97	97	97							
DENA-0979BZ	88640	RILEY CREEK CAMPGROUND CARIBOU LOOP RESTROOM PARKING B	PUBLIC	AS	1,246	90	97	97	97	97	97	90							
DENA-0980	113056	MOUNTAIN VISTA LOOP ROAD PARKING	PUBLIC	AS	29,040	90	97	90	90	97	97	90							



Cycle 6 - Road Inventory Program Paved Parking Area Condition Summary Report

Denali National Park and Preserve

Condition (Rating / Index) Legend

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

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

Condition Rating Details for Paved Parking Areas

Route No.	FMSS No.	Route Name	User Access	Surf. Type	Area (Sq. Ft.)	Pavement Condition Rating (PCR)	<u>Asphalt Surface Distresses</u>					<u>Concrete Surface Distresses</u>						
							Alligator Cracking	Longitudinal / Transverse Cracking	Rutting / Distortions	Potholes / Patching	HMA Patching	Surface Raveling / Bleeding	Joint Faulting	Slab Cracking	Joint Distresses	Delamination / Pop-Outs	Potholes / Patching	
DENA-0981	N/A	HR STAFF PARKING	NONPUBLIC	AS	1,126	90	97	97	97	97	97	90						
DENA-0983A	111186	HQ AND KENNELS LOOP ROAD & PARKING (PAVED)	PUBLIC	AS	25,484	73	90	90	73	90	97	90						
DENA-0985AZ	226521	C CAMP RESIDENTIAL PAVED PARKING A	PUBLIC	AS	14,755	90	97	90	97	97	97	90						
DENA-0985BZ	226521	C CAMP RESIDENTIAL PAVED PARKING B	PUBLIC	AS	7,166	90	97	90	97	97	97	90						
DENA-0986	226511	SHAFFER BUILDING LOWER EMPLOYEE PARKING	NONPUBLIC	AS	9,186	90	97	90	97	97	97	90						
DENA-0987	226510	SHAFFER BUILDING UPPER PARKING	NONPUBLIC	AS	17,563	90	90	90	90	97	97	90						

Parkwide Unpaved Route Condition Summary Denali National Park and Preserve

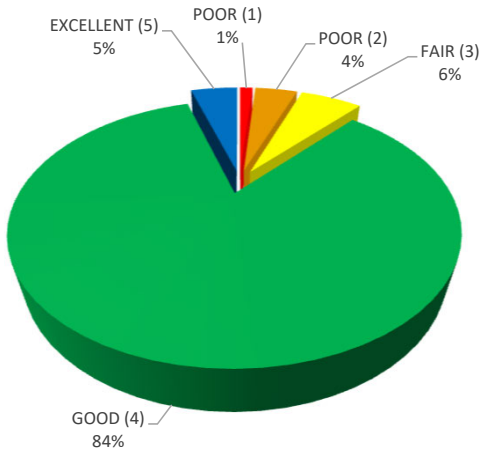
Breakdown of Unpaved Condition Rating (PASER +) Based on Access Level

	POOR (1)	POOR (2)	FAIR (3)	GOOD (4)	EXCELLENT (5)	
UNPAVED ROADS						
Functional Class	Length (miles)	Length (miles)	Length (miles)	Length (miles)	Length (miles)	Total Mileage by FC
1		1.99	3.00	68.70	3.90	77.59
2				1.58		1.58
3		0.58	1.13	1.68	0.10	3.49
4						
5		0.40	0.17	0.20		0.77
6	1.10	0.72	0.99	0.44	0.06	3.31
7						
8						
Total Mileage by PASER +	1.10	3.69	5.29	72.60	4.06	86.75
UNPAVED PARKING						
Access Level	Area (sq. ft.)	Area (sq. ft.)	Area (sq. ft.)	Area (sq. ft.)	Area (sq. ft.)	Total Area
PUBLIC		89,594	269,949	238,056		597,599
NONPUBLIC		391,768	98,939	85,511		576,218
Total Area by PASER +	0	481,362	368,888	323,567	0	1,173,817

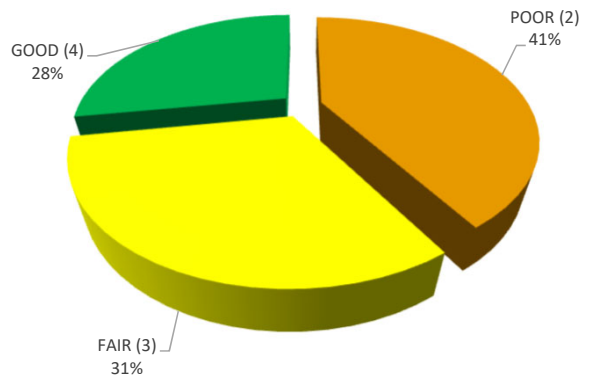
NOTES:

1. Data are reported in the table only for unpaved roads and parking lots that received a condition rating.
2. Quantities in the table above are derived from the route condition data within the UNPAVED_PMS_TENTH, UNPAVED_PMS_PARKING in the Park geodatabase.

Parkwide Condition Percentages



Road Condition Percentages



Parking Area Condition Percentages



Cycle 6 - Road Inventory Program Unpaved Roads - Condition Summary Report

Denali National Park and Preserve

Condition (Rating / Index) Legend

EXCELLENT (5)
GOOD (4)
FAIR (3)
POOR (2)
POOR (1)
NR = NOT RATED

Notes:

- Additional details on individual roads 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.

Condition Rating Details for Unpaved Roads Areas

Unpaved Surface Distresses

Route No.	FMSS No.	Route Name	Functional Class	Surf. Type	Unpaved Length (Miles)	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity	Dust
DENA-0010W	20051	DENALI PARK ROAD - WEST	1	GR	77.59	4	Low	Low	Med	Med	High
DENA-0103	39571	WONDER LAKE CAMPGROUND ACCESS ROAD	2	GR	1.58	4	Low	Low	Med	Med	High
DENA-0204AZ	39577	SAVAGE RIVER CAMPGROUND LOOP A	3	GR	0.25	4	Low	Med	Med	Med	Low
DENA-0204BZ	39577	SAVAGE RIVER CAMPGROUND RV LOOP	3	GR	0.27	4	Low	Med	Med	Med	Low
DENA-0204CZ	39577	SAVAGE RIVER CAMPGROUND A	3	GR	0.25	3	Low	Med	High	Med	Low
DENA-0204Z	39577	SAVAGE RIVER CAMPGROUND ACCESS ROAD	3	GR	0.30	2	Med	Med	Med	High	Low
DENA-0205	39578	SANCTUARY CAMPGROUND ROAD	3	GR	0.16	4	Low	Med	Low	Low	Low
DENA-0206	39579	TEKLANIKA CAMPGROUND ACCESS ROAD	3	GR	0.15	4	Low	Med	Low	Med	Low
DENA-0207	39581	IGLOO CAMPGROUND LOOP	3	GR	0.09	2	Med	Med	Low	High	Low
DENA-0208AZ	39582	WONDER LAKE CAMPGROUND LOOP A	3	GR	0.29	2	Med	Med	Med	Med	Low
DENA-0208BZ	39582	WONDER LAKE CAMPGROUND LOOP B	3	GR	0.10	3	Med	Med	Low	Med	Low
DENA-0210AZ	39584	TEKLANIKA CAMPGROUND LOOP A	3	GR	0.22	3	Med	Low	Low	High	Low
DENA-0210BZ	39584	TEKLANIKA CAMPGROUND LOOP B	3	GR	0.24	4	Med	Low	Low	Med	Low
DENA-0223CZ	99222	TRAIN DEPOT BACK ACCESS ROAD	3	GR	0.06	4	Low	Med	Low	Med	Low
DENA-0300	39588	WONDER LAKE SHUTTLE SERVICE ROAD	3	GR	0.43	4	Low	Med	Low	Med	Low
DENA-0402	39591	AIRSTRIP ACCESS ROAD	3	GR	0.43	4	Low	Med	Med	Med	Low
DENA-0404BZ	39595	FRONT COUNTRY WATER SUPPLY ROAD (UNPAVED)	5	GR	0.35	2	Med	High	Med	Med	Low
DENA-0406	39756	ROCK CREEK PUMP HOUSE ROAD	6	GR	0.23	2	Med	High	Med	Med	Low
DENA-0407CZ	39760	HEADQUARTERS HOUSING AREA ROAD C	5	GR	0.07	3	Med	Med	Low	Med	Low



Cycle 6 - Road Inventory Program Unpaved Roads - Condition Summary Report

Denali National Park and Preserve

Condition (Rating / Index) Legend

EXCELLENT (5)
GOOD (4)
FAIR (3)
POOR (2)
POOR (1)
NR = NOT RATED

Notes:

- Additional details on individual roads 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.

Condition Rating Details for Unpaved Roads Areas

Unpaved Surface Distresses

Route No.	FMSS No.	Route Name	Functional Class	Surf. Type	Unpaved Length (Miles)	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity	Dust
DENA-0409AZ	39769	DOG KENNELS ACCESS ROAD	5	GR	0.07	2	Med	Med	Med	High	Low
DENA-0409BZ	39769	DOG POOP COMPOST AREA ROAD	5	GR	0.05	2	Med	High	Med	High	Low
DENA-0410BZ	39770	ROCK CREEK RESERVOIR ROAD (UNPAVED)	6	GR	0.11	3	Med	Med	Low	Med	Low
DENA-0413	39774	TEKLANIKA CAMPGROUND SERVICE ROAD	6	GR	0.11	3	Med	Med	Low	Med	Low
DENA-0415	39775	EAST FORK CABIN ROAD	3	GR	0.26	3	Med	Med	Low	Med	Low
DENA-0416	39776	TOKLAT MAINTENANCE CAMP ROAD	5	GR	0.24	4	Med	Low	Med	Med	Low
DENA-0417AZ	39778	WONDER LAKE WATER TANK ROAD	6	GR	0.72	2	Med	Med	Med	Med	Low
DENA-0417BZ	39778	WONDER LAKE WATER TANK SPUR ROAD	6	GR	0.07	4	Low	Med	Med	Med	Low
DENA-0418AZ	39779	C CAMP RESIDENCE ROAD A	6	GR	0.14	2	Med	Med	Med	High	Low
DENA-0418BZ	39779	C CAMP RESIDENCE ROAD B	6	GR	0.05	3	Med	Med	Low	Med	Low
DENA-0418CZ	39779	C CAMP RESIDENCE ROAD C	6	GR	0.06	3	Med	Med	Low	Med	Low
DENA-0418DZ	39779	C CAMP RESIDENCE ROAD D	6	GR	0.05	3	Low	Med	Low	High	Low
DENA-0418EZ	39779	C CAMP RESIDENCE ROAD E	6	GR	0.05	4	Low	Med	Low	Low	Low
DENA-0419AZ	39780	TOKLAT CAMP RESIDENCE ROAD A	6	GR	0.19	3	Med	Med	Low	Med	Low
DENA-0419BZ	39780	TOKLAT CAMP RESIDENCE ROAD B	6	GR	0.06	5	Low	Low	Low	Med	Low
DENA-0419CZ	39780	TOKLAT CAMP RESIDENCE ROAD C	6	GR	0.03	4	Med	Low	Low	Low	Low
DENA-0419DZ	39780	TOKLAT CAMP RESIDENCE ROAD D	6	GR	0.13	4	Low	Med	Low	Med	Med
DENA-0424	109885	FRIDAY CREEK CAMP ROAD	6	GR	0.16	2	Med	Med	Med	Med	Low
DENA-0425	229106	KANTISHNA SKYLINE DRIVE	6	GR	10.46	1	High	High	High	High	Med



Cycle 6 - Road Inventory Program Unpaved Roads - Condition Summary Report

Denali National Park and Preserve

Condition (Rating / Index) Legend

EXCELLENT (5)
GOOD (4)
FAIR (3)
POOR (2)
POOR (1)
NR = NOT RATED

Notes:

- Additional details on individual roads 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.

Condition Rating Details for Unpaved Roads Areas

Unpaved Surface Distresses

Route No.	FMSS No.	Route Name	Functional Class	Surf. Type	Unpaved Length (Miles)	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity	Dust
DENA-0428	N/A	ARRC ACCESS ROAD	6	GR	0.05	4	Low	Med	Low	Med	Low



Cycle 6 - Road Inventory Program Unpaved Parking Area Condition Summary Report

Denali National Park and Preserve

Condition (Rating / Index) Legend

EXCELLENT (5)
GOOD (4)
FAIR (3)
POOR (2)
POOR (1)
NR = NOT RATED

- Notes:
- 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 Unpaved Parking Areas

Unpaved Surface Distresses

Route No.	FMSS No.	Route Name	User Access	Surf. Type	Area (Sq. Ft.)	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity	Dust
DENA-0907	39802	SAVAGE RIVER WEST PARKING	PUBLIC	GR	26,751	4	Low	Med	Med	Med	Med
DENA-0908A	99228	EAST PRIMROSE PARKING	PUBLIC	GR	25,467	3	Low	Med	Low	High	High
DENA-0908B	39803	WEST PRIMROSE PARKING	PUBLIC	GR	7,129	2	Med	Med	Med	High	High
DENA-0909	39804	MILE 20 VISTA PARKING	PUBLIC	GR	15,885	4	Low	Med	Med	Med	High
DENA-0911	39806	TEKLANIKA REST STOP PARKING	PUBLIC	GR	42,012	3	Low	Med	Med	High	High
DENA-0912	100047	TOKLAT PARKING	PUBLIC	GR	78,019	2	Med	Med	Med	High	Med
DENA-0913	38021	STONY HILL OVERLOOK PARKING	PUBLIC	GR	19,669	4	Low	Med	Low	Med	Med
DENA-0914	94869	EIELSON VISITOR CENTER PARKING	PUBLIC	GR	28,540	4	Low	Med	Med	Med	Med
DENA-0916B	39809	RILEY CREEK OVERFLOW PARKING (UNPAVED)	PUBLIC	GR	56,623	4	Low	Med	Med	Med	Low
DENA-0921	39814	CONCESSIONS EMPLOYEE PARKING	PUBLIC	GR	53,596	4	Low	Low	Med	Med	Low
DENA-0922	39815	CONCESSIONS BUS FLEET PARKING	PUBLIC	GR	114,313	3	Low	Med	Med	High	Med
DENA-0924	39817	POWER STATION PARKING	NONPUBLIC	GR	8,198	4	Low	Med	Low	Med	Low
DENA-0925	39818	FRONT COUNTRY SEWAGE LAGOON PARKING	NONPUBLIC	GR	84,475	3	Med	Med	Low	Med	Low
DENA-0931	39824	SAVAGE CABIN TRAILHEAD PARKING	PUBLIC	GR	10,416	4	Low	Med	Low	Med	Low
DENA-0935B	100049	MAINTENANCE EQUIPMENT PARKING	NONPUBLIC	GR	32,004	4	Low	Med	Low	Med	Low
DENA-0938	39831	TOKLAT MAINTENANCE CAMP PARKING	NONPUBLIC	GR	84,014	2	Med	High	Med	High	High
DENA-0939	39832	FIVE MILE PIT STORAGE AREA	NONPUBLIC	GR	232,104	2	Med	High	Med	High	Low
DENA-0941	39834	IGLOO PIT STORAGE AREA	NONPUBLIC	GR	23,509	4	Low	Med	Med	Med	Med
DENA-0942	39835	MILE 25.85 PARKING	PUBLIC	GR	17,467	3	Med	Med	Low	Med	High



Cycle 6 - Road Inventory Program Unpaved Parking Area Condition Summary Report

Denali National Park and Preserve

Condition (Rating / Index) Legend

EXCELLENT (5)
GOOD (4)
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POOR (2)
POOR (1)
NR = NOT RATED

Notes:

- 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 Unpaved Parking Areas

Unpaved Surface Distresses

Route No.	FMSS No.	Route Name	User Access	Surf. Type	Area (Sq. Ft.)	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity	Dust
DENA-0944	39837	TEKLANIKA CAMP HOST PARKING	NONPUBLIC	GR	2,981	2	Med	Med	Med	High	Med
DENA-0945	39838	TOKLAT BRIDGE LOOP PARKING	PUBLIC	GR	19,135	3	Low	Med	Med	High	High
DENA-0946	39839	MOOSE CREEK PIT PARKING	NONPUBLIC	GR	6,178	2	Med	High	Med	High	Med
DENA-0947	39840	HIDEOUT PIT PARKING	NONPUBLIC	GR	3,130	2	Med	High	Med	High	Med
DENA-0948	39843	DUCK POND PULLOUT PARKING	PUBLIC	GR	9,409	4	Med	Low	Low	Med	Med
DENA-0949	39844	DALLE-MOLLEVILLE PARKING	NONPUBLIC	GR	5,885	3	Med	Med	Low	Med	Med
DENA-0950	39845	WONDER LAKE RANGER STATION PARKING	PUBLIC	GR	9,227	3	Med	Med	Low	Med	Med
DENA-0951	39848	REFLECTION POND PARKING	PUBLIC	GR	1,252	4	Low	Med	Low	Med	Low
DENA-0953	39850	MCKINLEY BAR TRAILHEAD PARKING	PUBLIC	GR	1,831	4	Low	Med	Low	Med	Med
DENA-0954	39851	WONDER LAKE SHUTTLE PARKING	PUBLIC	GR	2,586	4	Low	Med	Low	Med	Low
DENA-0955	39853	TEKLANIKA RIVER BRIDGE PARKING	PUBLIC	GR	4,446	2	Med	Med	Med	High	Med
DENA-0958	39857	FRONT COUNTRY PUMP HOUSE PARKING	NONPUBLIC	GR	8,200	2	Med	High	Med	High	Low
DENA-0959	39859	FRONT COUNTRY WATER TREATMENT PARKING	NONPUBLIC	GR	5,490	2	Med	High	Low	Med	Low
DENA-0970	39861	ROCK CREEK RESERVOIR / AIR QUALITY PARKING	NONPUBLIC	GR	8,579	3	Med	Med	Low	Med	Low
DENA-0975AZ	109232	TALKEETNA VISITOR CENTER PARKING A	PUBLIC	GR	3,664	4	Low	Med	Low	Med	Low
DENA-0975BZ	109232	TALKEETNA VISITOR CENTER PARKING B	PUBLIC	GR	1,981	4	Low	Med	Low	Med	Low
DENA-0975CZ	109232	TALKEETNA VISITOR CENTER PARKING C	PUBLIC	GR	2,044	4	Low	Med	Low	Med	Low
DENA-0976	109882	MILE 73 PULLOUT PARKING	PUBLIC	GR	3,809	4	Low	Med	Low	Med	Med
DENA-0978	109884	BIG TIMBER OVERLOOK PARKING	PUBLIC	GR	4,031	3	Med	Med	Low	Med	High



Cycle 6 - Road Inventory Program Unpaved Parking Area Condition Summary Report

Denali National Park and Preserve

Condition (Rating / Index) Legend

EXCELLENT (5)
GOOD (4)
FAIR (3)
POOR (2)
POOR (1)
NR = NOT RATED

Notes:

- 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 Unpaved Parking Areas

Unpaved Surface Distresses

Route No.	FMSS No.	Route Name	User Access	Surf. Type	Area (Sq. Ft.)	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity	Dust
DENA-0983B	111186	HQ AND KENNELS LOOP ROAD & PARKING (UNPAVED)	PUBLIC	GR	38,297	3	Med	Med	Low	Med	Low
DENA-0984	225904	MAINTENANCE UPPER GRAVEL PARKING	NONPUBLIC	GR	49,671	2	Med	Med	Med	Med	Low
DENA-0988	110869	KANTISHNA AIRSTRIP PARKING	NONPUBLIC	GR	2,917	4	Low	Med	Med	Med	High
DENA-0990	244661	CONCESSIONS MAINTENANCE BUILDING PARKING	NONPUBLIC	GR	18,883	4	Low	Med	Med	Med	Low

Section 4 Park Route Location Maps



Denali National Park & Preserve

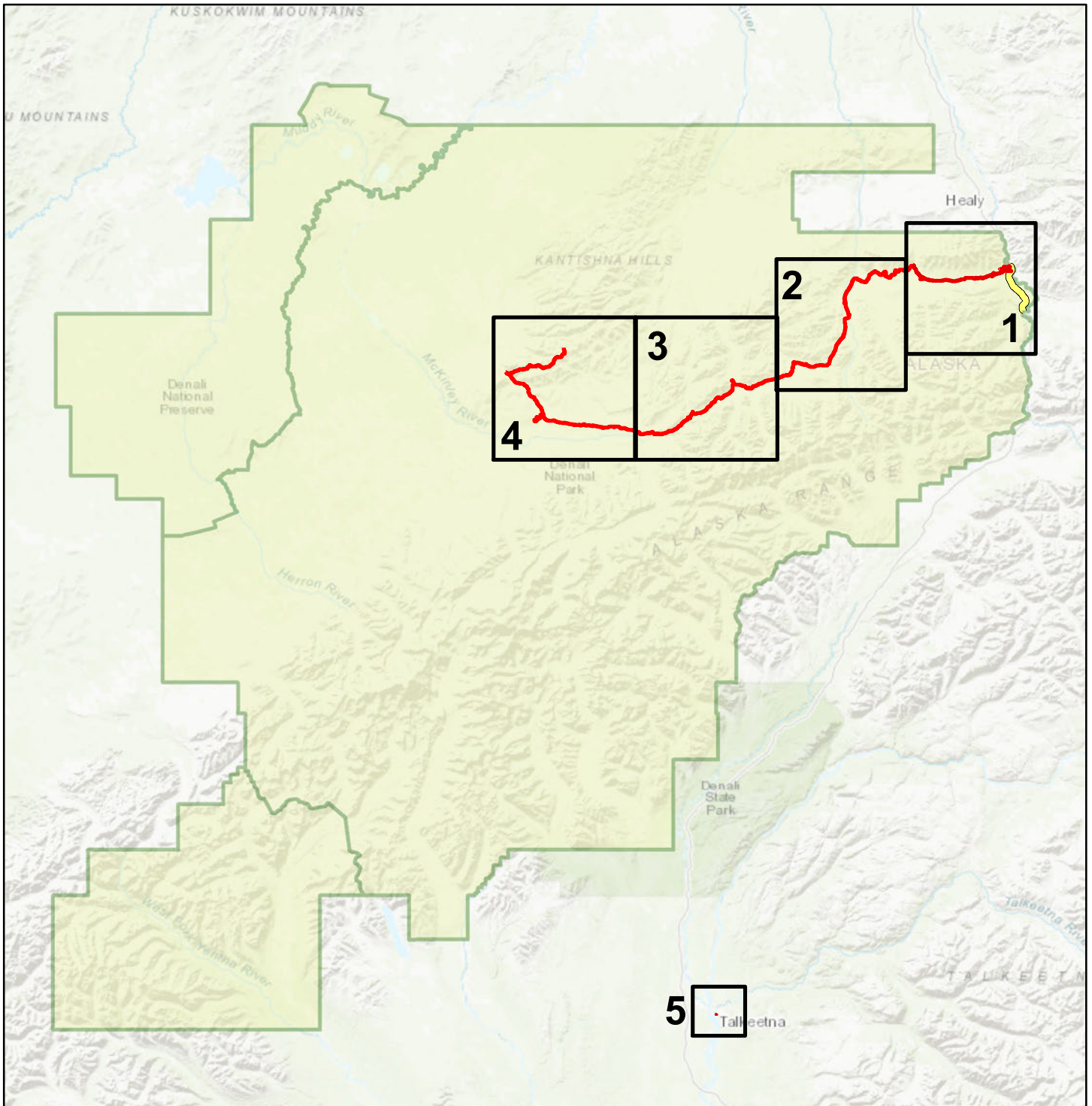


Federal Lands Highway
Road Inventory Program


Denali National Park and Preserve

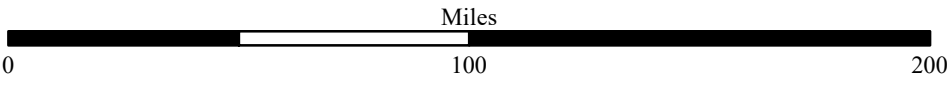
ROUTE LOCATION MAP

Key Map



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

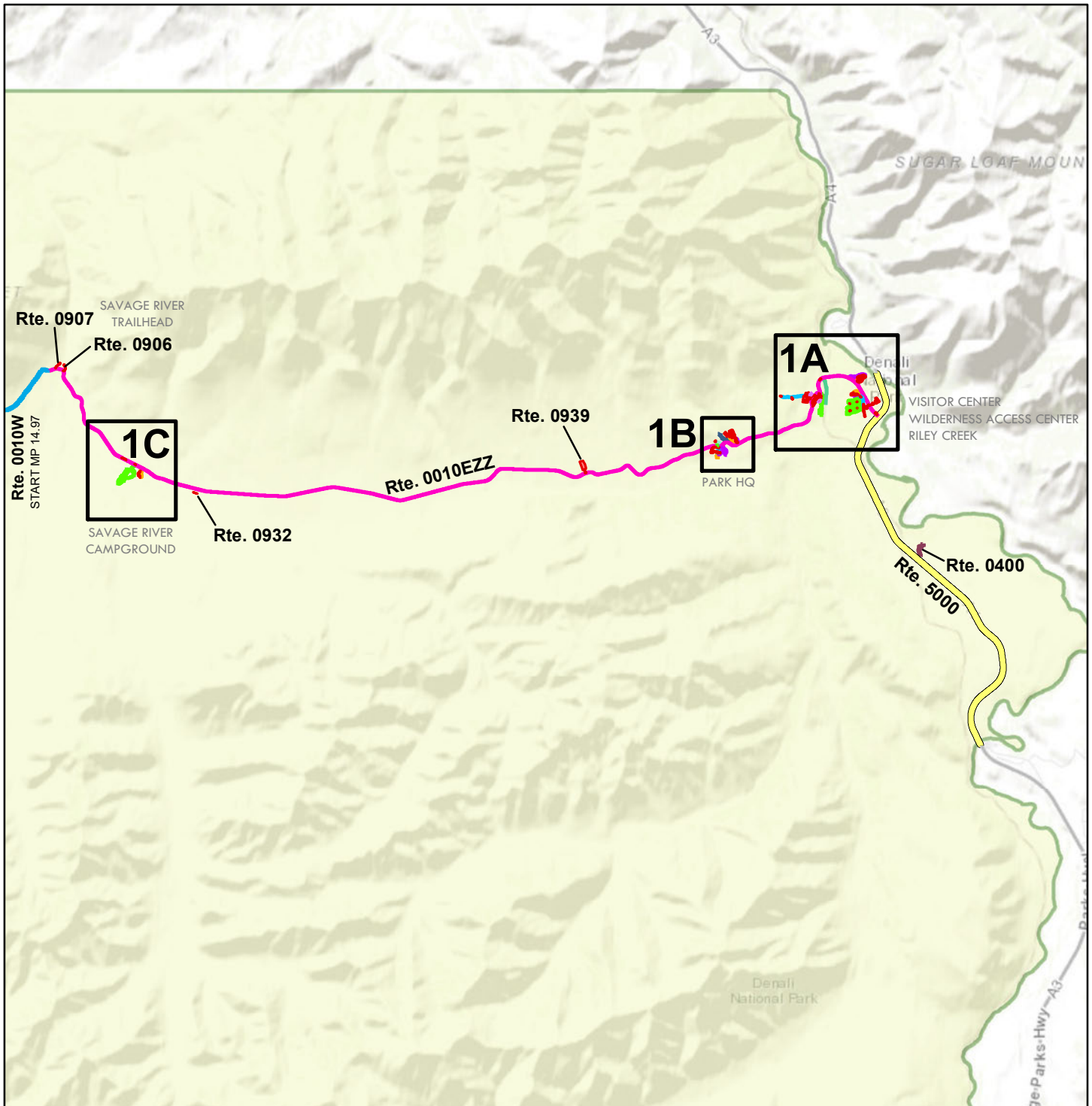
 **NPS Collected Routes**  **Non-NPS Collected Routes**



Denali National Park and Preserve

ROUTE LOCATION MAP

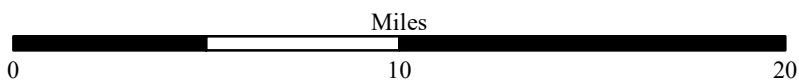
MAP 1



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

Note: Unique colors are used to differentiate roads

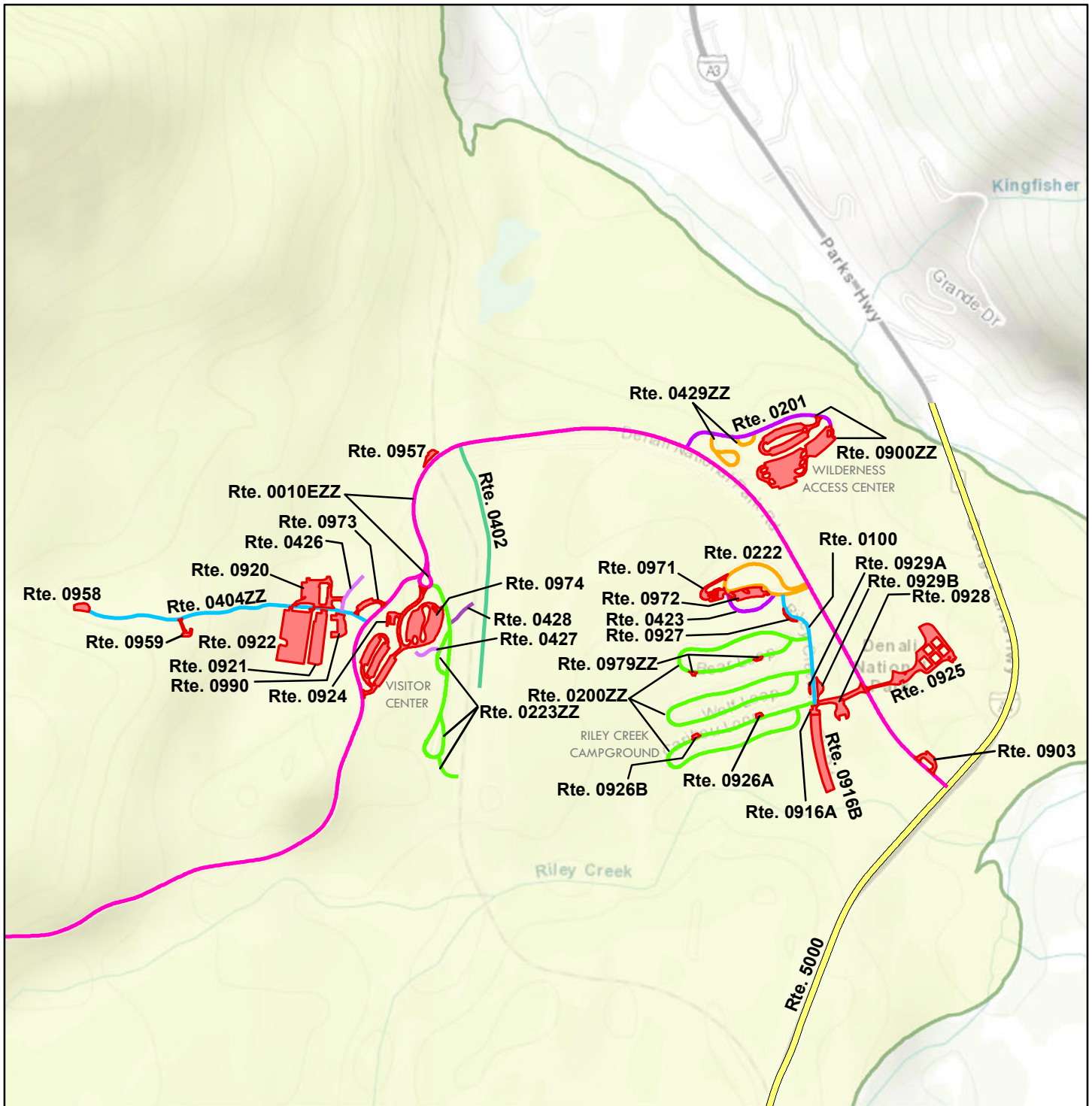
Non-NPS Collected Routes



Denali National Park and Preserve

ROUTE LOCATION MAP

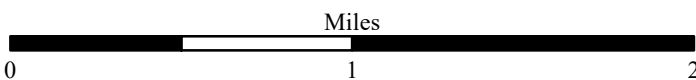
MAP 1A



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

Note: Unique colors are used to differentiate roads

Non-NPS Collected Routes



Denali National Park and Preserve

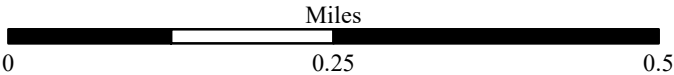
ROUTE LOCATION MAP

MAP 1B



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

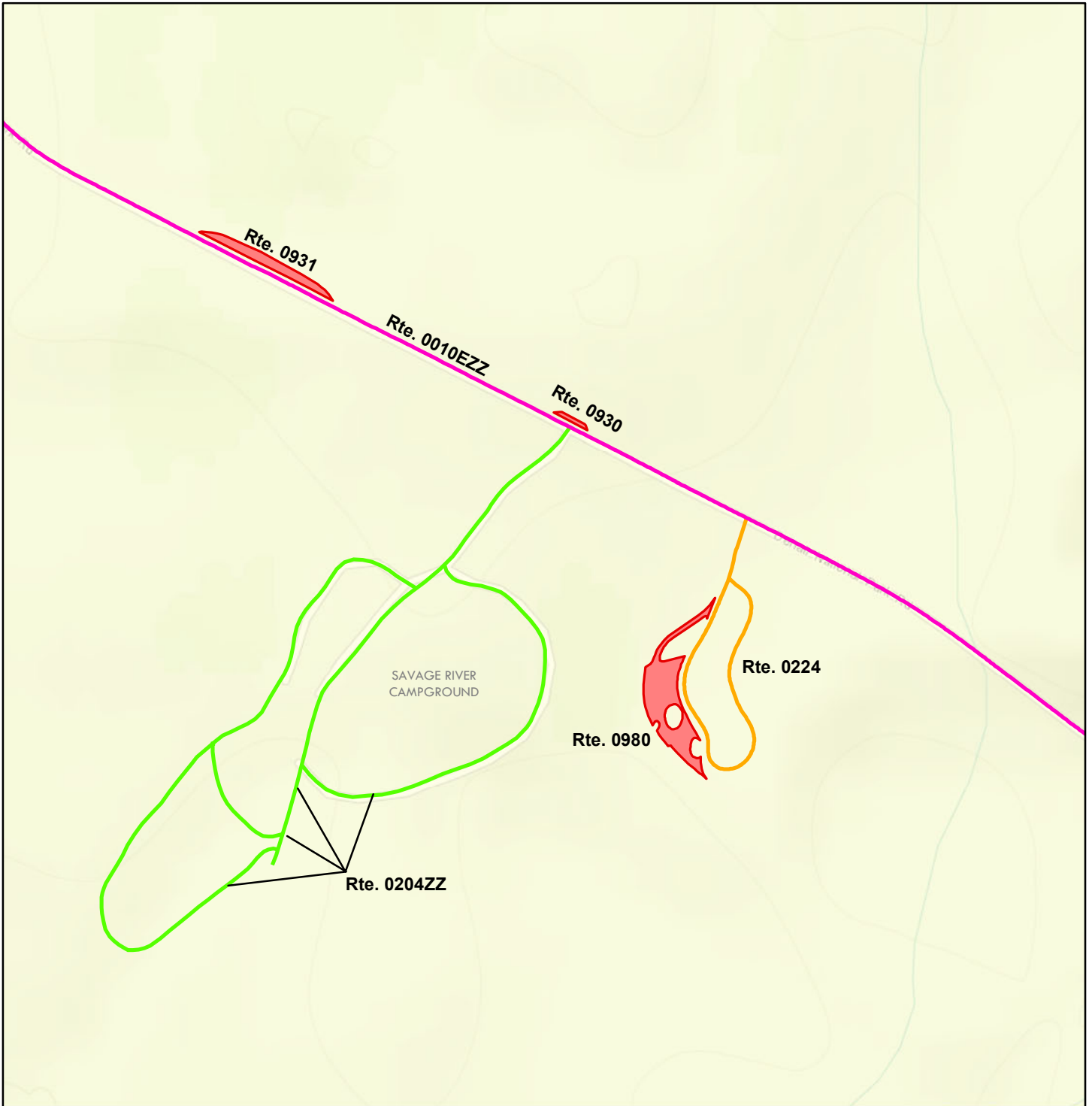
Note: Unique colors are used to differentiate roads



Denali National Park and Preserve

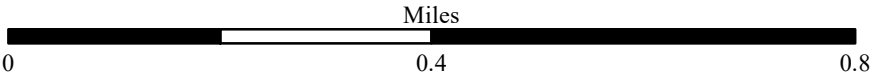
ROUTE LOCATION MAP

MAP 1C



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

Note: Unique colors are used to differentiate roads



Denali National Park and Preserve

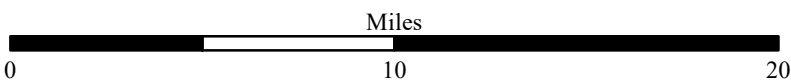
ROUTE LOCATION MAP

MAP 2



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

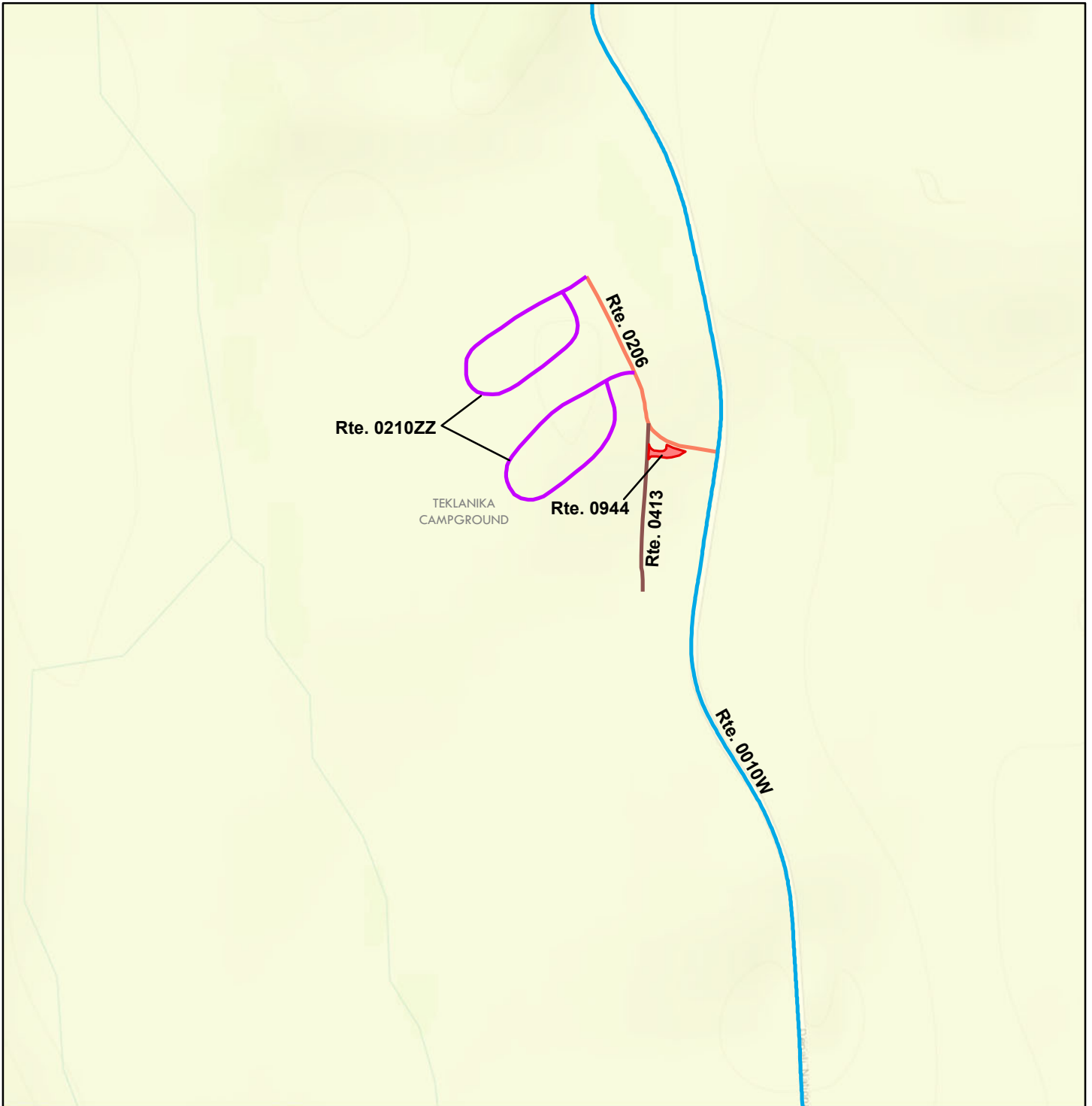
Note: Unique colors are used to differentiate roads



Denali National Park and Preserve

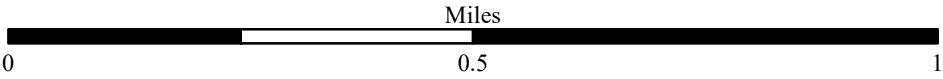
ROUTE LOCATION MAP

MAP 2A



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

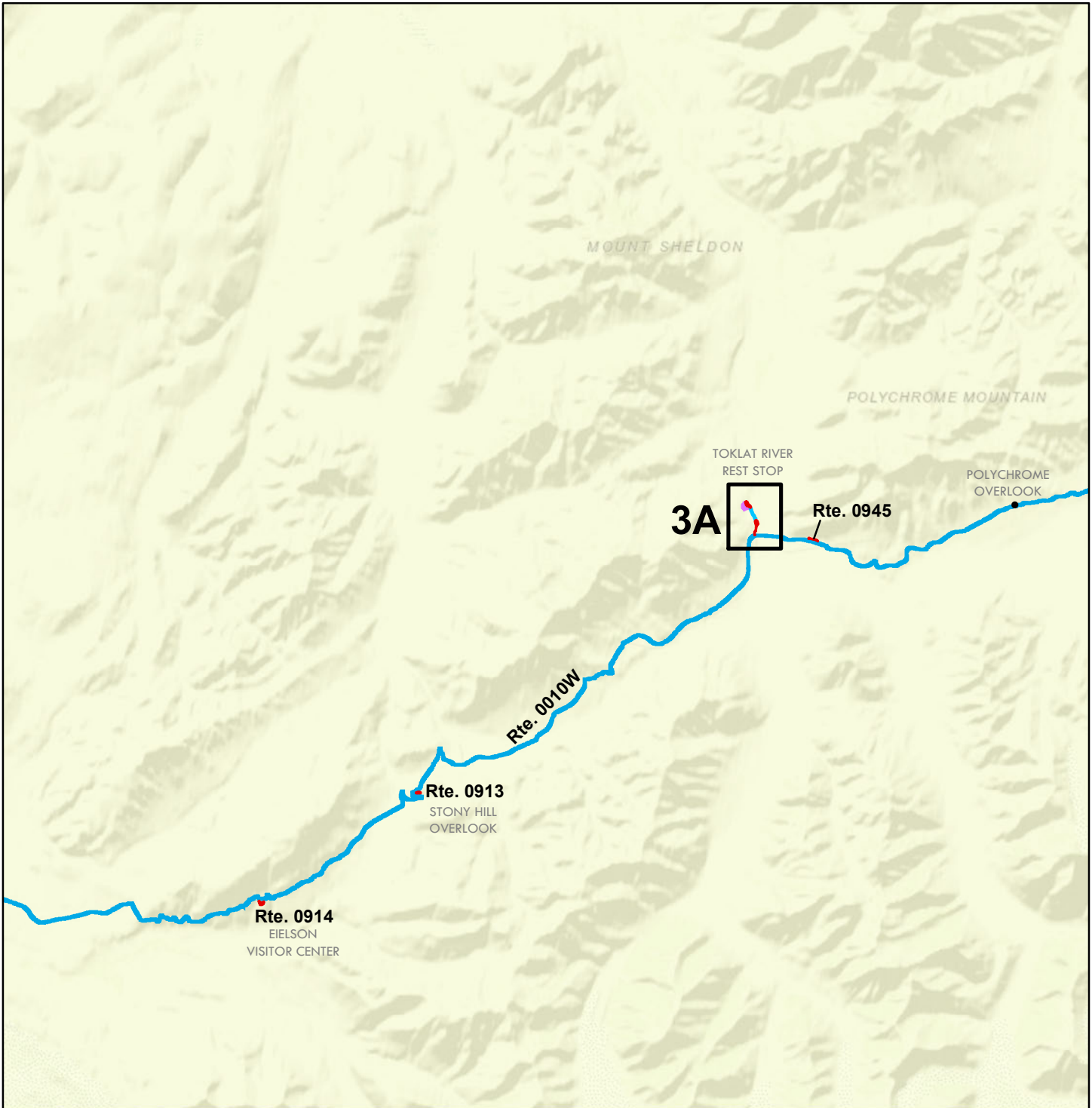
Note: Unique colors are used to differentiate roads



Denali National Park and Preserve

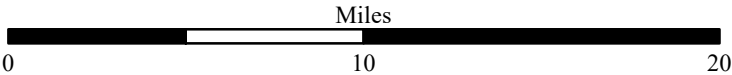
ROUTE LOCATION MAP

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



Denali National Park and Preserve

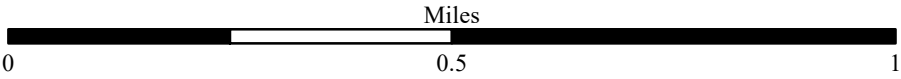
ROUTE LOCATION MAP

MAP 3A



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

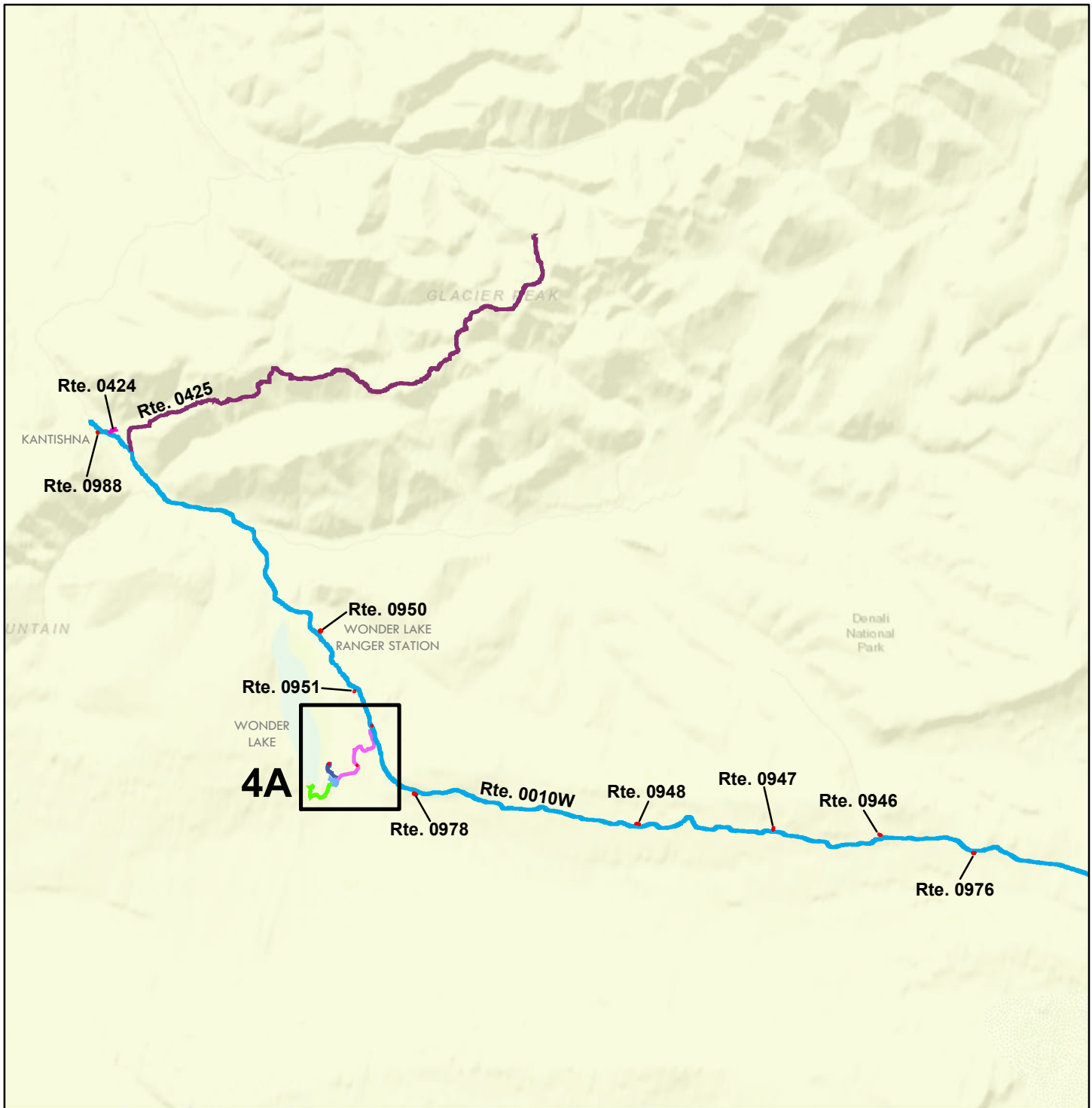
Note: Unique colors are used to differentiate roads



Denali National Park and Preserve

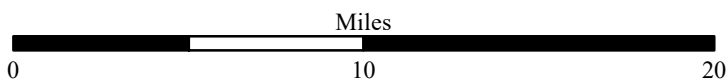
ROUTE LOCATION MAP

MAP 4



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

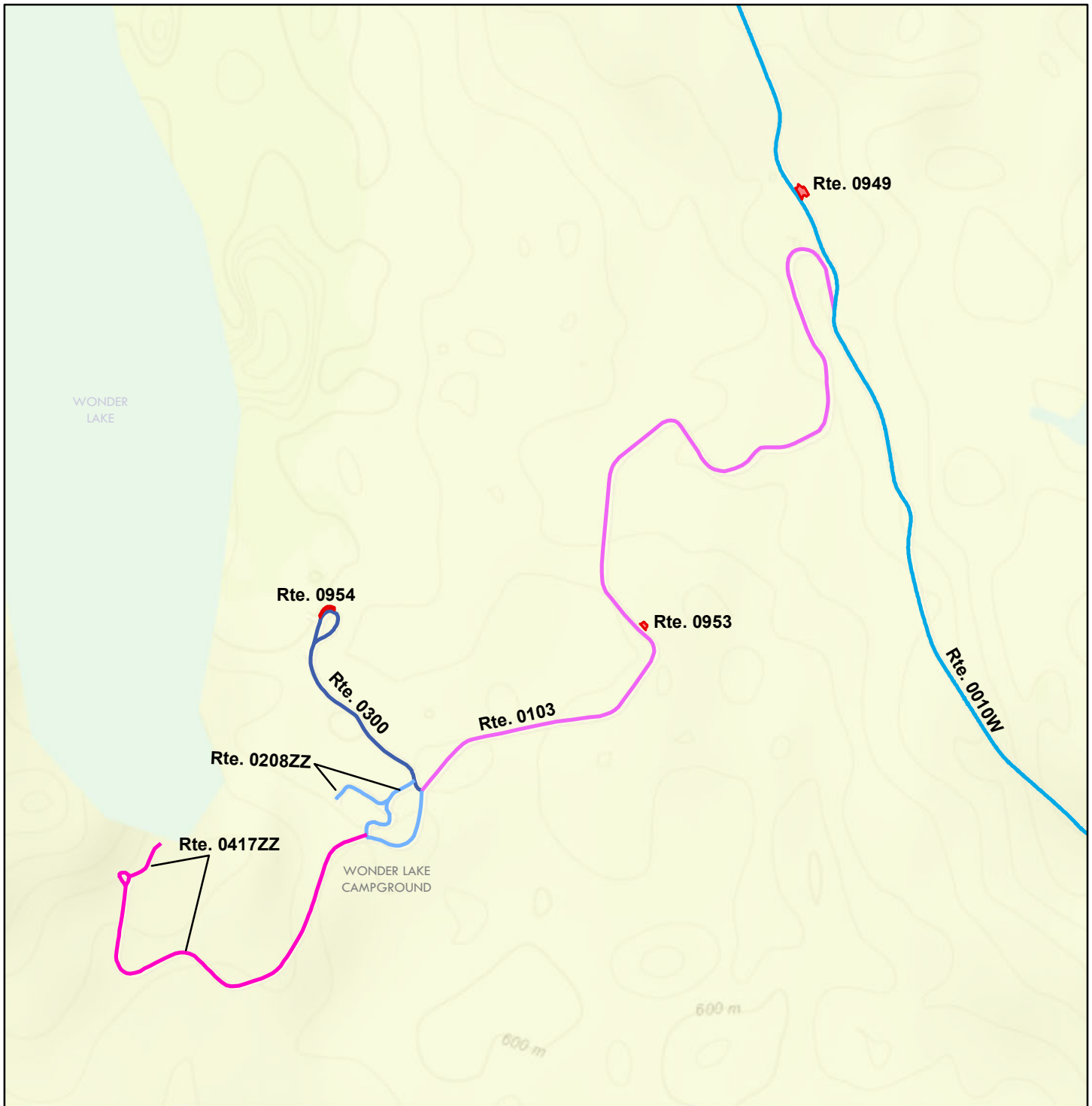
Note: Unique colors are used to differentiate roads



Denali National Park and Preserve

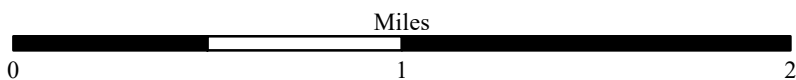
ROUTE LOCATION MAP

MAP 4A



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

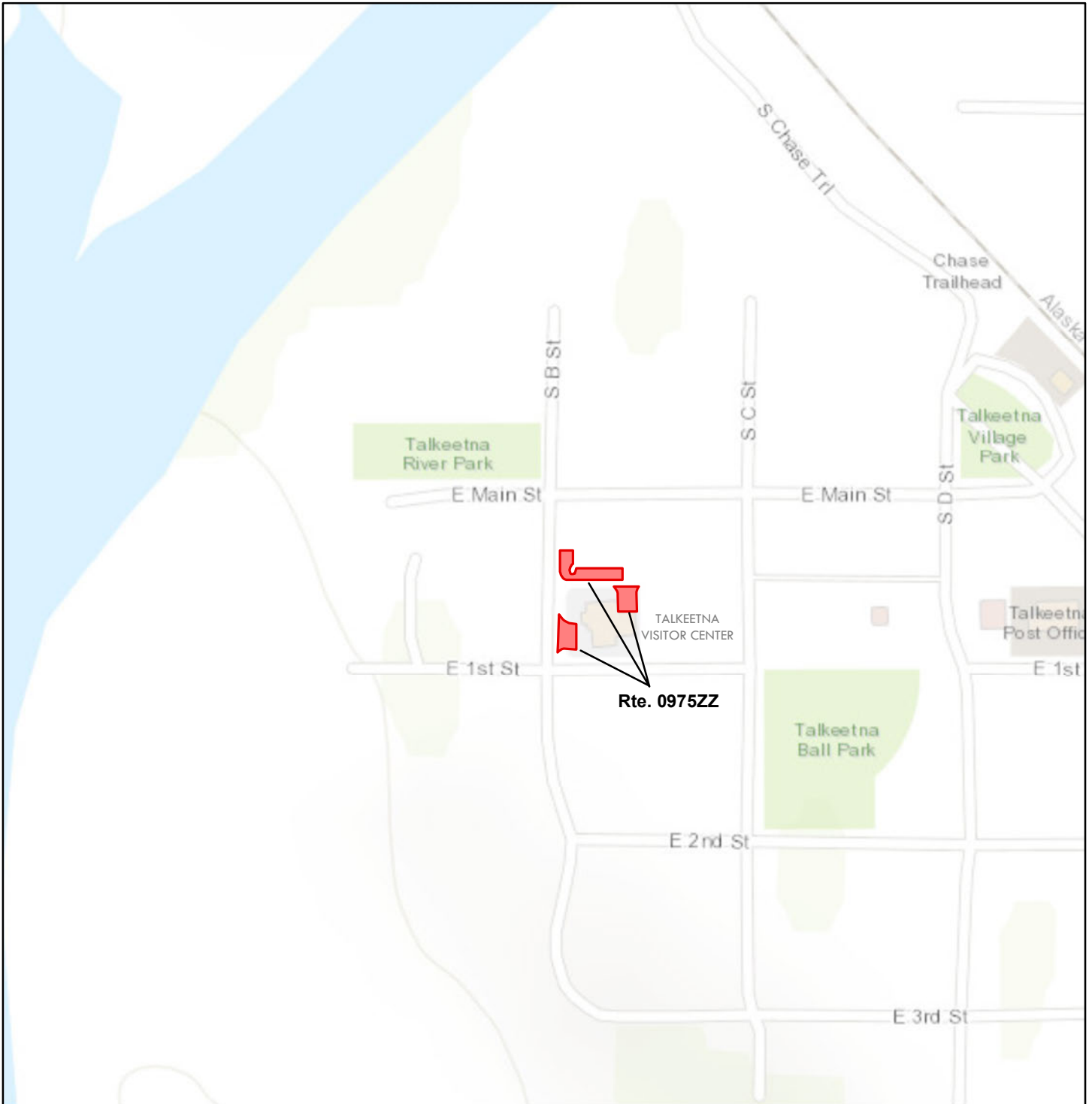
Note: Unique colors are used to differentiate roads



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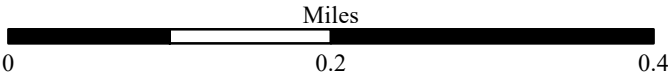
ROUTE LOCATION MAP

MAP 5



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

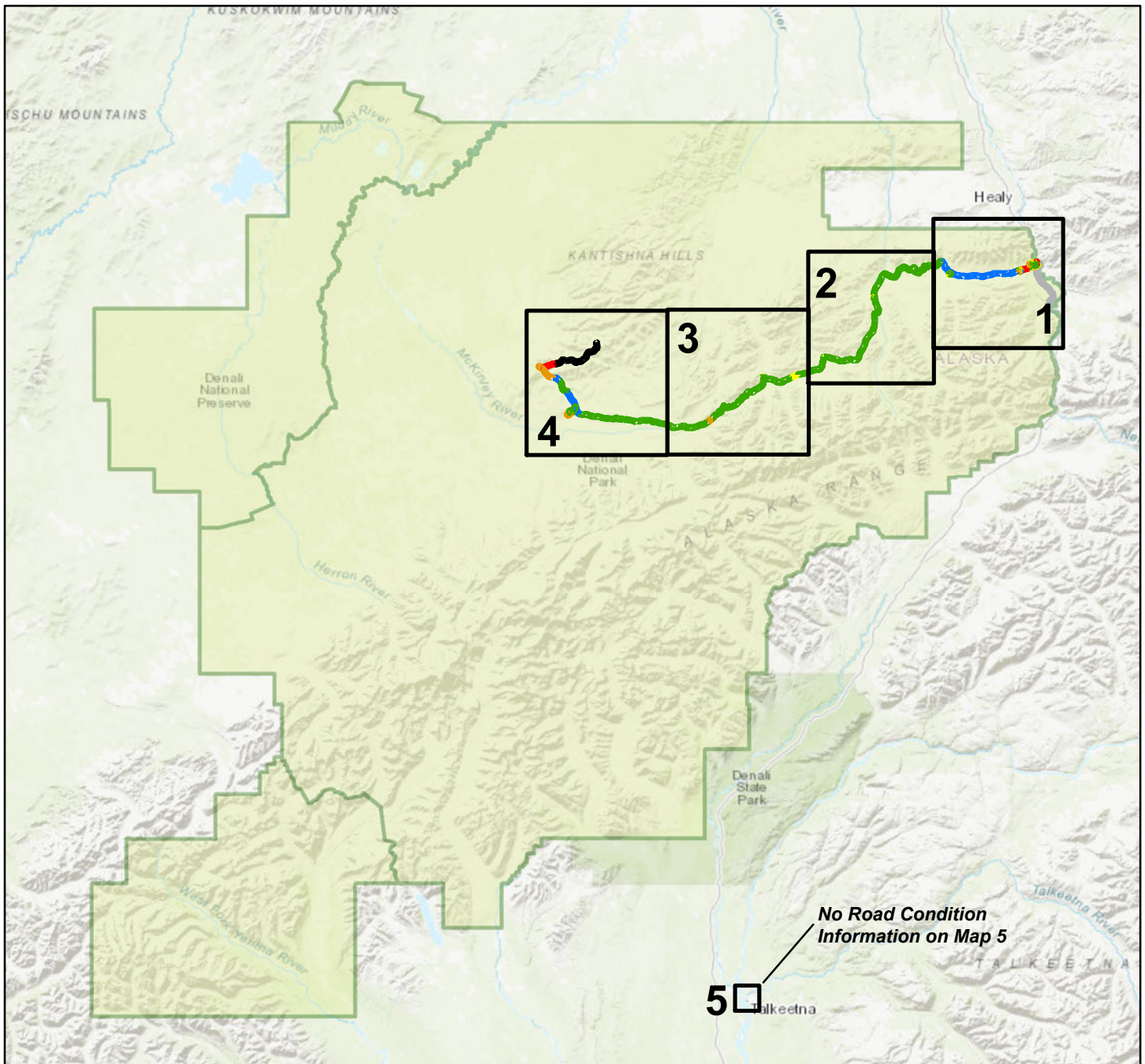


Denali National Park and Preserve

ROUTE CONDITION MAP

MILE BY MILE

Key Map

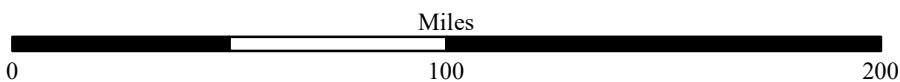


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend



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

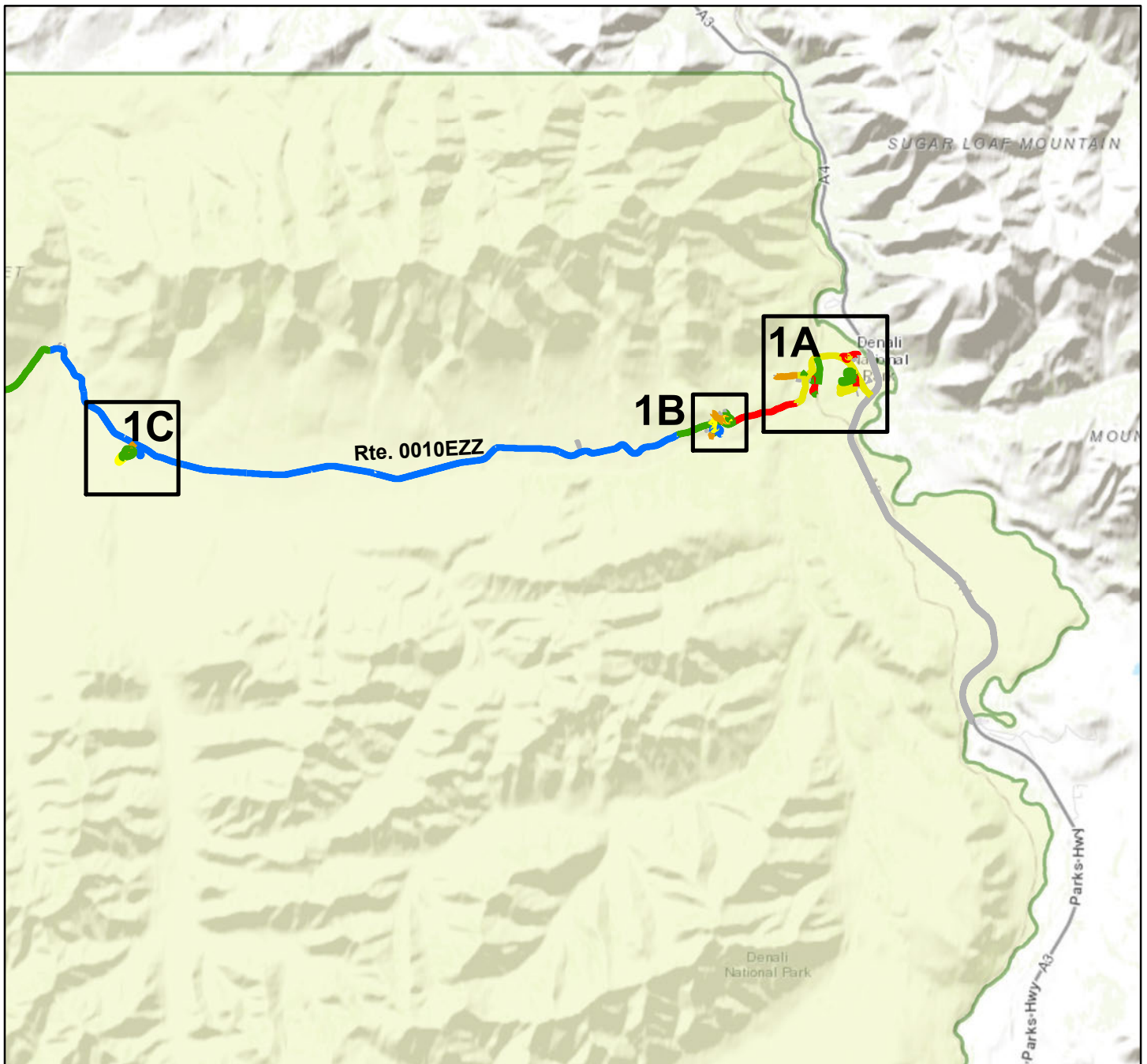


Denali National Park and Preserve

ROUTE CONDITION MAP

MILE BY MILE

Area Map 1

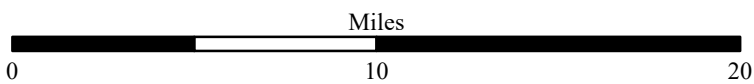


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend



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

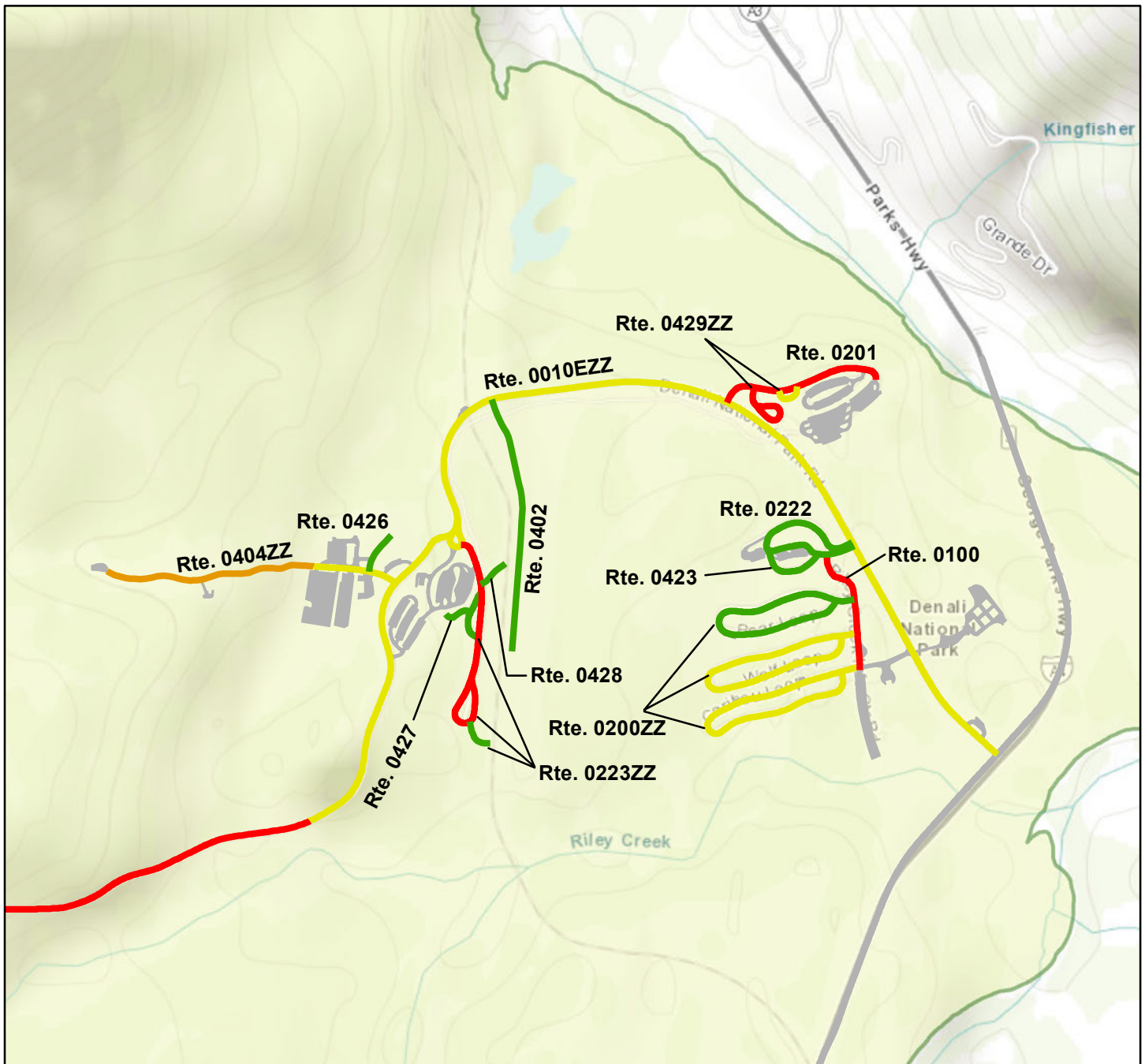


Denali National Park and Preserve

ROUTE CONDITION MAP

MILE BY MILE

Area Map 1A

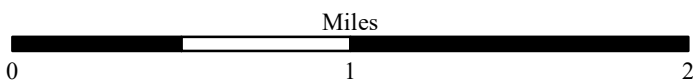


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend



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

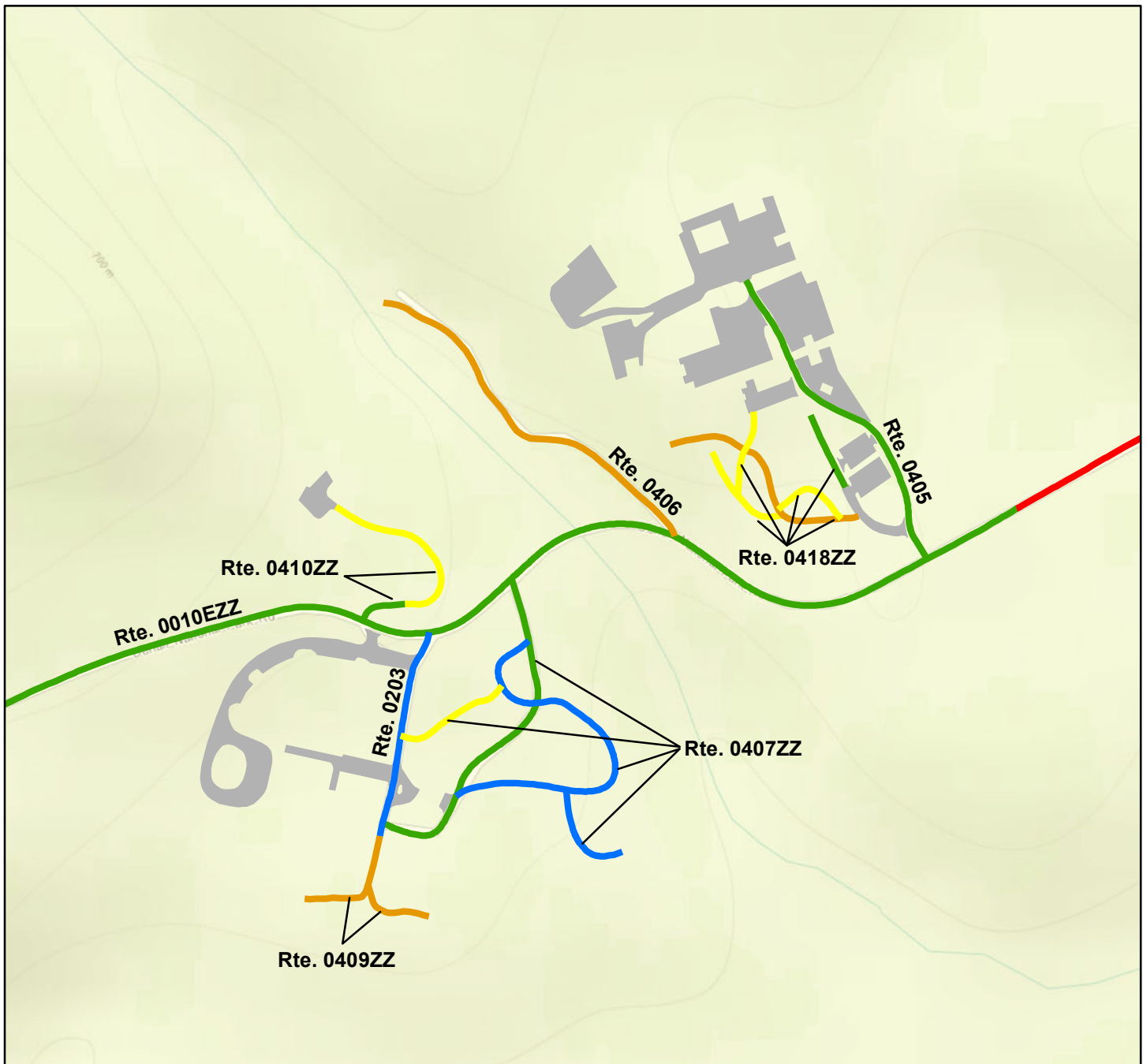


Denali National Park and Preserve

ROUTE CONDITION MAP

MILE BY MILE

Area Map 1B

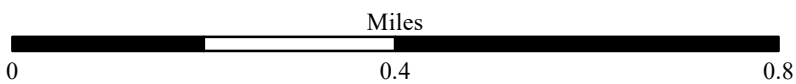


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend



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

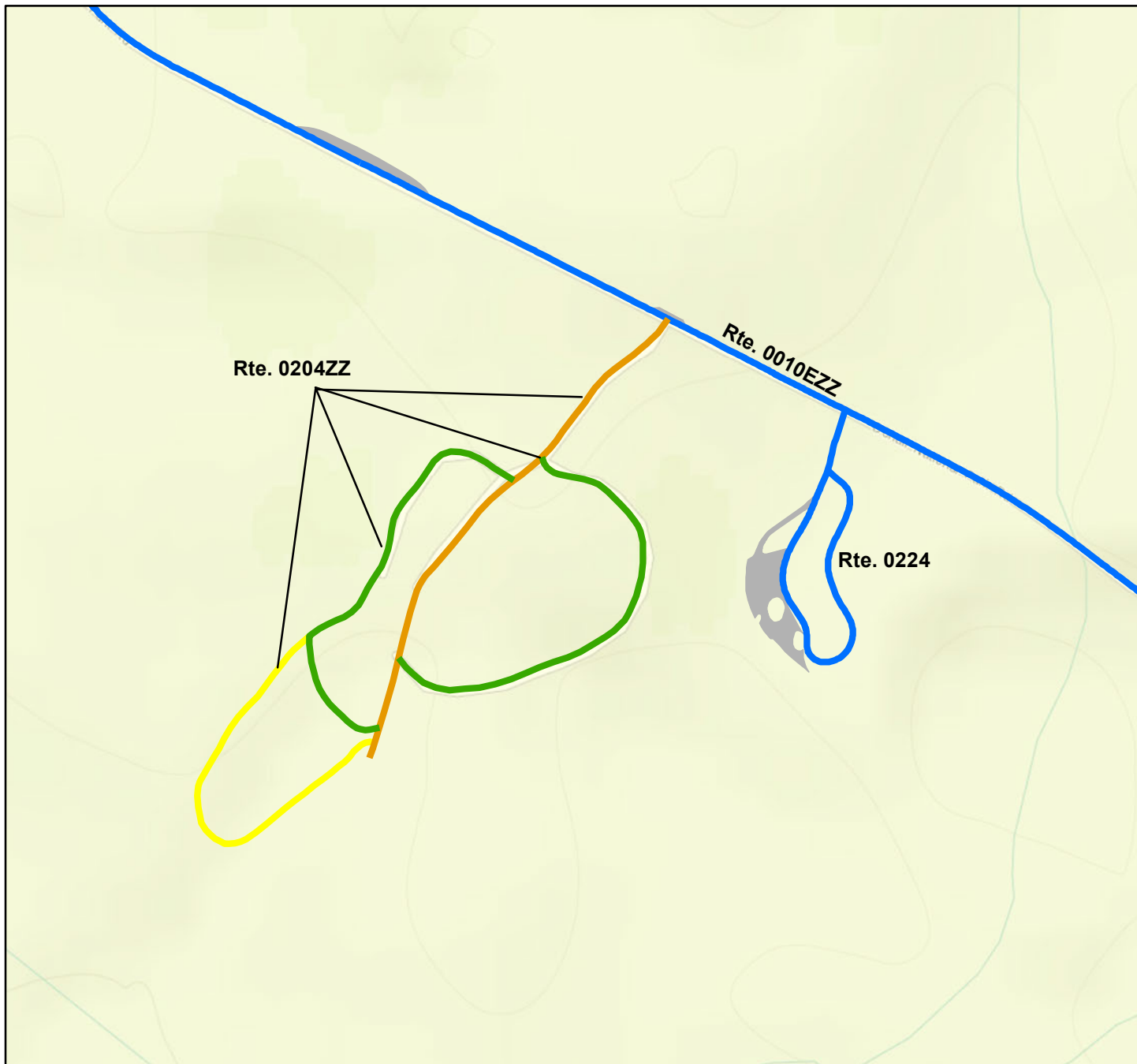


Denali National Park and Preserve

ROUTE CONDITION MAP

MILE BY MILE

Area Map 1C

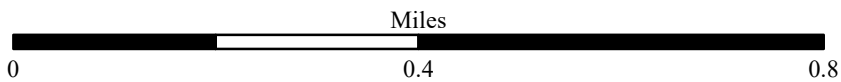


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend



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



Denali National Park and Preserve

ROUTE CONDITION MAP

MILE BY MILE

Area Map 2

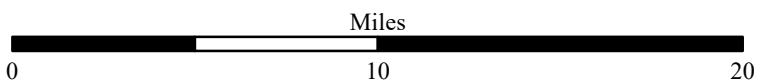


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend



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



Denali National Park and Preserve

ROUTE CONDITION MAP

MILE BY MILE

Area Map 2A

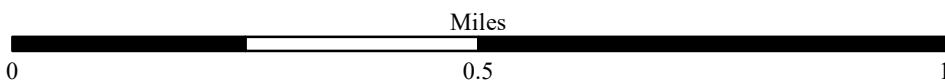


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend



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

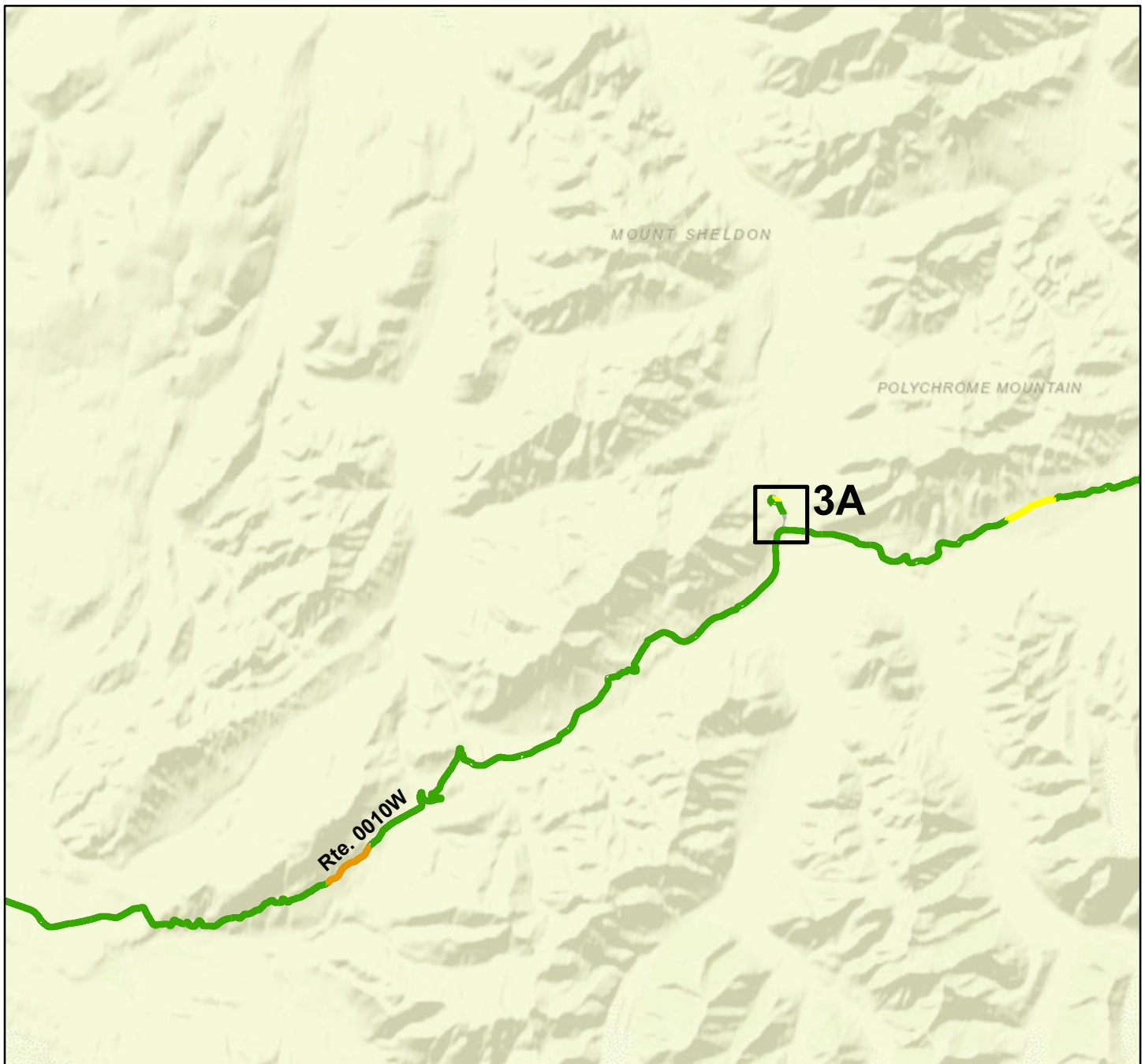


Denali National Park and Preserve

ROUTE CONDITION MAP

MILE BY MILE

Area Map 3

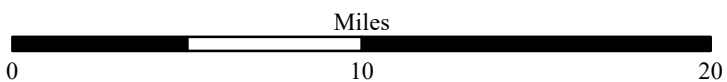


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend



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

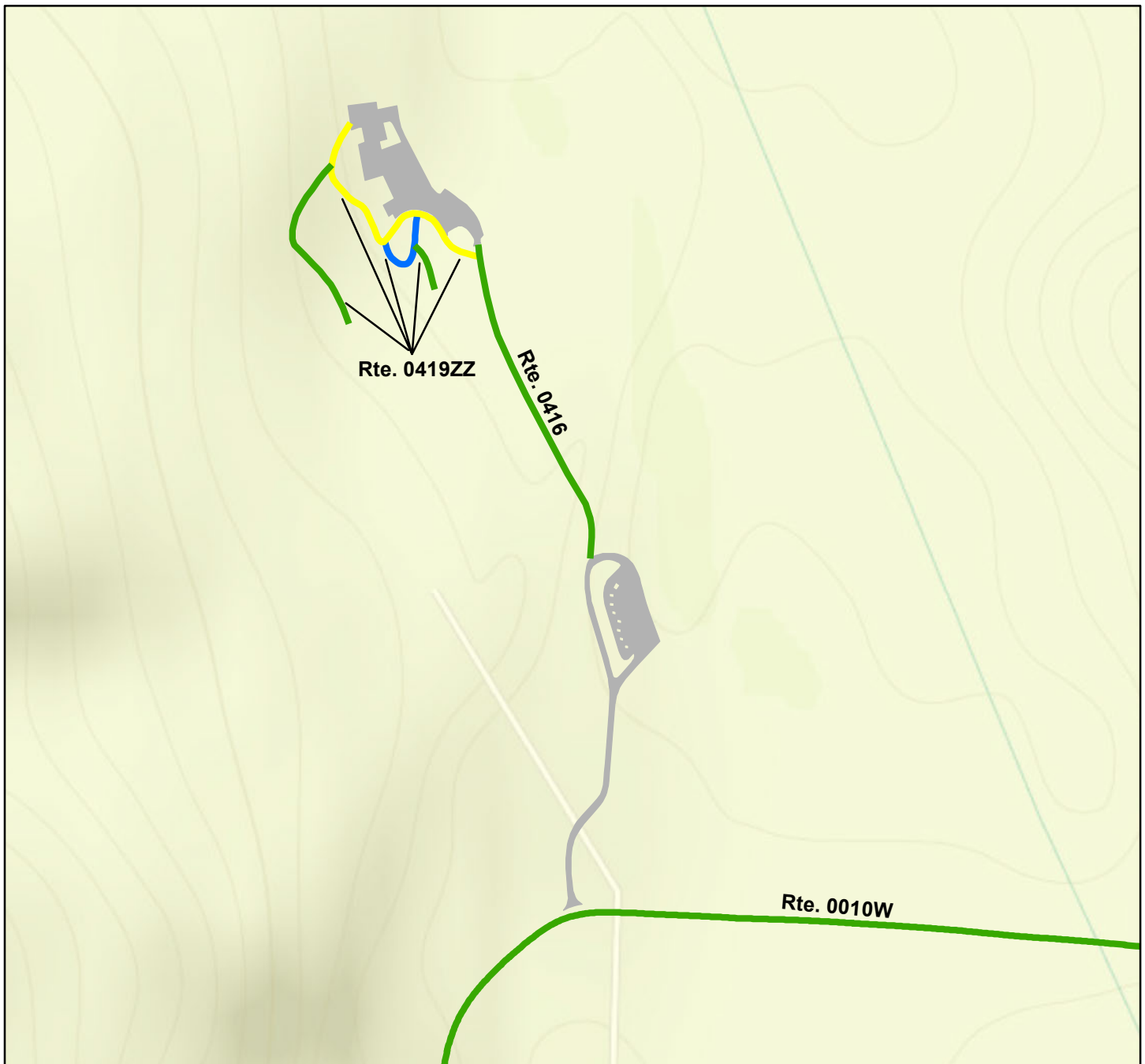


Denali National Park and Preserve

ROUTE CONDITION MAP

MILE BY MILE

Area Map 3A

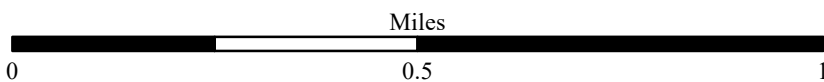


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend



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



Denali National Park and Preserve

ROUTE CONDITION MAP

MILE BY MILE

Area Map 4

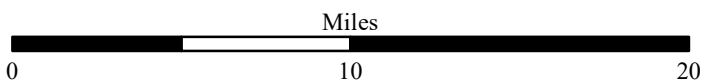


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend



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



Denali National Park and Preserve

ROUTE CONDITION MAP

MILE BY MILE

Area Map 4A

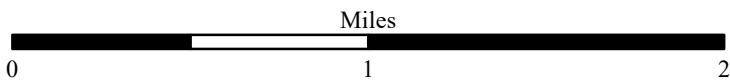


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Route Condition Legend



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



Section 5 Road Condition Rating Sheets



Denali National Park & Preserve



Federal Lands Highway
Road Inventory Program

Denali National Park & Preserve

Section 5 contains condition rating sheets for all paved and unpaved roads in Denali National Park & Preserve.

Notes on Condition Ratings and Photos:

Paved Roads: Rated with the automated data collection vehicle (DCV). Condition photos are not included in the report. The PathView program and Pathweb website should be used for image viewing on paved roads.

Unpaved Roads: Rated manually by the FHWA RIP team. Condition photos were recorded using a GoPro camera on a time lapse setting. A representative sample of photos for each unpaved road is included in this report. Additional GoPro images taken along the entire length of the unpaved roads are delivered on a separate hard drive.

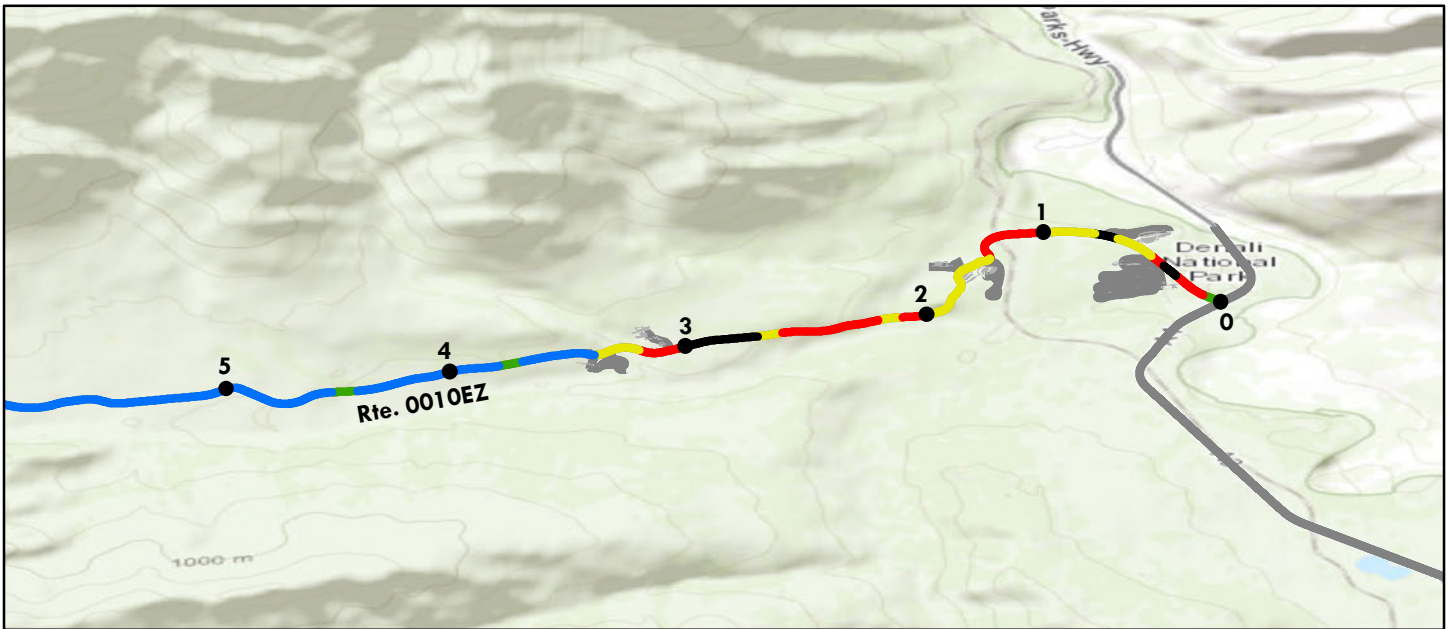
Routes 0410AZ, 0426, and 0427 are manually rated paved roads that were too short for the automated DCV. Photographs are included in this report.

Routes 0010W, 0103, and 0300 are unpaved roads driven with the automated DCV for GPS, length measurements, and images only. These three roads have manual condition ratings and images can be viewed from the GoPro camera and PathView/Pathweb programs.

Denali National Park and Preserve

ROUTE 0010EZ: DENALI PARK ROAD - EAST

Subcomponent of Route DENA-0010EZZ
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: 7/10/2019	Beginning Section MP	0	1	2	3	4
Paved Length (Miles): 14.97	Section Length (MI)	1	1	1	1	1
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	94	64	66	57	90	98
Surface Condition Rating (SCR)	90	57	62	39	84	97
Roughness Condition Index (RCI)	100	75	71	85	100	100
Distress Index Values						
Structural Crack Index	93	59	68	58	95	100
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	93	59	68	58	95	100
Transverse Cracking Index	90	57	62	39	84	99
Patching Index	99	100	99	95	98	97
Rutting Index	99	93	95	94	99	100
International Roughness Index (IRI)	84	183	198	153	103	74
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	22.4	25.5	23.6	23.5	22.4	22
Lane Width (ft)	10.9	11.7	12.3	11	10.9	10.5

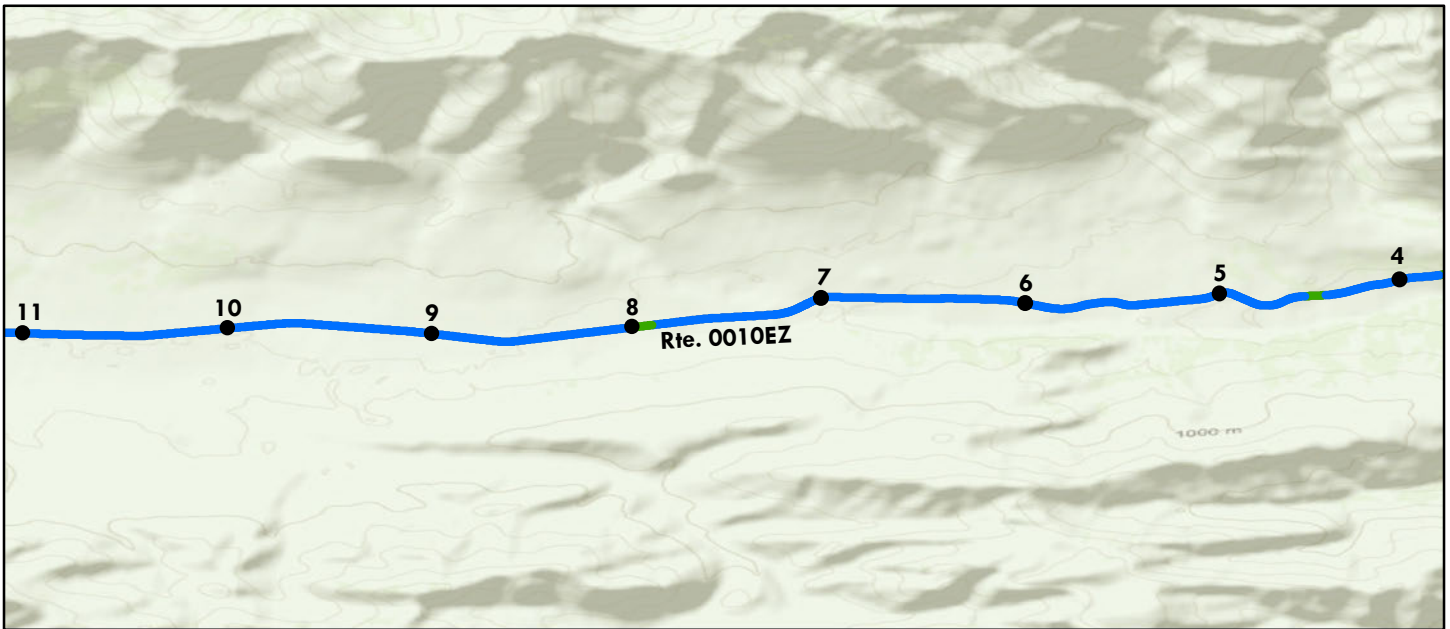
Note: Condition ratings were not recorded along Route 0010E at the following locations due to construction:

MP 0.06-0.14 MP 0.28-0.36 MP 0.42-0.46 MP 0.68-0.78
MP 0.98-1.02 MP 1.52-1.56 MP 2.72-3.04 MP 3.40-3.42

Denali National Park and Preserve

ROUTE 0010EZ: DENALI PARK ROAD - EAST

Subcomponent of Route DENA-0010EZZ
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.

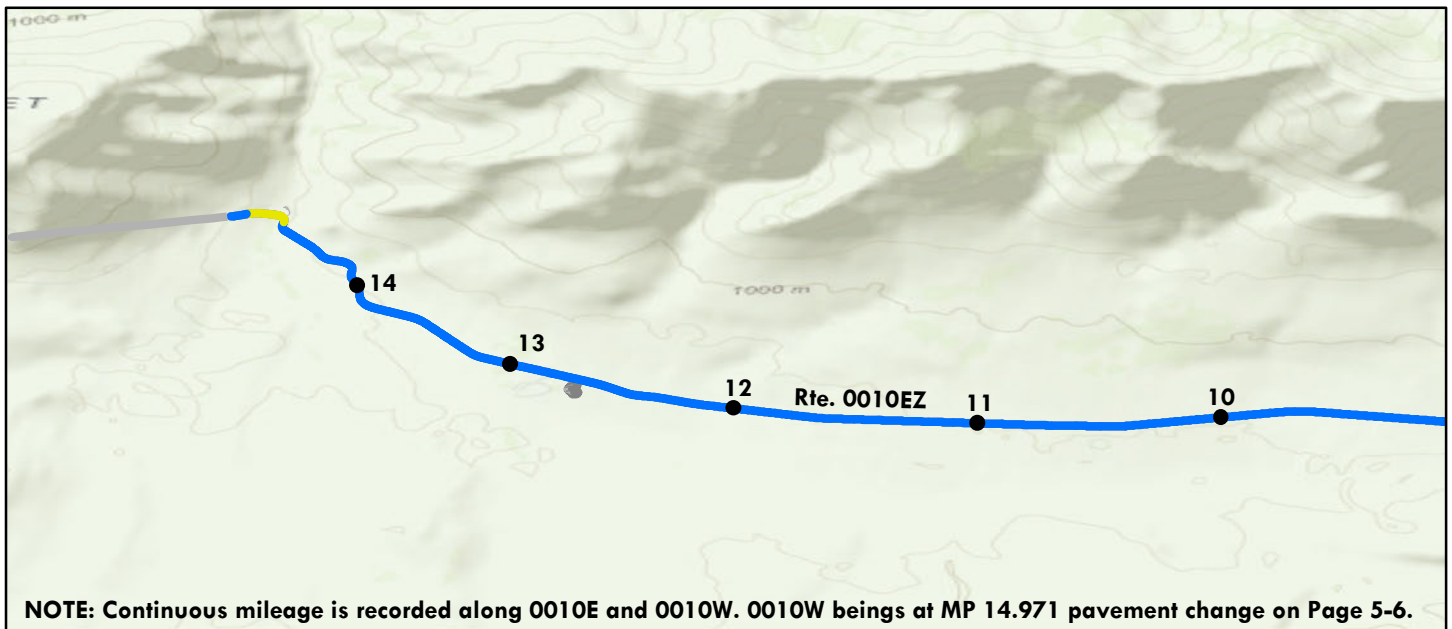
Inspection Date:	7/10/2019	Beginning Section MP	5	6	7	8	9
	Paved Length (Miles):	14.97	Section Length (MI)	1	1	1	1
Surface Type:	ASPHALT	Route Summary					
Roadway Condition Information							
Pavement Condition Rating (PCR)	94	99	98	99	99	99	
Surface Condition Rating (SCR)	90	99	97	99	98	99	
Roughness Condition Index (RCI)	100	100	100	100	100	100	
Distress Index Values							
Structural Crack Index	93	100	100	99	100	100	
Alligator Crack Index	100	100	100	100	100	100	
Longitudinal Crack Index	93	100	100	99	100	100	
Transverse Cracking Index	90	99	97	100	99	99	
Patching Index	99	100	100	99	98	100	
Rutting Index	99	100	100	100	100	100	
International Roughness Index (IRI)	84	68	68	57	60	44	
Lane & Width Information							
Number of Lanes	2	2	2	2	2	2	
Paved Width (ft)	22.4	21.4	21.5	21.7	21.3	22.3	
Lane Width (ft)	10.9	10.2	10.6	10.7	10.8	10.8	

Denali National Park and Preserve

ROUTE 0010EZ: DENALI PARK ROAD - EAST

Subcomponent of Route DENA-0010EZZ

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

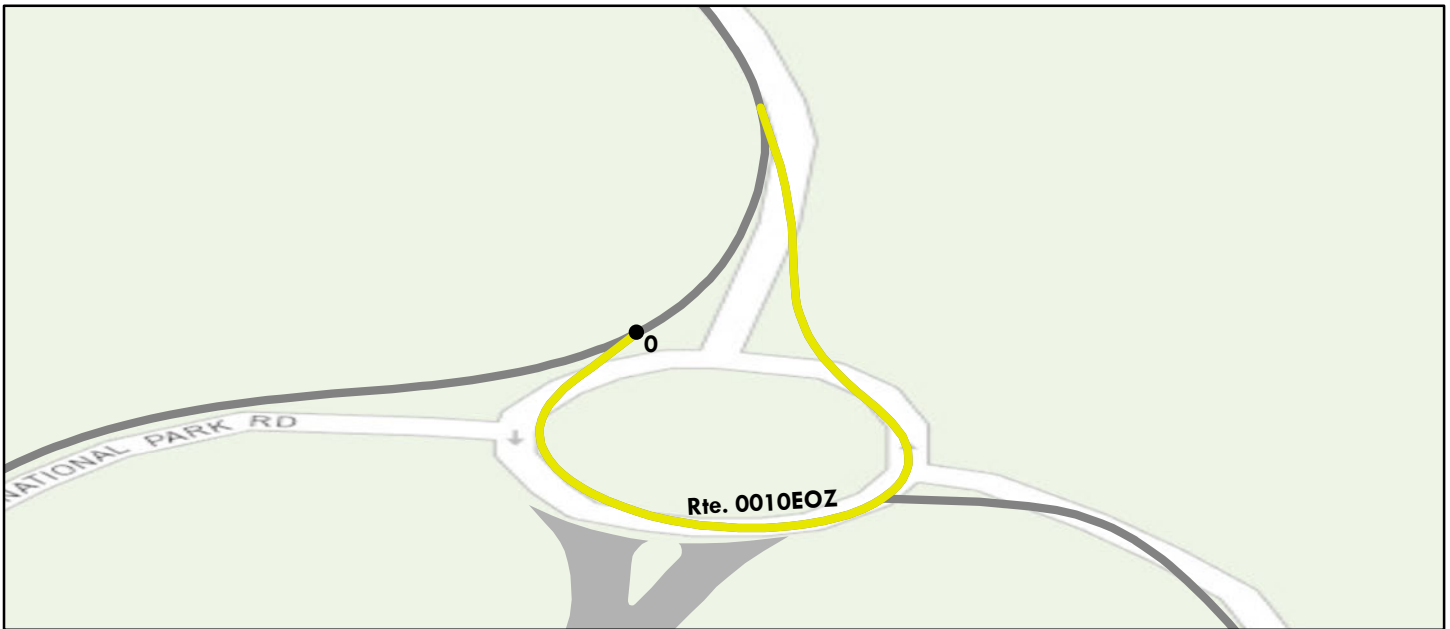
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date:	7/10/2019	Beginning Section MP	10	11	12	13	14
Paved Length (Miles):	14.97	Section Length (MI)	1	1	1	1	0.97
Surface Type:	ASPHALT	Route Summary					
Roadway Condition Information							
Pavement Condition Rating (PCR)	94	100	100	99	100	97	
Surface Condition Rating (SCR)	90	100	100	99	100	95	
Roughness Condition Index (RCI)	100	100	100	100	100	100	
Distress Index Values							
Structural Crack Index	93	100	100	100	100	95	
Alligator Crack Index	100	100	100	100	100	100	
Longitudinal Crack Index	93	100	100	100	100	95	
Transverse Cracking Index	90	100	100	99	100	95	
Patching Index	99	100	100	99	100	100	
Rutting Index	99	100	100	100	100	99	
International Roughness Index (IRI)	84	56	50	58	61	100	
Lane & Width Information							
Number of Lanes	2	2	2	2	2	2	
Paved Width (ft)	22.4	22.1	22.1	22.9	22.4	22.4	
Lane Width (ft)	10.9	10.7	10.8	11.1	11	11.1	

Denali National Park and Preserve

ROUTE 0010EOZ: DENALI PARK ROAD - EAST ROUNDABOUT

Subcomponent of Route DENA-0010EZZ
Data Collection Vehicle (DCV) Rating



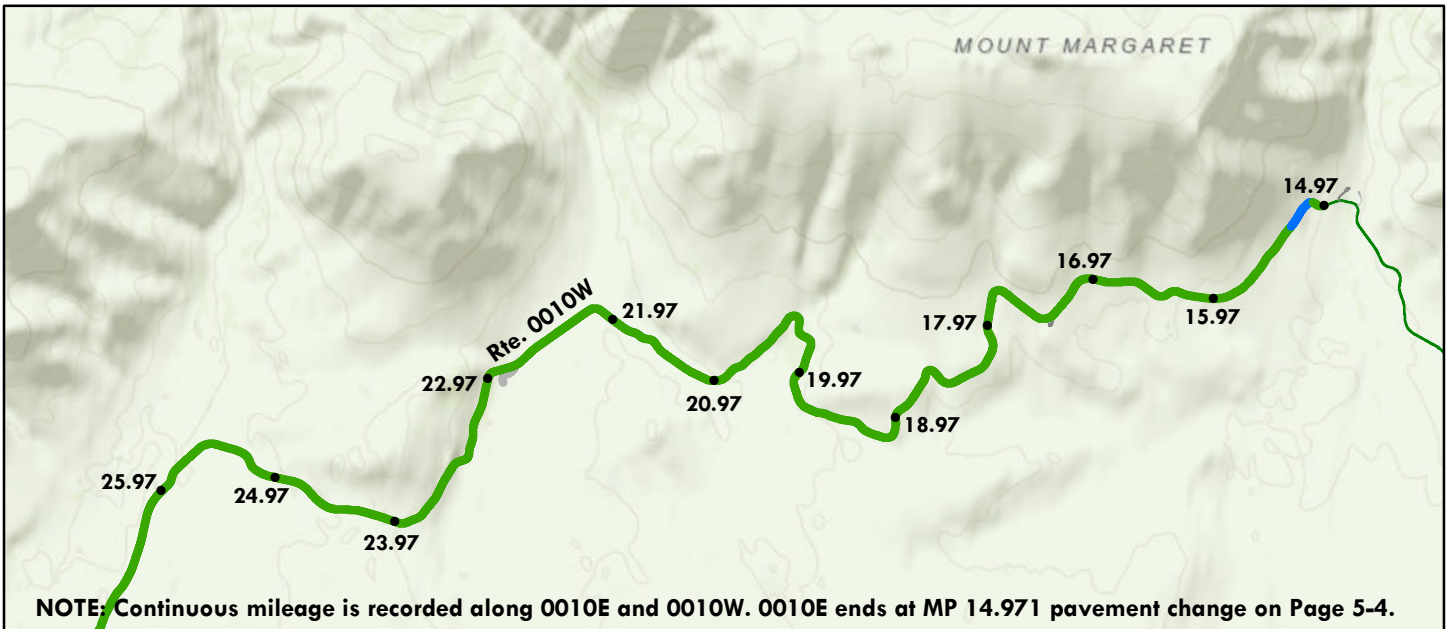
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

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: 7/10/2019	Beginning Section MP	0				
Paved Length (Miles): 0.07	Section Length (MI)	0.07				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	82	82				
Surface Condition Rating (SCR)	82	82				
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	82	82				
Patching Index	100	100				
Rutting Index	95	95				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	20.5	20.5				
Lane Width (ft)	20.5	20.5				

Denali National Park and Preserve

ROUTE 0010W: DENALI PARK ROAD - WEST

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/11/2019		Unpaved Length (Miles): 77.59		Surface Type: GRAVEL	

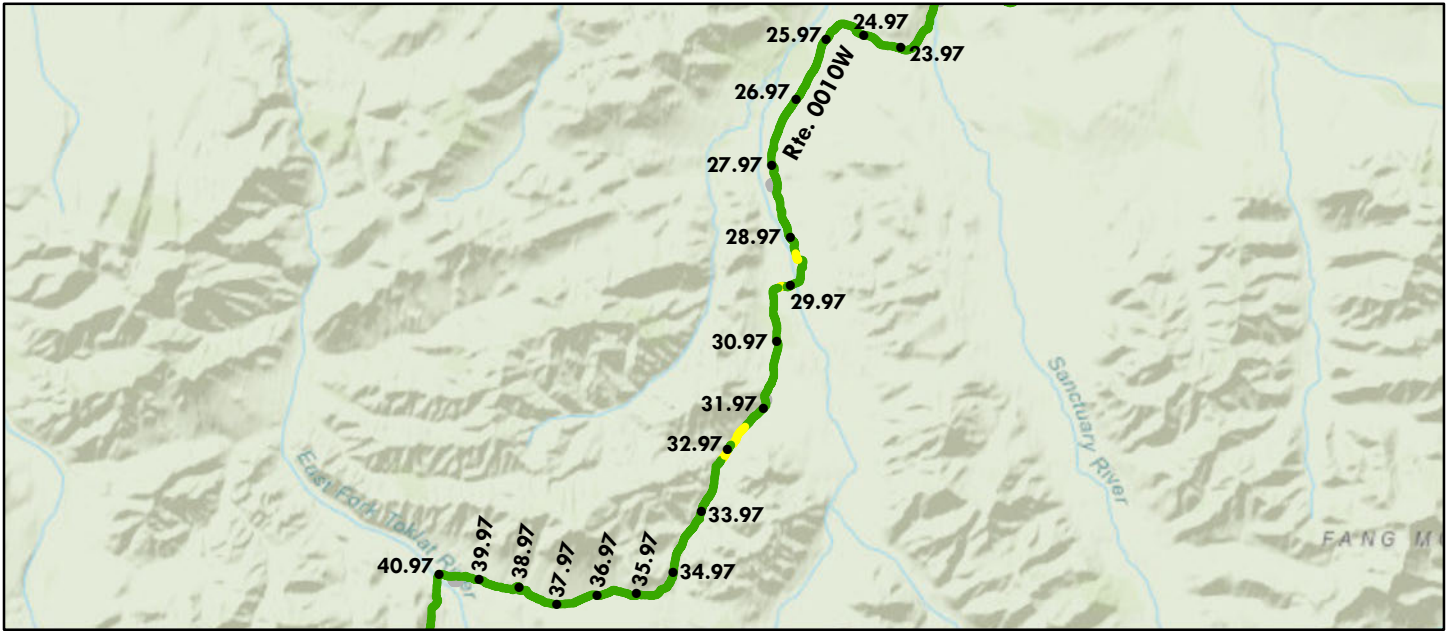
Condition Summary Table for DENA-0010W

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
14.97	15.97	1.00	2	12.5	25.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
15.97	16.97	1.00	2	12.5	25.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
16.97	17.97	1.00	2	12.5	25.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
17.97	18.97	1.00	2	12.5	25.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
18.97	19.97	1.00	2	12.5	25.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
19.97	20.97	1.00	2	12.5	25.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
20.97	21.97	1.00	2	12.5	25.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
21.97	22.97	1.00	2	12.5	25.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
22.97	23.97	1.00	2	12.5	25.0	Routine Maintenance	\$10,000	4	Low	Low	Med	High
23.97	24.97	1.00	2	12.5	25.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med

Denali National Park and Preserve

ROUTE 0010W: DENALI PARK ROAD - WEST

Manual Rating



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

Route Condition Legend



See Appendix for definitions and formulas

Inspection Date: 7/11/2019 Unpaved Length (Miles): 77.59 Surface Type: GRAVEL

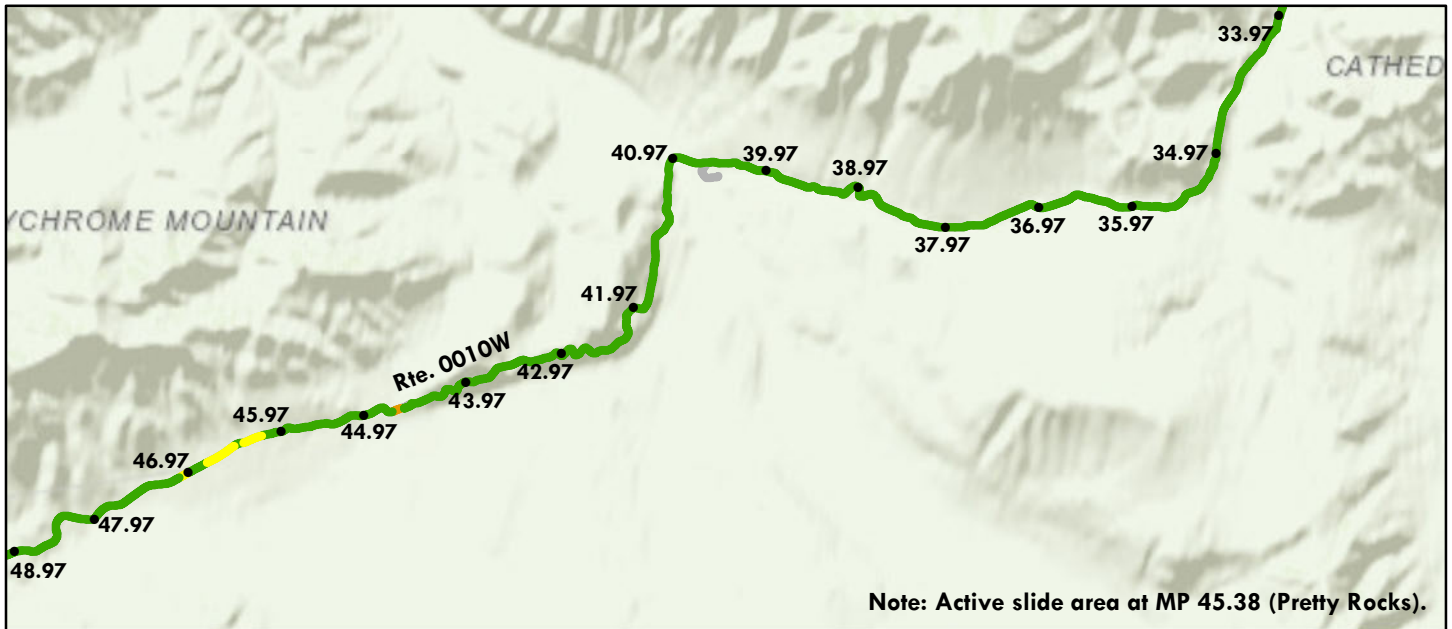
Condition Summary Table for DENA-0010W

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
24.97	25.97	1.00	2	12.5	25.0	Routine Maintenance	\$10,000	4	Low	Med	Med	Med
25.97	26.97	1.00	2	12.5	25.0	Routine Maintenance	\$10,000	4	Low	Med	Med	Med
26.97	27.97	1.00	2	12.5	25.0	Routine Maintenance	\$10,000	4	Low	Med	Med	Med
27.97	28.97	1.00	2	12.5	25.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
28.97	29.97	1.00	2	12.5	25.0	Routine Maintenance	\$10,000	4	Low	Low	Med	High
29.97	30.97	1.00	2	10.8	21.6	Routine Maintenance	\$10,000	4	Low	Low	Med	High
30.97	31.97	1.00	2	10.0	20.0	Routine Maintenance	\$10,000	4	Med	Low	Med	Med
31.97	32.97	1.00	2	10.0	20.0	Routine Maintenance	\$10,000	4	Low	Med	Med	Med
32.97	33.97	1.00	2	10.0	20.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
33.97	34.97	1.00	2	10.0	20.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med

Denali National Park and Preserve

ROUTE 0010W: DENALI PARK ROAD - WEST

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/11/2019		Unpaved Length (Miles): 77.59		Surface Type: GRAVEL	

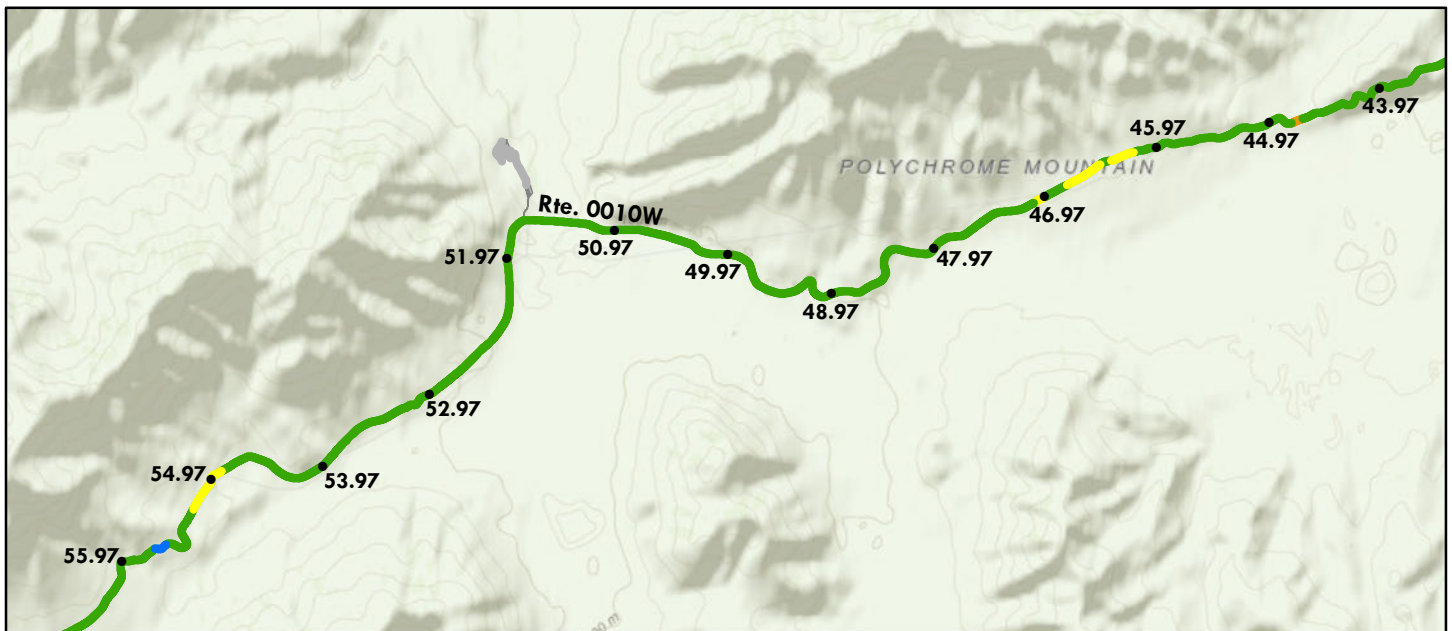
Condition Summary Table for DENA-0010W

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
34.97	35.97	1.00	2	10.0	20.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
35.97	36.97	1.00	2	10.0	20.0	Routine Maintenance	\$10,000	4	Med	Low	Med	Med
36.97	37.97	1.00	2	10.0	20.0	Routine Maintenance	\$10,000	4	Low	Med	Med	Med
37.97	38.97	1.00	2	10.0	20.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
38.97	39.97	1.00	2	10.0	20.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
39.97	40.97	1.00	2	10.0	20.0	Routine Maintenance	\$10,000	4	Low	Med	Med	Med
40.97	41.97	1.00	2	9.1	18.2	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
41.97	42.97	1.00	2	8.2	16.4	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
42.97	43.97	1.00	2	8.6	17.2	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
43.97	44.97	1.00	2	9.0	18.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med

Denali National Park and Preserve

ROUTE 0010W: DENALI PARK ROAD - WEST

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/11/2019		Unpaved Length (Miles): 77.59		Surface Type: GRAVEL	

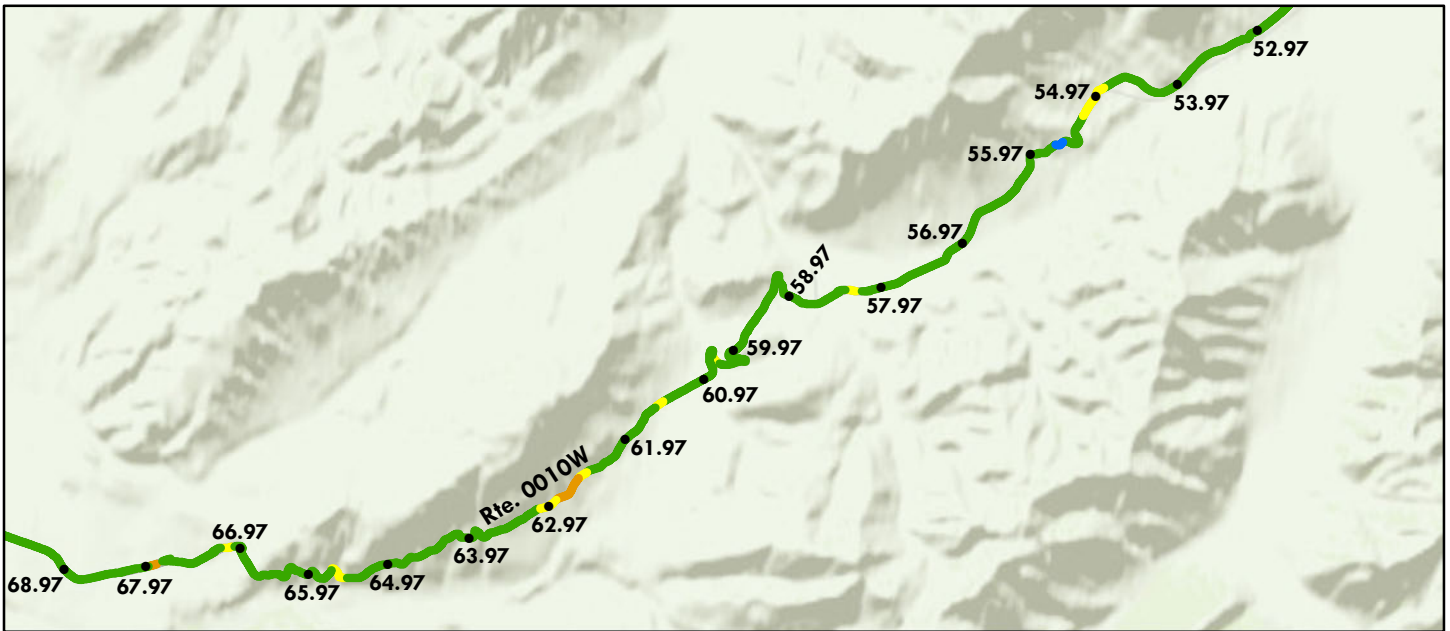
Condition Summary Table for DENA-0010W

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
44.97	45.97	1.00	2	9.0	18.0	Routine Maintenance	\$10,000	4	Low	Med	Med	Med
45.97	46.97	1.00	2	9.0	18.0	Light Rehabilitation	\$100,000	3	Low	Med	Med	High
46.97	47.97	1.00	2	9.0	18.0	Routine Maintenance	\$10,000	4	Low	Med	Med	Med
47.97	48.97	1.00	2	9.0	18.0	Routine Maintenance	\$10,000	4	Low	Med	Med	Med
48.97	49.97	1.00	2	9.0	18.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
49.97	50.97	1.00	2	9.0	18.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
50.97	51.97	1.00	2	10.0	20.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
51.97	52.97	1.00	2	14.0	28.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
52.97	53.97	1.00	2	14.0	28.0	Routine Maintenance	\$10,000	4	Low	Med	Med	Med
53.97	54.97	1.00	2	14.0	28.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med

Denali National Park and Preserve

ROUTE 0010W: DENALI PARK ROAD - WEST

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/11/2019		Unpaved Length (Miles): 77.59		Surface Type: GRAVEL	

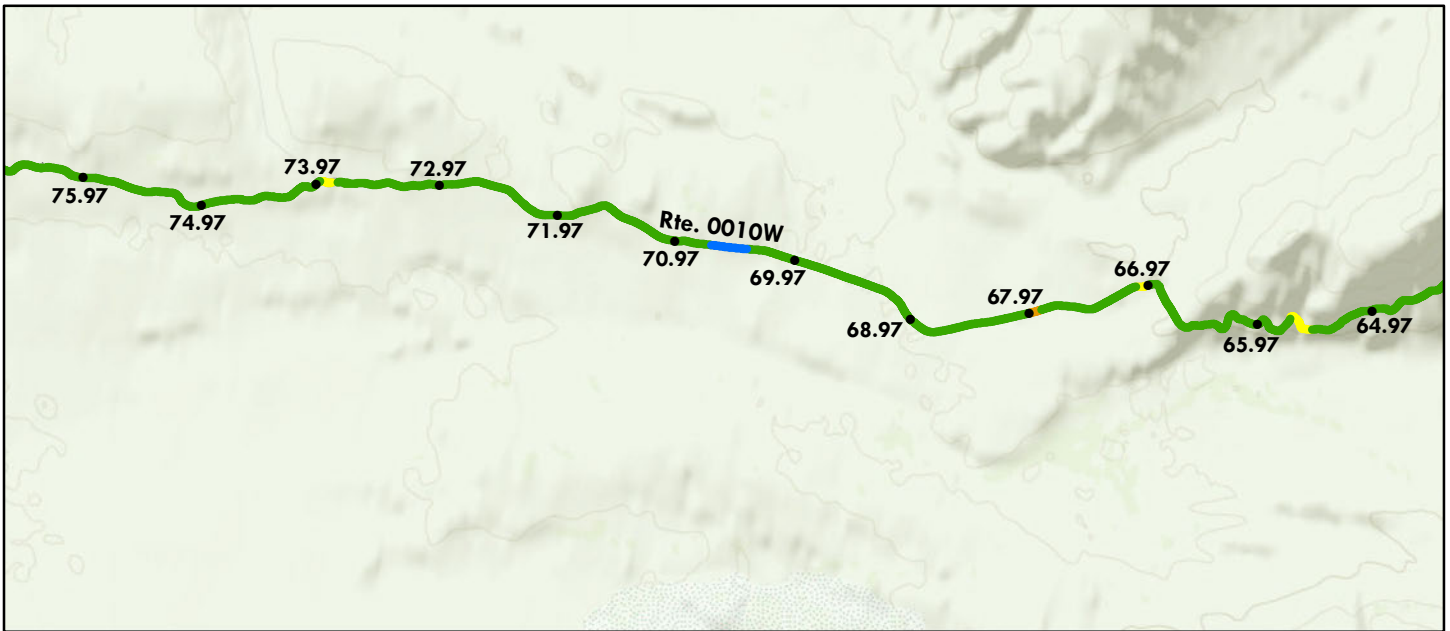
Condition Summary Table for DENA-0010W

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
54.97	55.97	1.00	2	14.0	28.0	Routine Maintenance	\$10,000	4	Low	Med	Med	Med
55.97	56.97	1.00	2	14.0	28.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
56.97	57.97	1.00	2	14.0	28.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
57.97	58.97	1.00	2	14.0	28.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
58.97	59.97	1.00	2	14.0	28.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
59.97	60.97	1.00	2	14.0	28.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
60.97	61.97	1.00	2	14.0	28.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
61.97	62.97	1.00	2	14.0	28.0	Heavy Rehabilitation	\$160,000	2	Med	Med	Med	High
62.97	63.97	1.00	2	14.0	28.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
63.97	64.97	1.00	2	8.6	17.2	Routine Maintenance	\$10,000	4	Low	Low	Med	Med

Denali National Park and Preserve

ROUTE 0010W: DENALI PARK ROAD - WEST

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/11/2019		Unpaved Length (Miles): 77.59		Surface Type: GRAVEL	

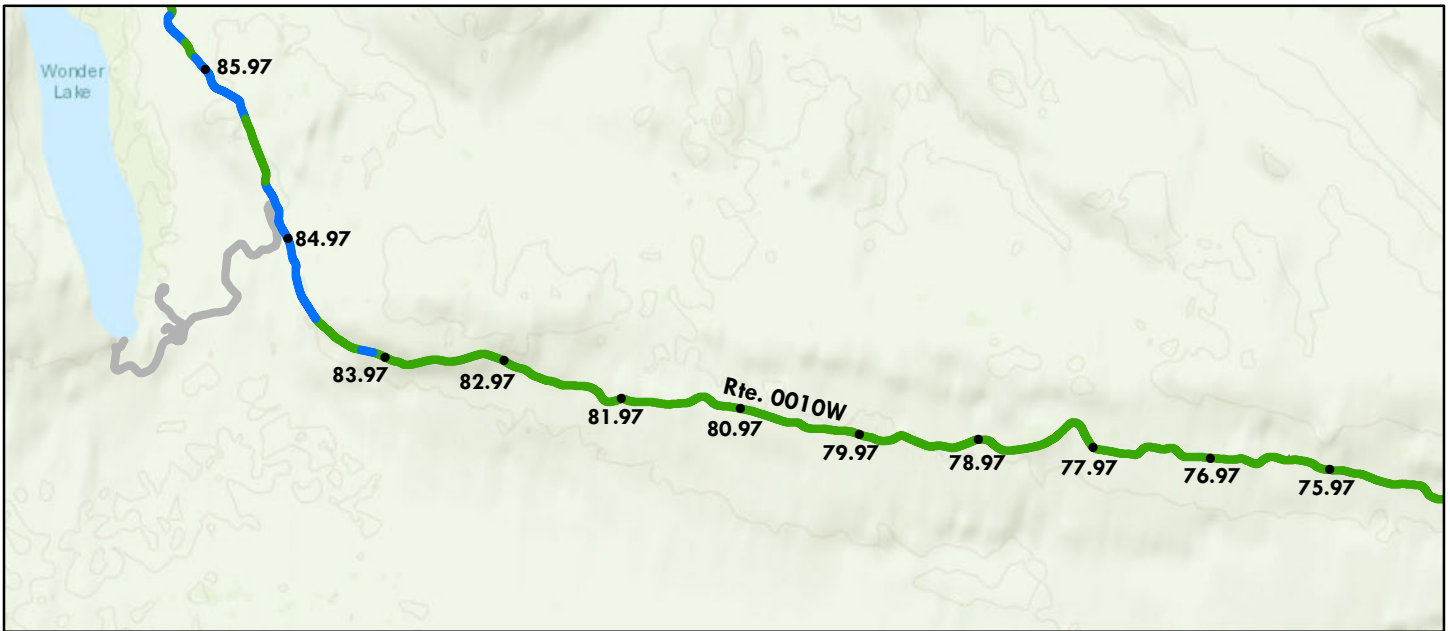
Condition Summary Table for DENA-0010W

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
64.97	65.97	1.00	2	8.0	16.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
65.97	66.97	1.00	2	8.0	16.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
66.97	67.97	1.00	2	8.0	16.0	Routine Maintenance	\$10,000	4	Low	Low	Med	High
67.97	68.97	1.00	2	8.0	16.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
68.97	69.97	1.00	2	8.0	16.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
69.97	70.97	1.00	2	8.0	16.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
70.97	71.97	1.00	2	8.0	16.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
71.97	72.97	1.00	2	8.0	16.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
72.97	73.97	1.00	2	8.0	16.0	Routine Maintenance	\$10,000	4	Low	Low	Med	High
73.97	74.97	1.00	2	8.0	16.0	Routine Maintenance	\$10,000	4	Low	Low	Med	High

Denali National Park and Preserve

ROUTE 0010W: DENALI PARK ROAD - WEST

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/11/2019		Unpaved Length (Miles): 77.59		Surface Type: GRAVEL	

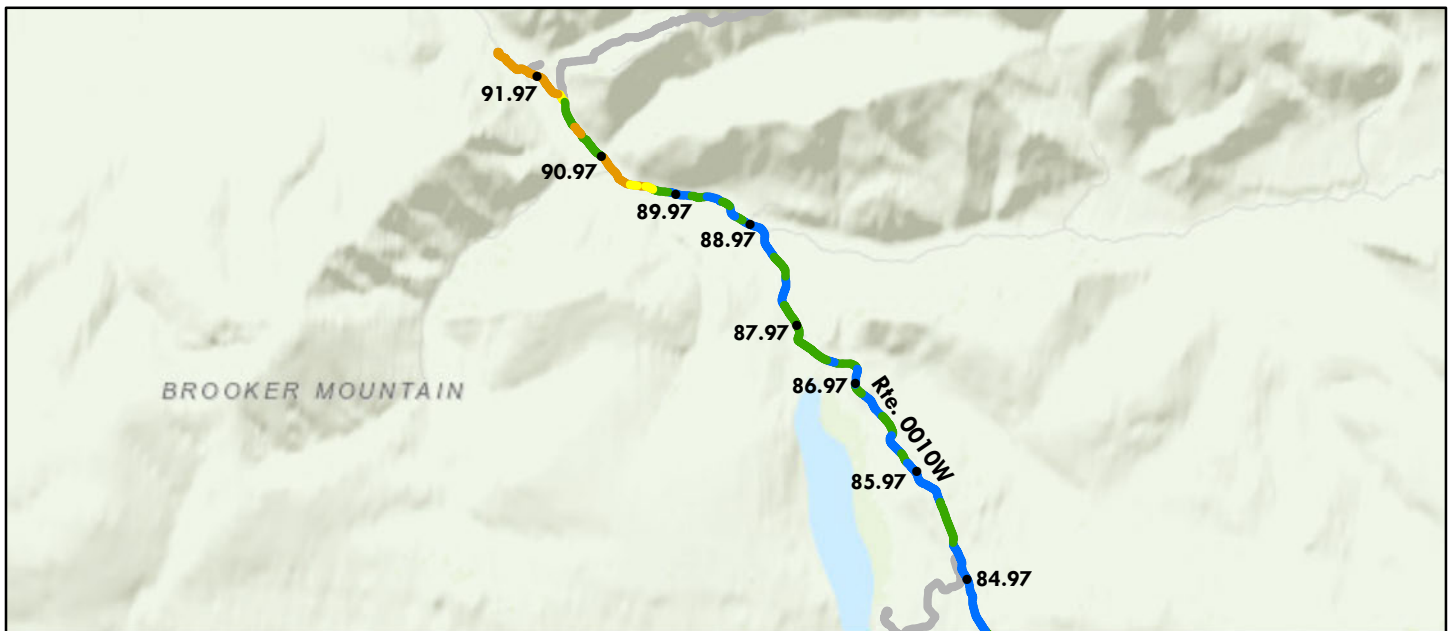
Condition Summary Table for DENA-0010W

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
74.97	75.97	1.00	2	8.0	16.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
75.97	76.97	1.00	2	8.0	16.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
76.97	77.97	1.00	2	8.0	16.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
77.97	78.97	1.00	2	8.0	16.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
78.97	79.97	1.00	2	8.0	16.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
79.97	80.97	1.00	2	8.0	16.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
80.97	81.97	1.00	2	8.0	16.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
81.97	82.97	1.00	2	8.0	16.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
82.97	83.97	1.00	2	8.0	16.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
83.97	84.97	1.00	2	8.0	16.0	Limited Local Maintenance	\$0	5	Low	Low	Low	Med

Denali National Park and Preserve

ROUTE 0010W: DENALI PARK ROAD - WEST

Manual Rating



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

Route Condition Legend



See Appendix for definitions and formulas

Inspection Date: 7/11/2019 Unpaved Length (Miles): 77.59 Surface Type: GRAVEL

Condition Summary Table for DENA-0010W

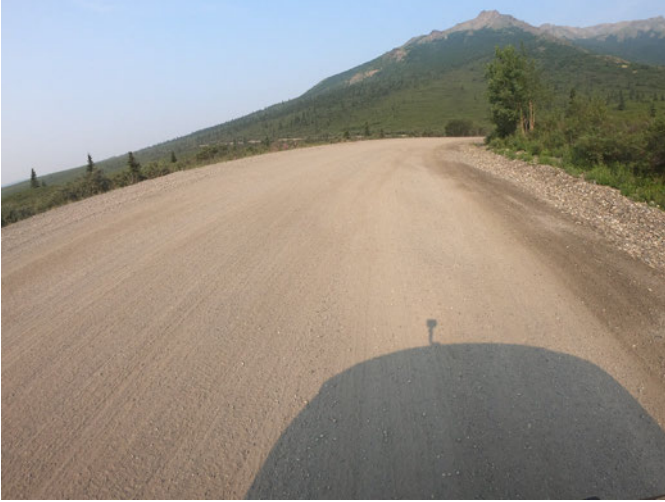
Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
84.97	85.97	1.00	2	8.0	16.0	Limited Local Maintenance	\$0	5	Low	Low	Low	Med
85.97	86.97	1.00	2	8.0	16.0	Limited Local Maintenance	\$0	5	Low	Low	Low	Med
86.97	87.97	1.00	2	8.0	16.0	Routine Maintenance	\$10,000	4	Low	Med	Low	Med
87.97	88.97	1.00	2	8.0	16.0	Routine Maintenance	\$10,000	4	Low	Med	Low	Med
88.97	89.97	1.00	2	8.0	16.0	Limited Local Maintenance	\$0	5	Low	Low	Low	Med
89.97	90.97	1.00	2	8.0	16.0	Heavy Rehabilitation	\$160,000	2	Med	Med	Med	Med
90.97	91.97	1.00	2	8.0	16.0	Heavy Rehabilitation	\$160,000	2	Med	Med	Med	Med
91.97	92.56	0.59	2	8.0	16.0	Heavy Rehabilitation	\$93,760	2	Med	Med	Med	Med

Route Level Data: 92.56 2 10.3 20.7 Routine Maintenance \$1,363,760 4 Low Low Med Med

Denali National Park and Preserve

ROUTE 0010W: DENALI PARK ROAD - WEST

Condition Photos



DENA_0010W_14.987



DENA_0010W_17.021



DENA_0010W_18.977



DENA_0010W_21.002



DENA_0010W_22.972



DENA_0010W_24.994

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ROUTE 0010W: DENALI PARK ROAD - WEST

Condition Photos



DENA_0010W_27.026



DENA_0010W_29.042



DENA_0010W_31.128



DENA_0010W_33.211



DENA_0010W_35.251



DENA_0010W_37.252

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ROUTE 0010W: DENALI PARK ROAD - WEST

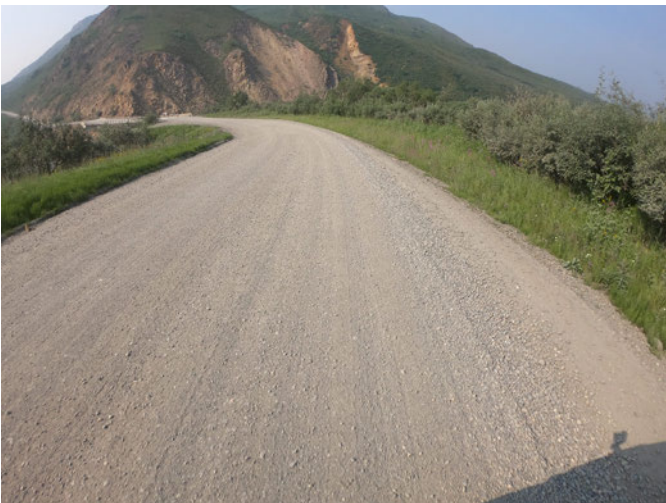
Condition Photos



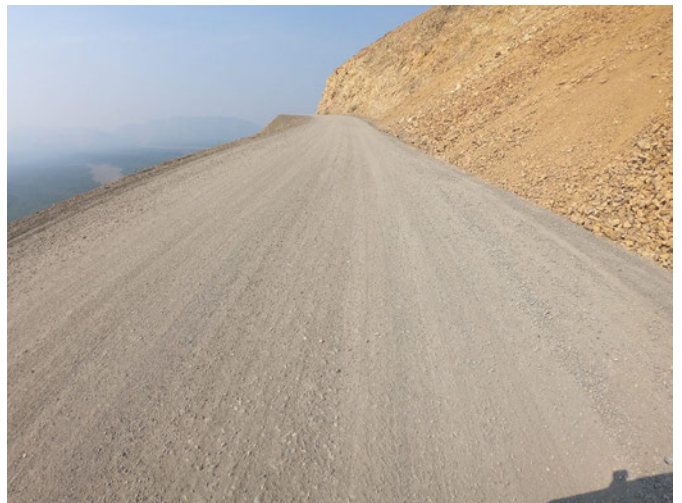
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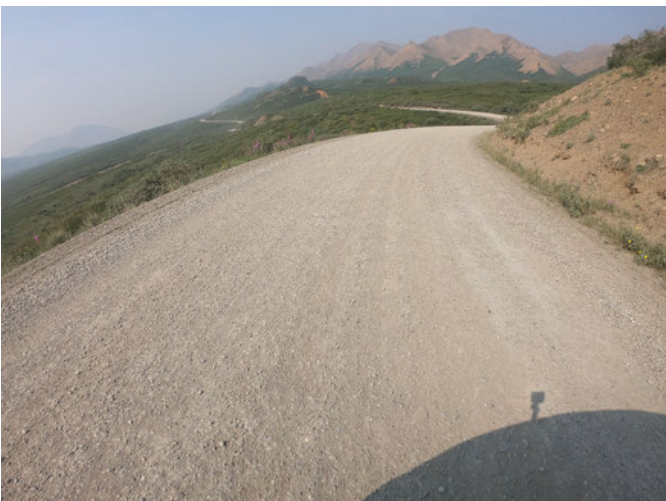
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DENA_0010W_43.276



DENA_0010W_45.272



DENA_0010W_47.389



DENA_0010W_49.416

Denali National Park and Preserve

ROUTE 0010W: DENALI PARK ROAD - WEST

Condition Photos



DENA_0010W_51.483



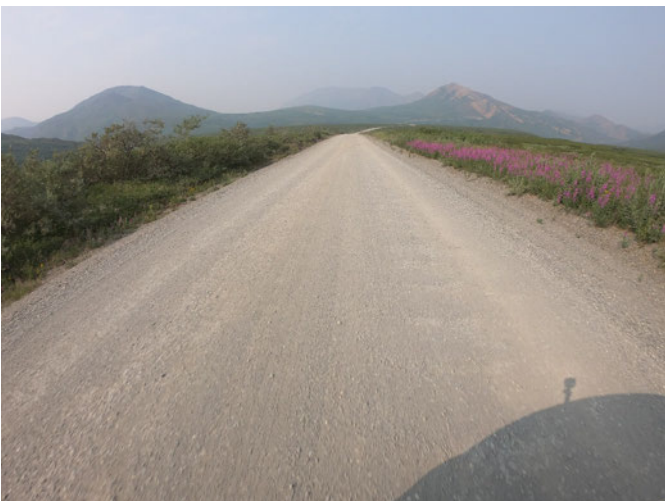
DENA_0010W_53.593



DENA_0010W_55.744



DENA_0010W_57.8



DENA_0010W_59.917



DENA_0010W_61.985

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ROUTE 0010W: DENALI PARK ROAD - WEST

Condition Photos



DENA_0010W_64.111



DENA_0010W_66.191



DENA_0010W_68.376



DENA_0010W_70.511



DENA_0010W_72.662



DENA_0010W_74.721

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ROUTE 0010W: DENALI PARK ROAD - WEST

Condition Photos



DENA_0010W_76.821



DENA_0010W_78.898



DENA_0010W_81.116



DENA_0010W_83.116



DENA_0010W_85.062



DENA_0010W_87.062

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ROUTE 0010W: DENALI PARK ROAD - WEST

Condition Photos



DENA_0010W_88.159



DENA_0010W_89.158



DENA_0010W_90.003



DENA_0010W_90.912



DENA_0010W_91.338

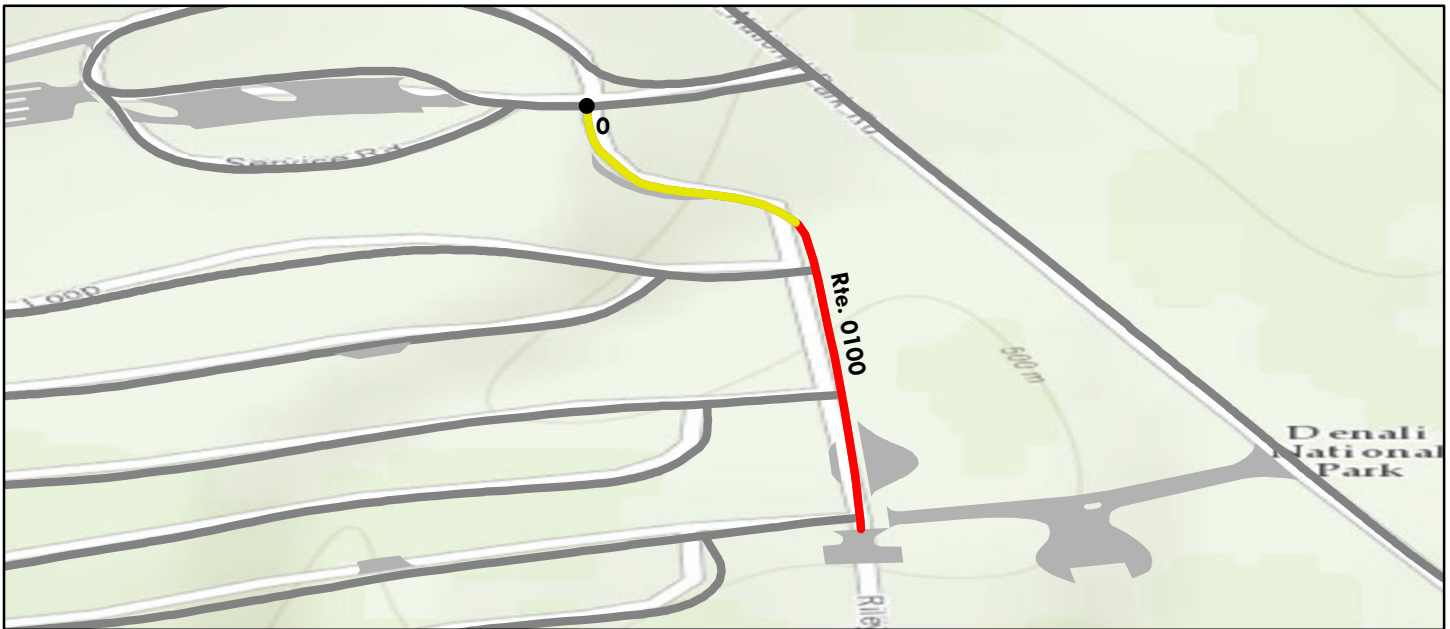


DENA_0010W_92.520

Denali National Park and Preserve

ROUTE 0100: RILEY CREEK CAMPGROUND ACCESS ROAD

Data Collection Vehicle (DCV) Rating



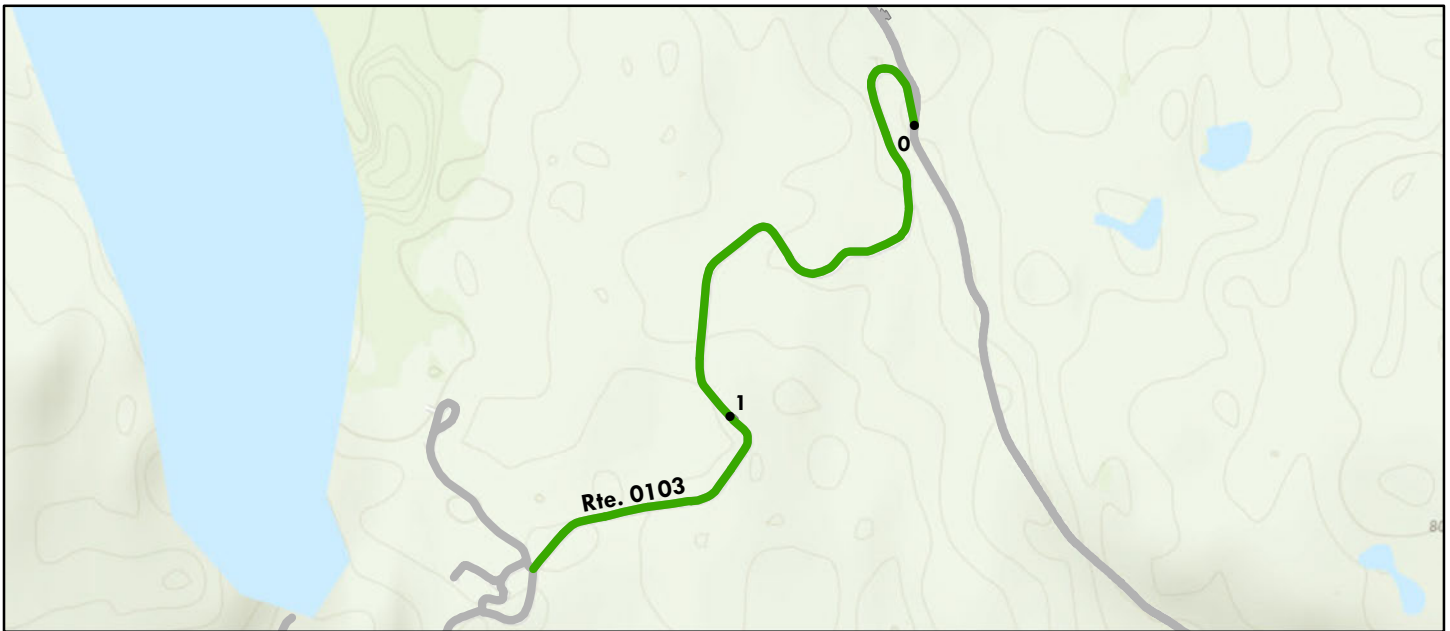
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

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: 7/10/2019	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)	43	43				
Surface Condition Rating (SCR)	43	43				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	43	43				
Alligator Crack Index	100	100				
Longitudinal Crack Index	43	43				
Transverse Cracking Index	66	66				
Patching Index	100	100				
Rutting Index	92	92				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	36.7	36.7				
Lane Width (ft)	14.3	14.3				

Denali National Park and Preserve

ROUTE 0103: WONDER LAKE CAMPGROUND ACCESS ROAD

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/10/2019		Unpaved Length (Miles): 1.58		Surface Type: GRAVEL	

Condition Summary Table for DENA-0103

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
0.00	1.00	1.00	2	8.0	16.0	Routine Maintenance	\$10,000	4	Low	Low	Med	Med
1.00	1.58	0.58	2	8.0	16.0	Routine Maintenance	\$5,770	4	Low	Med	Med	Med
Route Level Data:		1.58	2	8.0	16.0	Routine Maintenance	\$15,770	4	Low	Low	Med	Med

Denali National Park and Preserve

ROUTE 0103: WONDER LAKE CAMPGROUND ACCESS ROAD

Condition Photos



DENA_0103_0.072



DENA_0103_0.344



DENA_0103_0.616



DENA_0103_0.902



DENA_0103_1.195

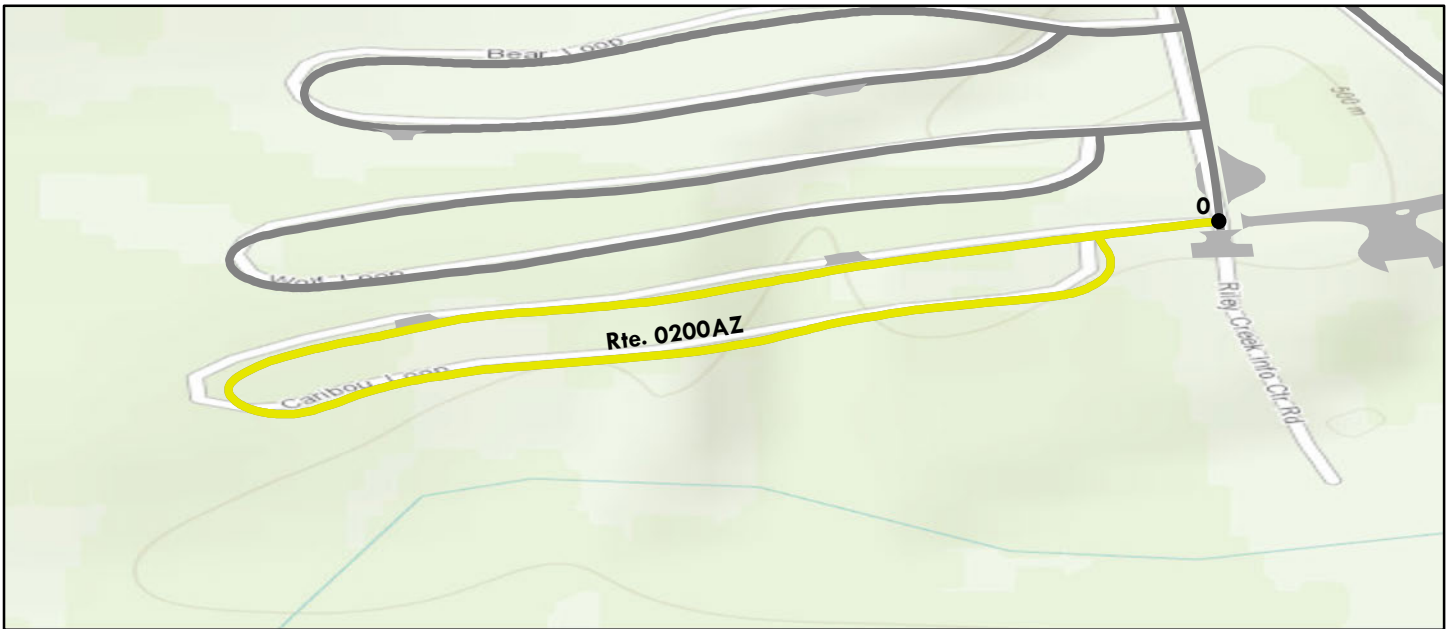


DENA_0103_1.472

Denali National Park and Preserve

ROUTE 0200AZ: RILEY CREEK CAMPGROUND CARIBOU LOOP (SITES 93-151)

Subcomponent of Route DENA-0200ZZ
 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

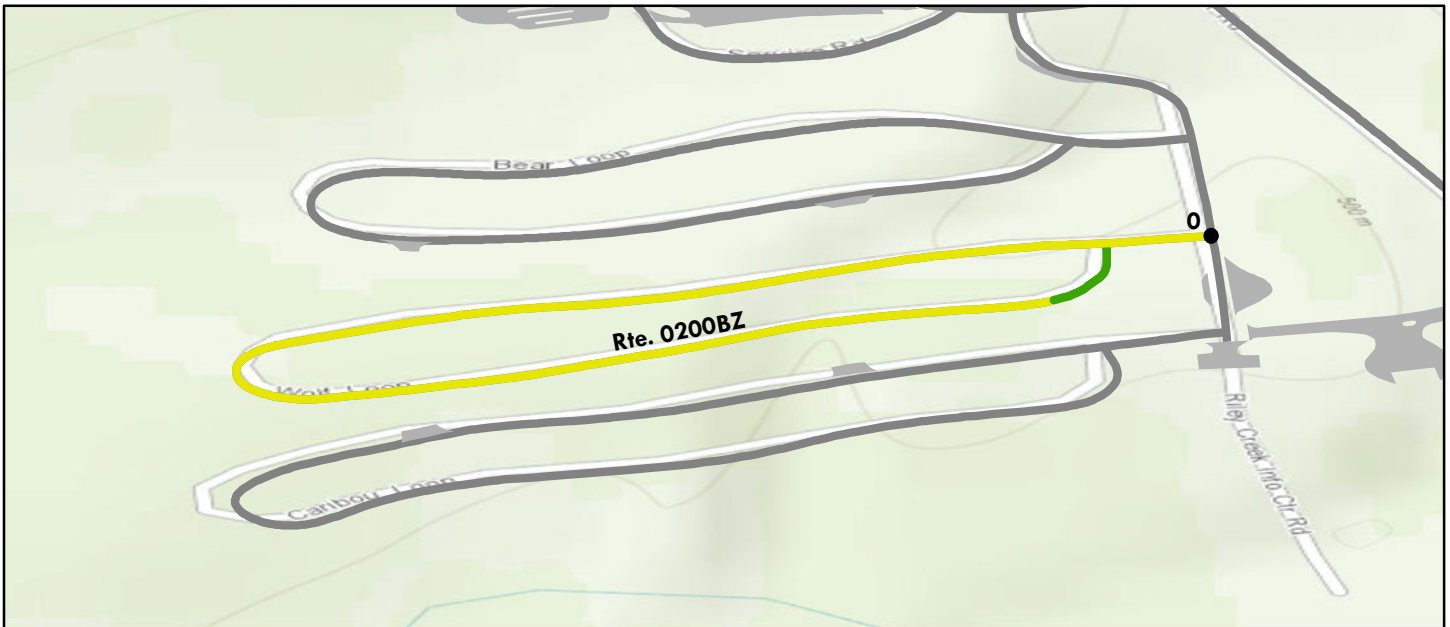
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 7/10/2019	Beginning Section MP	0				
Paved Length (Miles): 0.55	Section Length (MI)	0.55				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	71	71				
Surface Condition Rating (SCR)	71	71				
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	71	71				
Patching Index	99	99				
Rutting Index	85	85				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	14.1	14.1				
Lane Width (ft)	13.1	13.1				

Denali National Park and Preserve

ROUTE 0200BZ: RILEY CREEK CAMPGROUND WOLF LOOP (SITES 42-92)

Subcomponent of Route DENA-0200ZZ
 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

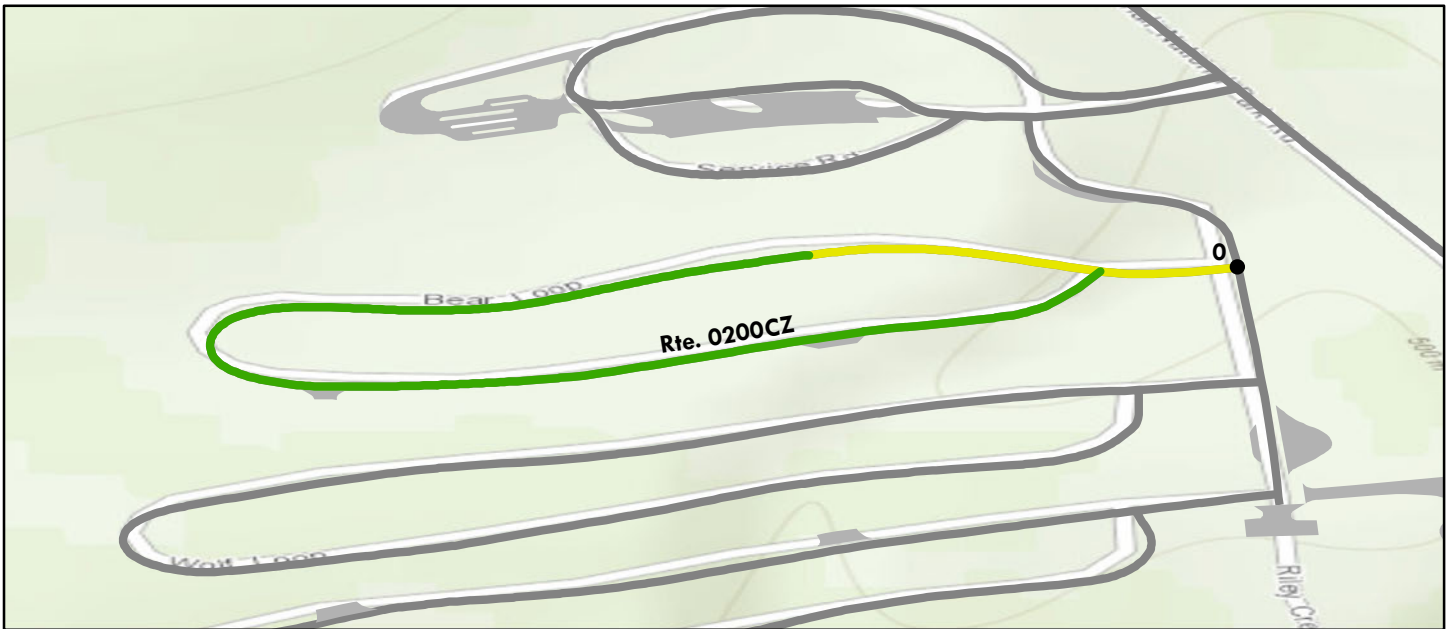
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 7/10/2019	Beginning Section MP	0				
Paved Length (Miles): 0.52	Section Length (MI)	0.52				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	84	84				
Surface Condition Rating (SCR)	84	84				
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	84	84				
Patching Index	99	99				
Rutting Index	84	84				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	13.7	13.7				
Lane Width (ft)	12.5	12.5				

Denali National Park and Preserve

ROUTE 0200CZ: RILEY CREEK CAMPGROUND BEAR LOOP (SITES 2-41)

Subcomponent of Route DENA-0200ZZ
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

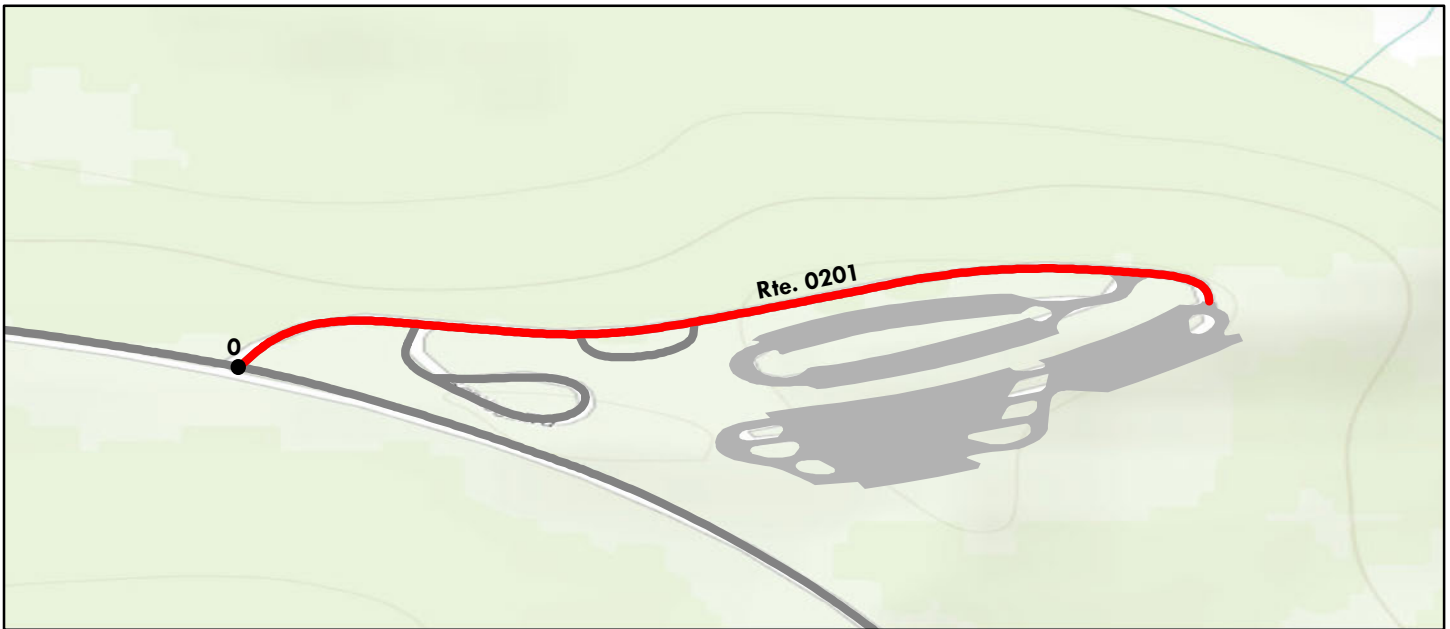
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 7/10/2019	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)	89	89				
Surface Condition Rating (SCR)	89	89				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	92	92				
Alligator Crack Index	100	100				
Longitudinal Crack Index	92	92				
Transverse Cracking Index	89	89				
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)	14.9	14.9				
Lane Width (ft)	13.4	13.4				

Denali National Park and Preserve

ROUTE 0201: WILDERNESS ACCESS CENTER (BUS DEPOT) 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

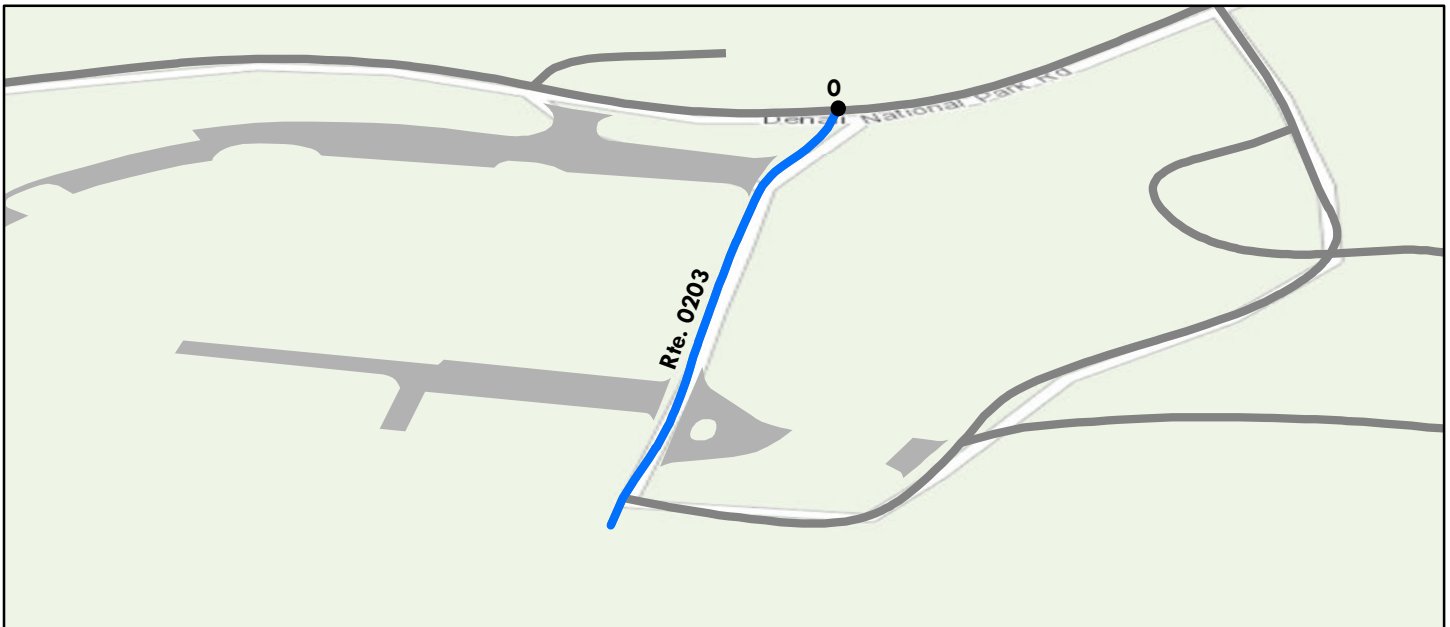
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 7/10/2019	Beginning Section MP	0				
Paved Length (Miles): 0.29	Section Length (MI)	0.29				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	37	37				
Surface Condition Rating (SCR)	37	37				
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	37	37				
Patching Index	99	99				
Rutting Index	96	96				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	22.5	22.5				
Lane Width (ft)	11.1	11.1				

Denali National Park and Preserve

ROUTE 0203: HEADQUARTERS 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: 7/10/2019	Beginning Section MP	0				
Paved Length (Miles): 0.12	Section Length (MI)	0.12				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	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	96	96				
Patching Index	97	97				
Rutting Index	97	97				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	21.3	21.3				
Lane Width (ft)	10.6	10.6				

Denali National Park and Preserve

ROUTE 0204AZ: SAVAGE RIVER CAMPGROUND LOOP A

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/12/2019	Unpaved Length (Miles): 0.25			Surface Type: GRAVEL	

Condition Summary Table for DENA-0204AZ

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity	
0.00	0.25	0.25	2	7.5	15.0	Routine Maintenance	\$2,470	4	Low	Med	Med	Med	
Route Level Data:			0.25	2	7.5	15.0	Routine Maintenance	\$2,470	4	Low	Med	Med	Med

Denali National Park and Preserve

ROUTE 0204AZ: SAVAGE RIVER CAMPGROUND LOOP A

Condition Photos



DENA_0204AZ_0.004



DENA_0204AZ_0.023



DENA_0204AZ_0.043



DENA_0204AZ_0.091



DENA_0204AZ_0.141



DENA_0204AZ_0.174

Denali National Park and Preserve

ROUTE 0204BZ: SAVAGE RIVER CAMPGROUND RV LOOP

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/12/2019		Unpaved Length (Miles): 0.27		Surface Type: GRAVEL	

Condition Summary Table for DENA-0204BZ

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
0.00	0.27	0.27	2	7.5	15.0	Routine Maintenance	\$2,650	4	Low	Med	Med	Med
Route Level Data:		0.27	2	7.5	15.0	Routine Maintenance	\$2,650	4	Low	Med	Med	Med

Denali National Park and Preserve

ROUTE 0204BZ: SAVAGE RIVER CAMPGROUND RV LOOP

Condition Photos



DENA_0204BZ_0.002



DENA_0204BZ_0.026



DENA_0204BZ_0.084



DENA_0204BZ_0.137



DENA_0204BZ_0.187

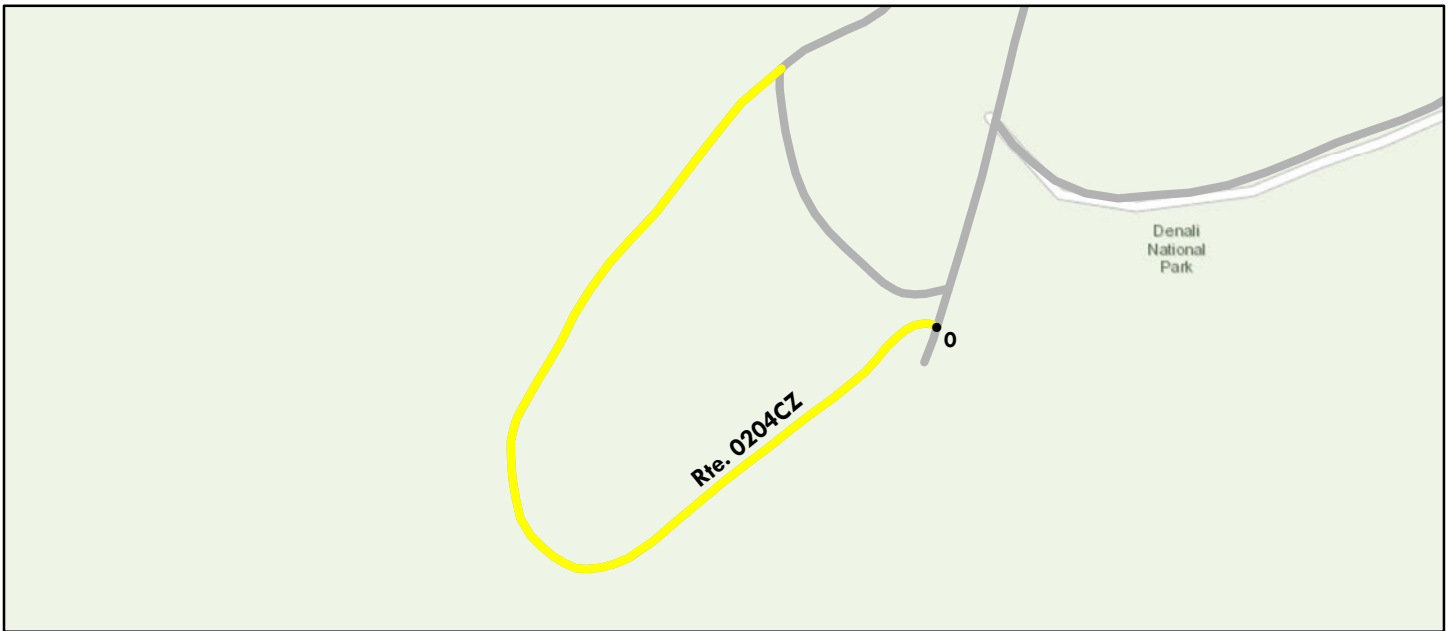


DENA_0204BZ_0.253

Denali National Park and Preserve

ROUTE 0204CZ: SAVAGE RIVER CAMPGROUND A

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/12/2019		Unpaved Length (Miles): 0.25		Surface Type: GRAVEL	

Condition Summary Table for DENA-0204CZ

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity	
0.00	0.25	0.25	1	12.0	12.0	Light Rehabilitation	\$24,600	3	Low	Med	High	Med	
Route Level Data:			0.25	1	12.0	12.0	Light Rehabilitation	\$24,600	3	Low	Med	High	Med

Denali National Park and Preserve

ROUTE 0204CZ: SAVAGE RIVER CAMPGROUND A

Condition Photos



DENA_0204CZ_0.008



DENA_0204CZ_0.019



DENA_0204CZ_0.020



DENA_0204CZ_0.036



DENA_0204CZ_0.115



DENA_0204CZ_0.172

Denali National Park and Preserve

ROUTE 0204Z: SAVAGE RIVER CAMPGROUND ACCESS ROAD

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/12/2019		Unpaved Length (Miles): 0.30		Surface Type: GRAVEL	

Condition Summary Table for DENA-0204Z

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
0.00	0.30	0.30	2	8.5	17.0	Heavy Rehabilitation	\$48,640	2	Med	Med	Med	High
Route Level Data:		0.30	2	8.5	17.0	Heavy Rehabilitation	\$48,640	2	Med	Med	Med	High

Denali National Park and Preserve

ROUTE 0204Z: SAVAGE RIVER CAMPGROUND ACCESS ROAD

Condition Photos



DENA_0204Z_0.011



DENA_0204Z_0.022



DENA_0204Z_0.064



DENA_0204Z_0.080



DENA_0204Z_0.101_



DENA_0204Z_0.139_

Denali National Park and Preserve

ROUTE 0205: SANCTUARY CAMPGROUND ROAD

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/9/2019		Unpaved Length (Miles): 0.16		Surface Type: GRAVEL	

Condition Summary Table for DENA-0205

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
0.00	0.16	0.16	2	7.5	15.0	Routine Maintenance	\$1,610	4	Low	Med	Low	Low
Route Level Data:		0.16	2	7.5	15.0	Routine Maintenance	\$1,610	4	Low	Med	Low	Low

Denali National Park and Preserve

ROUTE 0205: SANCTUARY CAMPGROUND ROAD

Condition Photos



DENA_0205_0.008_1



DENA_0205_0.038



DENA_0205_0.079



DENA_0205_0.105_2



DENA_0205_0.120

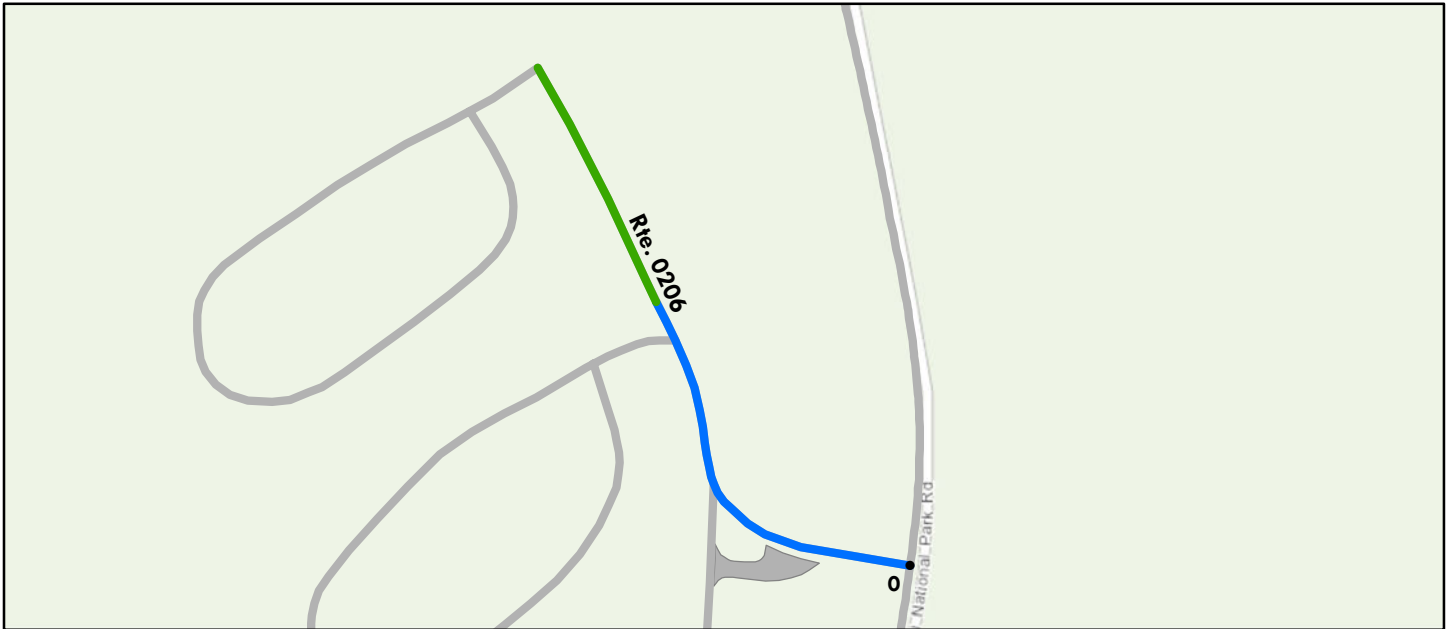


DENA_0205_0.148

Denali National Park and Preserve

ROUTE 0206: TEKLANIKA CAMPGROUND ACCESS ROAD

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/9/2019		Unpaved Length (Miles): 0.15		Surface Type: GRAVEL	

Condition Summary Table for DENA-0206

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
0.00	0.15	0.15	2	7.5	15.0	Routine Maintenance	\$1,520	4	Low	Med	Low	Med
Route Level Data:		0.15	2	7.5	15.0	Routine Maintenance	\$1,520	4	Low	Med	Low	Med

Denali National Park and Preserve

ROUTE 0206: TEKLANIKA CAMPGROUND ACCESS ROAD

Condition Photos



DENA_0206_0.011



DENA_0206_0.027



DENA_0206_0.054



DENA_0206_0.085



DENA_0206_0.120



DENA_0206_0.150

Denali National Park and Preserve

ROUTE 0207: IGLOO CAMPGROUND LOOP

Manual Rating



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

Route Condition Legend



See Appendix for definitions and formulas

Inspection Date: 7/9/2019 Unpaved Length (Miles): 0.09 Surface Type: GRAVEL

Condition Summary Table for DENA-0207

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
0.00	0.09	0.09	2	7.5	15.0	Heavy Rehabilitation	\$14,560	2	Med	Med	Low	High

Route Level Data: 0.09 2 7.5 15.0 Heavy Rehabilitation \$14,560 2 Med Med Low High

Denali National Park and Preserve

ROUTE 0207: IGLOO CAMPGROUND LOOP

Condition Photos



DENA_0207_0.014



DENA_0207_0.026



DENA_0207_0.037



DENA_0207_0.052



DENA_0207_0.072

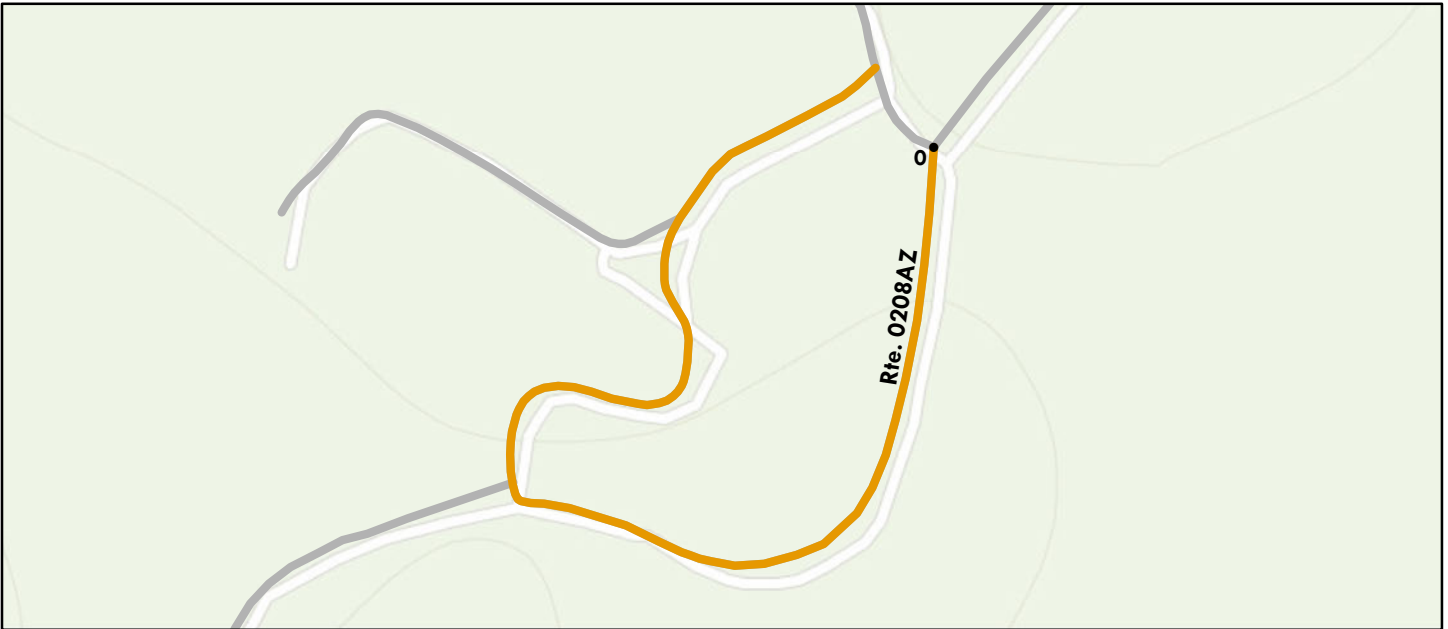


DENA_0207_0.087

Denali National Park and Preserve

ROUTE 0208AZ: WONDER LAKE CAMPGROUND LOOP A

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/10/2019		Unpaved Length (Miles): 0.29		Surface Type: GRAVEL	

Condition Summary Table for DENA-0208AZ

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
0.00	0.29	0.29	2	7.5	15.0	Heavy Rehabilitation	\$46,720	2	Med	Med	Med	Med
Route Level Data:		0.29	2	7.5	15.0	Heavy Rehabilitation	\$46,720	2	Med	Med	Med	Med

Denali National Park and Preserve

ROUTE 0208AZ: WONDER LAKE CAMPGROUND LOOP A

Condition Photos



DENA_0208AZ_0.021



DENA_0208AZ_0.097



DENA_0208AZ_0.134



DENA_0208AZ_0.160



DENA_0208AZ_0.213

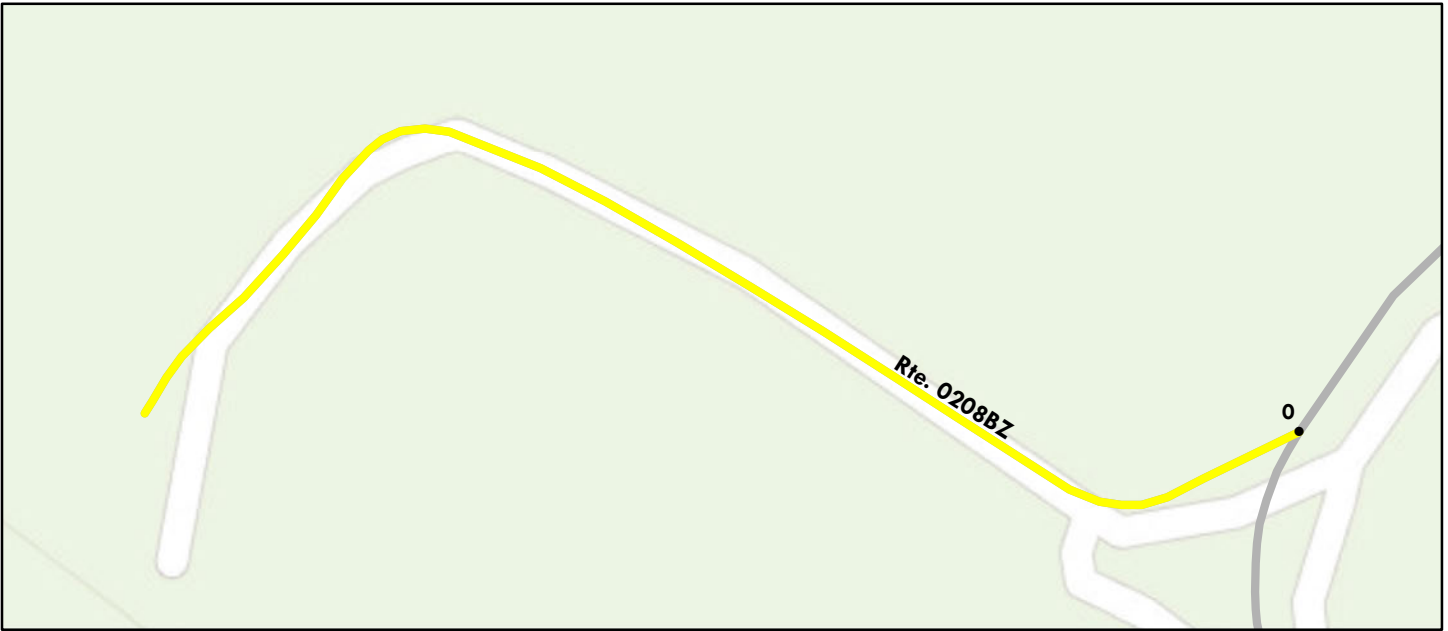


DENA_0208AZ_0.281

Denali National Park and Preserve

ROUTE 0208BZ: WONDER LAKE CAMPGROUND LOOP B

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/10/2019	Unpaved Length (Miles): 0.1			Surface Type: GRAVEL	

Condition Summary Table for DENA-0208BZ

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity	
0.00	0.10	0.10	2	7.5	15.0	Light Rehabilitation	\$9,700	3	Med	Med	Low	Med	
Route Level Data:			0.10	2	7.5	15.0	Light Rehabilitation	\$9,700	3	Med	Med	Low	Med

Denali National Park and Preserve

ROUTE 0208BZ: WONDER LAKE CAMPGROUND LOOP B

Condition Photos



DENA_0208BZ_0.002



DENA_0208BZ_0.011



DENA_0208BZ_0.025



DENA_0208BZ_0.059



DENA_0208BZ_0.082



DENA_0208BZ_0.101

Denali National Park and Preserve

ROUTE 0210AZ: TEKLANIKA CAMPGROUND LOOP A

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/9/2019		Unpaved Length (Miles): 0.22		Surface Type: GRAVEL	

Condition Summary Table for DENA-0210AZ

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
0.00	0.22	0.22	2	7.5	15.0	Light Rehabilitation	\$22,300	3	Med	Low	Low	High
Route Level Data:		0.22	2	7.5	15.0	Light Rehabilitation	\$22,300	3	Med	Low	Low	High

Denali National Park and Preserve

ROUTE 0210AZ: TEKLANIKA CAMPGROUND LOOP A

Condition Photos



DENA_0210AZ_0.025



DENA_0210AZ_0.065



DENA_0210AZ_0.102



DENA_0210AZ_0.133



DENA_0210AZ_0.172

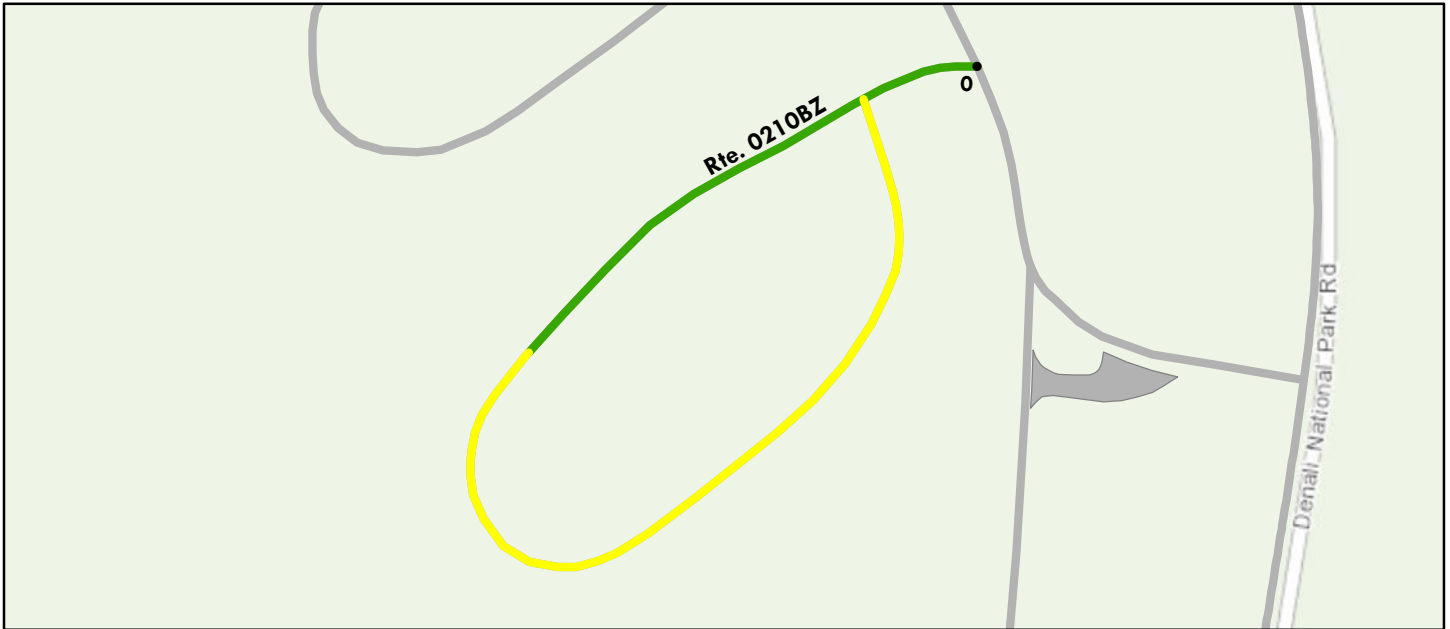


DENA_0210AZ_0.217

Denali National Park and Preserve

ROUTE 0210BZ: TEKLANIKA CAMPGROUND LOOP B

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/9/2019		Unpaved Length (Miles): 0.24		Surface Type: GRAVEL	

Condition Summary Table for DENA-0210BZ

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
0.00	0.24	0.24	2	7.5	15.0	Routine Maintenance	\$2,370	4	Med	Low	Low	Med
Route Level Data:		0.24	2	7.5	15.0	Routine Maintenance	\$2,370	4	Med	Low	Low	Med

Denali National Park and Preserve

ROUTE 0210BZ: TEKLANIKA CAMPGROUND LOOP B

Condition Photos



DENA_0210BZ_0.034



DENA_0210BZ_0.089



DENA_0210BZ_0.121



DENA_0210BZ_0.168



DENA_0210BZ_0.199

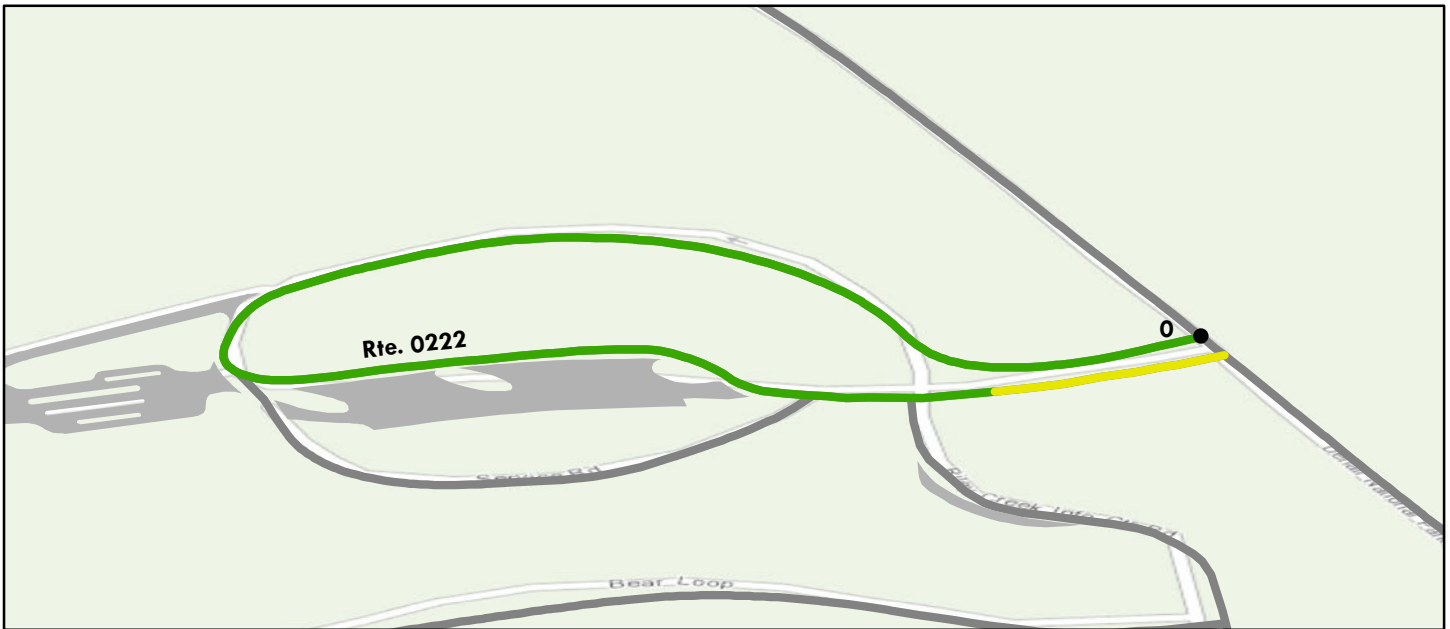


DENA_0210BZ_0.217

Denali National Park and Preserve

ROUTE 0222: MERCANTILE ACCESS ROAD

Data Collection Vehicle (DCV) Rating



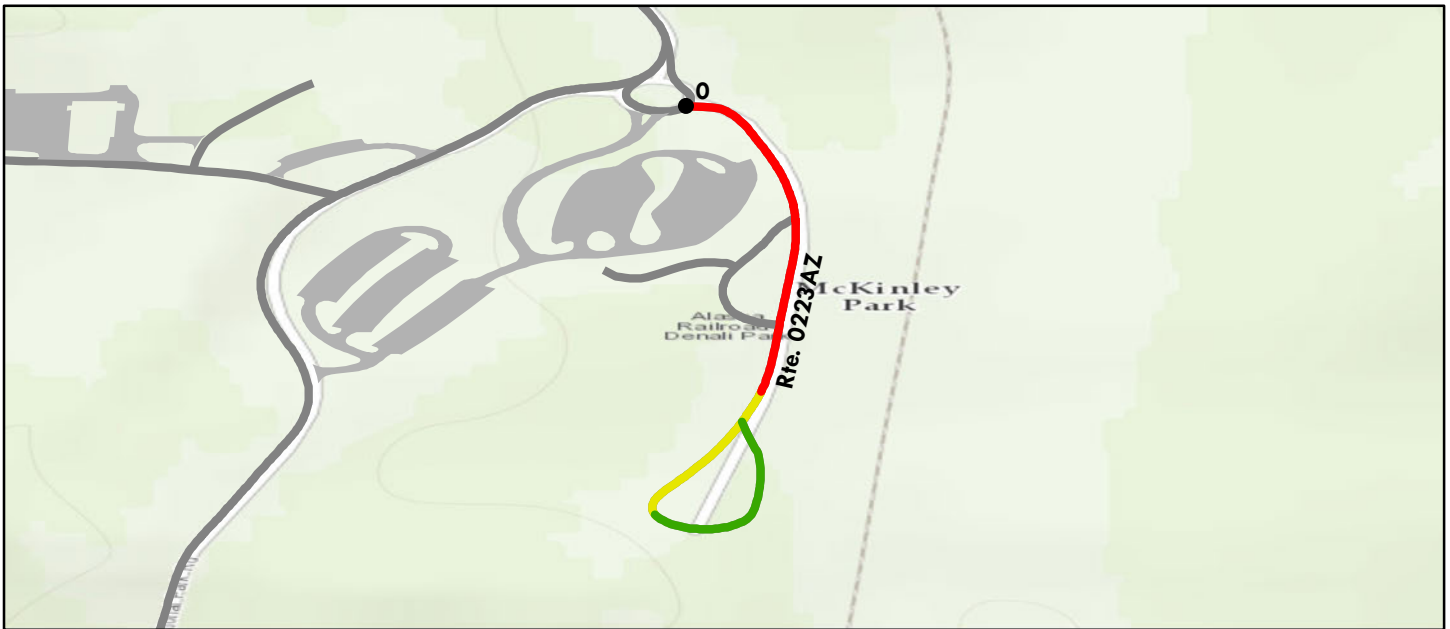
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

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:	7/10/2019	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)		92	92							
Surface Condition Rating (SCR)		92	92							
Roughness Condition Index (RCI)		N/A	N/A							
Distress Index Values										
Structural Crack Index		93	93							
Alligator Crack Index		100	100							
Longitudinal Crack Index		93	93							
Transverse Cracking Index		92	92							
Patching Index		100	100							
Rutting Index		93	93							
International Roughness Index (IRI)		N/A	N/A							
Lane & Width Information										
Number of Lanes		1	1							
Paved Width (ft)		13.7	13.7							
Lane Width (ft)		13.7	13.7							

Denali National Park and Preserve

ROUTE 0223AZ: TRAIN DEPOT ACCESS ROAD

Subcomponent of Route DENA-0223ZZ
Data Collection Vehicle (DCV) Rating



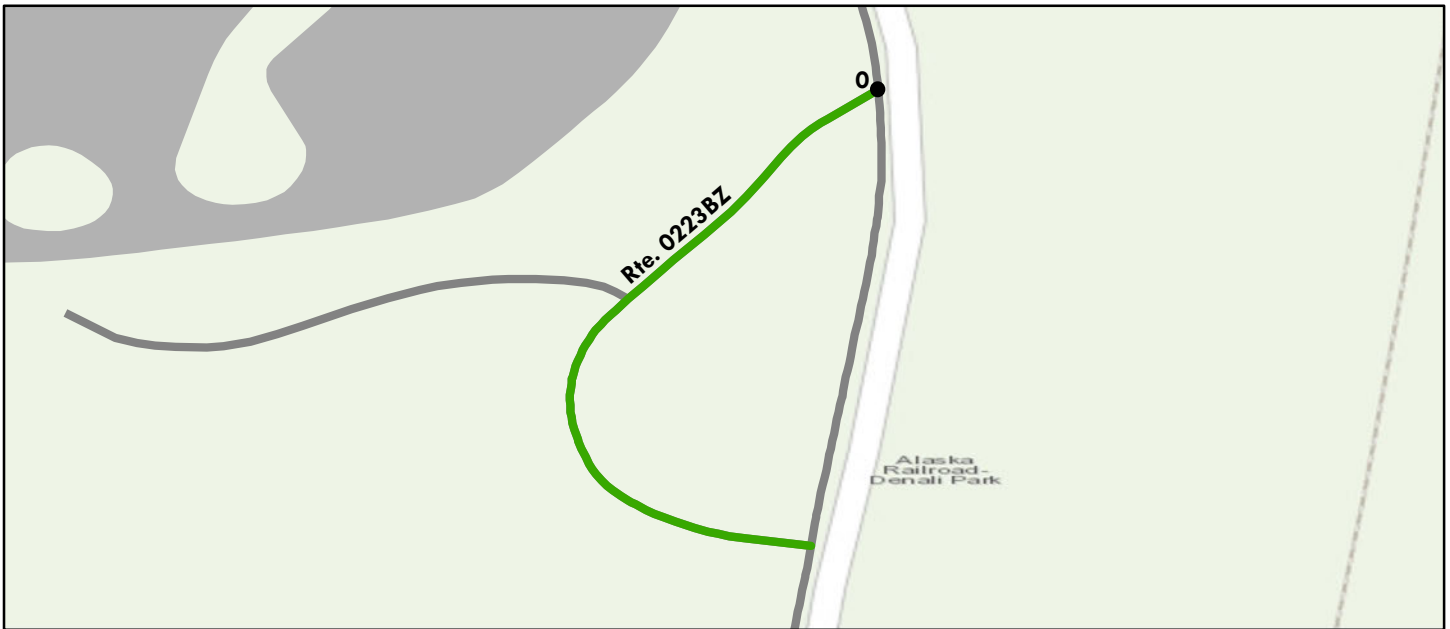
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

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: 7/10/2019	Beginning Section MP	0				
Paved Length (Miles): 0.42	Section Length (MI)	0.42				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	54	54				
Surface Condition Rating (SCR)	54	54				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	85	85				
Alligator Crack Index	100	100				
Longitudinal Crack Index	85	85				
Transverse Cracking Index	54	54				
Patching Index	99	99				
Rutting Index	93	93				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	25	25				
Lane Width (ft)	15.7	15.7				

Denali National Park and Preserve

ROUTE 0223BZ: TRAIN DEPOT BUS DROP OFF ROAD

Subcomponent of Route DENA-0223ZZ
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: 7/10/2019	Beginning Section MP	0				
Paved Length (Miles): 0.09	Section Length (MI)	0.09				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	85	85				
Surface Condition Rating (SCR)	85	85				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	89	89				
Alligator Crack Index	100	100				
Longitudinal Crack Index	89	89				
Transverse Cracking Index	85	85				
Patching Index	99	99				
Rutting Index	94	94				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	24.6	24.6				
Lane Width (ft)	24.6	24.6				

Denali National Park and Preserve

ROUTE 0223CZ: TRAIN DEPOT BACK ACCESS ROAD

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/12/2019	Unpaved Length (Miles): 0.06			Surface Type: GRAVEL	

Condition Summary Table for DENA-0223CZ

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
0.00	0.06	0.06	2	7.5	15.0	Routine Maintenance	\$570	4	Low	Med	Low	Med
Route Level Data:		0.06	2	7.5	15.0	Routine Maintenance	\$570	4	Low	Med	Low	Med

Denali National Park and Preserve

ROUTE 0223CZ: TRAIN DEPOT BACK ACCESS ROAD

Condition Photos



DENA_0223CZ_0.006



DENA_0223CZ_0.016



DENA_0223CZ_0.026



DENA_0223CZ_0.034



DENA_0223CZ_0.043

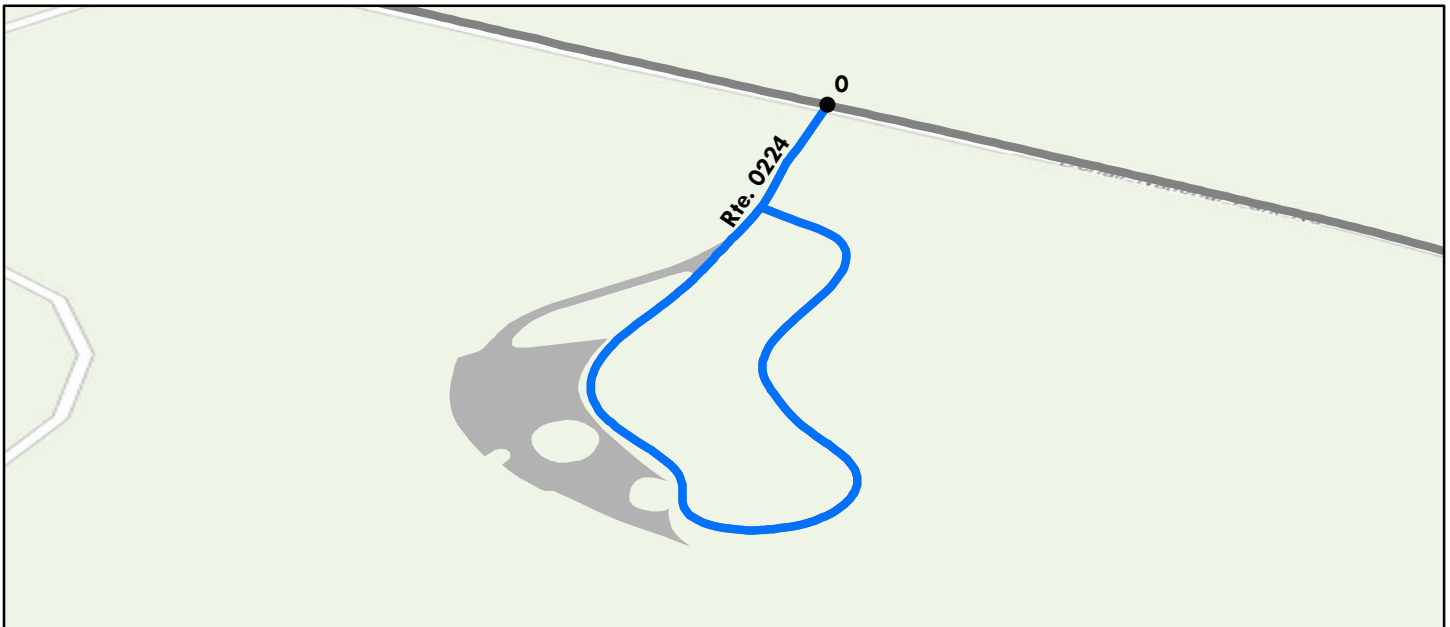


DENA_0223CZ_0.051

Denali National Park and Preserve

ROUTE 0224: MOUNTAIN VISTA 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

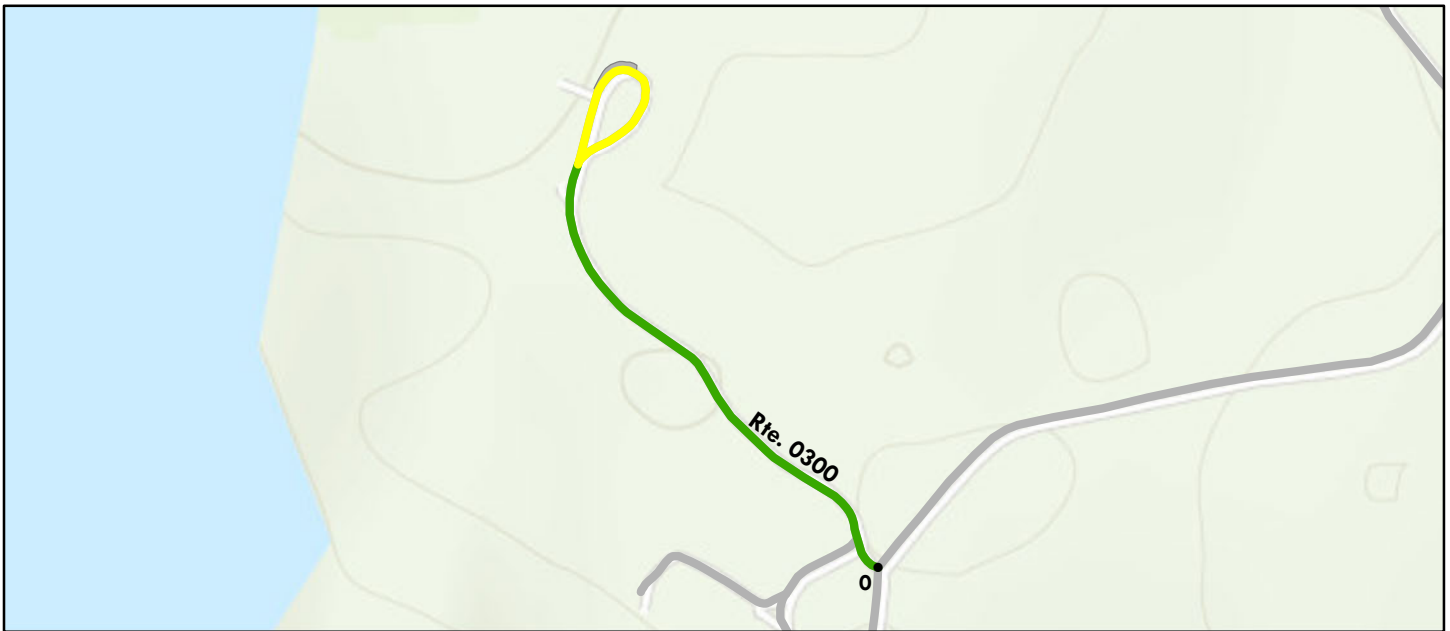
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 7/10/2019	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)	97	97				
Surface Condition Rating (SCR)	97	97				
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	98	98				
Patching Index	100	100				
Rutting Index	97	97				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	16.4	16.4				
Lane Width (ft)	14	14				

Denali National Park and Preserve

ROUTE 0300: WONDER LAKE SHUTTLE SERVICE ROAD

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/10/2019	Unpaved Length (Miles): 0.43		Surface Type: GRAVEL		

Condition Summary Table for DENA-0300

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
0.00	0.43	0.43	2	7.5	15.0	Routine Maintenance	\$4,330	4	Low	Med	Low	Med
Route Level Data:		0.43	2	7.5	15.0	Routine Maintenance	\$4,330	4	Low	Med	Low	Med

Denali National Park and Preserve

ROUTE 0300: WONDER LAKE SHUTTLE SERVICE ROAD

Condition Photos



DENA_0300_0.045



DENA_0300_0.162



DENA_0300_0.222



DENA_0300_0.273



DENA_0300_0.348

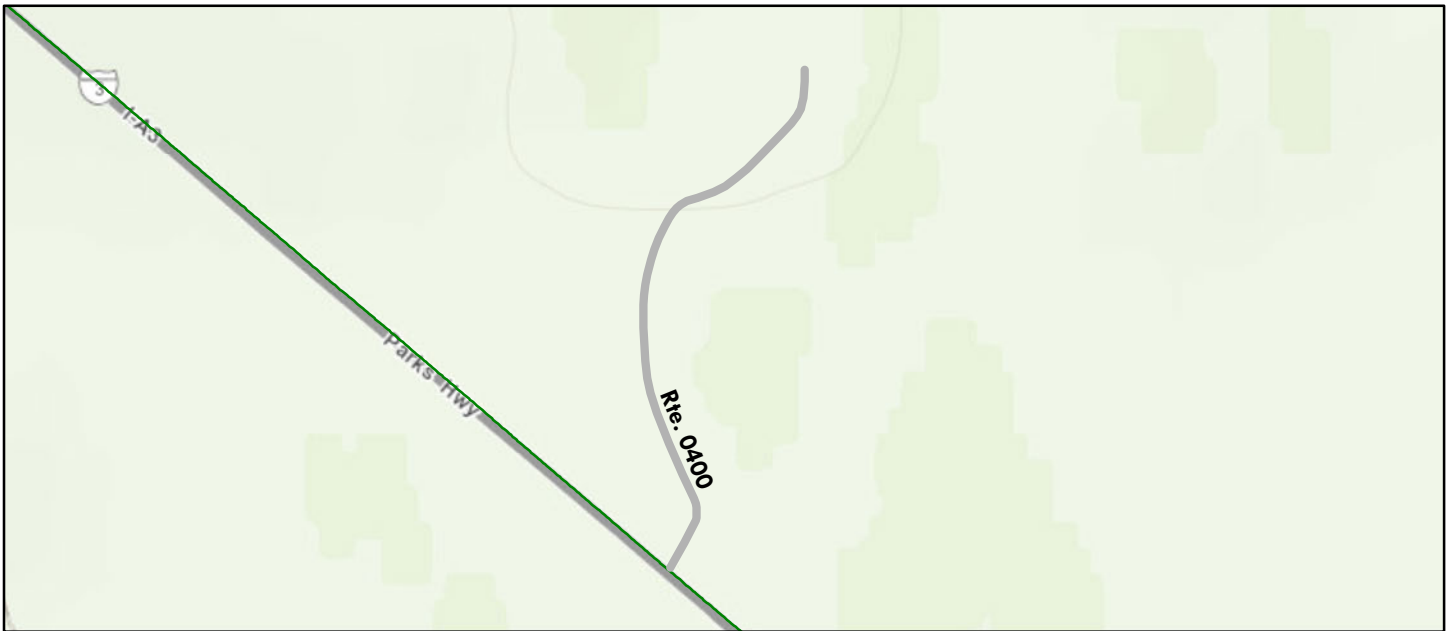


DENA_0300_0.374

Denali National Park and Preserve

ROUTE 0400: MILE 234 PIT ROAD

Manual Rating



Inspection Date: Not Collected	Unpaved Length (Miles): 0.20	Surface Type: GRAVEL
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Note: Route not collected in Cycle 6 because it was non-public.

Denali National Park and Preserve

ROUTE 0402: AIRSTRIP ACCESS ROAD

Manual Rating



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

Route Condition Legend



See Appendix for definitions and formulas

Inspection Date: 7/12/2019 Unpaved Length (Miles): 0.43 Surface Type: GRAVEL

Condition Summary Table for DENA-0402

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity	
0.00	0.43	0.43	1	11.0	11.0	Routine Maintenance	\$4,280	4	Low	Med	Med	Med	
Route Level Data:			0.43	1	11.0	11.0	Routine Maintenance	\$4,280	4	Low	Med	Med	Med

Denali National Park and Preserve

ROUTE 0402: AIRSTRIP ACCESS ROAD

Condition Photos



DENA_0402_0.028



DENA_0402_0.096



DENA_0402_0.179



DENA_0402_0.242



DENA_0402_0.317



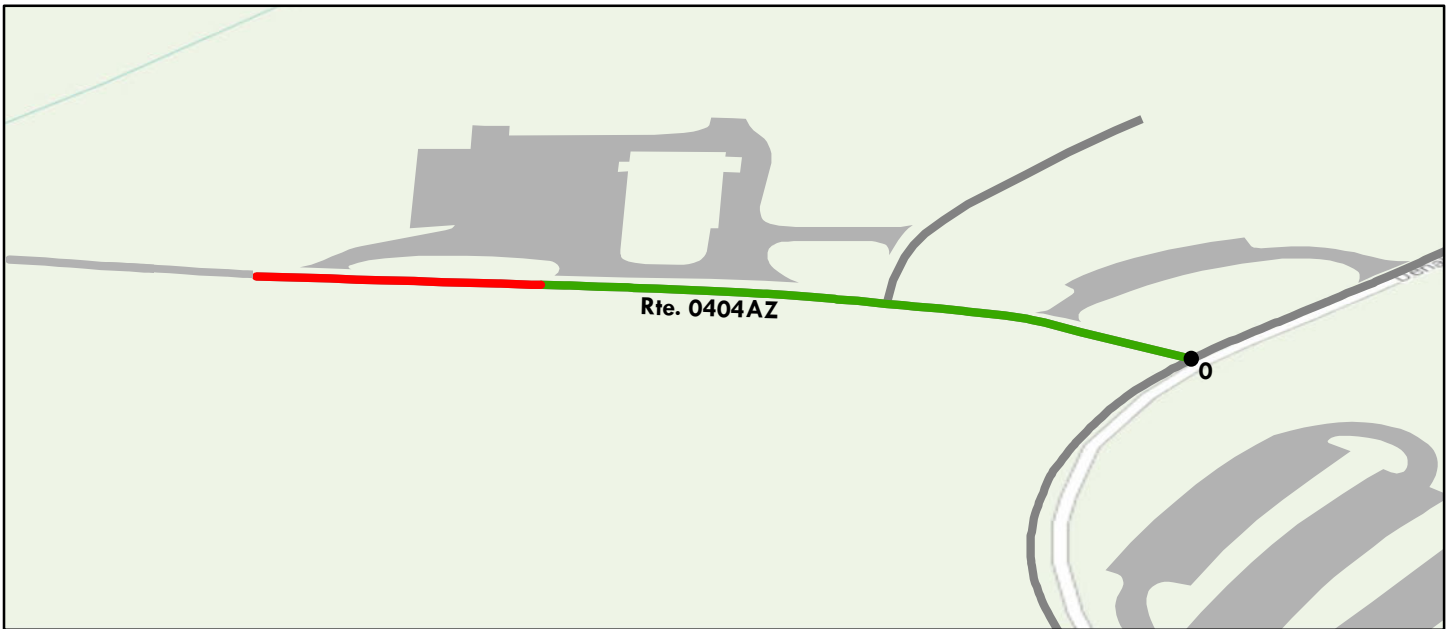
DENA_0402_0.380

Denali National Park and Preserve

ROUTE 0404AZ: FRONT COUNTRY WATER SUPPLY ROAD (PAVED)

Subcomponent of Route DENA-0404ZZ

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

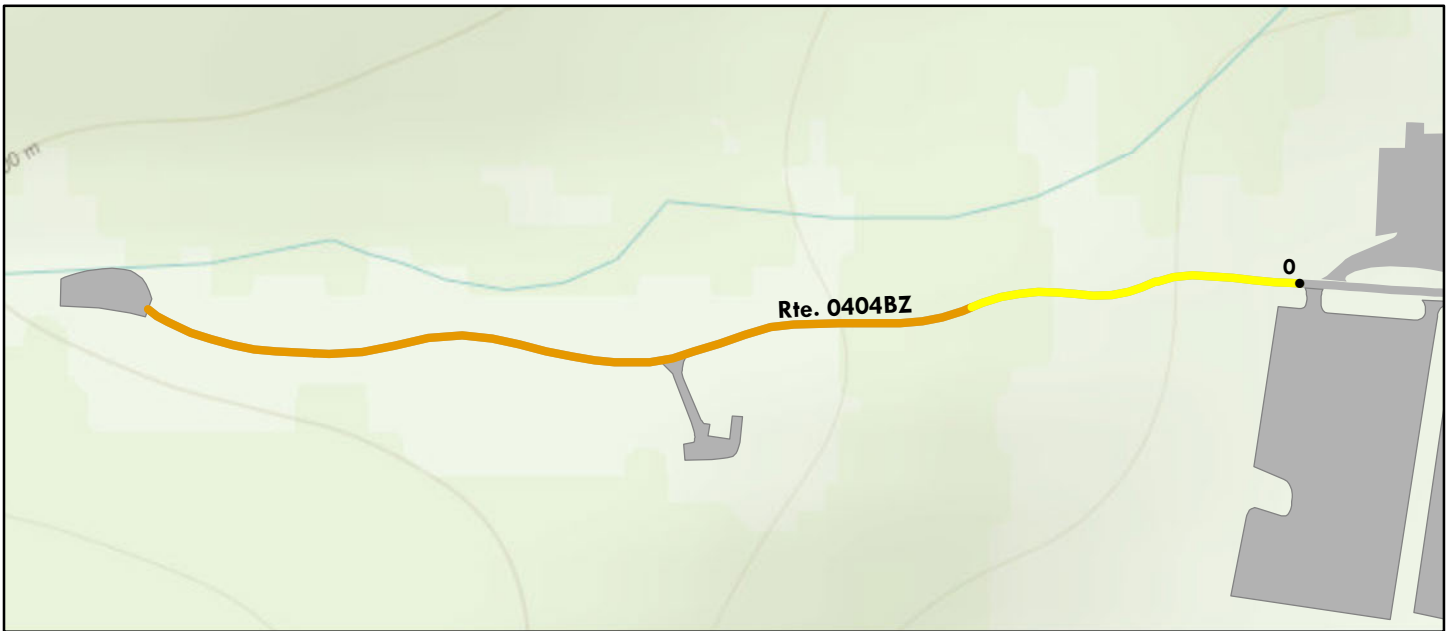
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 7/10/2019	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)	69	69				
Surface Condition Rating (SCR)	69	69				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	69	69				
Alligator Crack Index	99	99				
Longitudinal Crack Index	70	70				
Transverse Cracking Index	86	86				
Patching Index	98	98				
Rutting Index	97	97				
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)	11	11				

Denali National Park and Preserve

ROUTE 0404BZ: FRONT COUNTRY WATER SUPPLY ROAD (UNPAVED)

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/12/2019		Unpaved Length (Miles): 0.35		Surface Type: GRAVEL	

Condition Summary Table for DENA-0404BZ

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
0.00	0.35	0.35	1	11.0	11.0	Heavy Rehabilitation	\$56,160	2	Med	High	Med	Med
Route Level Data:		0.35	1	11.0	11.0	Heavy Rehabilitation	\$56,160	2	Med	High	Med	Med

Denali National Park and Preserve

ROUTE 0404BZ: FRONT COUNTRY WATER SUPPLY ROAD (UNPAVED)

Condition Photos



DENA_0404BZ_0.028



DENA_0404BZ_0.059



DENA_0404BZ_0.105



DENA_0404BZ_0.156



DENA_0404BZ_0.257

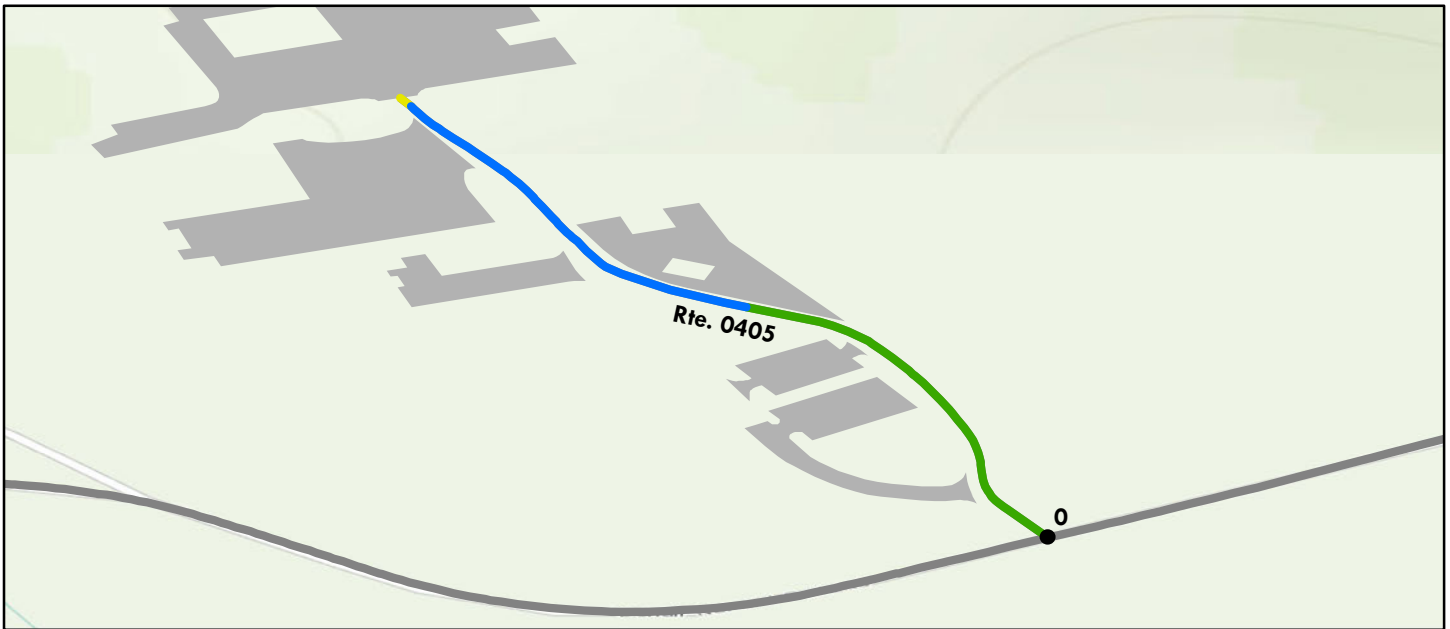


DENA_0404BZ_0.326

Denali National Park and Preserve

ROUTE 0405: C CAMP RESIDENCE AND MAINTENANCE ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), 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:	7/10/2019	Beginning Section MP	0			
Paved Length (Miles):	0.2	Section Length (MI)	0.2			
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	98	98				
Alligator Crack Index	100	100				
Longitudinal Crack Index	98	98				
Transverse Cracking Index	94	94				
Patching Index	99	99				
Rutting Index	96	96				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	22.3	22.3				
Lane Width (ft)	11.1	11.1				

Denali National Park and Preserve

ROUTE 0406: ROCK CREEK PUMP HOUSE ROAD

Manual Rating



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

Route Condition Legend



See Appendix for definitions and formulas

Inspection Date: 7/12/2019 Unpaved Length (Miles): 0.23 Surface Type: GRAVEL

Condition Summary Table for DENA-0406

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
0.00	0.23	0.23	1	11.0	11.0	Heavy Rehabilitation	\$36,640	2	Med	High	Med	Med
Route Level Data:		0.23	1	11.0	11.0	Heavy Rehabilitation	\$36,640	2	Med	High	Med	Med

Denali National Park and Preserve

ROUTE 0406: ROCK CREEK PUMP HOUSE ROAD

Condition Photos



DENA_0406_0.012



DENA_0406_0.028



DENA_0406_0.090



DENA_0406_0.130



DENA_0406_0.166



DENA_0406_0.205

Denali National Park and Preserve

ROUTE 0407AZ: HEADQUARTERS HOUSING AREA ROAD A

Subcomponent of Route DENA-0407ZZ
 Data Collection Vehicle (DCV) Rating



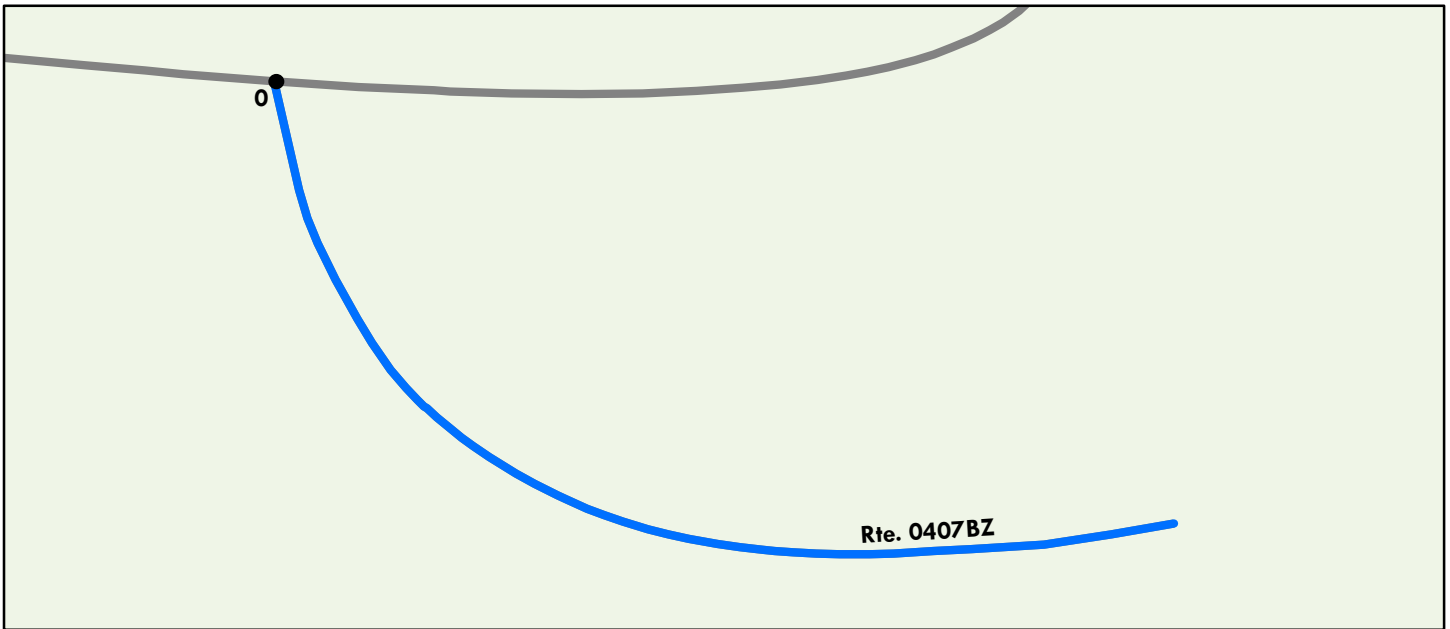
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

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: 7/10/2019	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)	97	97				
Surface Condition Rating (SCR)	97	97				
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	97	97				
Patching Index	100	100				
Rutting Index	98	98				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	27.6	27.6				
Lane Width (ft)	13.8	13.8				

Denali National Park and Preserve

ROUTE 0407BZ: HEADQUARTERS HOUSING AREA ROAD B

Subcomponent of Route DENA-0407ZZ
Data Collection Vehicle (DCV) Rating



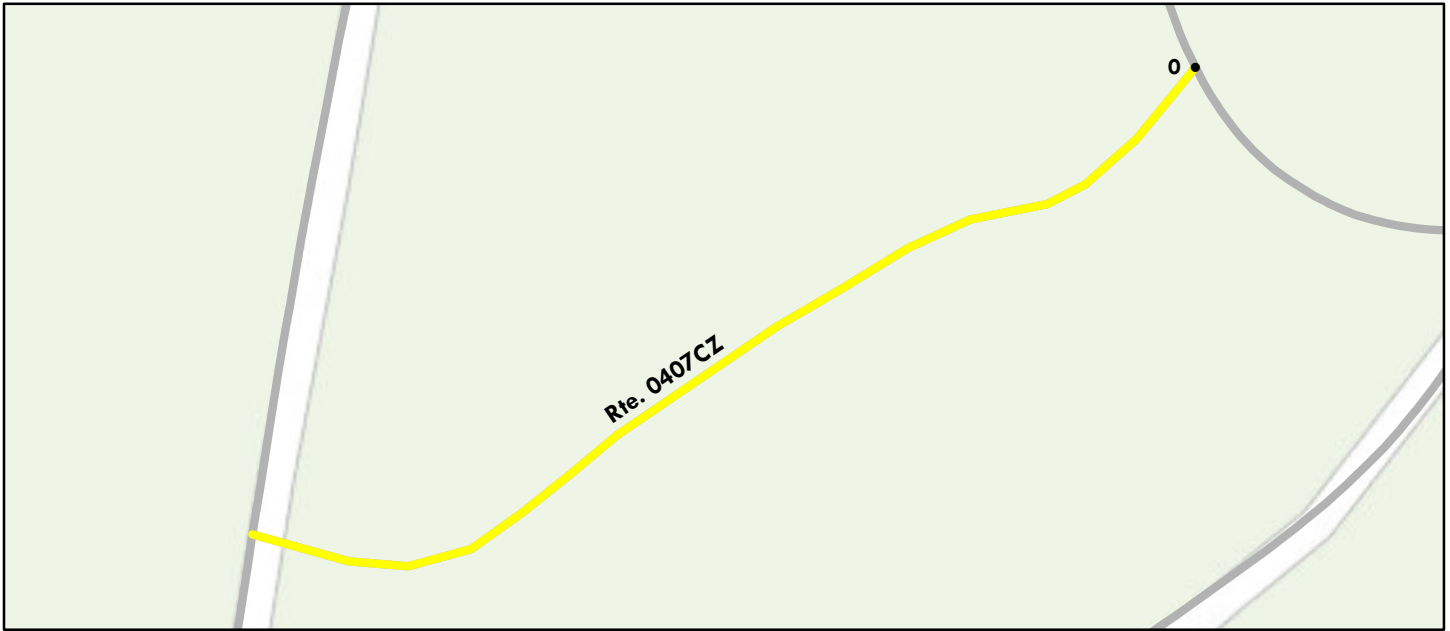
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

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: 7/10/2019	Beginning Section MP	0				
Paved Length (Miles): 0.06	Section Length (MI)	0.06				
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	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	96	96				
Patching Index	100	100				
Rutting Index	100	100				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	16.8	16.8				
Lane Width (ft)	8.4	8.4				

Denali National Park and Preserve

ROUTE 0407CZ: HEADQUARTERS HOUSING AREA ROAD C

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/12/2019		Unpaved Length (Miles): 0.07		Surface Type: GRAVEL	

Condition Summary Table for DENA-0407CZ

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity	
0.00	0.07	0.07	2	7.0	14.0	Light Rehabilitation	\$7,000	3	Med	Med	Low	Med	
Route Level Data:			0.07	2	7.0	14.0	Light Rehabilitation	\$7,000	3	Med	Med	Low	Med

Denali National Park and Preserve

ROUTE 0407CZ: HEADQUARTERS HOUSING AREA ROAD C

Condition Photos



DENA_0407CZ_0.010



DENA_0407CZ_0.019



DENA_0407CZ_0.037



DENA_0407CZ_0.051



DENA_0407CZ_0.059

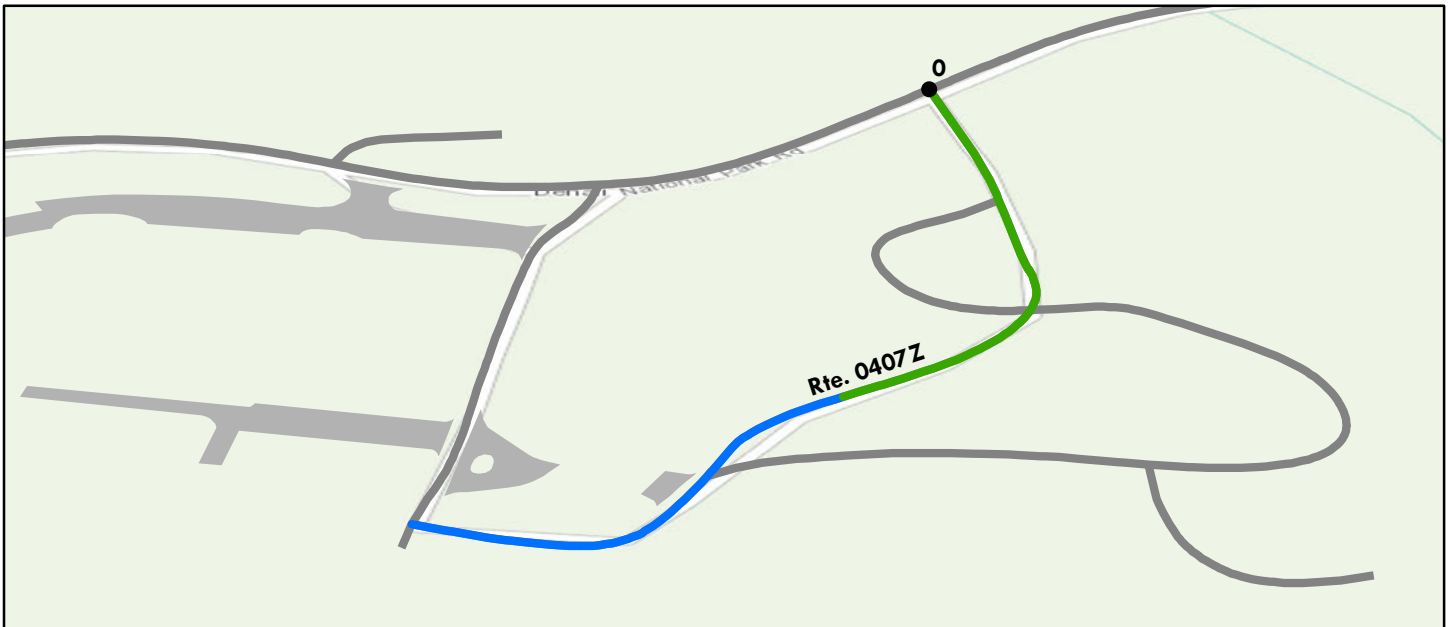


DENA_0407CZ_0.065

Denali National Park and Preserve

ROUTE 0407Z: HEADQUARTERS HOUSING AREA ROAD

Subcomponent of Route DENA-0407ZZ
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: 7/10/2019	Beginning Section MP	0				
Paved Length (Miles): 0.21	Section Length (MI)	0.21				
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	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
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)	16.8	16.8				
Lane Width (ft)	8.4	8.4				

Denali National Park and Preserve

ROUTE 0409AZ: DOG KENNELS ACCESS ROAD

Manual Rating



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

Route Condition Legend



See Appendix for definitions and formulas

Inspection Date: 7/12/2019 Unpaved Length (Miles): 0.07 Surface Type: GRAVEL

Condition Summary Table for DENA-0409AZ

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
0.00	0.07	0.07	1	11.0	11.0	Heavy Rehabilitation	\$11,360	2	Med	Med	Med	High

Route Level Data: 0.07 1 11.0 11.0 Heavy Rehabilitation \$11,360 2 Med Med Med High

Denali National Park and Preserve

ROUTE 0409AZ: DOG KENNELS ACCESS ROAD

Condition Photos



DENA_0409AZ_0.003



DENA_0409AZ_0.017



DENA_0409AZ_0.027



DENA_0409AZ_0.042



DENA_0409AZ_0.050

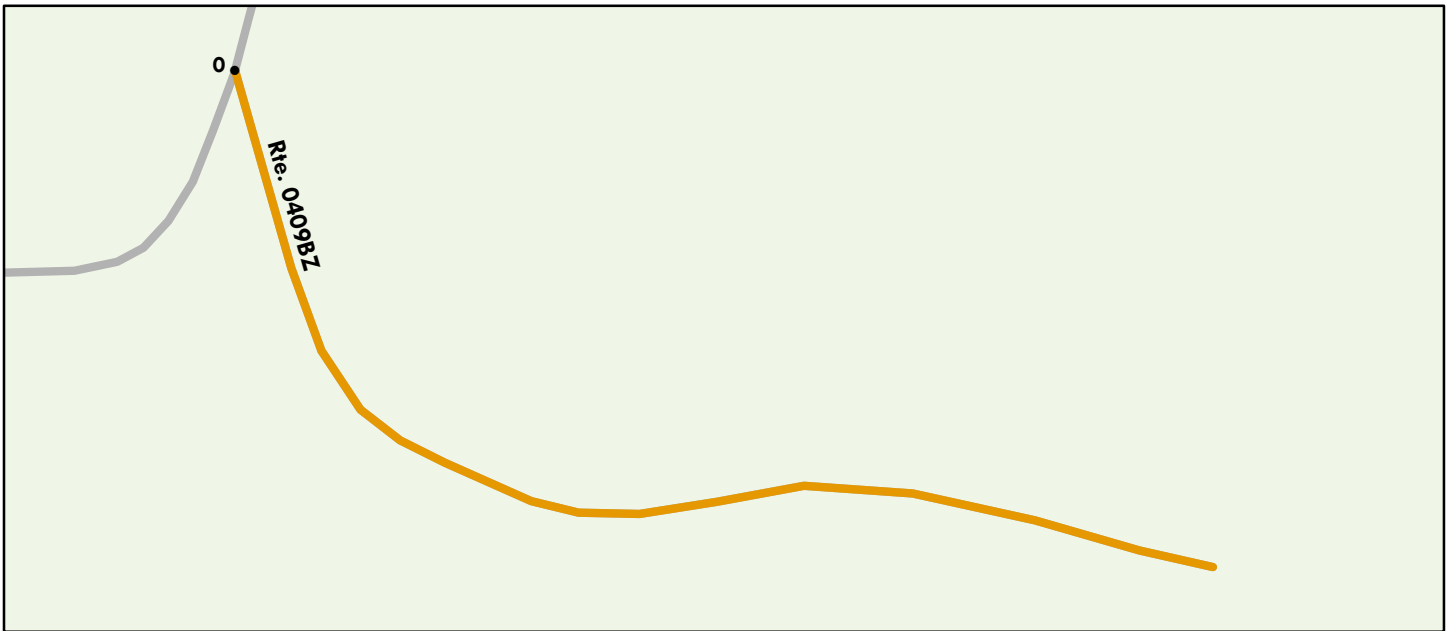


DENA_0409AZ_0.060

Denali National Park and Preserve

ROUTE 0409BZ: DOG POOP COMPOST AREA ROAD

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/12/2019		Unpaved Length (Miles): 0.05		Surface Type: GRAVEL	

Condition Summary Table for DENA-0409BZ

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
0.00	0.05	0.05	1	11.0	11.0	Heavy Rehabilitation	\$7,360	2	Med	High	Med	High
Route Level Data:		0.05	1	11.0	11.0	Heavy Rehabilitation	\$7,360	2	Med	High	Med	High

Denali National Park and Preserve

ROUTE 0409BZ: DOG POOP COMPOST AREA ROAD

Condition Photos



DENA_0409BZ_0.002



DENA_0409BZ_0.007



DENA_0409BZ_0.013



DENA_0409BZ_0.020



DENA_0409BZ_0.027



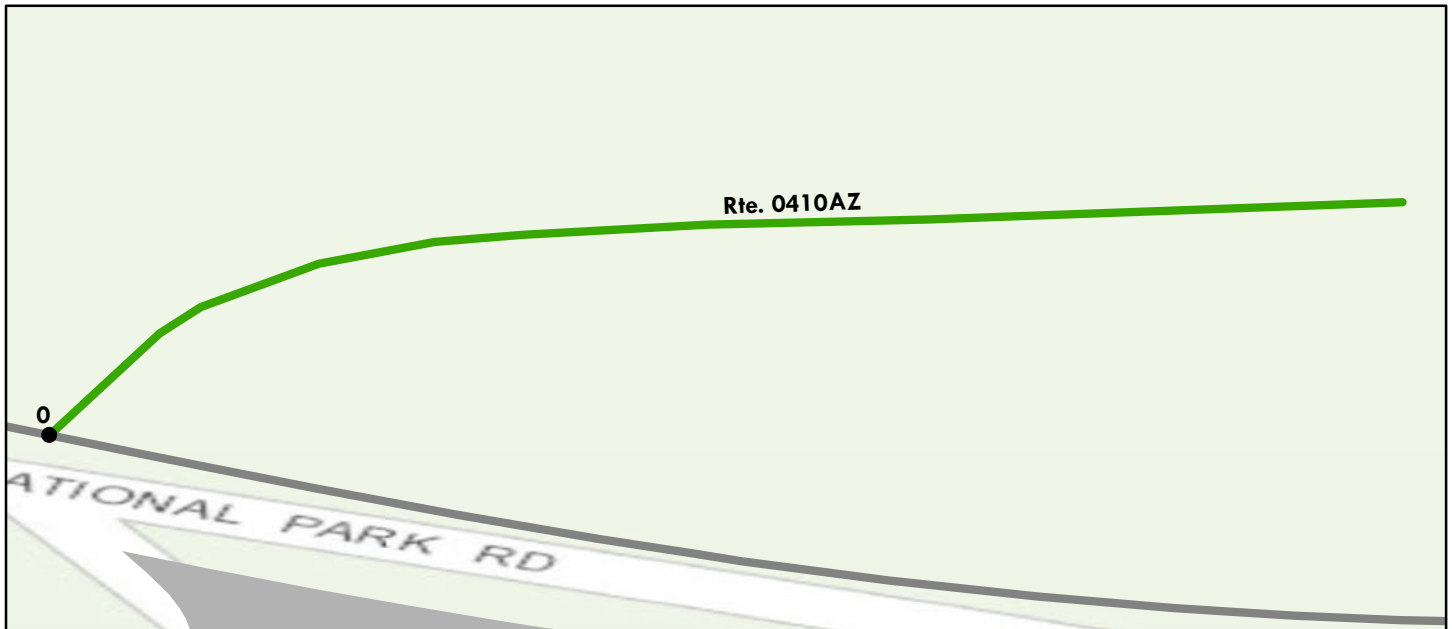
DENA_0409BZ_0.035

Denali National Park and Preserve

ROUTE 0410AZ: ROCK CREEK RESERVOIR ROAD (PAVED)

Subcomponent of Route DENA-0410ZZ

Manual Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), 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		
See Appendix for definitions and formulas						
Inspection Date: 7/12/2019	Beginning Section MP	0.00				
Paved Length (Miles): 0.03	Section Length (MI)	0.03				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	90	90				
Surface Condition Rating (SCR)	90	90				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	N/A	N/A				
Alligator Crack Index	97	97				
Longitudinal Crack Index	97	97				
Transverse Cracking Index	90	90				
Patching Index	97	97				
Rutting Index	97	97				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	15	15				
Lane Width (ft)	15	15				

Denali National Park and Preserve

ROUTE 0410AZ: ROCK CREEK RESERVOIR ROAD (PAVED)

Condition Photos

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



DENA_0410AZ_1.jpg



DENA_0410AZ_2.jpg



DENA_0410AZ_3.jpg



DENA_0410AZ_4.jpg



DENA_0410AZ_5.jpg

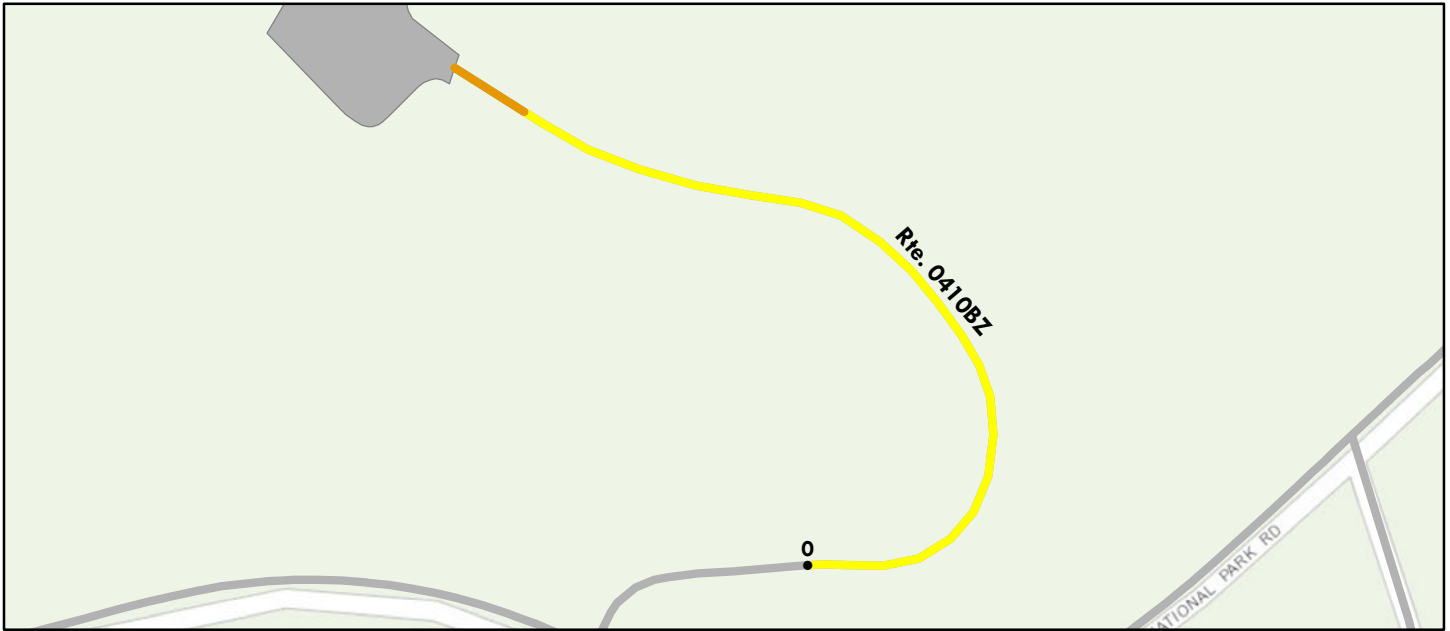


DENA_0410AZ_6.jpg

Denali National Park and Preserve

ROUTE 0410BZ: ROCK CREEK RESERVOIR ROAD (UNPAVED)

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/12/2019		Unpaved Length (Miles): 0.11		Surface Type: GRAVEL	

Condition Summary Table for DENA-0410BZ

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
0.00	0.11	0.11	1	11.0	11.0	Light Rehabilitation	\$11,000	3	Med	Med	Low	Med
Route Level Data:		0.11	1	11.0	11.0	Light Rehabilitation	\$11,000	3	Med	Med	Low	Med

Denali National Park and Preserve

ROUTE 0410BZ: ROCK CREEK RESERVOIR ROAD (UNPAVED)

Condition Photos



DENA_0410BZ_0.011



DENA_0410BZ_0.028



DENA_0410BZ_0.047



DENA_0410BZ_0.065



DENA_0410BZ_0.088

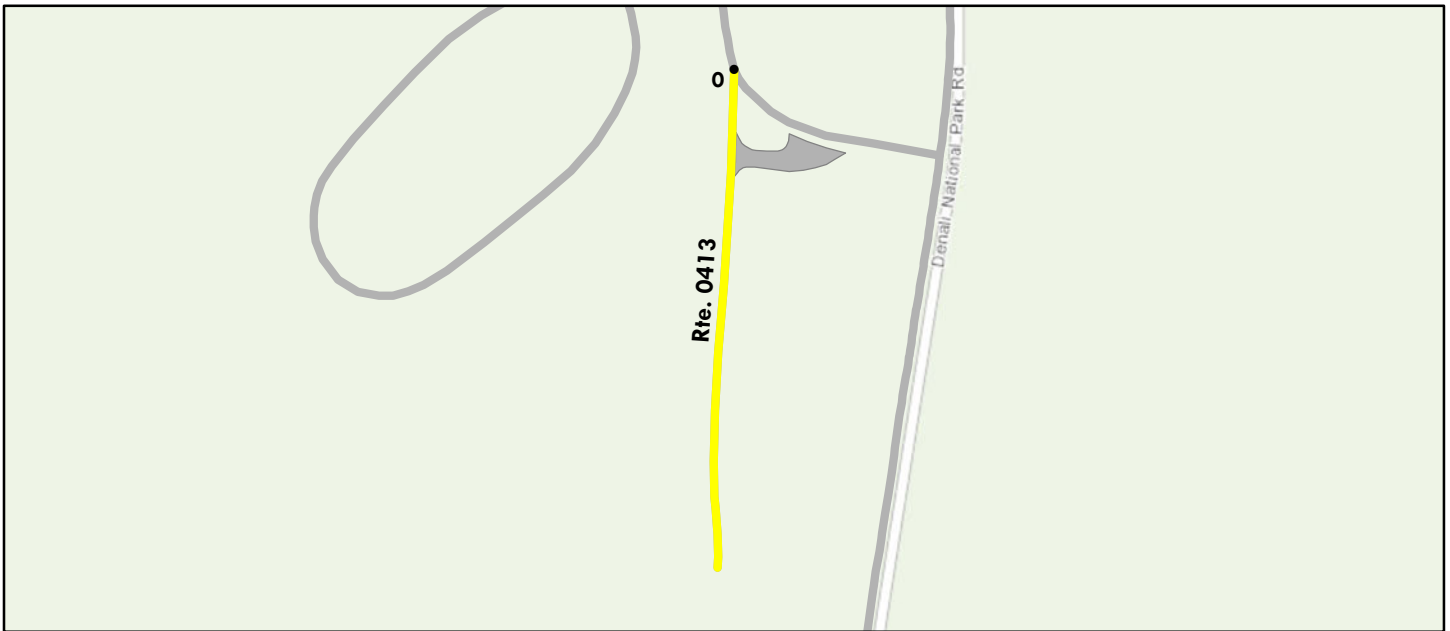


DENA_0410BZ_0.112

Denali National Park and Preserve

ROUTE 0413: TEKLANIKA CAMPGROUND SERVICE ROAD

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/9/2019		Unpaved Length (Miles): 0.11		Surface Type: GRAVEL	

Condition Summary Table for DENA-0413

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity	
0.00	0.11	0.11	1	11.0	11.0	Light Rehabilitation	\$10,700	3	Med	Med	Low	Med	
Route Level Data:			0.11	1	11.0	11.0	Light Rehabilitation	\$10,700	3	Med	Med	Low	Med

Denali National Park and Preserve

ROUTE 0413: TEKLANIKA CAMPGROUND SERVICE ROAD

Condition Photos



DENA_0413_0.016



DENA_0413_0.033



DENA_0413_0.048



DENA_0413_0.065



DENA_0413_0.083

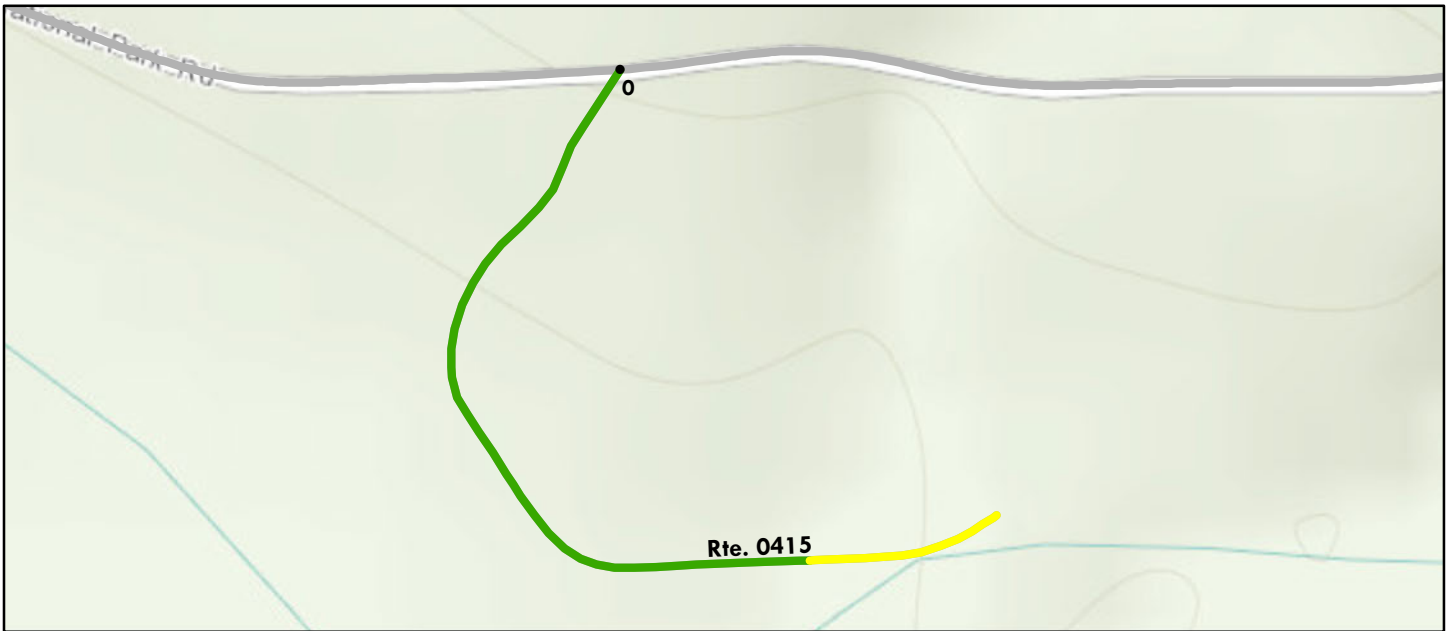


DENA_0413_0.100

Denali National Park and Preserve

ROUTE 0415: EAST FORK CABIN ROAD

Manual Rating



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

Route Condition Legend



See Appendix for definitions and formulas

Inspection Date: 7/9/2019 Unpaved Length (Miles): 0.26 Surface Type: GRAVEL

Condition Summary Table for DENA-0415

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity	
0.00	0.26	0.26	1	11.0	11.0	Light Rehabilitation	\$26,200	3	Med	Med	Low	Med	
Route Level Data:			0.26	1	11.0	11.0	Light Rehabilitation	\$26,200	3	Med	Med	Low	Med

Denali National Park and Preserve

ROUTE 0415: EAST FORK CABIN ROAD

Condition Photos



DENA_0415_0.019



DENA_0415_0.060



DENA_0415_0.097



DENA_0415_0.145



DENA_0415_0.184



DENA_0415_0.220

Denali National Park and Preserve

ROUTE 0416: TOKLAT MAINTENANCE CAMP ROAD

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/11/2019		Unpaved Length (Miles): 0.24		Surface Type: GRAVEL	

Condition Summary Table for DENA-0416

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
0.00	0.24	0.24	2	10.0	20.0	Routine Maintenance	\$2,360	4	Med	Low	Med	Med
Route Level Data:		0.24	2	10.0	20.0	Routine Maintenance	\$2,360	4	Med	Low	Med	Med

Denali National Park and Preserve

ROUTE 0416: TOKLAT MAINTENANCE CAMP ROAD

Condition Photos



DENA_0416_0.011



DENA_0416_0.044



DENA_0416_0.089



DENA_0416_0.130



DENA_0416_0.181



DENA_0416_0.223

Denali National Park and Preserve

ROUTE 0417AZ: WONDER LAKE WATER TANK ROAD

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/10/2019		Unpaved Length (Miles): 0.72		Surface Type: GRAVEL	

Condition Summary Table for DENA-0417AZ

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity	
0.00	0.72	0.72	1	12.0	12.0	Heavy Rehabilitation	\$115,040	2	Med	Med	Med	Med	
Route Level Data:			0.72	1	12.0	12.0	Heavy Rehabilitation	\$115,040	2	Med	Med	Med	Med

Denali National Park and Preserve

ROUTE 0417AZ: WONDER LAKE WATER TANK ROAD

Condition Photos



DENA_0417AZ_0.046



DENA_0417AZ_0.121



DENA_0417AZ_0.167



DENA_0417AZ_0.222



DENA_0417AZ_0.275



DENA_0417AZ_0.330

Denali National Park and Preserve

ROUTE 0417AZ: WONDER LAKE WATER TANK ROAD

Condition Photos



DENA_0417AZ_0.383



DENA_0417AZ_0.433



DENA_0417AZ_0.481



DENA_0417AZ_0.531



DENA_0417AZ_0.576



DENA_0417AZ_0.673

Denali National Park and Preserve

ROUTE 0417BZ: WONDER LAKE WATER TANK SPUR ROAD

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/10/2019		Unpaved Length (Miles): 0.07		Surface Type: GRAVEL	

Condition Summary Table for DENA-0417BZ

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
0.00	0.07	0.07	1	12.0	12.0	Routine Maintenance	\$740	4	Low	Med	Med	Med
Route Level Data:		0.07	1	12.0	12.0	Routine Maintenance	\$740	4	Low	Med	Med	Med

Denali National Park and Preserve

ROUTE 0417BZ: WONDER LAKE WATER TANK SPUR ROAD

Condition Photos



DENA_0417BZ_0.002



DENA_0417BZ_0.007



DENA_0417BZ_0.020



DENA_0417BZ_0.039



DENA_0417BZ_0.058



DENA_0417BZ_0.068

Denali National Park and Preserve

ROUTE 0418AZ: C CAMP RESIDENCE ROAD A

Manual Rating



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

Route Condition Legend



See Appendix for definitions and formulas

Inspection Date: 7/12/2019 Unpaved Length (Miles): 0.14 Surface Type: GRAVEL

Condition Summary Table for DENA-0418AZ

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
0.00	0.14	0.14	2	10.5	21.0	Heavy Rehabilitation	\$22,080	2	Med	Med	Med	High
Route Level Data:		0.14	2	10.5	21.0	Heavy Rehabilitation	\$22,080	2	Med	Med	Med	High

Denali National Park and Preserve

ROUTE 0418AZ: C CAMP RESIDENCE ROAD A

Condition Photos



DENA_0418AZ_0.019



DENA_0418AZ_0.048



DENA_0418AZ_0.090



DENA_0418AZ_0.121



DENA_0418AZ_0.135

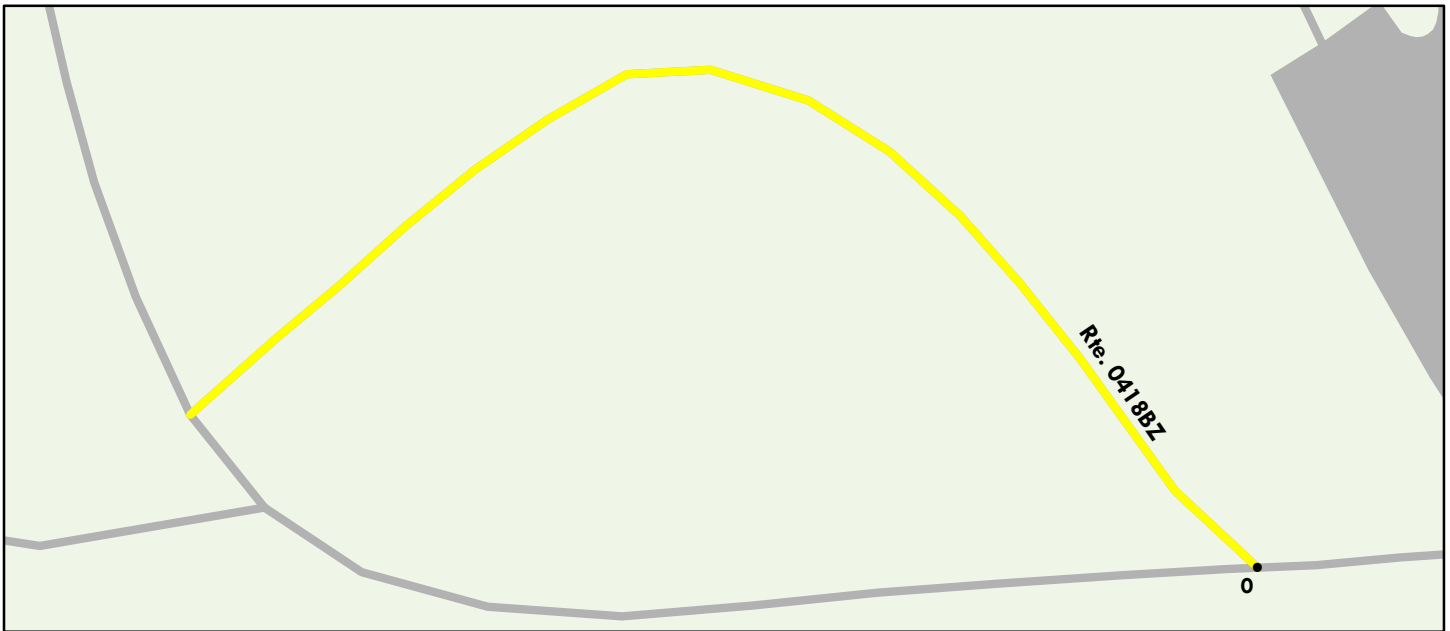


DENA_0418AZ_0.121

Denali National Park and Preserve

ROUTE 0418BZ: C CAMP RESIDENCE ROAD B

Manual Rating



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

Route Condition Legend



See Appendix for definitions and formulas

Inspection Date: 7/12/2019 Unpaved Length (Miles): 0.05 Surface Type: GRAVEL

Condition Summary Table for DENA-0418BZ

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity	
0.00	0.05	0.05	2	7.5	15.0	Light Rehabilitation	\$4,800	3	Med	Med	Low	Med	
Route Level Data:			0.05	2	7.5	15.0	Light Rehabilitation	\$4,800	3	Med	Med	Low	Med

Denali National Park and Preserve

ROUTE 0418BZ: C CAMP RESIDENCE ROAD B

Condition Photos



DENA_0418BZ_0.013



DENA_0418BZ_0.023



DENA_0418BZ_0.026



DENA_0418BZ_0.029



DENA_0418BZ_0.032



DENA_0418BZ_0.042

Denali National Park and Preserve

ROUTE 0418CZ: C CAMP RESIDENCE ROAD C

Manual Rating



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

Route Condition Legend



See Appendix for definitions and formulas

Inspection Date: 7/12/2019 Unpaved Length (Miles): 0.06 Surface Type: GRAVEL

Condition Summary Table for DENA-0418CZ

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
0.00	0.06	0.06	2	7.5	15.0	Light Rehabilitation	\$6,100	3	Med	Med	Low	Med
Route Level Data:		0.06	2	7.5	15.0	Light Rehabilitation	\$6,100	3	Med	Med	Low	Med

Denali National Park and Preserve

ROUTE 0418CZ: C CAMP RESIDENCE ROAD C

Condition Photos



DENA_0418CZ_0.013



DENA_0418CZ_0.028



DENA_0418CZ_0.035



DENA_0418CZ_0.040



DENA_0418CZ_0.048

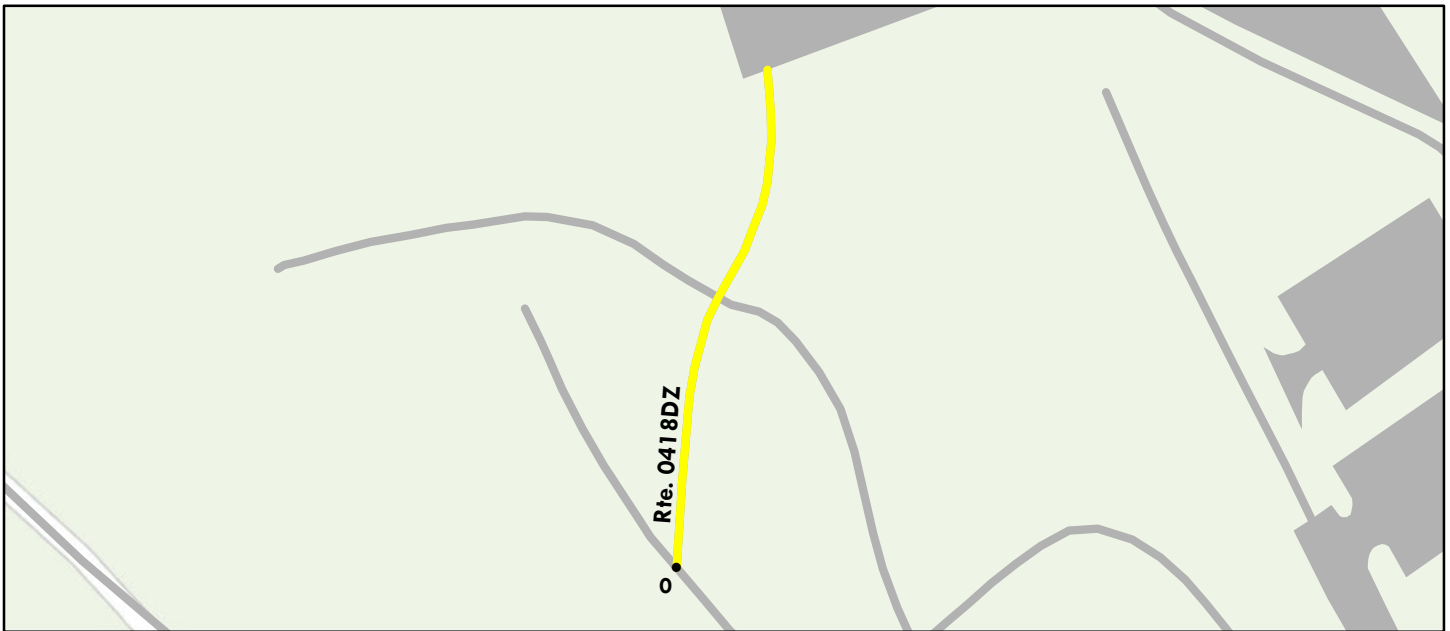


DENA_0418CZ_0.056

Denali National Park and Preserve

ROUTE 0418DZ: C CAMP RESIDENCE ROAD D

Manual Rating



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

Route Condition Legend

Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
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See Appendix for definitions and formulas

Inspection Date: 7/12/2019	Unpaved Length (Miles): 0.05	Surface Type: GRAVEL
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Condition Summary Table for DENA-0418DZ

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity	
0.00	0.05	0.05	2	7.5	15.0	Light Rehabilitation	\$5,100	3	Low	Med	Low	High	
Route Level Data:			0.05	2	7.5	15.0	Light Rehabilitation	\$5,100	3	Low	Med	Low	High

Denali National Park and Preserve

ROUTE 0418DZ: C CAMP RESIDENCE ROAD D

Condition Photos



DENA_0418DZ_0.018



DENA_0418DZ_0.025



DENA_0418DZ_0.029



DENA_0418DZ_0.037



DENA_0418DZ_0.049

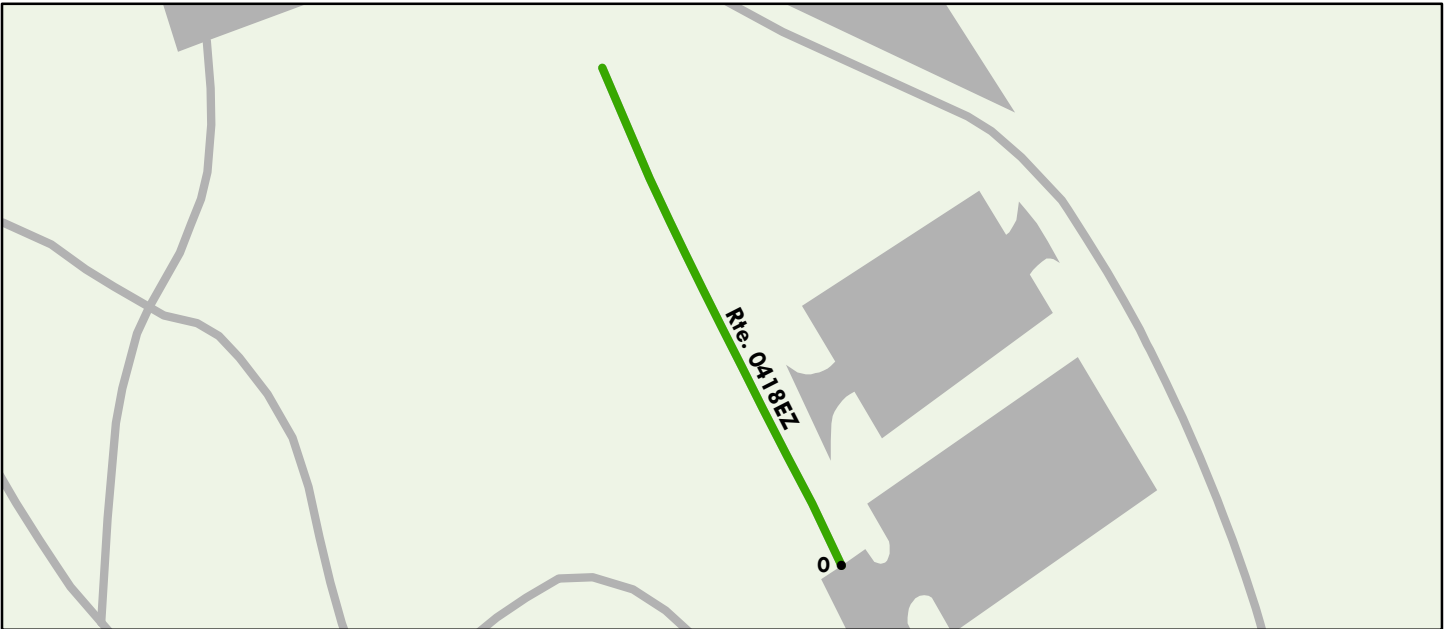


DENA_0418DZ_0.051

Denali National Park and Preserve

ROUTE 0418EZ: C CAMP RESIDENCE ROAD E

Manual Rating



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

Route Condition Legend



See Appendix for definitions and formulas

Inspection Date: 7/12/2019 Unpaved Length (Miles): 0.05 Surface Type: GRAVEL

Condition Summary Table for DENA-0418EZ

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
0.00	0.05	0.05	2	7.5	15.0	Routine Maintenance	\$470	4	Low	Med	Low	Low
Route Level Data:		0.05	2	7.5	15.0	Routine Maintenance	\$470	4	Low	Med	Low	Low

Denali National Park and Preserve

ROUTE 0418EZ: C CAMP RESIDENCE ROAD E

Condition Photos



DENA_0418EZ_0.000



DENA_0418EZ_0.015



DENA_0418EZ_0.019



DENA_0418EZ_0.030



DENA_0418EZ_0.040



DENA_0418EZ_0.044

Denali National Park and Preserve

ROUTE 0419AZ: TOKLAT CAMP RESIDENCE ROAD A

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/11/2019		Unpaved Length (Miles): 0.19		Surface Type: GRAVEL	

Condition Summary Table for DENA-0419AZ

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity	
0.00	0.19	0.19	2	7.5	15.0	Light Rehabilitation	\$18,900	3	Med	Med	Low	Med	
Route Level Data:			0.19	2	7.5	15.0	Light Rehabilitation	\$18,900	3	Med	Med	Low	Med

Denali National Park and Preserve

ROUTE 0419AZ: TOKLAT CAMP RESIDENCE ROAD A

Condition Photos



DENA_0419AZ_0.009



DENA_0419AZ_0.049



DENA_0419AZ_0.082



DENA_0419AZ_0.121



DENA_0419AZ_0.172



DENA_0419AZ_0.187

Denali National Park and Preserve

ROUTE 0419BZ: TOKLAT CAMP RESIDENCE ROAD B

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/11/2019		Unpaved Length (Miles): 0.06		Surface Type: GRAVEL	

Condition Summary Table for DENA-0419BZ

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
0.00	0.06	0.06	2	8.0	16.0	Limited Local Maintenance	\$0	5	Low	Low	Low	Med
Route Level Data:		0.06	2	8.0	16.0	Limited Local Maintenance	\$0	5	Low	Low	Low	Med

Denali National Park and Preserve

ROUTE 0419BZ: TOKLAT CAMP RESIDENCE ROAD B

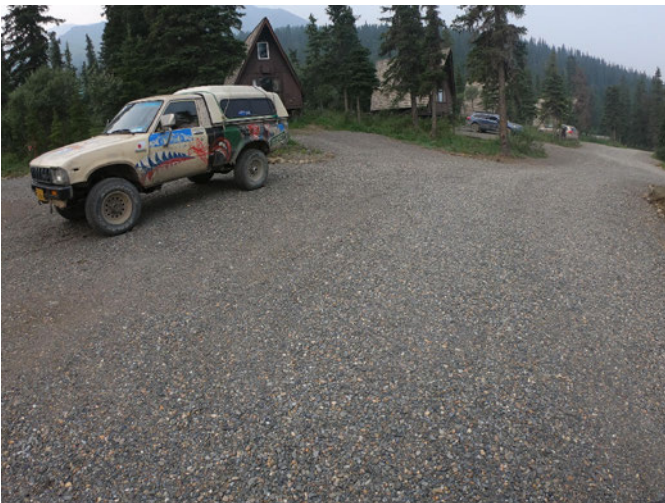
Condition Photos



DENA_0419BZ_0.013



DENA_0419BZ_0.029



DENA_0419BZ_0.041



DENA_0419BZ_0.044



DENA_0419BZ_0.052



DENA_0419BZ_0.059

Denali National Park and Preserve

ROUTE 0419CZ: TOKLAT CAMP RESIDENCE ROAD C

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/11/2019		Unpaved Length (Miles): 0.03		Surface Type: GRAVEL	

Condition Summary Table for DENA-0419CZ

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
0.00	0.03	0.03	2	7.5	15.0	Routine Maintenance	\$340	4	Med	Low	Low	Low
Route Level Data:		0.03	2	7.5	15.0	Routine Maintenance	\$340	4	Med	Low	Low	Low

Denali National Park and Preserve

ROUTE 0419CZ: TOKLAT CAMP RESIDENCE ROAD C

Condition Photos



DENA_0419CZ_0.010



DENA_0419CZ_0.013



DENA_0419CZ_0.016



DENA_0419CZ_0.021



DENA_0419CZ_0.024

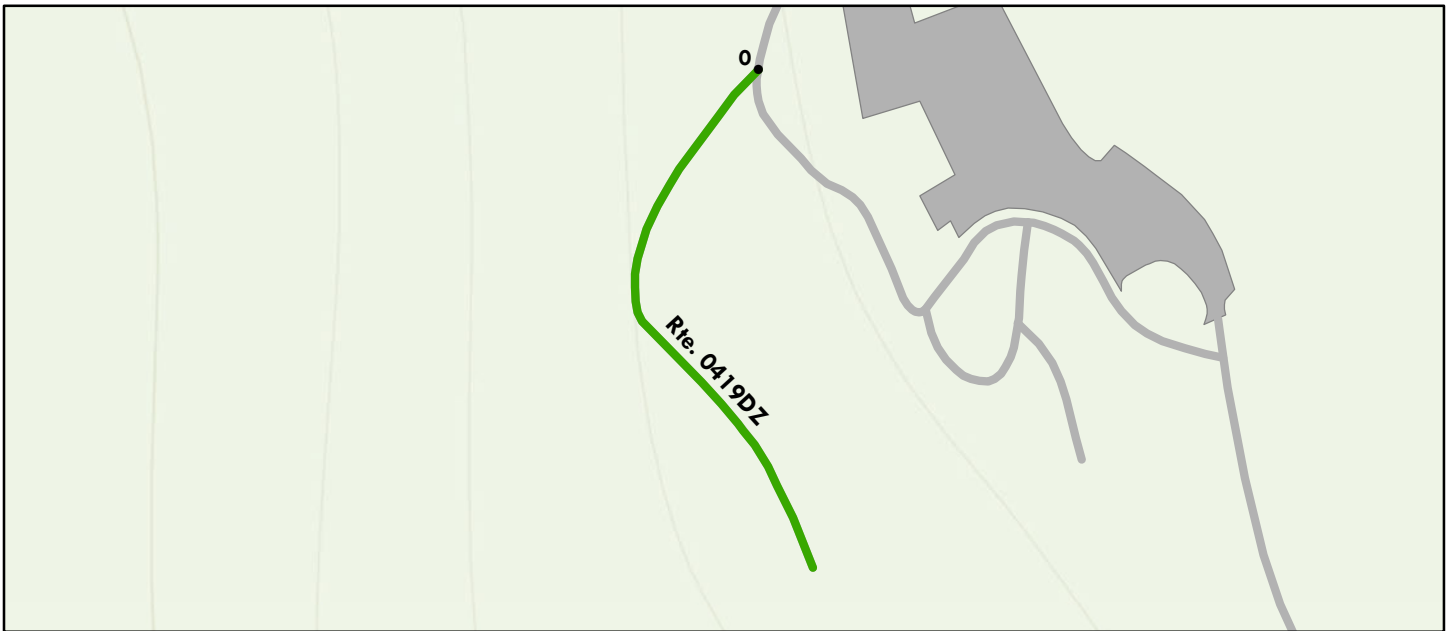


DENA_0419CZ_0.027

Denali National Park and Preserve

ROUTE 0419DZ: TOKLAT CAMP RESIDENCE ROAD D

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/11/2019		Unpaved Length (Miles): 0.13		Surface Type: GRAVEL	

Condition Summary Table for DENA-0419DZ

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
0.00	0.13	0.13	2	7.5	15.0	Routine Maintenance	\$1,320	4	Low	Med	Low	Med
Route Level Data:		0.13	2	7.5	15.0	Routine Maintenance	\$1,320	4	Low	Med	Low	Med

Denali National Park and Preserve

ROUTE 0419DZ: TOKLAT CAMP RESIDENCE ROAD D

Condition Photos



DENA_0419DZ_0.019



DENA_0419DZ_0.048



DENA_0419DZ_0.071



DENA_0419DZ_0.090



DENA_0419DZ_0.096

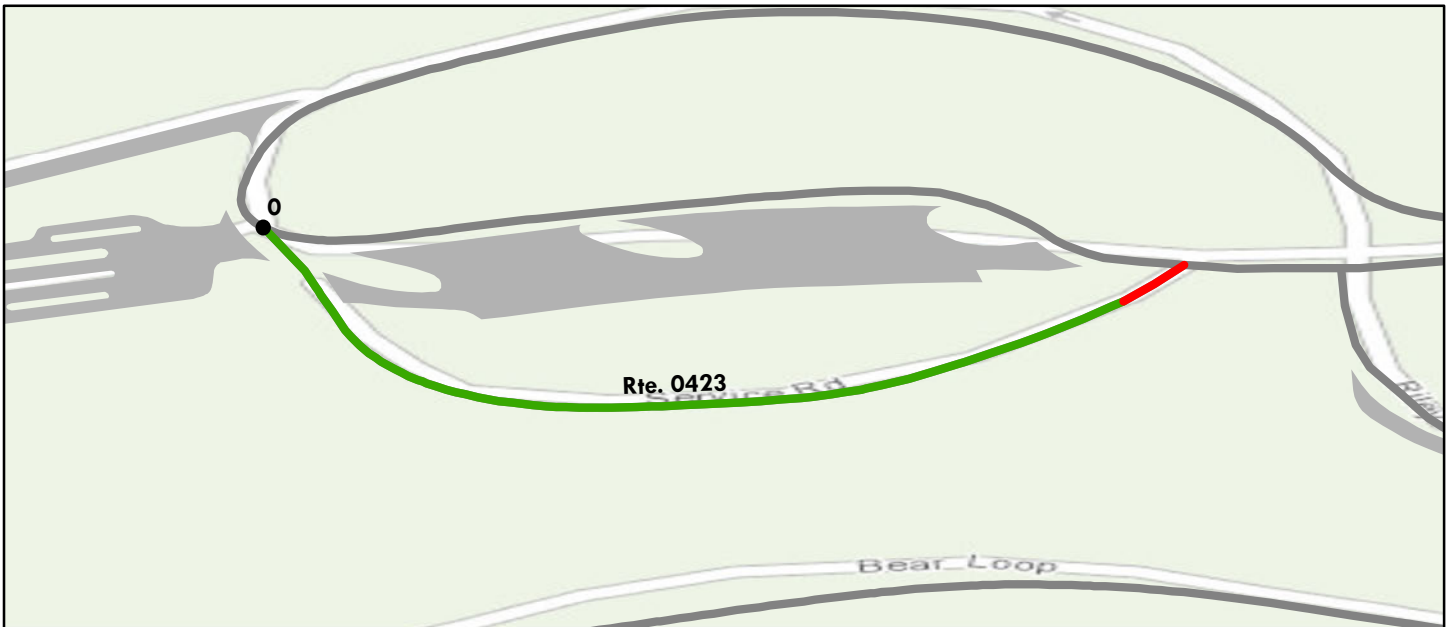


DENA_0419DZ_0.124

Denali National Park and Preserve

ROUTE 0423: MERCANTILE SERVICE 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

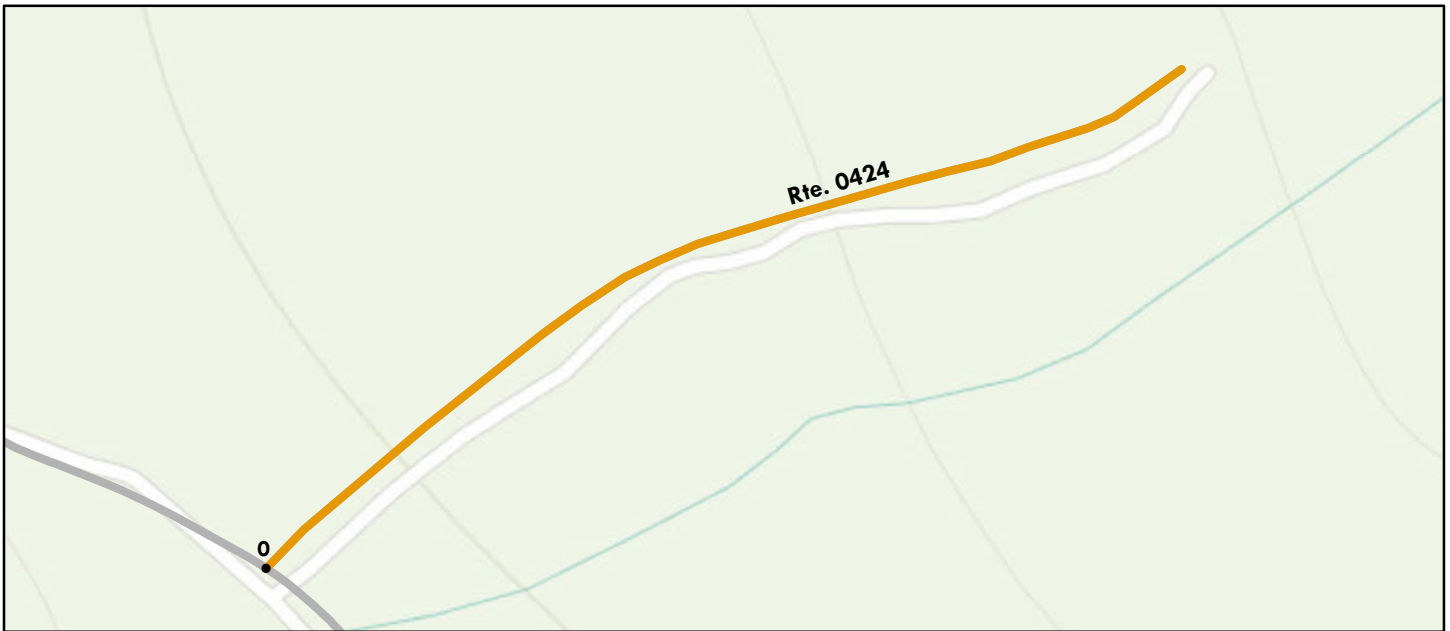
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date:	7/10/2019	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)	90	90					
Surface Condition Rating (SCR)	90	90					
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	91	91					
Patching Index	100	100					
Rutting Index	90	90					
International Roughness Index (IRI)	N/A	N/A					
Lane & Width Information							
Number of Lanes	1	1					
Paved Width (ft)	13.8	13.8					
Lane Width (ft)	13.8	13.8					

Denali National Park and Preserve

ROUTE 0424: FRIDAY CREEK CAMP ROAD

Manual Rating



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

Route Condition Legend



See Appendix for definitions and formulas

Inspection Date: 7/10/2019 Unpaved Length (Miles): 0.16 Surface Type: GRAVEL

Condition Summary Table for DENA-0424

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
0.00	0.16	0.16	1	12.0	12.0	Heavy Rehabilitation	\$25,600	2	Med	Med	Med	Med
Route Level Data:		0.16	1	12.0	12.0	Heavy Rehabilitation	\$25,600	2	Med	Med	Med	Med

Denali National Park and Preserve

ROUTE 0424: FRIDAY CREEK CAMP ROAD

Condition Photos



DENA_0424_0.010



DENA_0424_0.034



DENA_0424_0.062



DENA_0424_0.089



DENA_0424_0.116

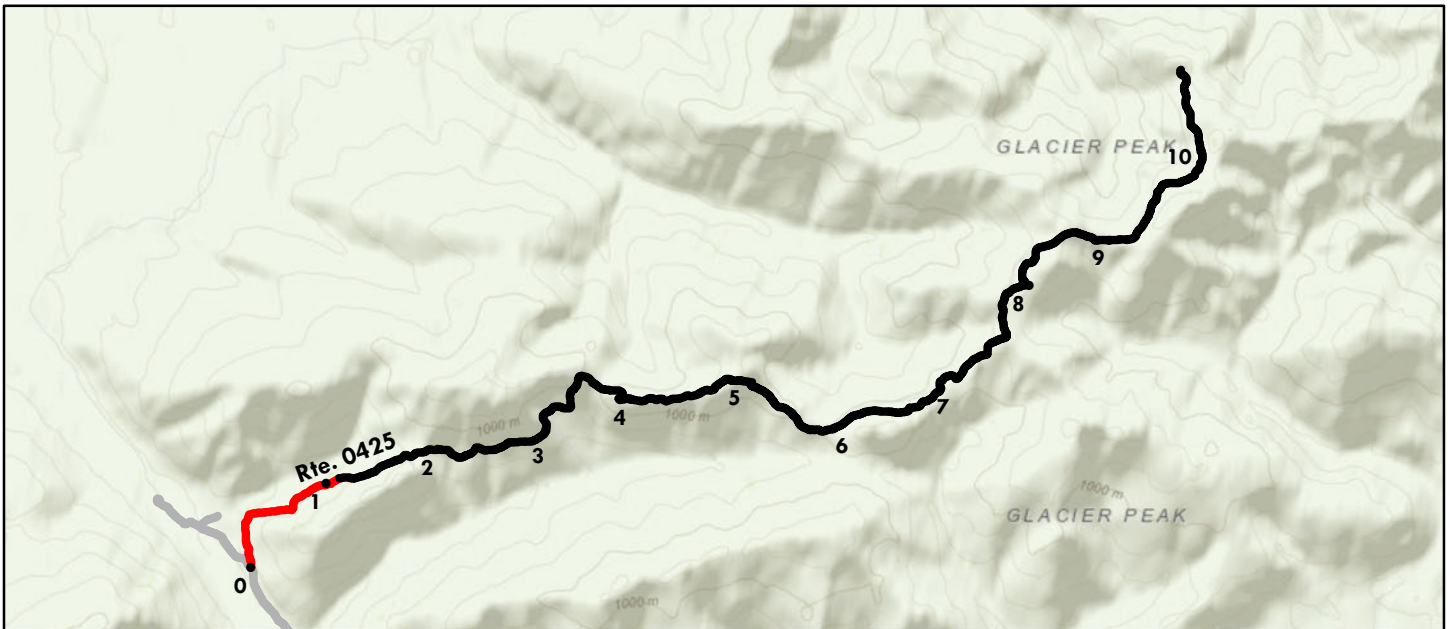


DENA_0424_0.143

Denali National Park and Preserve

ROUTE 0425: KANTISHNA SKYLINE DRIVE

Manual Rating



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

Route Condition Legend					
Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)	Not Rated
See Appendix for definitions and formulas					
Inspection Date: 7/10/2019		Unpaved Length (Miles): 10.46		Surface Type: GRAVEL	

Condition Summary Table for DENA-0425

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity
0.00	1.10	1.10	1	10.0	10.0	Reconstruction	\$275,000	1	High	High	High	High
1.10	10.46	9.36	N/A	N/A	N/A	Not Rated	N/A	N/A	N/A	N/A	N/A	N/A

NOTE: Collection stopped at MP 1.10 because of very poor conditions and vegetation overgrowth.

Denali National Park and Preserve

ROUTE 0425: KANTISHNA SKYLINE DRIVE

Condition Photos



DENA_0425_0.036



DENA_0425_0.175



DENA_0425_0.302



DENA_0425_0.425



DENA_0425_0.711



DENA_0425_0.884

Denali National Park and Preserve

ROUTE 0426: CONCESSIONS SUGARLOAF HALL ACCESS ROAD

Manual Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), 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		
See Appendix for definitions and formulas						
Inspection Date: 7/12/2019	Beginning Section MP	0.00				
Paved Length (Miles): 0.07	Section Length (MI)	0.07				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	90	90				
Surface Condition Rating (SCR)	90	90				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	N/A	N/A				
Alligator Crack Index	90	90				
Longitudinal Crack Index	90	90				
Transverse Cracking Index	90	90				
Patching Index	97	97				
Rutting Index	90	90				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	24	24				
Lane Width (ft)	12	12				

Denali National Park and Preserve

ROUTE 0426: CONCESSIONS SUGARLOAF HALL ACCESS ROAD

Condition Photos

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



DENA_0426_1.jpg



DENA_0426_10.jpg



DENA_0426_11_EXTRA.jpg



DENA_0426_2.jpg



DENA_0426_3_EXTRA.jpg

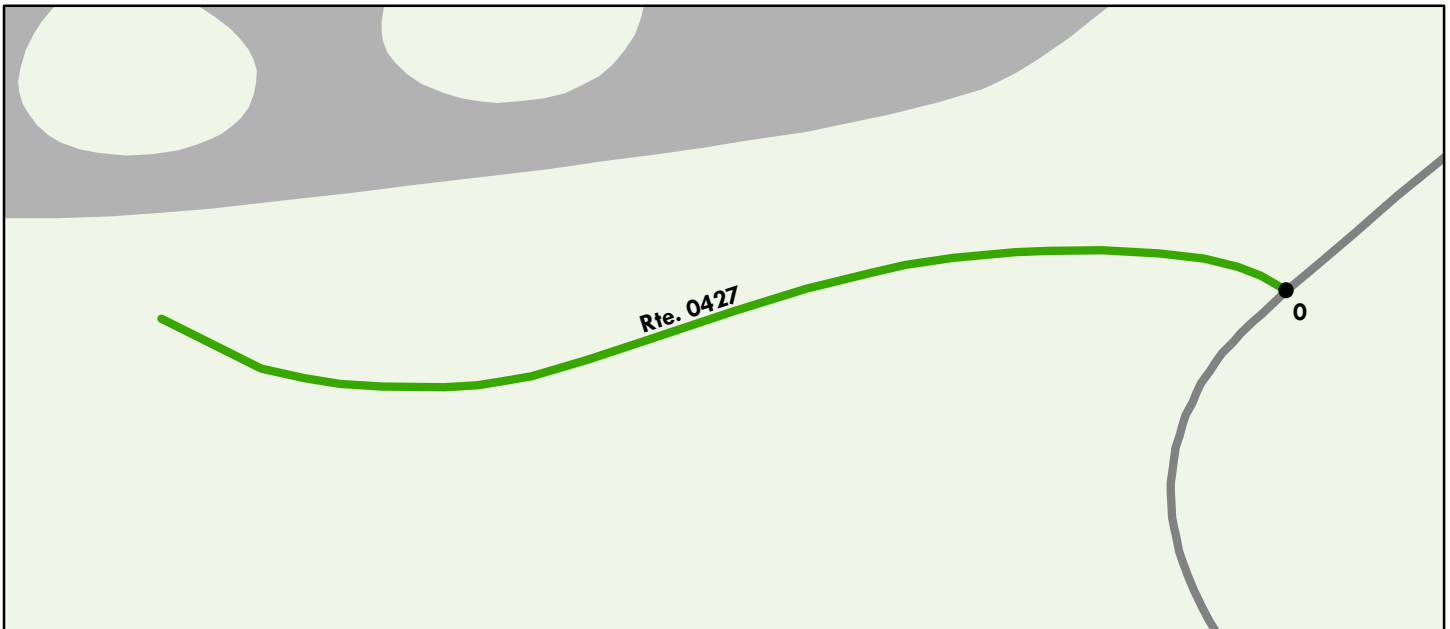


DENA_0426_4_EXTRA.jpg

Denali National Park and Preserve

ROUTE 0427: MORINO GRILL ACCESS ROAD

Manual Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), 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

See Appendix for definitions and formulas

Inspection Date: 7/12/2019	Beginning Section MP	0.00				
Paved Length (Miles): 0.05	Section Length (MI)	0.05				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	90	90				
Surface Condition Rating (SCR)	90	90				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	N/A	N/A				
Alligator Crack Index	90	90				
Longitudinal Crack Index	97	97				
Transverse Cracking Index	90	90				
Patching Index	97	97				
Rutting Index	97	97				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	15	15				
Lane Width (ft)	15	15				

Denali National Park and Preserve

ROUTE 0427: MORINO GRILL ACCESS ROAD

Condition Photos

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



DENA_0427_1.jpg



DENA_0427_2.jpg



DENA_0427_3_EXTRA.jpg



DENA_0427_4.jpg



DENA_0427_5.jpg



DENA_0427_6.jpg

Denali National Park and Preserve

ROUTE 0428: ARRC ACCESS ROAD

Manual Rating



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

Route Condition Legend



See Appendix for definitions and formulas

Inspection Date: 7/12/2019 Unpaved Length (Miles): 0.05 Surface Type: GRAVEL

Condition Summary Table for DENA-0428

Begin MP	End MP	Section Length	# of Lanes	Lane Width	Road Width	Treatment Recommendation	Treatment Cost	Unpaved Rating (Paser +)	Crown Severity	Drainage Severity	Rutting, Washboard Severity	Potholes / Loose Aggregate Severity	
0.00	0.05	0.05	2	14.0	28.0	Routine Maintenance	\$540	4	Low	Med	Low	Med	
Route Level Data:			0.05	2	14.0	28.0	Routine Maintenance	\$540	4	Low	Med	Low	Med

Denali National Park and Preserve

ROUTE 0428: ARRC ACCESS ROAD

Condition Photos



DENA_0428_0.004



DENA_0428_0.013



DENA_0428_0.019



DENA_0428_0.025



DENA_0428_0.038



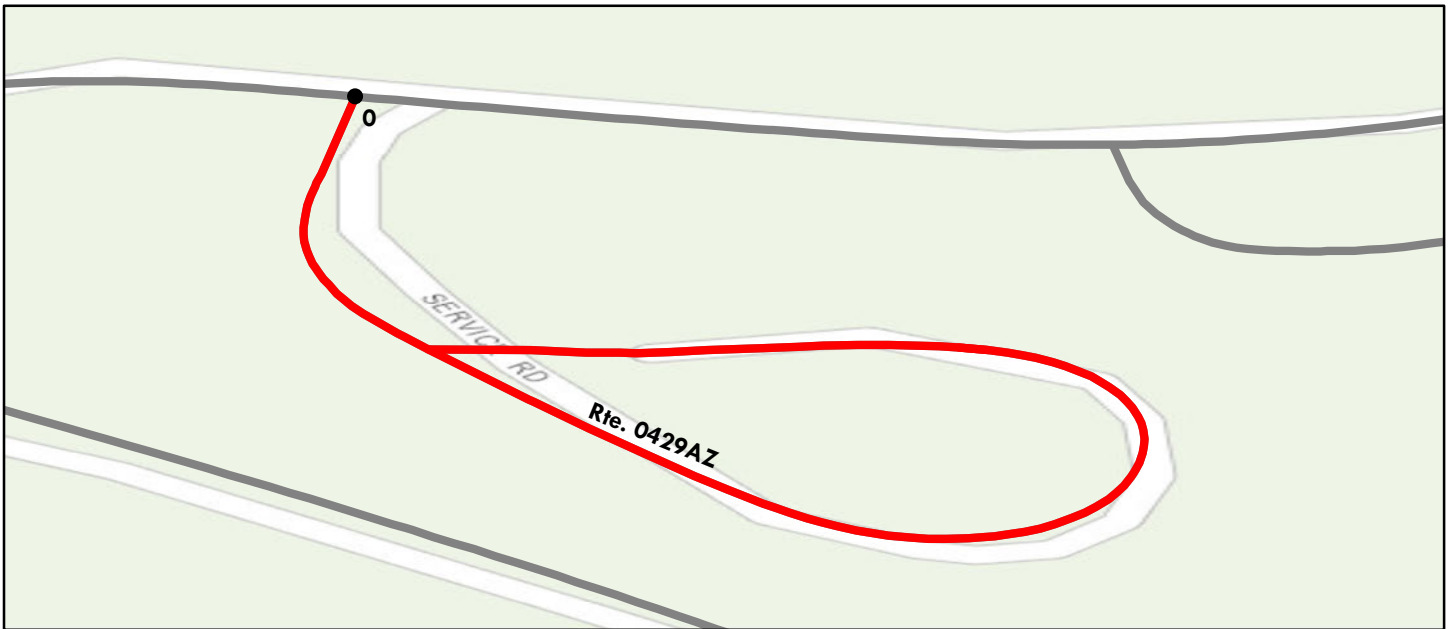
DENA_0428_0.044

Denali National Park and Preserve

ROUTE 0429AZ: BUS DEPOT DROP OFF LOOP

Subcomponent of Route DENA-0429ZZ

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.

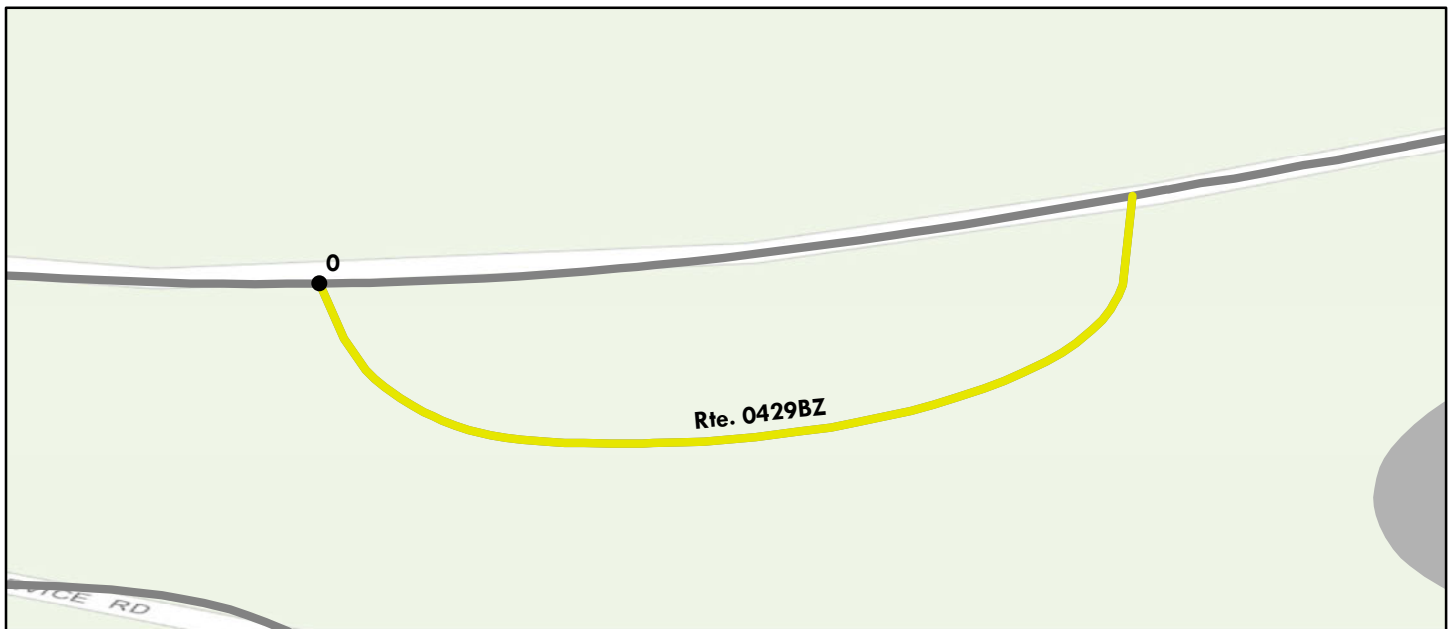
Inspection Date: 7/10/2019	Beginning Section MP	0				
Paved Length (Miles): 0.13	Section Length (MI)	0.13				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	41	41				
Surface Condition Rating (SCR)	41	41				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	79	79				
Alligator Crack Index	100	100				
Longitudinal Crack Index	79	79				
Transverse Cracking Index	41	41				
Patching Index	97	97				
Rutting Index	91	91				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	31.2	31.2				
Lane Width (ft)	31.2	31.2				

Denali National Park and Preserve

ROUTE 0429BZ: BUS DEPOT TURN AROUND

Subcomponent of Route DENA-0429ZZ

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: 7/10/2019	Beginning Section MP	0				
Paved Length (Miles): 0.05	Section Length (MI)	0.04				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	84	84				
Surface Condition Rating (SCR)	84	84				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	97	97				
Alligator Crack Index	100	100				
Longitudinal Crack Index	97	97				
Transverse Cracking Index	84	84				
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)	28.7	28.7				
Lane Width (ft)	28.7	28.7				

Section 6 Parking Area Condition Rating Sheets



Denali National Park & Preserve



Federal Lands Highway
Road Inventory Program

Denali National Park and Preserve

ROUTE 0900AZ: BUS DEPOT LOWER PARKING

Subcomponent of Route DENA-0900ZZ

Manual Rating

FROM ROUTE 0201 (WILDERNESS ACCESS CENTER (BUS DEPOT) ACCESS ROAD) AT MP 0.24 ON RIGHT
TO PARKING

Inspection Date	FMISS Number	User Access	Surface Type
7/8/2019	39788	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
62,020	1.068	5	DO NOTHING
Curb Type		Curb & Gutter Type	
ASPHALT AND WOOD		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

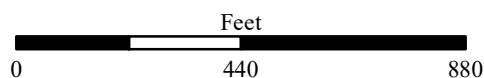
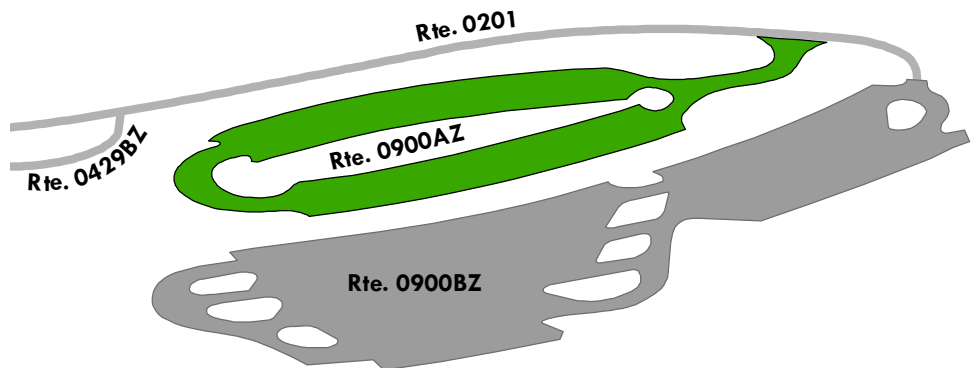
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0900BZ: BUS DEPOT UPPER PARKING

Subcomponent of Route DENA-0900ZZ

Manual Rating

FROM END OF ROUTE 0201 (WILDERNESS ACCESS CENTER (BUS DEPOT) ACCESS ROAD)

TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
7/8/2019	39788	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
125,645	2.163	5	DO NOTHING
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)

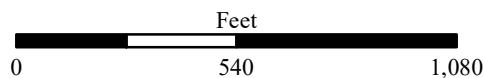
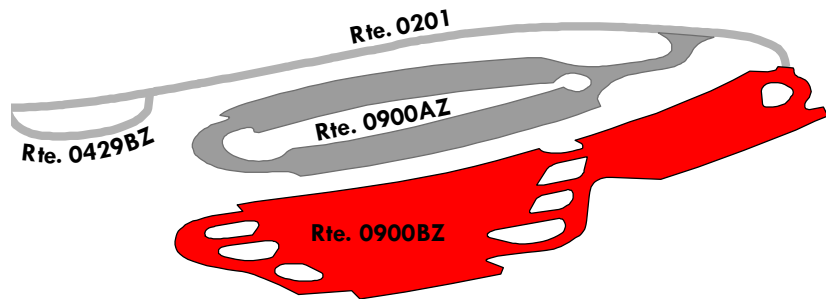
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0903: ENTRANCE SIGN PARKING

Manual Rating

FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 0.04 ON RIGHT

TO ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 0.07 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
7/8/2019	39797	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
12,212	0.21	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)

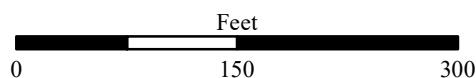
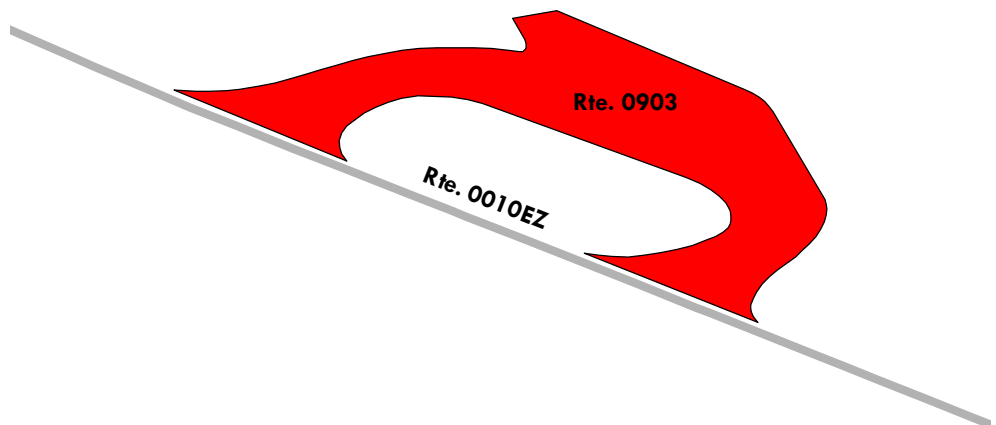
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0905BZ: HEADQUARTERS PARKING 1

Subcomponent of Route DENA-0905ZZ

Manual Rating

FROM ROUTE 0203 (HEADQUARTERS ACCESS ROAD) AT MP 0.08 ON RIGHT

TO PARKING

Inspection Date	FMS Number	User Access	Surface Type
7/11/2019	39800	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
13,223	0.228	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)

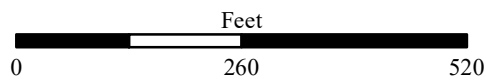
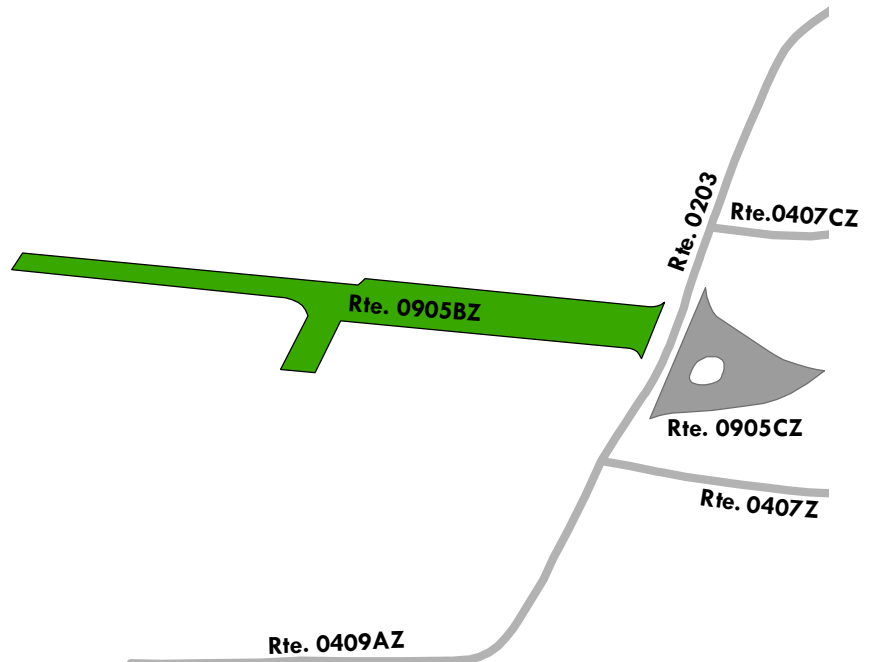
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0905CZ: HEADQUARTERS PARKING 2

Subcomponent of Route DENA-0905ZZ

Manual Rating

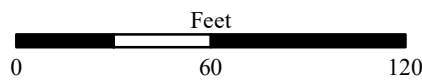
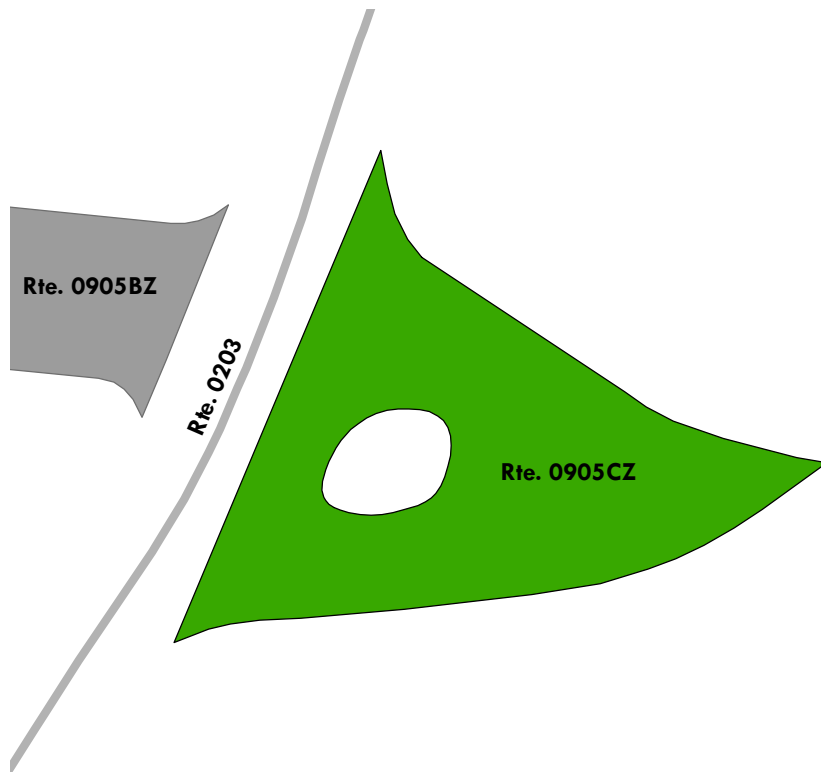
ADJACENT TO ROUTE 0203 (HEADQUARTERS ACCESS ROAD) AT MP 0.08 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
7/11/2019	39800	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
5,308	0.091	4	LIGHT REPAIR
Curb Type		Curb & Gutter Type	
WOOD		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

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



Denali National Park and Preserve

ROUTE 0906: SAVAGE RIVER EAST PARKING

Manual Rating

FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 14.74 ON RIGHT

TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	39801	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
23,832	0.41	5	DO NOTHING
Curb Type		Curb & Gutter Type	
RECYCLED PLASTIC LUMBER		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
LIGHT 3R TREATMENTS		FAIR / 73	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

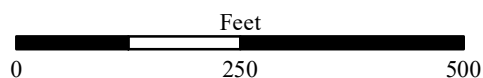
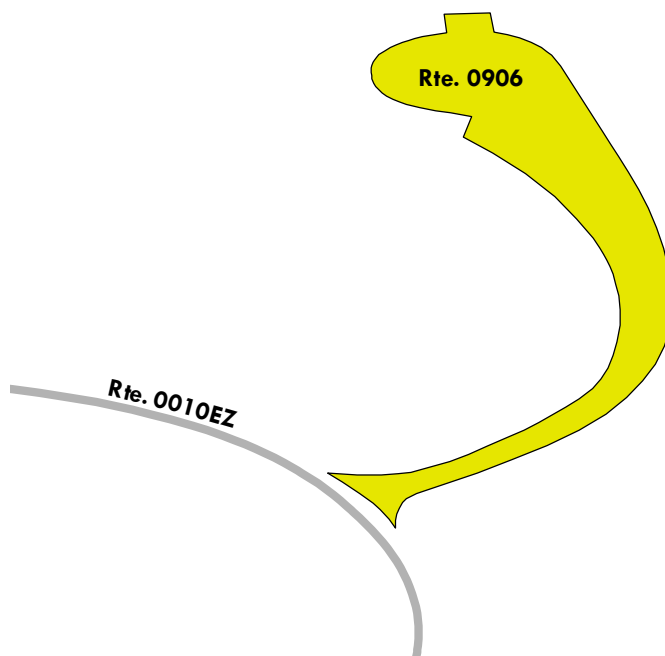
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0907: SAVAGE RIVER WEST PARKING

Manual Rating

FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 14.86 ON RIGHT

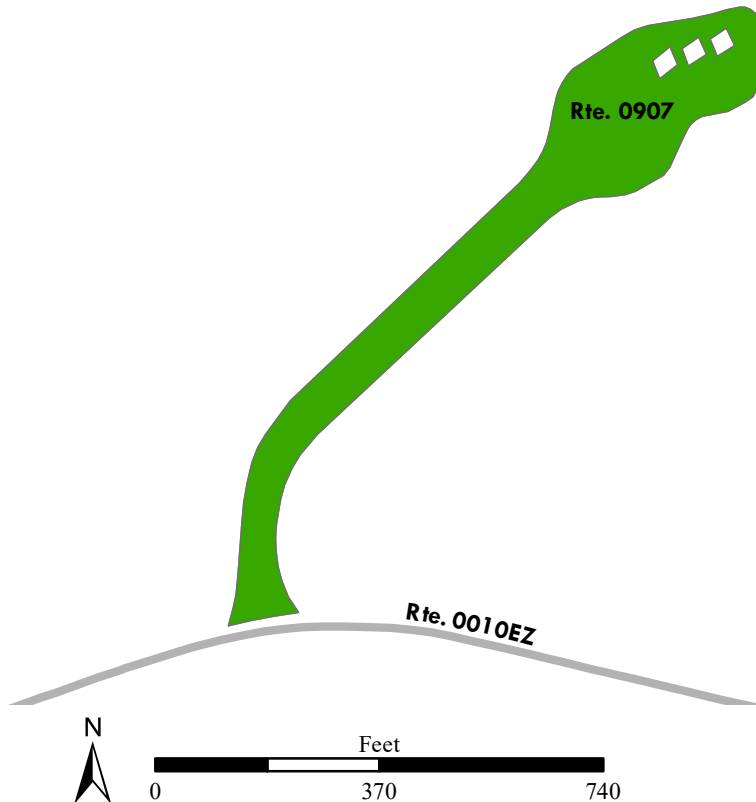
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
7/11/2019	39802	PUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
26,751	0.461	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Routine Maintenance		4	

Unpaved Condition Legend



See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0908A: EAST PRIMROSE PARKING

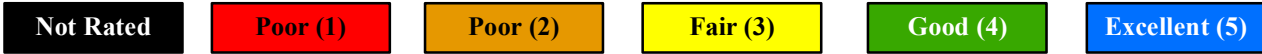
Manual Rating

FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 17.2 ON LEFT

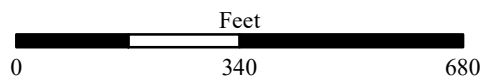
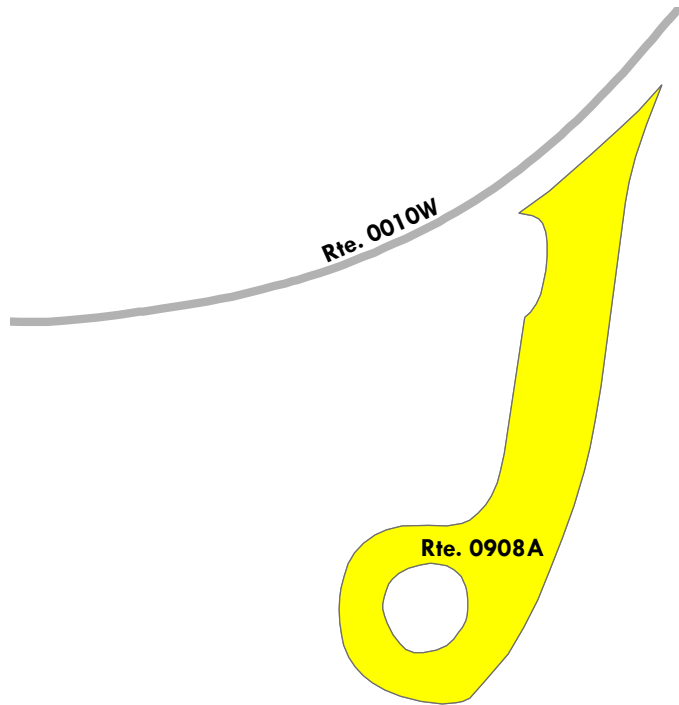
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
7/11/2019	99228	PUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
25,467	0.438	3	DO NOTHING
Curb Type		Curb & Gutter Type	
WOOD		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Light Rehabilitation		3	

Unpaved Condition Legend



See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0908B: WEST PRIMROSE PARKING

Manual Rating

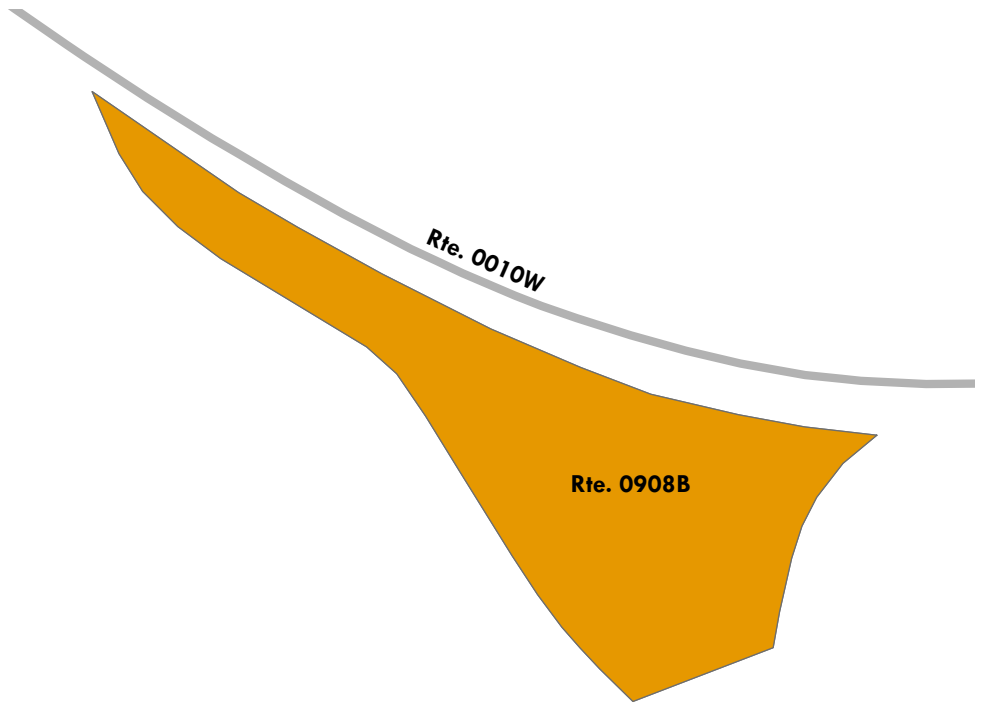
ADJACENT TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 17.30 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
7/11/2019	39803	PUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
7,129	0.123	3	DO NOTHING
Curb Type		Curb & Gutter Type	
WOOD		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Heavy Rehabilitation		2	

Unpaved Condition Legend



See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0909: MILE 20 VISTA PARKING

Manual Rating

FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 19.71 ON LEFT

TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 19.76 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
7/11/2019	39804	PUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
15,885	0.274	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Routine Maintenance		4	

Unpaved Condition Legend

Not Rated

Poor (1)

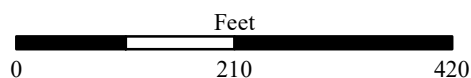
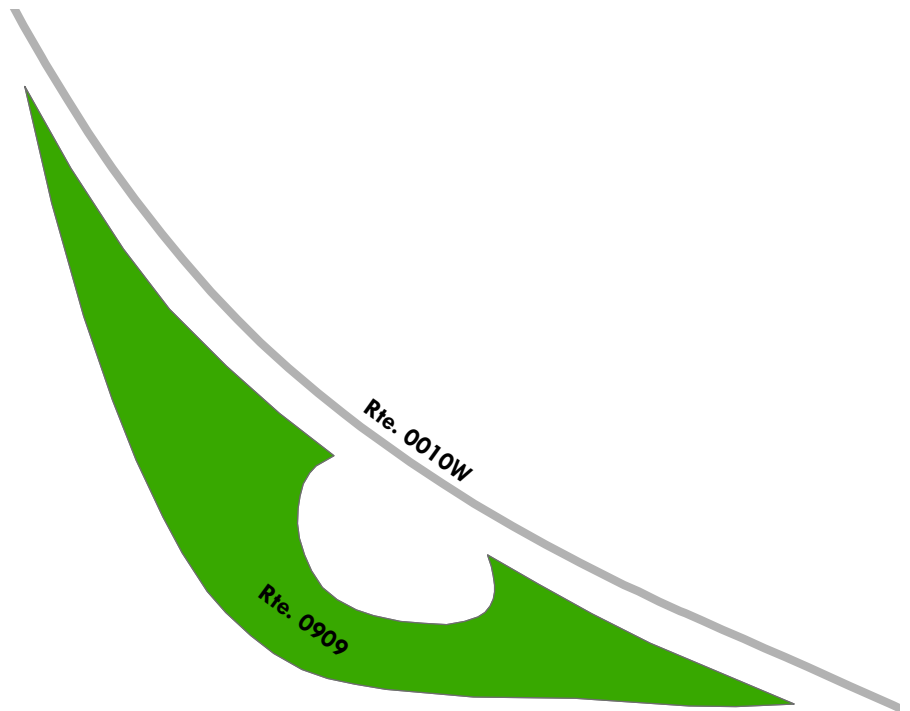
Poor (2)

Fair (3)

Good (4)

Excellent (5)

See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0911: TEKLANIKA REST STOP PARKING

Manual Rating

FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 30.28 ON RIGHT

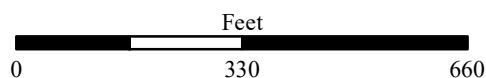
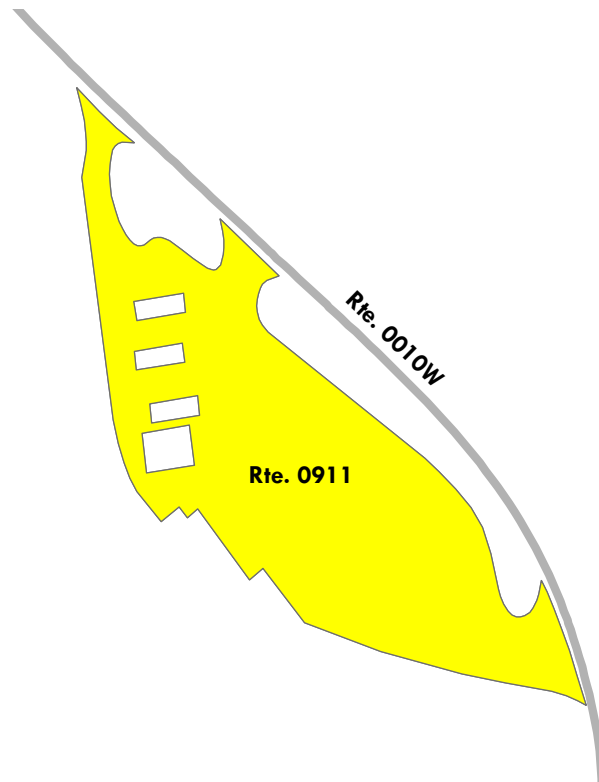
TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 30.37 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
7/11/2019	39806	PUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
42,012	0.723	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Light Rehabilitation		3	

Unpaved Condition Legend



See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0912: TOKLAT PARKING

Manual Rating

FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 53.57 ON RIGHT

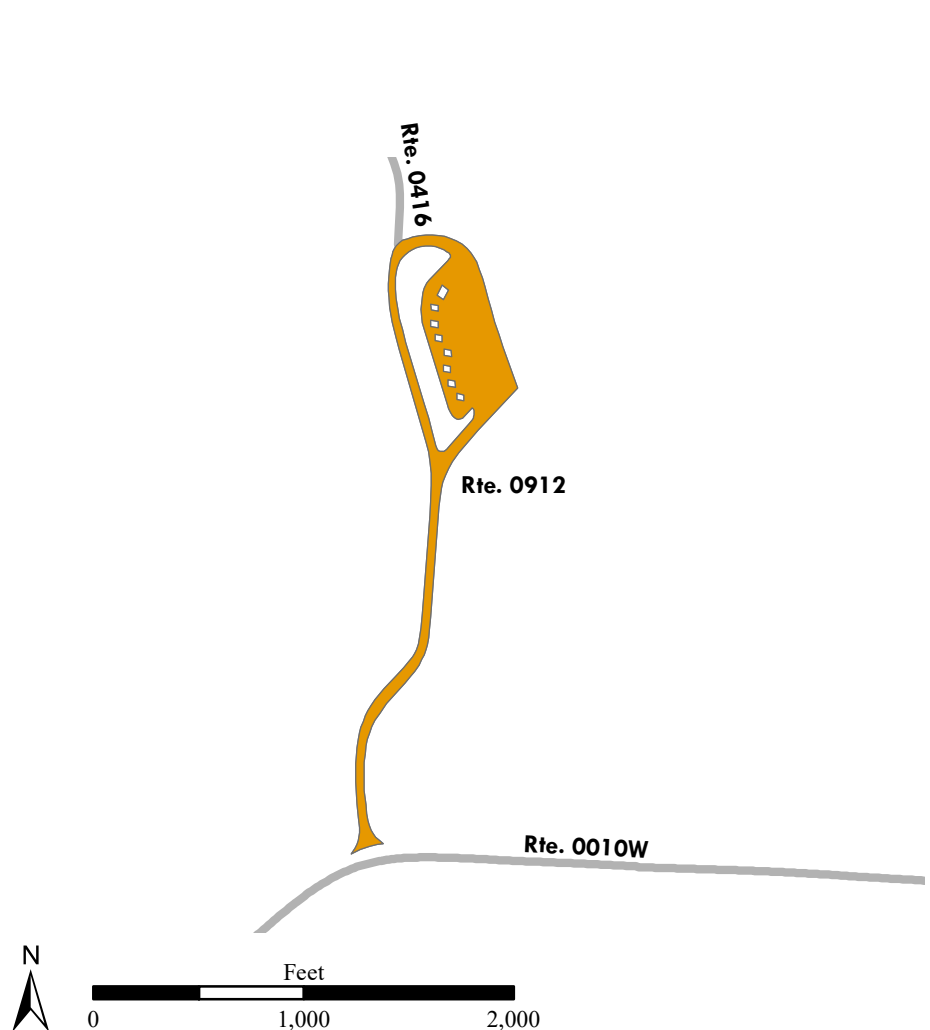
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
7/11/2019	100047	PUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
78,019	1.343	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Heavy Rehabilitation		2	

Unpaved Condition Legend



See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0913: STONY HILL OVERLOOK PARKING

Manual Rating

FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 62.07 ON LEFT

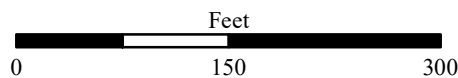
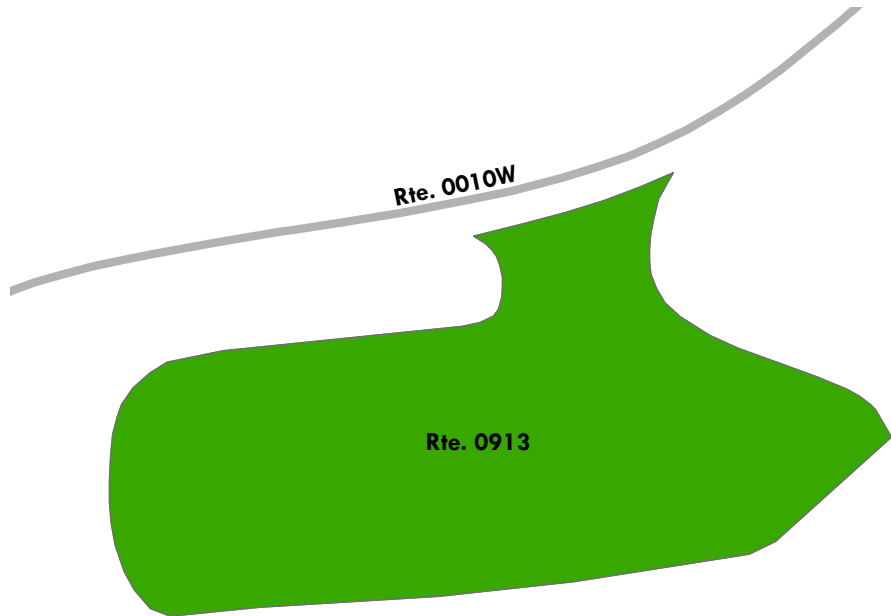
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
7/11/2019	38021	PUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
19,669	0.339	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Routine Maintenance		4	

Unpaved Condition Legend



See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0914: EIELSON VISITOR CENTER PARKING

Manual Rating

FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 66.01 ON LEFT

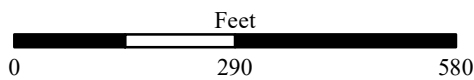
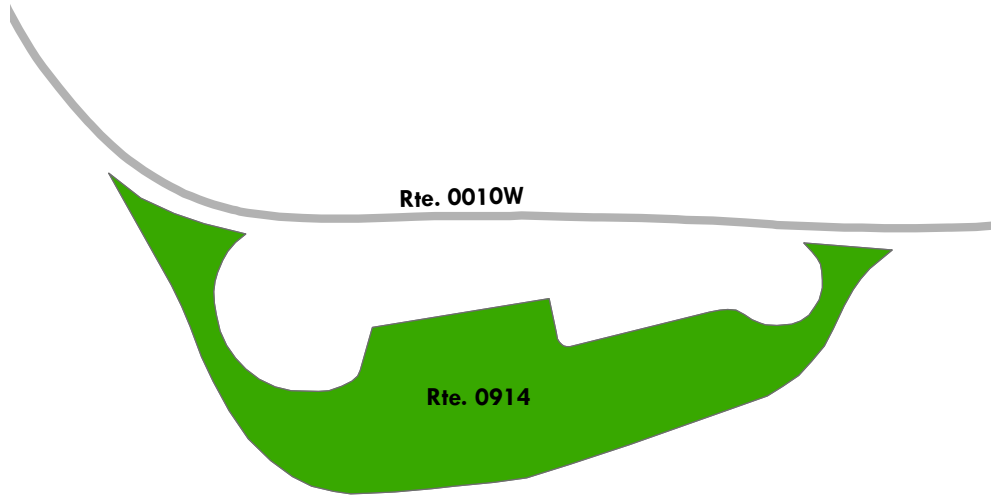
TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 66.08 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
7/11/2019	94869	PUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
28,540	0.491	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Routine Maintenance		4	

Unpaved Condition Legend



See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0916A: RILEY CREEK OVERFLOW PARKING (PAVED)

Manual Rating

FROM END OF ROUTE 0100 (RILEY CREEK CAMPGROUND ACCESS ROAD)

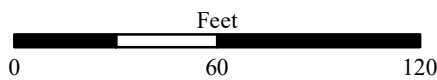
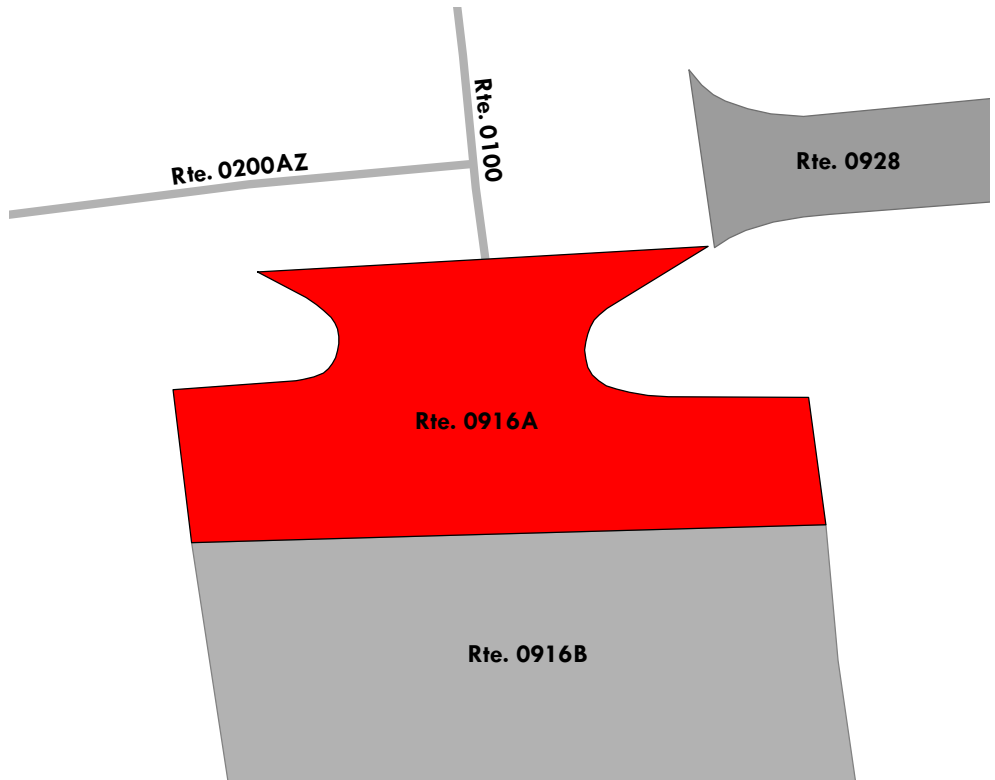
TO ROUTE 0916B (RILEY CREEK OVERFLOW PARKING (UNPAVED))

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	39810	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
5,076	0.087	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
HEAVY 3R TREATMENTS		POOR / 53	

Route Condition Legend – Pavement Condition Rating (PCR)

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



Denali National Park and Preserve

ROUTE 0916B: RILEY CREEK OVERFLOW PARKING (UNPAVED)

Manual Rating

FROM ROUTE 0916A (RILEY CREEK OVERFLOW PARKING (PAVED))
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	39809	PUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
56,623	0.975	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Routine Maintenance		4	

Unpaved Condition Legend

Not Rated

Poor (1)

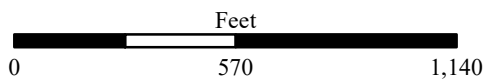
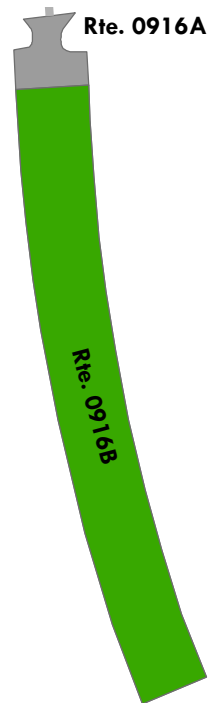
Poor (2)

Fair (3)

Good (4)

Excellent (5)

See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0920: BUS MAINTENANCE WEST PARKING

Manual Rating

FROM ROUTE 0404ZZ (FRONT COUNTRY WATER SUPPLY ROAD) AND ROUTE 0426 (CONCESSIONS SUGARLOAF HALL ACCESS ROAD)

TO ROUTE 0426 (CONCESSIONS SUGARLOAF HALL ACCESS ROAD) AT MP 0.13 ON RIGHT

Inspection Date	FMISS Number	User Access	Surface Type
7/12/2019	39813	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
54,751	0.943	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)

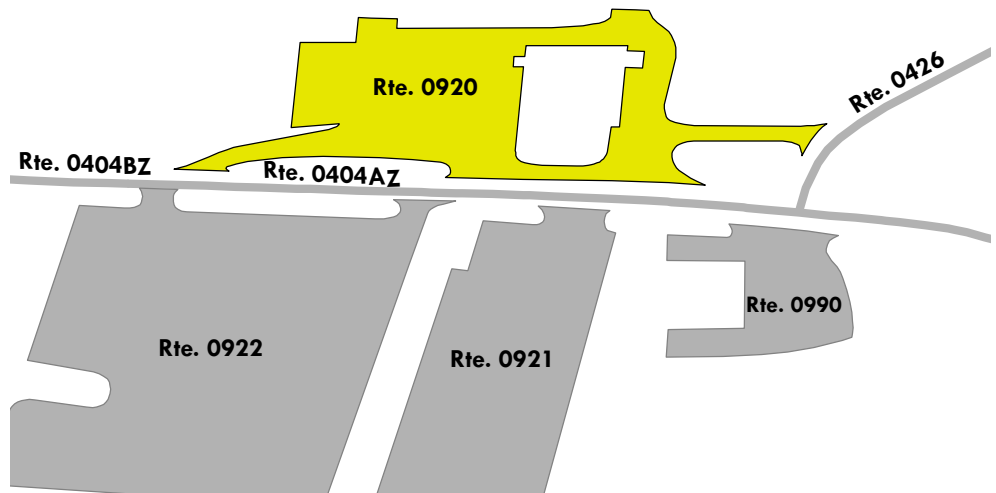
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0921: CONCESSIONS EMPLOYEE PARKING

Manual Rating

FROM ROUTE 0404ZZ (FRONT COUNTRY WATER SUPPLY ROAD) AND ROUTE 0920 (BUS MAINTENANCE WEST PARKING)

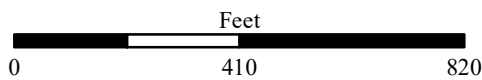
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	39814	PUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
53,596	0.923	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Routine Maintenance		4	

Unpaved Condition Legend



See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0922: CONCESSIONS BUS FLEET PARKING

Manual Rating

FROM ROUTE 0404ZZ (FRONT COUNTRY WATER SUPPLY ROAD) AT MP 0.10 ON LEFT

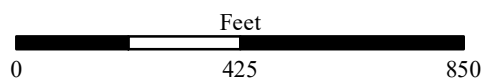
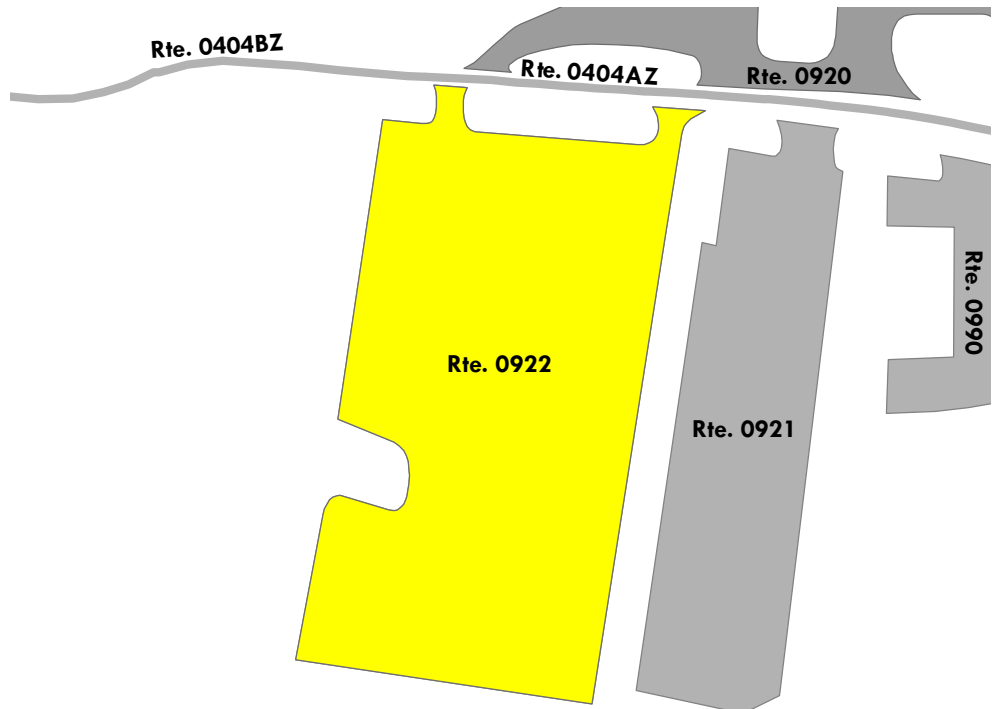
TO ROUTE 0404ZZ (FRONT COUNTRY WATER SUPPLY ROAD) AT 0.13 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	39815	PUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
114,313	1.968	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Light Rehabilitation		3	

Unpaved Condition Legend



See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0924: POWER STATION PARKING

Manual Rating

FROM ROUTE 0974 (DENALI VISITOR CENTER PARKING)

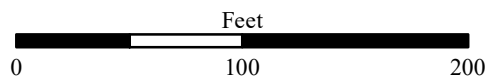
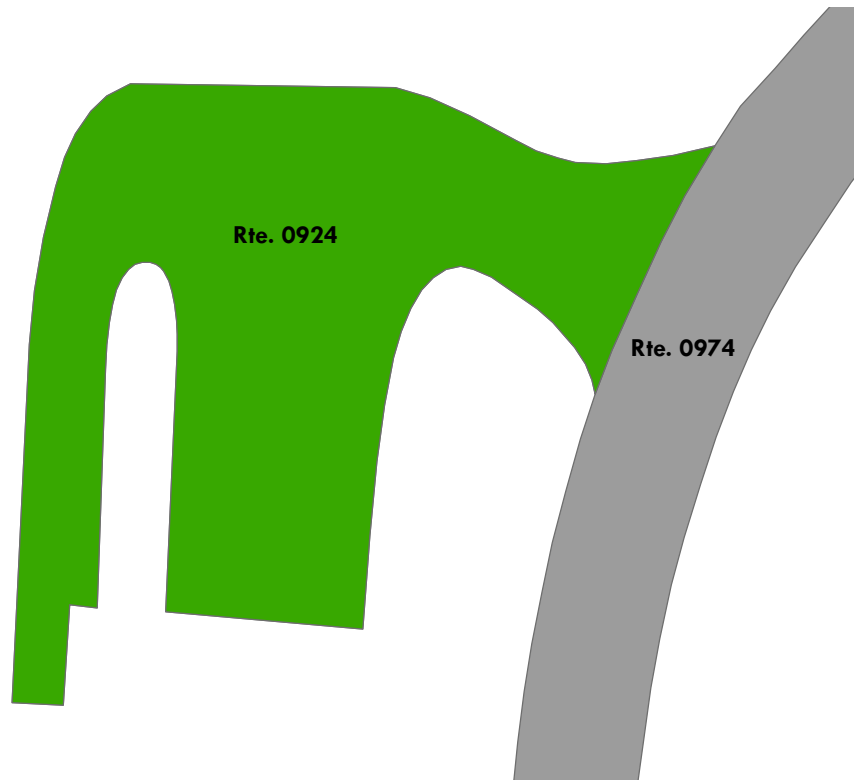
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	39817	NONPUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
8,198	0.141	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Routine Maintenance		4	

Unpaved Condition Legend



See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0925: FRONT COUNTRY SEWAGE LAGOON PARKING

Manual Rating

FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 0.23 ON RIGHT AND ROUTE 0928 (RILEY CREEK POST OFFICE PARKING)

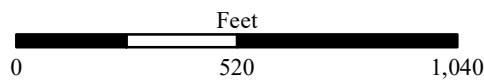
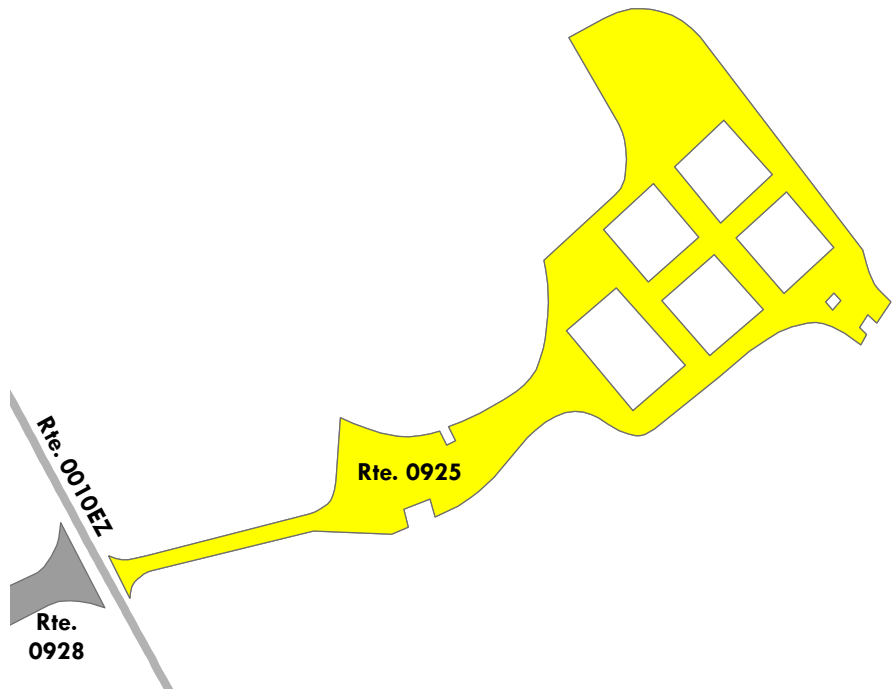
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	39818	NONPUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
84,475	1.454	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Light Rehabilitation		3	

Unpaved Condition Legend



See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0926A: RILEY CREEK CAMPGROUND BEAR LOOP RESTROOM PARKING A

Manual Rating

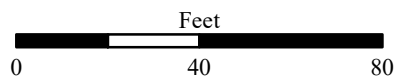
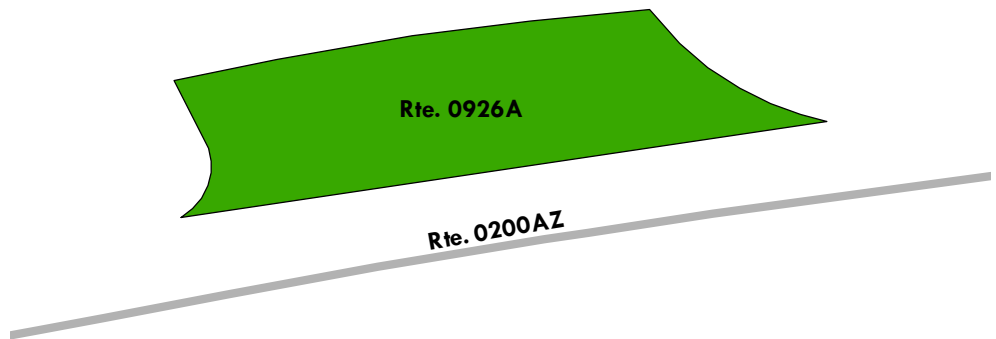
ADJACENT TO ROUTE 0200ZZ (RILEY CREEK CAMPGROUND LOOPS) AT MP 0.09 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	39819	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,593	0.027	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

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



Denali National Park and Preserve

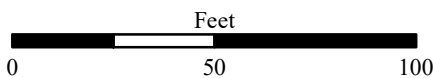
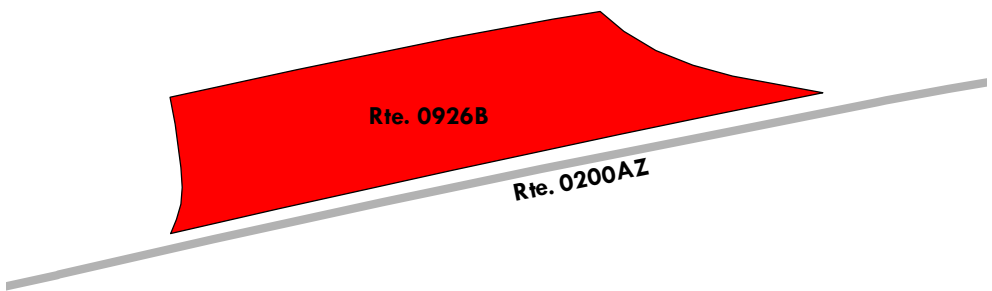
ROUTE 0926B: RILEY CREEK CAMPGROUND BEAR LOOP RESTROOM PARKING B

Manual Rating

ADJACENT TO ROUTE 0200ZZ (RILEY CREEK CAMPGROUND LOOPS) AT MP 0.2 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	99229	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,853	0.032	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				



Denali National Park and Preserve

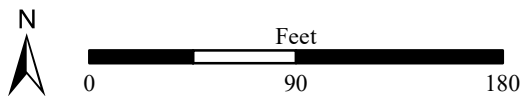
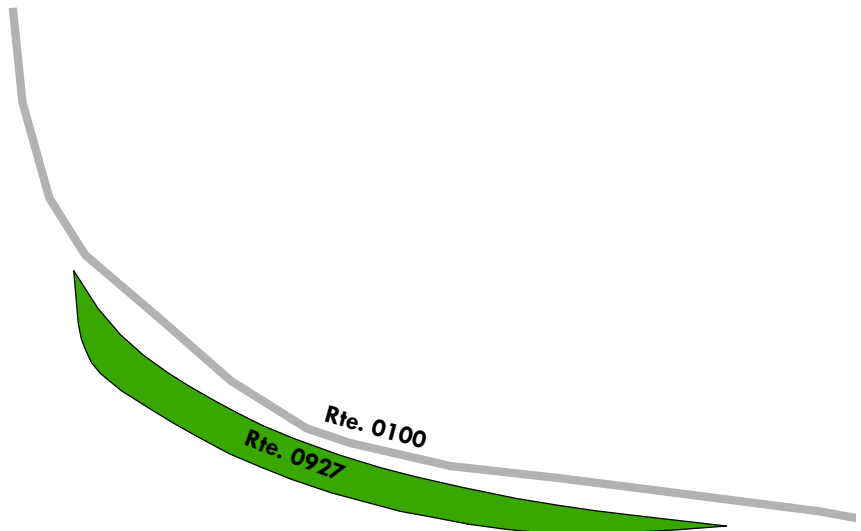
ROUTE 0927: RILEY CREEK CAMPGROUND MERCANTILE SHUTTLE STOP

Manual Rating

ADJACENT TO ROUTE 0100 (RILEY CREEK CAMPGROUND ACCESS ROAD) AT 0.02 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	39820	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,921	0.033	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				



Denali National Park and Preserve

ROUTE 0928: RILEY CREEK POST OFFICE PARKING

Manual Rating

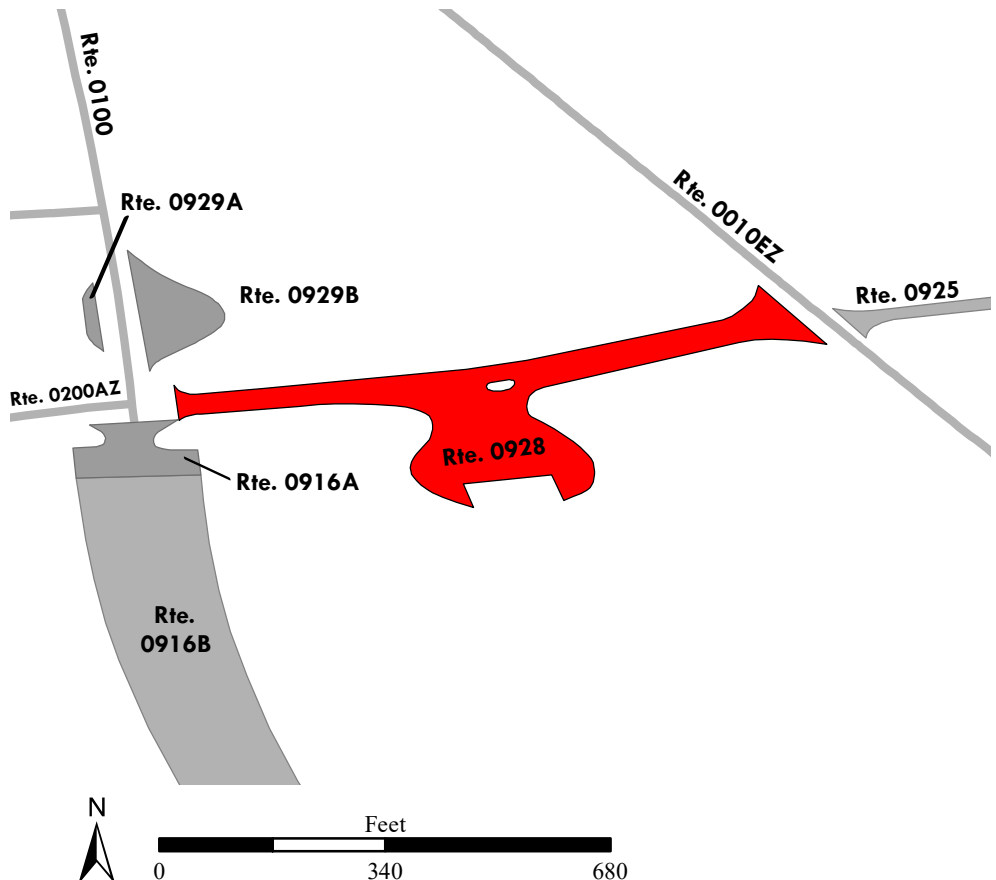
FROM END OF ROUTE 0100 (RILEY CREEK CAMPGROUND ACCESS ROAD) ON LEFT
TO ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AND ROUTE 0925 (FRONT COUNTRY SEWAGE LAGOON
PARKING)

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	39816	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
30,644	0.528	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
HEAVY 3R TREATMENTS		POOR / 53	

Route Condition Legend – Pavement Condition Rating (PCR)

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



Denali National Park and Preserve

ROUTE 0929A: RILEY CREEK SHUTTLE STOP

Manual Rating

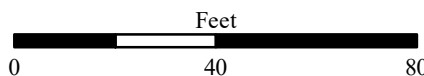
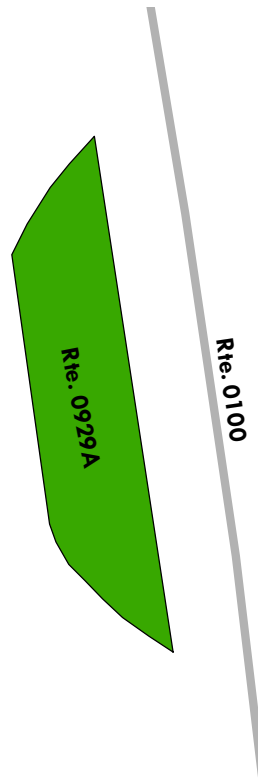
ADJACENT TO ROUTE 0100 (RILEY CREEK CAMPGROUND ACCESS ROAD) AT MP 0.17 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	39822	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
747	0.013	5	DO NOTHING
Curb Type		Curb & Gutter Type	
WOOD		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

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



Denali National Park and Preserve

ROUTE 0929B: RILEY CREEK SHUTTLE BUS TURN AROUND

Manual Rating

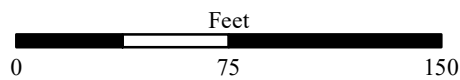
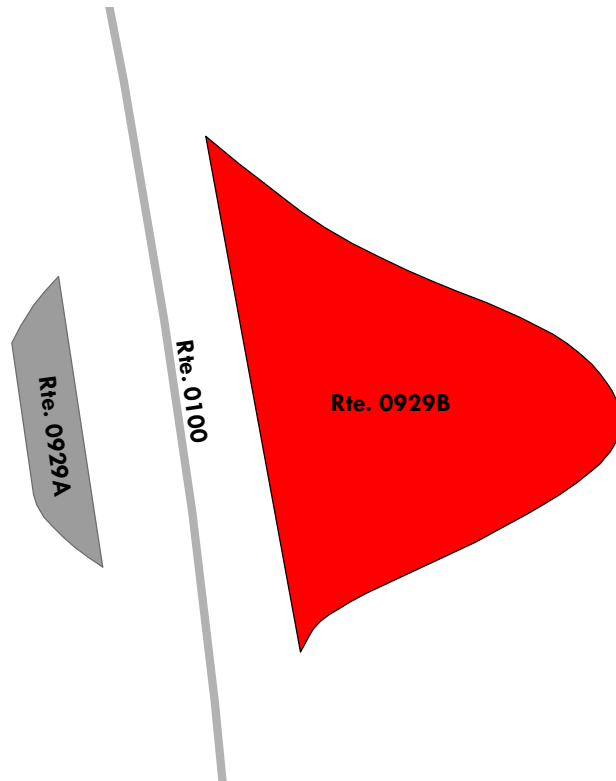
ADJACENT TO ROUTE 0100 (RILEY CREEK CAMPGROUND ACCESS ROAD) AT MP 0.18 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	100048	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
5,614	0.097	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
HEAVY 3R TREATMENTS		POOR / 53	

Route Condition Legend – Pavement Condition Rating (PCR)

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



Denali National Park and Preserve

ROUTE 0930: SAVAGE RIVER CAMPGROUND SHUTTLE STOP

Manual Rating

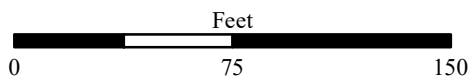
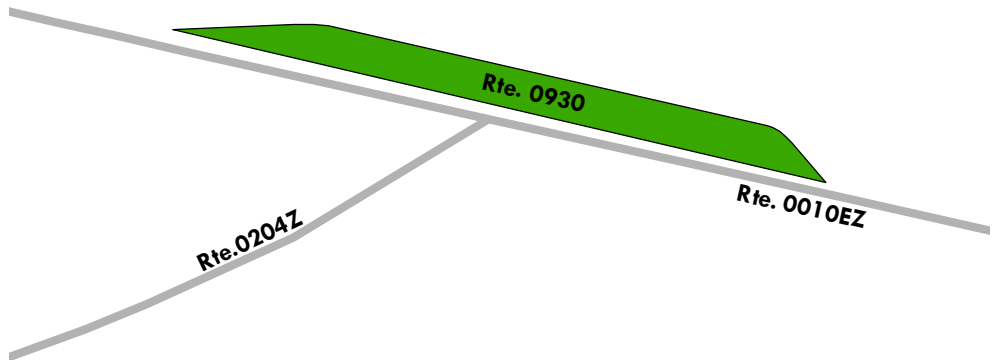
ADJACENT TO ROUTE 0010EZZ (DENALI PARK ROAD - EAST) MP 12.81 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	39823	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,216	0.021	5	DO NOTHING
Curb Type		Curb & Gutter Type	
WOOD		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

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



Denali National Park and Preserve

ROUTE 0931: SAVAGE CABIN TRAILHEAD PARKING

Manual Rating

ADJACENT TO ROUTE 0010EZZ (DENALI PARK ROAD - EAST) MP 12.96 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	39824	PUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
10,416	0.179	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Routine Maintenance		4	

Unpaved Condition Legend

Not Rated

Poor (1)

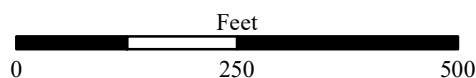
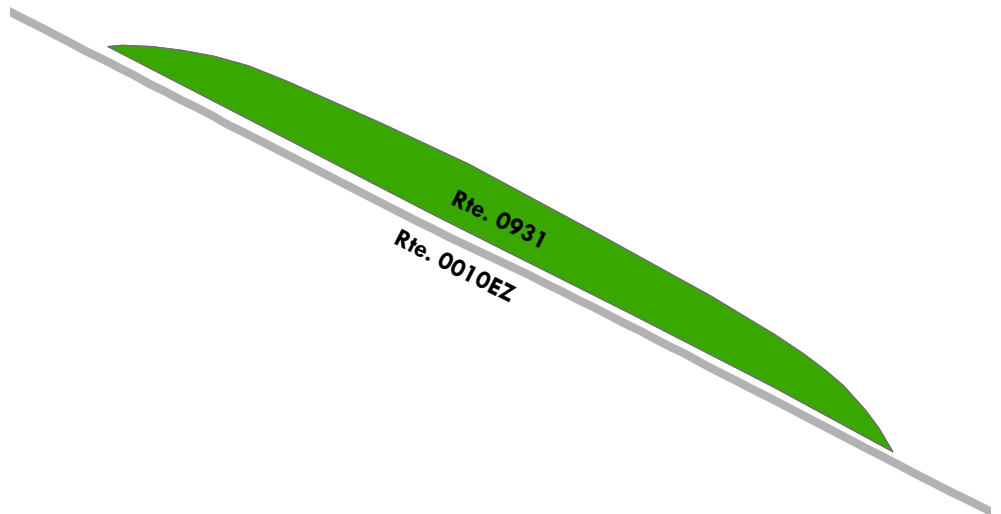
Poor (2)

Fair (3)

Good (4)

Excellent (5)

See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0932: SAVAGE RIVER VIEWPOINT PARKING

Manual Rating

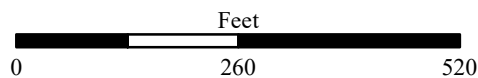
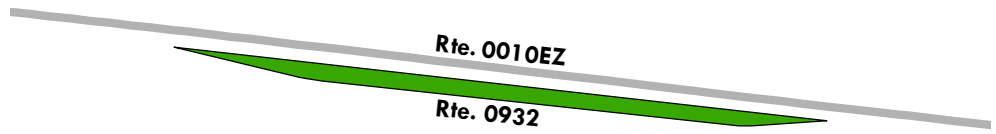
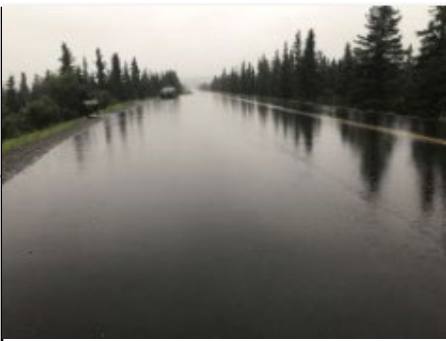
ADJACENT TO ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 11.78 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	39825	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
5,494	0.095	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

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



Denali National Park and Preserve

ROUTE 0933: AUTO SHOP MAINTENANCE PARKING

Manual Rating

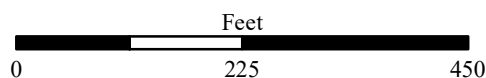
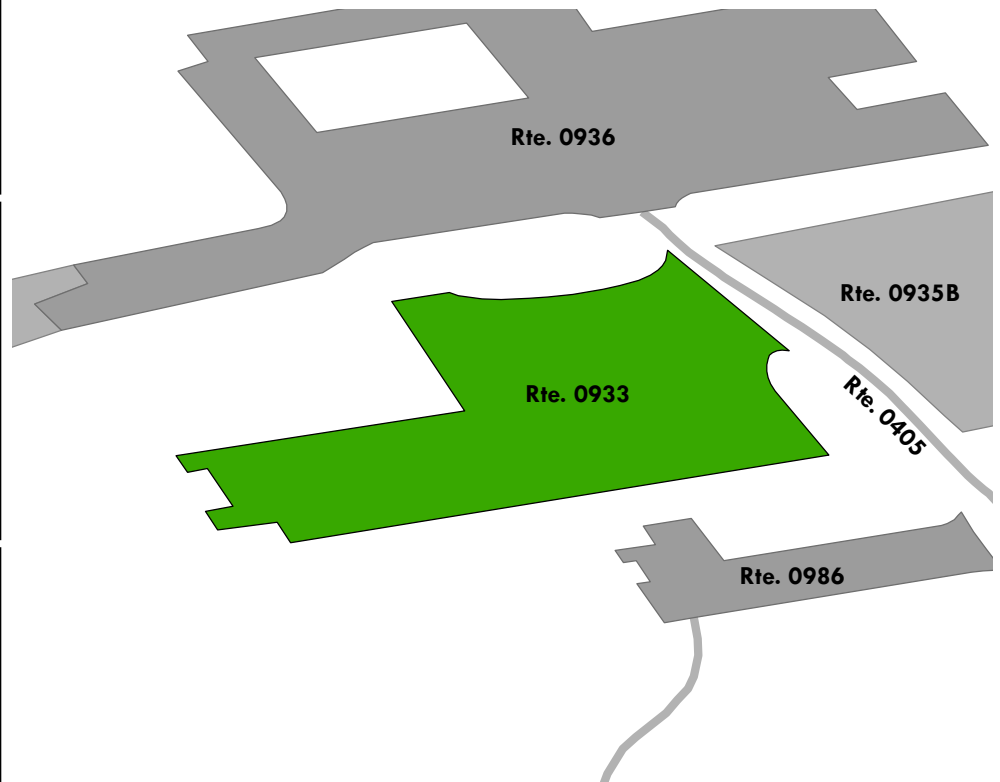
FROM ROUTE 0405 (C CAMP RESIDENCE AND MAINTENANCE ROAD) ON LEFT
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	39826	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
40,728	0.701	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

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



Denali National Park and Preserve

ROUTE 0935B: MAINTENANCE EQUIPMENT PARKING

Manual Rating

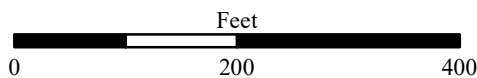
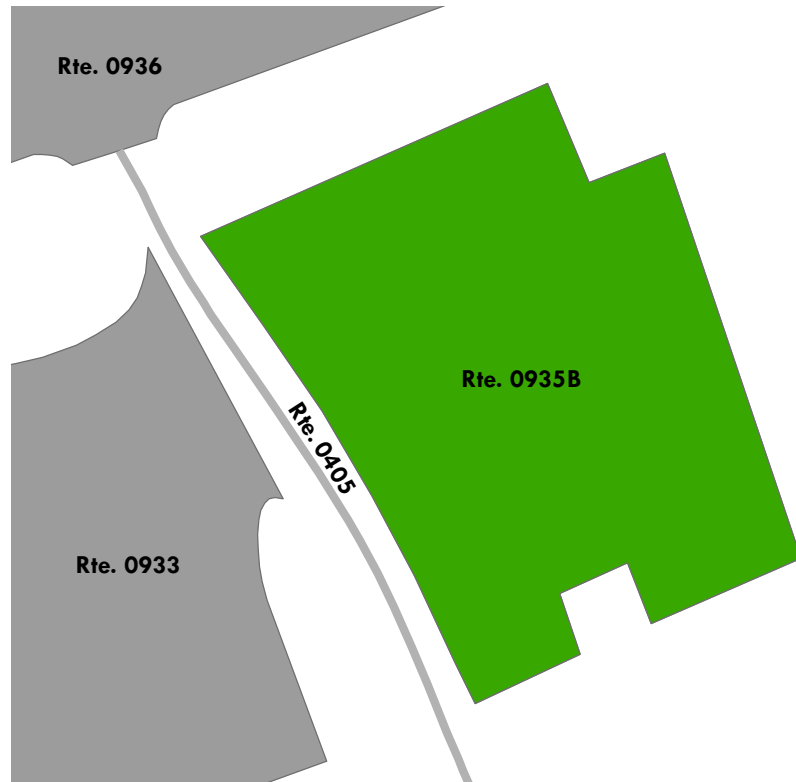
FROM ROUTE 0405 (C CAMP RESIDENCE AND MAINTENANCE ROAD) AT MP 0.18 ON RIGHT
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	100049	NONPUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
32,004	0.551	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Routine Maintenance		4	

Unpaved Condition Legend

Not Rated	Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)
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See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0936: B AND U PAD PARKING

Manual Rating

FROM END OF ROUTE 0405 (C CAMP RESIDENCE AND MAINTENANCE ROAD)

TO ROUTE 0984 (MAINTENANCE UPPER GRAVEL PARKING)

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	39829	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
61,722	1.063	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)

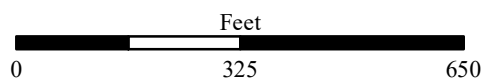
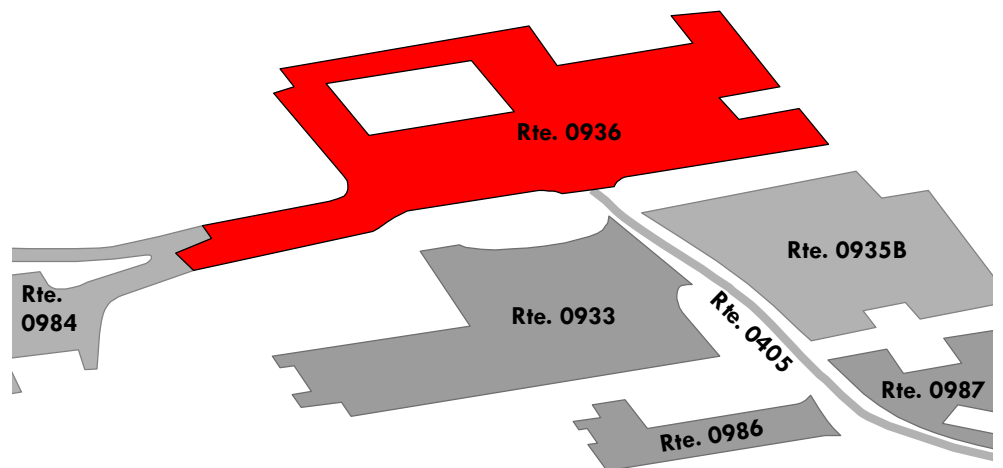
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0938: TOKLAT MAINTENANCE CAMP PARKING

Manual Rating

FROM END OF ROUTE 0416 (TOKLAT MAINTENANCE CAMP ROAD)

TO ROUTE 0419ZZ (TOKLAT CAMP RESIDENCE ROADS)

Inspection Date	FMSS Number	User Access	Surface Type
7/11/2019	39831	NONPUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
84,014	1.447	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Heavy Rehabilitation		2	

Unpaved Condition Legend

Not Rated

Poor (1)

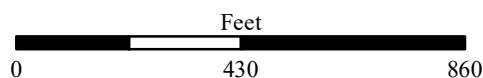
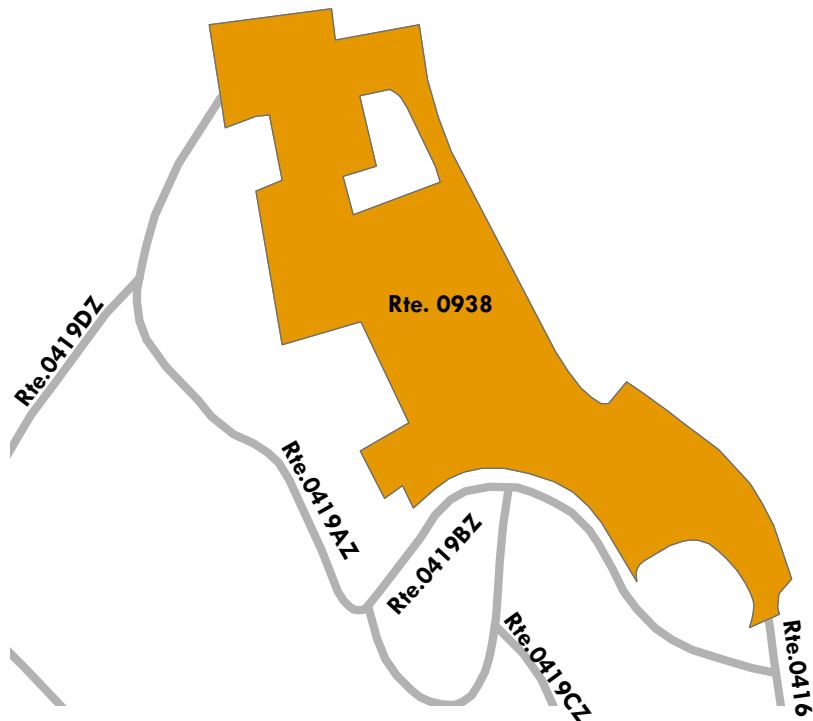
Poor (2)

Fair (3)

Good (4)

Excellent (5)

See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0939: FIVE MILE PIT STORAGE AREA

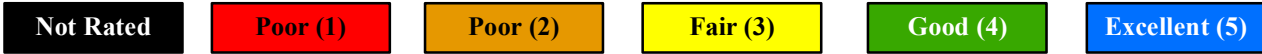
Manual Rating

FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 5.63 ON RIGHT

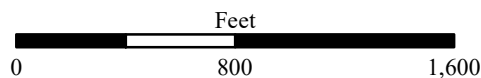
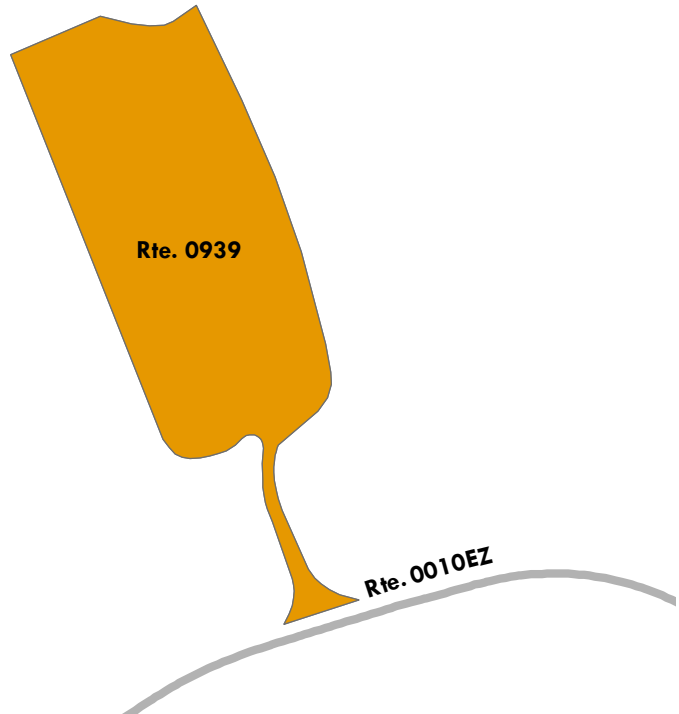
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	39832	NONPUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
232,104	3.996	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Heavy Rehabilitation		2	

Unpaved Condition Legend



See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0941: IGLOO PIT STORAGE AREA

Manual Rating

FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 34.11 ON RIGHT

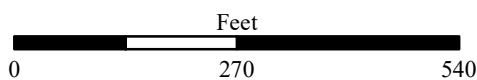
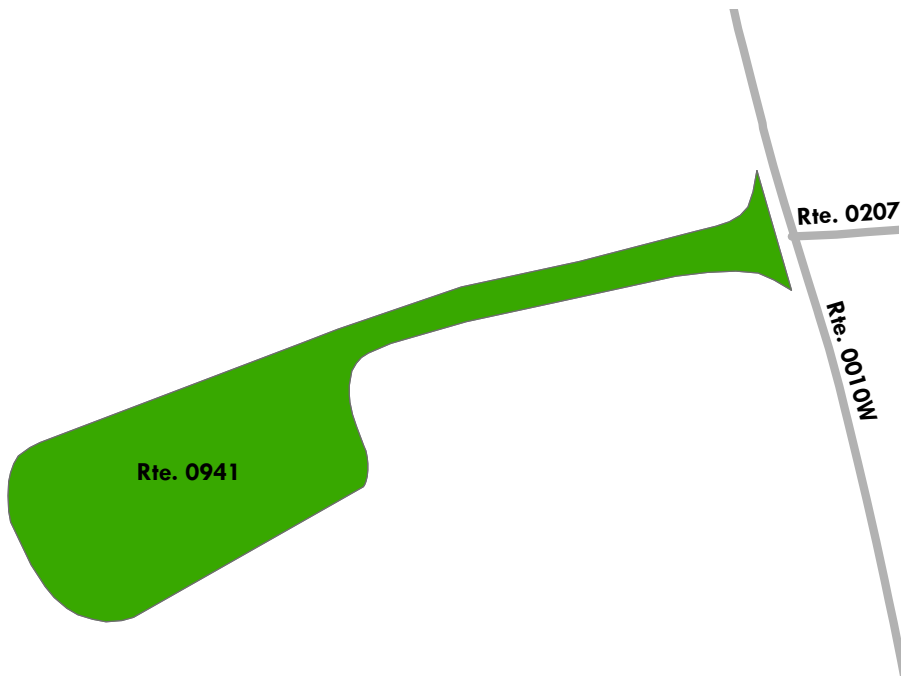
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
7/11/2019	39834	NONPUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
23,509	0.405	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Routine Maintenance		4	

Unpaved Condition Legend



See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0942: MILE 25.85 PARKING

Manual Rating

FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 25.88 ON RIGHT

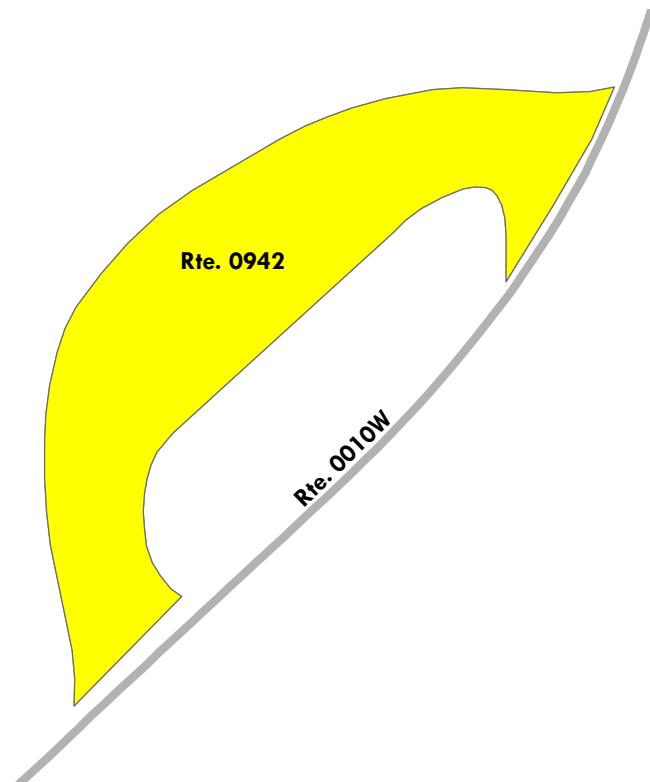
TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 25.93 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
7/11/2019	39835	PUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
17,467	0.301	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Light Rehabilitation		3	

Unpaved Condition Legend



See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0944: TEKLANIKA CAMP HOST PARKING

Manual Rating

FROM ROUTE 0206 (TEKLANIKA CAMPGROUND ACCESS ROAD)

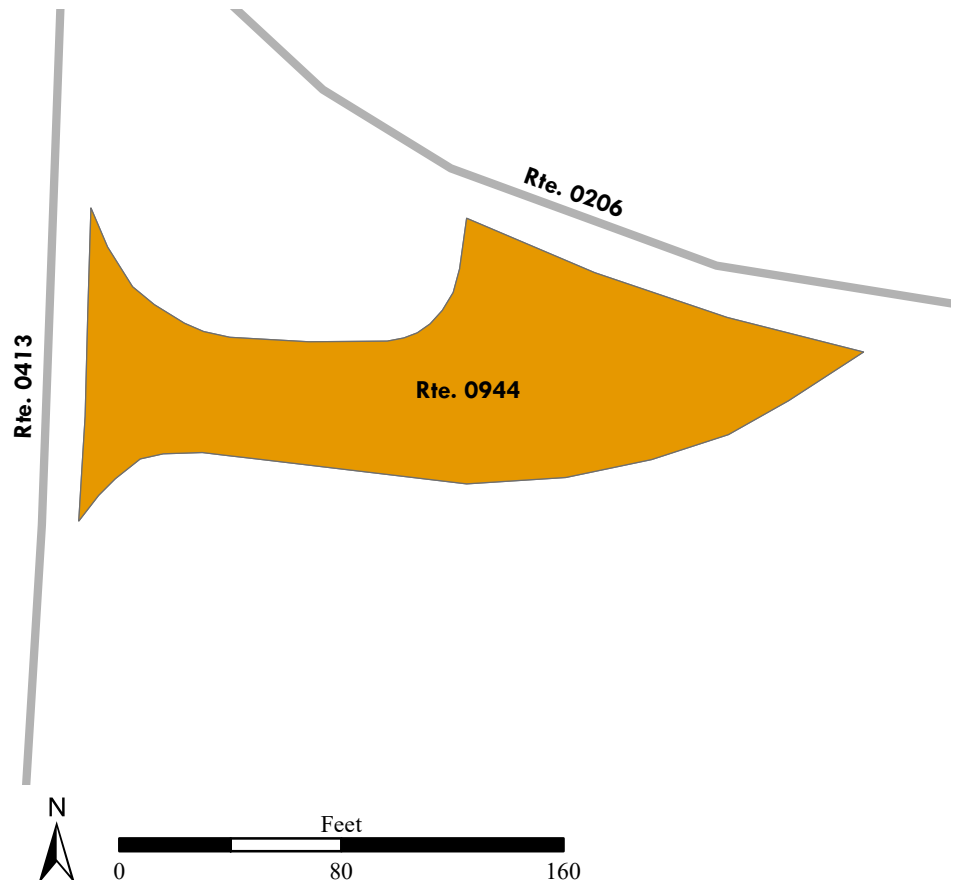
TO ROUTE 0413 (TEKLANIKA CAMPGROUND SERVICE ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
7/11/2019	39837	NONPUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
2,981	0.051	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Heavy Rehabilitation		2	

Unpaved Condition Legend



See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0945: TOKLAT BRIDGE LOOP PARKING

Manual Rating

FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 52.52 ON RIGHT

TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 52.67 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
7/11/2019	39838	PUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
19,135	0.329	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Light Rehabilitation		3	

Unpaved Condition Legend

Not Rated

Poor (1)

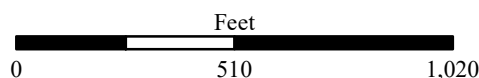
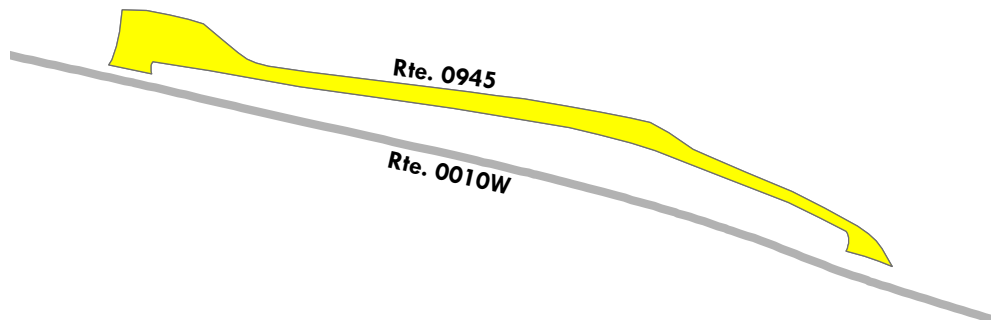
Poor (2)

Fair (3)

Good (4)

Excellent (5)

See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0946: MOOSE CREEK PIT PARKING

Manual Rating

FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 74.79 ON RIGHT

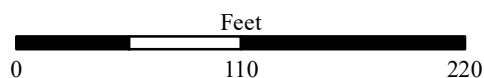
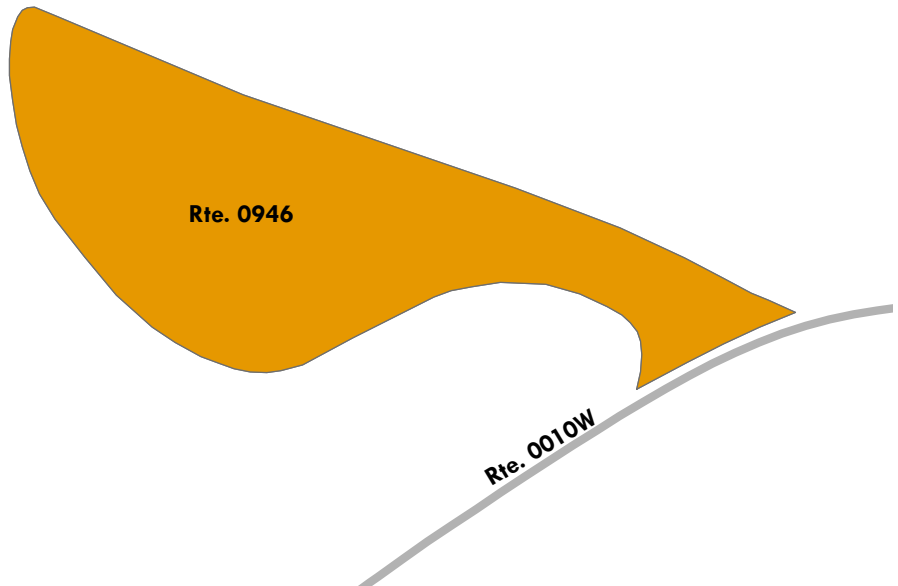
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
7/11/2019	39839	NONPUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
6,178	0.106	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Heavy Rehabilitation		2	

Unpaved Condition Legend



See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0947: HIDEOUT PIT PARKING

Manual Rating

FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 76.78 ON RIGHT

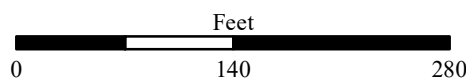
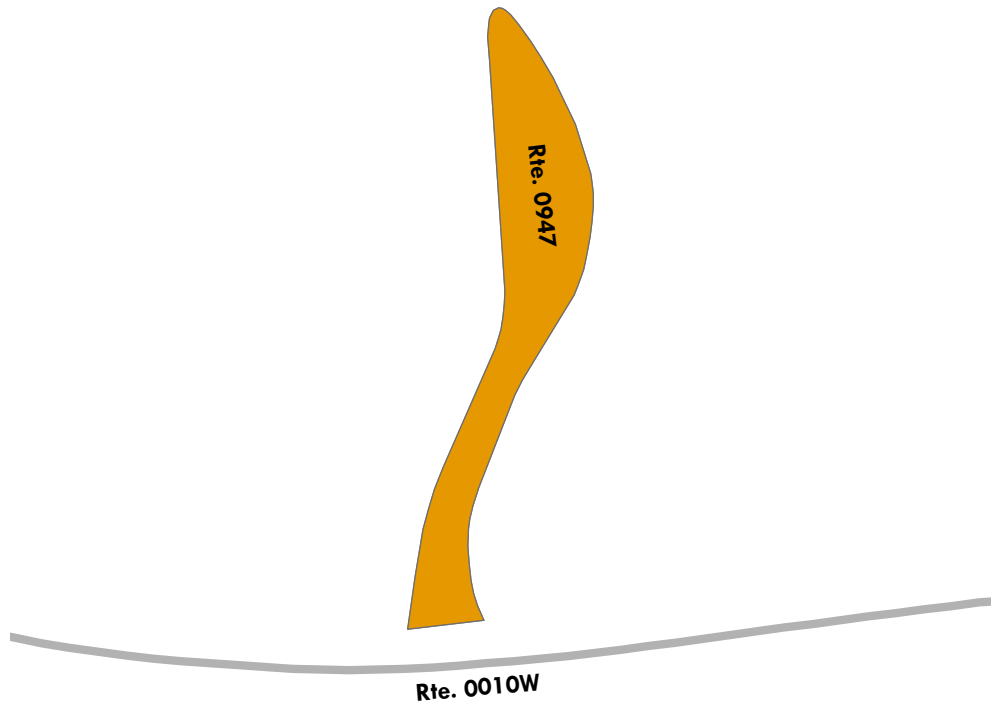
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
7/11/2019	39840	NONPUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
3,130	0.054	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Heavy Rehabilitation		2	

Unpaved Condition Legend



See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0948: DUCK POND PULLOUT PARKING

Manual Rating

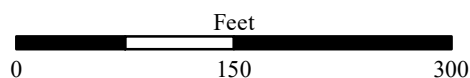
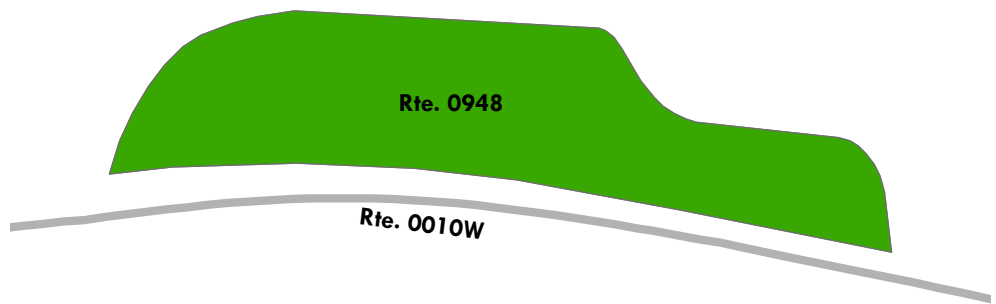
ADJACENT TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 79.34 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
7/11/2019	39843	PUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
9,409	0.162	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Routine Maintenance		4	

Unpaved Condition Legend



See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0949: DALLE-MOLLEVILLE PARKING

Manual Rating

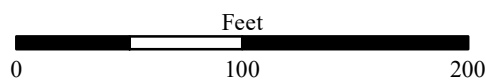
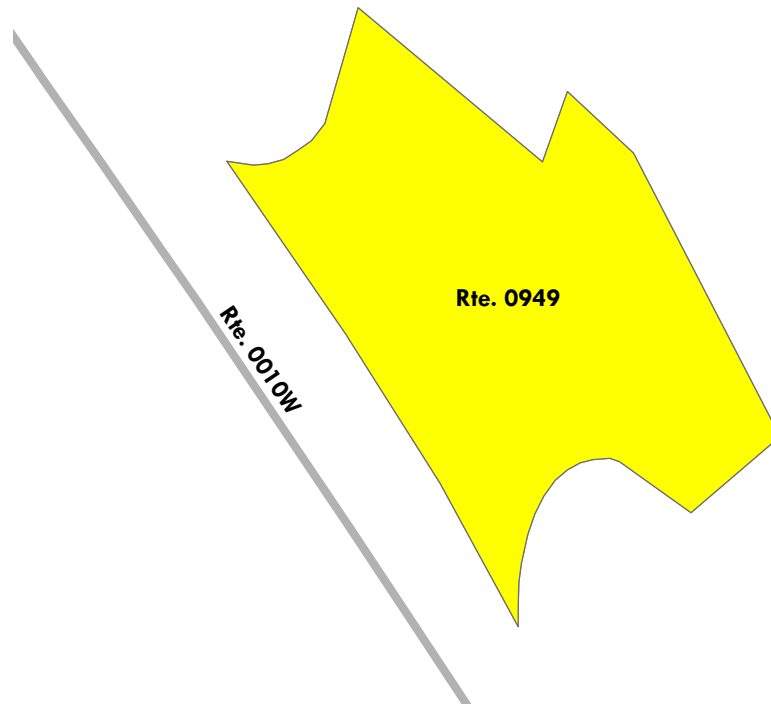
ADJACENT TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 84.77 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
7/11/2019	39844	NONPUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
5,885	0.101	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Light Rehabilitation		3	

Unpaved Condition Legend



See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0950: WONDER LAKE RANGER STATION PARKING

Manual Rating

FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 86.67 ON RIGHT

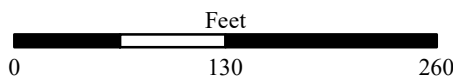
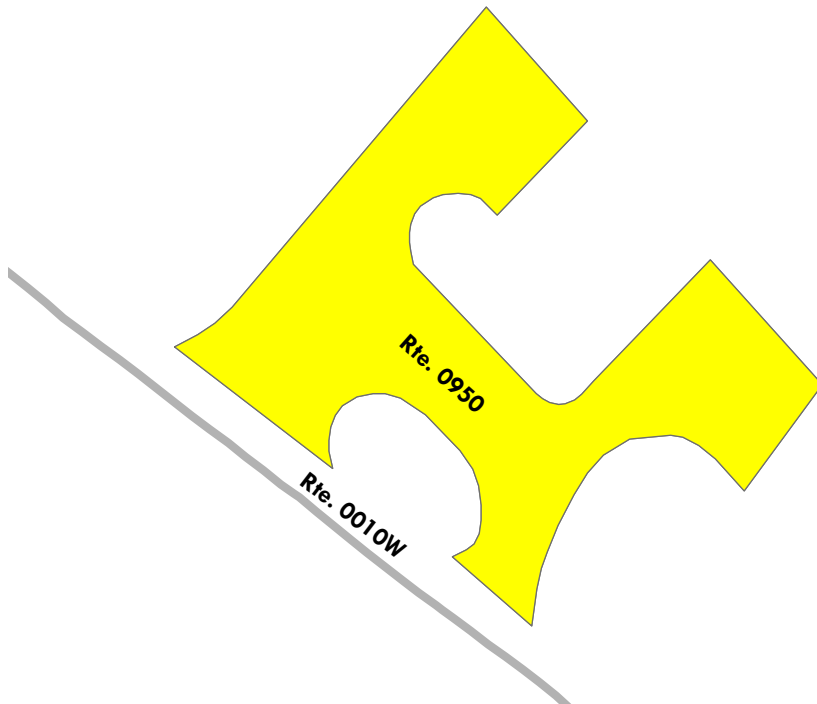
TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 86.70 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
7/10/2019	39845	PUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
9,227	0.159	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Light Rehabilitation		3	

Unpaved Condition Legend

Not Rated	Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)
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See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0951: REFLECTION POND PARKING

Manual Rating

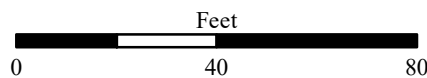
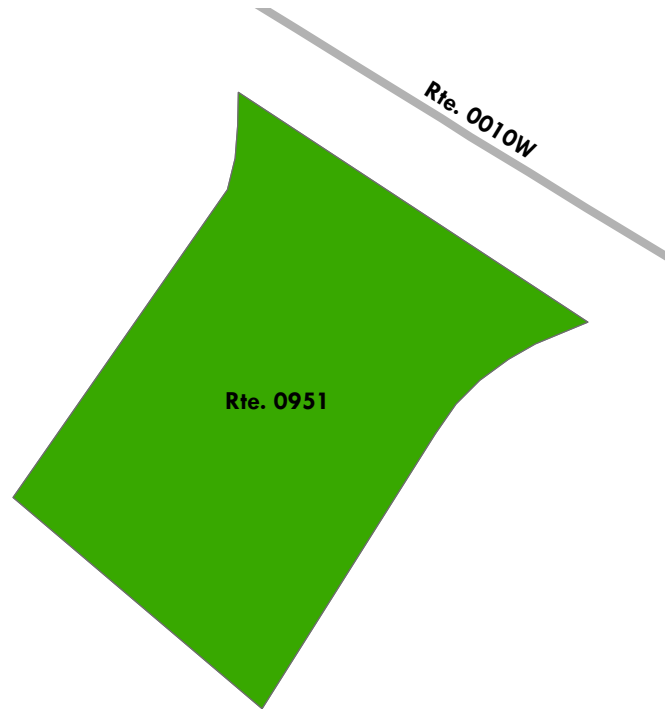
ADJACENT TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 85.48 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
7/11/2019	39848	PUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,252	0.022	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Routine Maintenance		4	

Unpaved Condition Legend



See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0953: MCKINLEY BAR TRAILHEAD PARKING

Manual Rating

ADJACENT TO ROUTE 0103 (WONDER LAKE CAMPGROUND ACCESS ROAD) AT MP 1.01 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
7/10/2019	39850	PUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,831	0.032	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Routine Maintenance		4	

Unpaved Condition Legend

Not Rated

Poor (1)

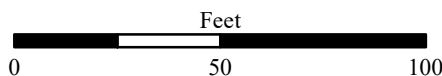
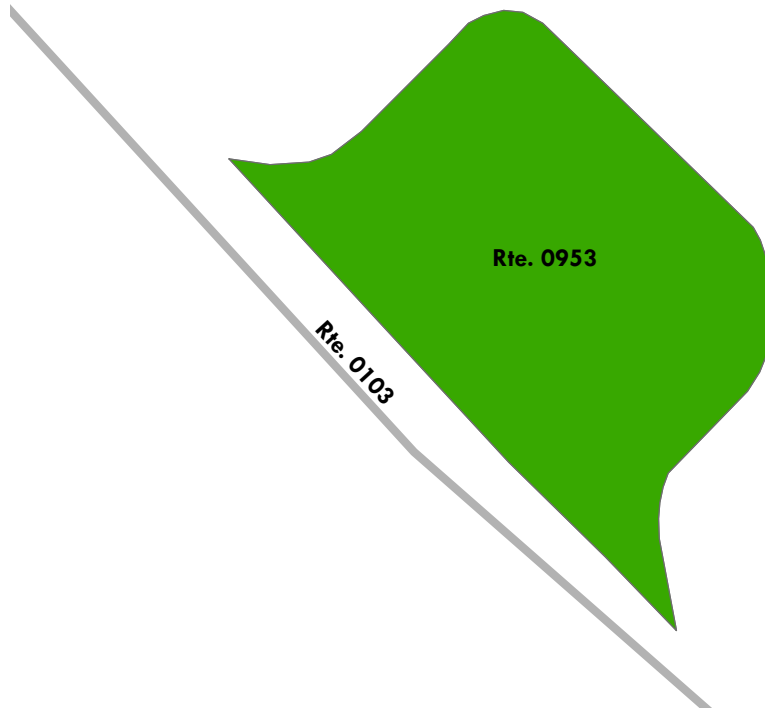
Poor (2)

Fair (3)

Good (4)

Excellent (5)

See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0954: WONDER LAKE SHUTTLE PARKING

Manual Rating

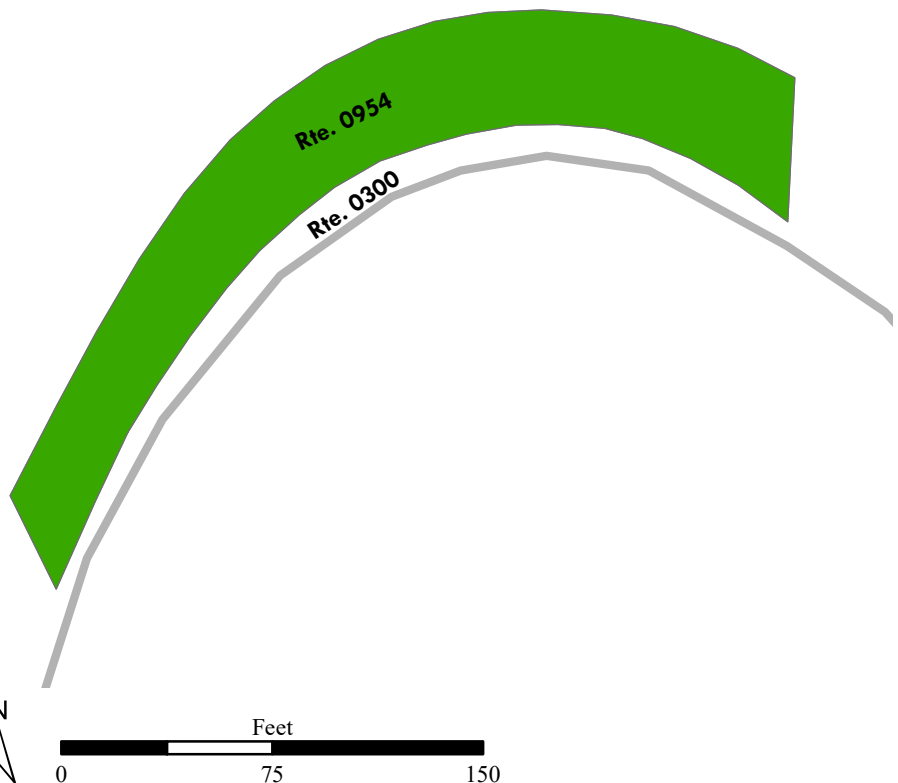
ADJACENT TO ROUTE 0300 (WONDER LAKE SHUTTLE SERVICE ROAD) AT MP 0.39 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
7/10/2019	39851	PUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
2,586	0.045	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Routine Maintenance		4	

Unpaved Condition Legend



See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0955: TEKLANIKA RIVER BRIDGE PARKING

Manual Rating

ADJACENT TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 31.36 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
7/11/2019	39853	PUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
4,446	0.077	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Heavy Rehabilitation		2	

Unpaved Condition Legend

Not Rated

Poor (1)

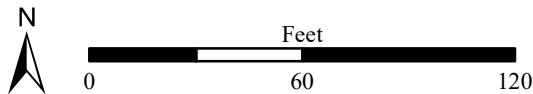
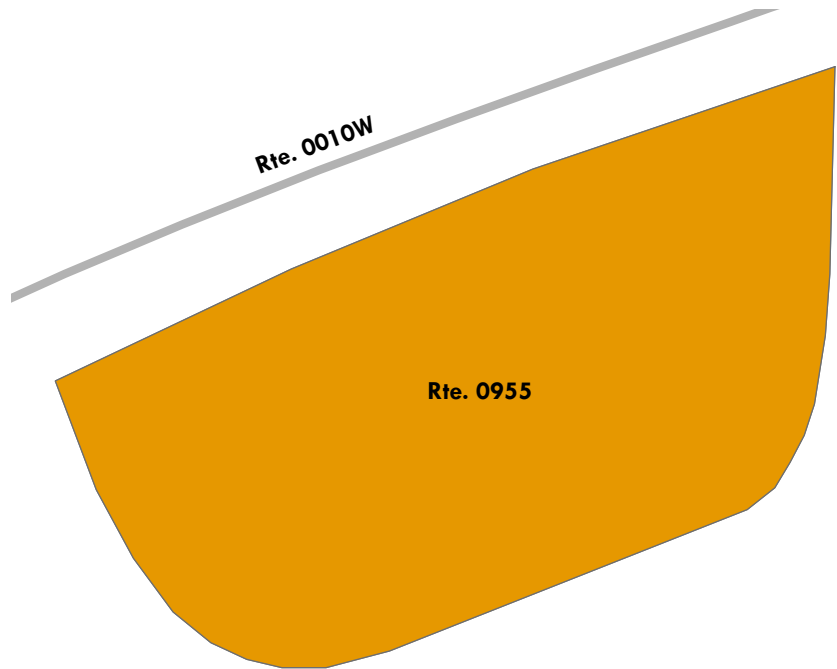
Poor (2)

Fair (3)

Good (4)

Excellent (5)

See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0957: HORSESHOE LAKE TRAILHEAD PARKING

Manual Rating

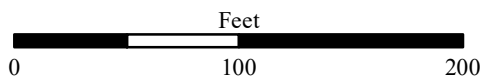
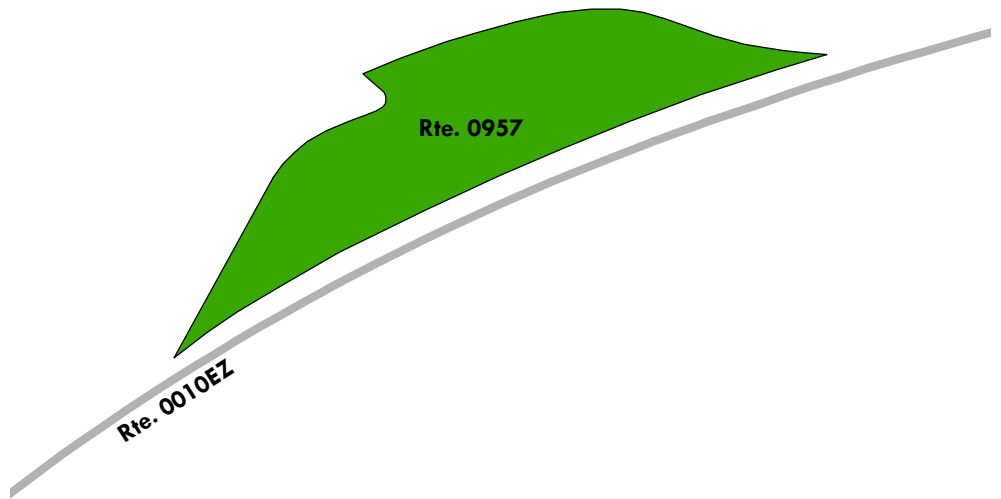
ADJACENT TO ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 1.19 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	39856	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
5,777	0.099	5	DO NOTHING
Curb Type		Curb & Gutter Type	
ASPHALT		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

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



Denali National Park and Preserve

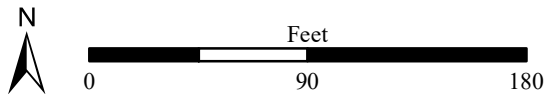
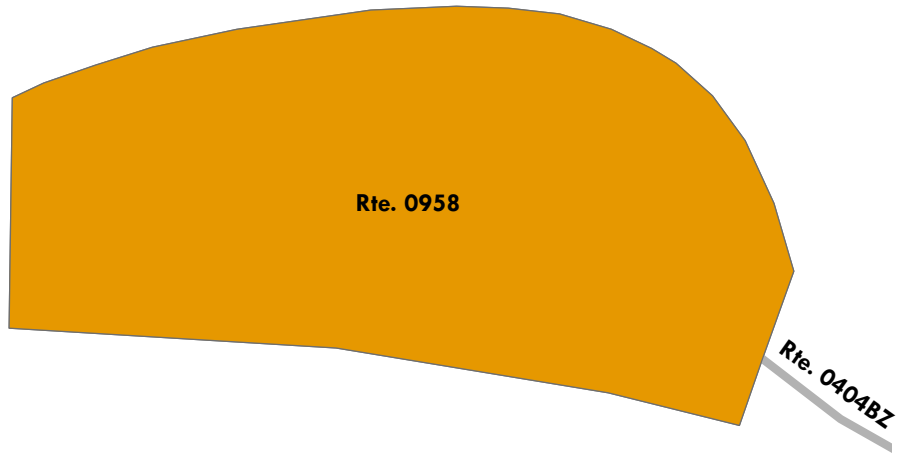
ROUTE 0958: FRONT COUNTRY PUMP HOUSE PARKING

Manual Rating

FROM END OF ROUTE 0404ZZ (FRONT COUNTRY WATER SUPPLY ROAD)
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	39857	NONPUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
8,200	0.141	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Heavy Rehabilitation		2	

Unpaved Condition Legend					
Not Rated	Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)
See Appendix for definitions and formulas					



Denali National Park and Preserve

ROUTE 0959: FRONT COUNTRY WATER TREATMENT PARKING

Manual Rating

FROM ROUTE 0404ZZ (FRONT COUNTRY WATER SUPPLY ROAD) AT MP 0.19 ON LEFT
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	39859	NONPUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
5,490	0.095	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Heavy Rehabilitation		2	

Unpaved Condition Legend

Not Rated

Poor (1)

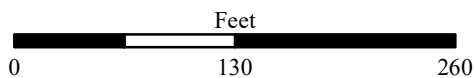
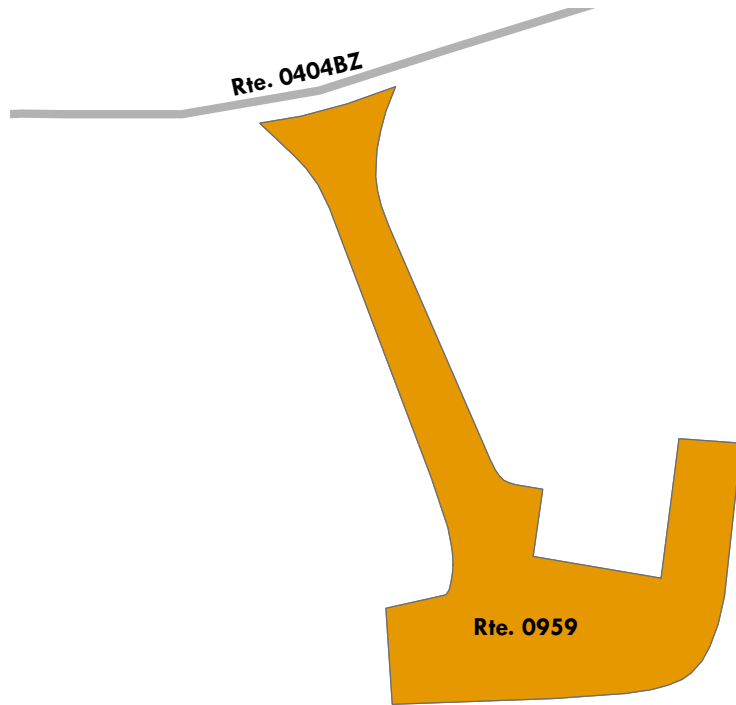
Poor (2)

Fair (3)

Good (4)

Excellent (5)

See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0970: ROCK CREEK RESERVOIR / AIR QUALITY PARKING

Manual Rating

FROM END OF ROUTE 0410ZZ (ROCK CREEK RESERVOIR ROAD)

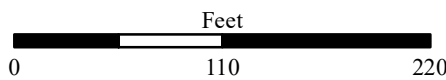
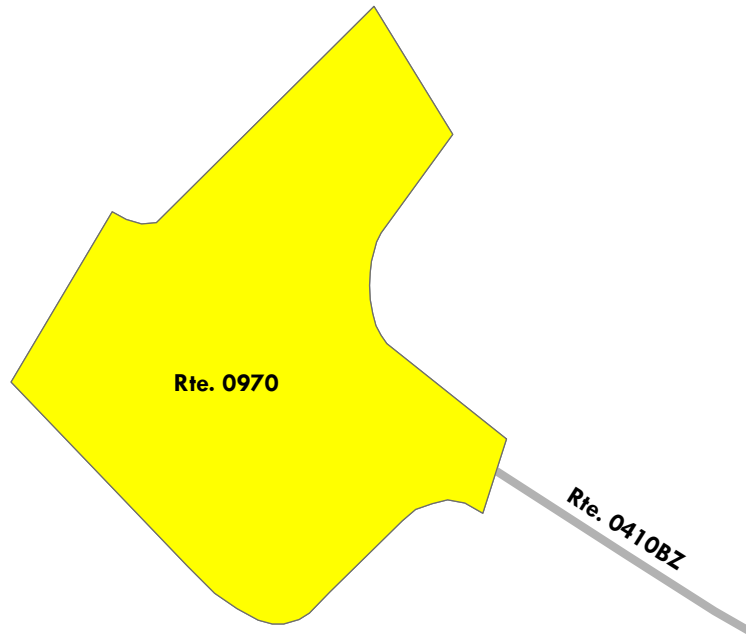
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	39861	NONPUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
8,579	0.148	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Light Rehabilitation		3	

Unpaved Condition Legend



See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0971: MERCANTILE DUMP STATION

Manual Rating

FROM ROUTE 0222 (MERCANTILE ACCESS ROAD) AT MP 0.16 ON RIGHT

TO ROUTE 0222 (MERCANTILE ACCESS ROAD) ON RIGHT AND ROUTE 0423 (MERCANTILE SERVICE ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	39821	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
19,960	0.344	10	DO NOTHING
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

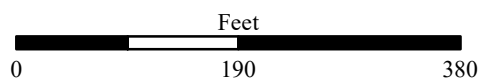
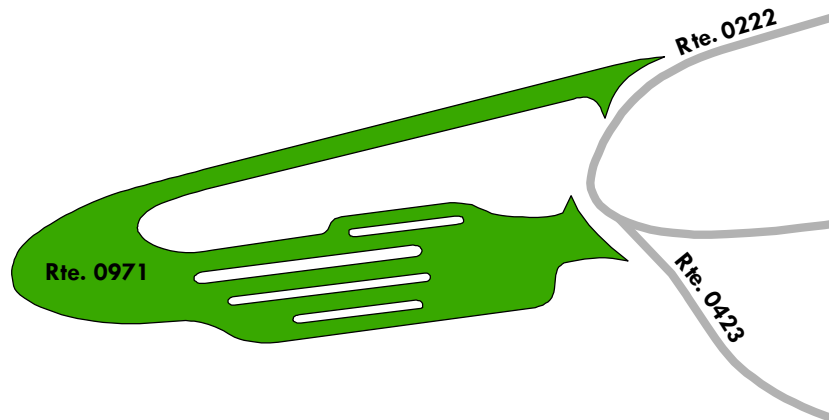
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0972: MERCANTILE STORE PARKING

Manual Rating

FROM ROUTE 0222 (MERCANTILE ACCESS ROAD) AT MP 0.20 ON RIGHT AND ROUTE 0423 (MERCANTILE SERVICE ROAD)

TO ROUTE 0222 (MERCANTILE ACCESS ROAD) AT MP 0.27 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	39827	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
23,018	0.396	5	DO NOTHING
Curb Type		Curb & Gutter Type	
WOOD		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

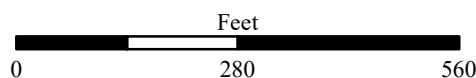
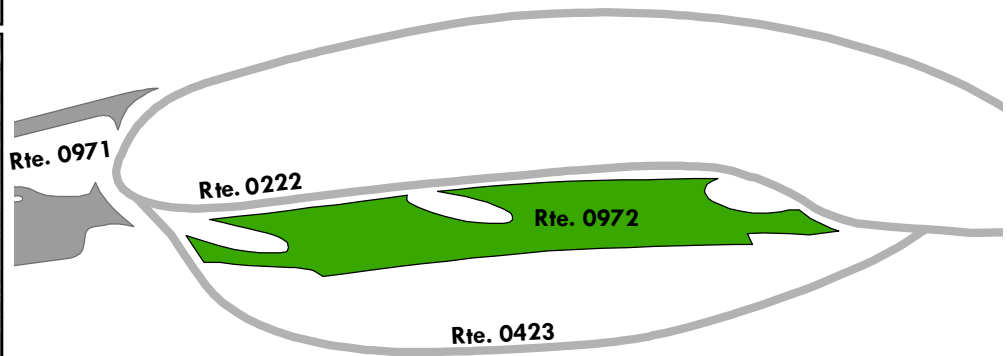
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0973: MURIE SCIENCE AND LEARNING CENTER PARKING

Manual Rating

FROM ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 1.50 ON RIGHT

TO ROUTE 0404ZZ (FRONT COUNTRY WATER SUPPLY ROAD) AT MP 0.02 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	109064	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
10,516	0.181	6	DO NOTHING
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

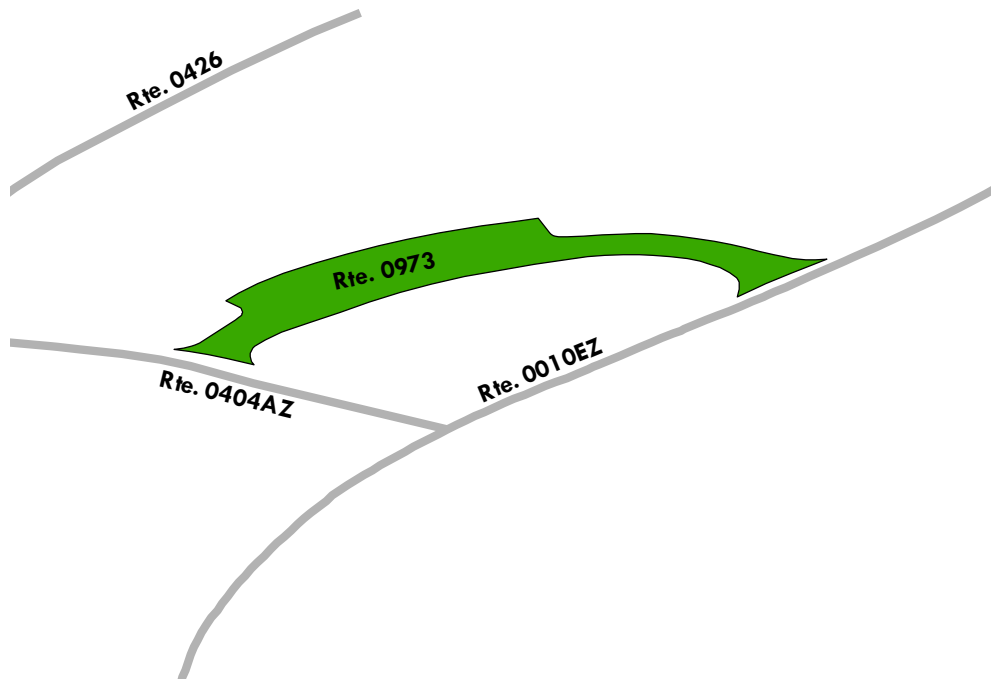
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0974: DENALI VISITOR CENTER PARKING

Manual Rating

FROM ROUTE 0010EOZ (DENALI PARK ROAD - EAST ROUNDABOUT)

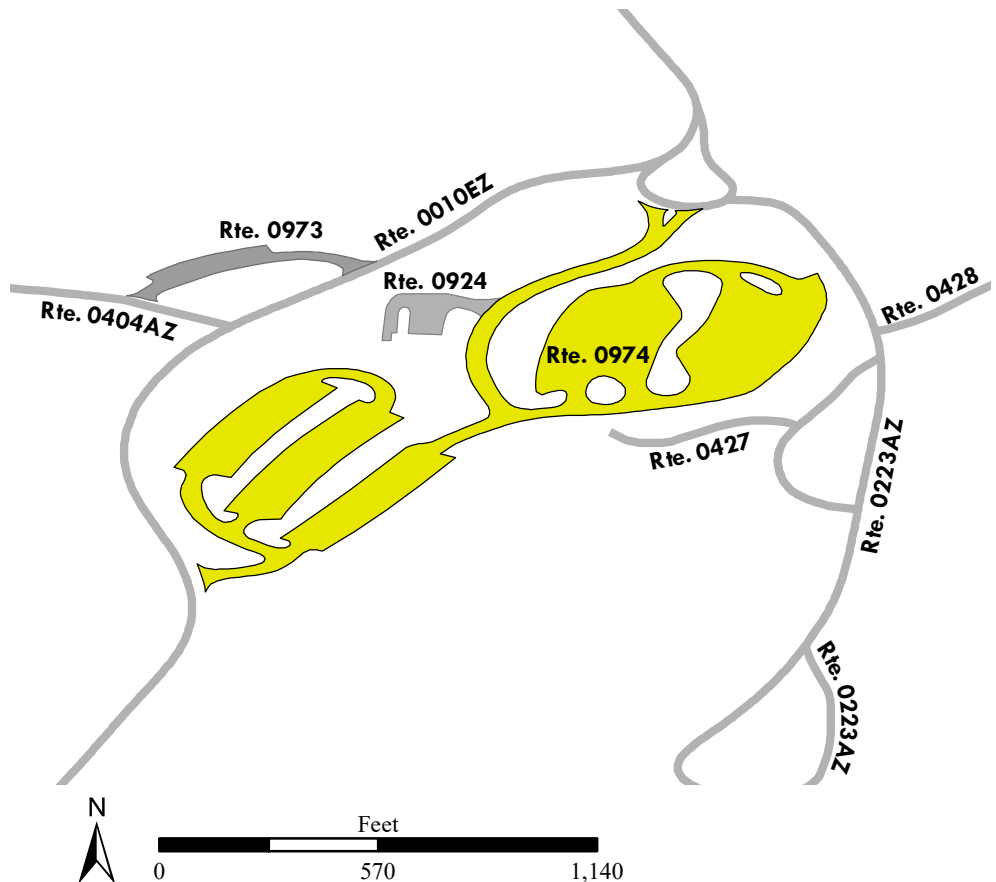
TO ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AT MP 1.68 ON LEFT AND
ROUTE 0924 (POWER STATION PARKING)

Inspection Date	FMSS Number	User Access	Surface Type
7/8/2019	109063	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
178,402	3.072	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
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See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0975AZ: TALKEETNA VISITOR CENTER PARKING A

Manual Rating

ADJACENT TO SOUTH B STREET ACROSS ROUTE 0975BZ (TALKEETNA VISITOR CENTER PARKING B)

Inspection Date	FMSS Number	User Access	Surface Type
7/8/2019	109232	PUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
3,664	0.063	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Routine Maintenance		4	

Unpaved Condition Legend

Not Rated

Poor (1)

Poor (2)

Fair (3)

Good (4)

Excellent (5)

See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0975BZ: TALKEETNA VISITOR CENTER PARKING B

Manual Rating

FROM ACROSS OF ROUTE 0975AZ (TALKEETNA VISITOR CENTER PARKING A) AND
 UNKNOW STREET
 TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
7/8/2019	109232	PUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,981	0.034	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Routine Maintenance		4	

Unpaved Condition Legend

Not Rated

Poor (1)

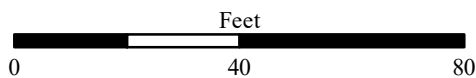
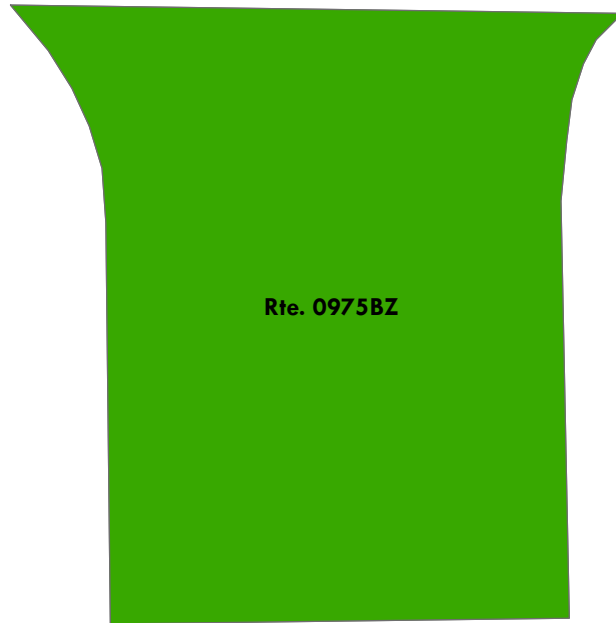
Poor (2)

Fair (3)

Good (4)

Excellent (5)

See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0975CZ: TALKEETNA VISITOR CENTER PARKING C

Manual Rating

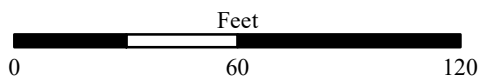
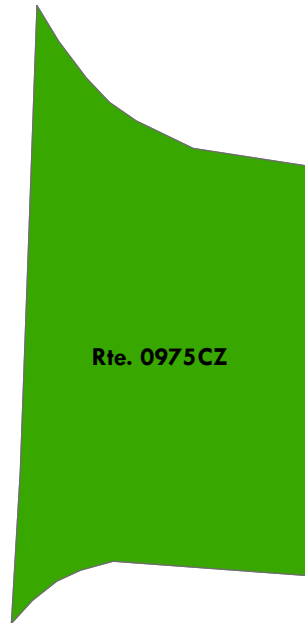
ADJACENT TO SOUTH B STREET

Inspection Date	FMSS Number	User Access	Surface Type
7/8/2019	109232	PUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
2,044	0.035	0	DO NOTHING
Curb Type		Curb & Gutter Type	
WOOD		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Routine Maintenance		4	

Unpaved Condition Legend

Not Rated	Poor (1)	Poor (2)	Fair (3)	Good (4)	Excellent (5)
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See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0976: MILE 73 PULLOUT PARKING

Manual Rating

FROM ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 73.13 ON LEFT

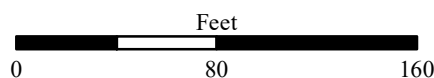
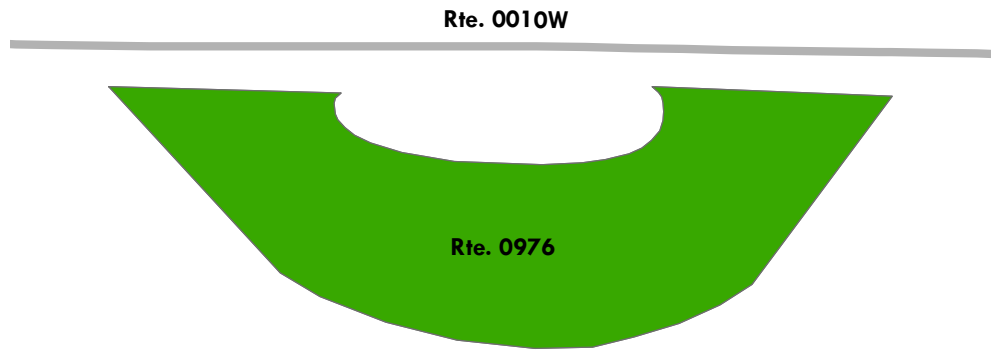
TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 73.15 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
7/11/2019	109882	PUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
3,809	0.066	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Routine Maintenance		4	

Unpaved Condition Legend



See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0978: BIG TIMBER OVERLOOK PARKING

Manual Rating

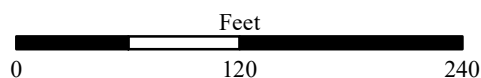
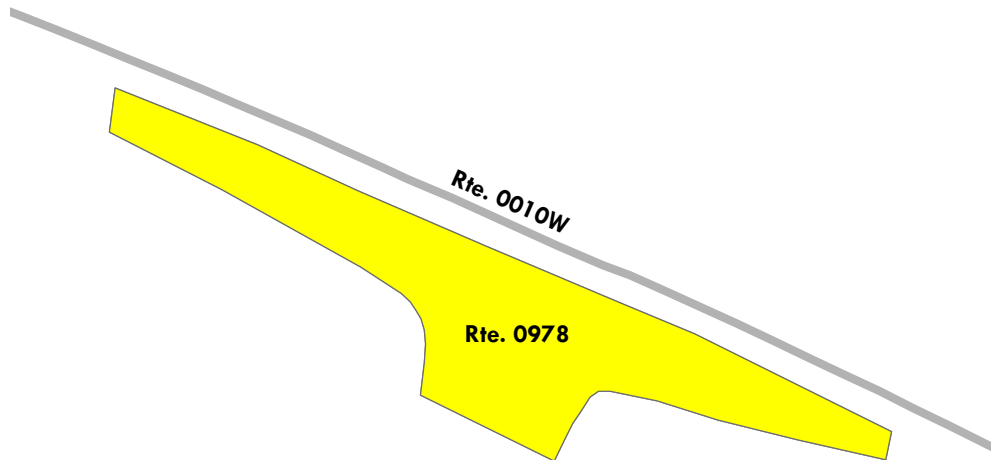
ADJACENT TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 83.30 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
7/11/2019	109884	PUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
4,031	0.069	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Light Rehabilitation		3	

Unpaved Condition Legend



See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0979AZ: RILEY CREEK CAMPGROUND CARIBOU LOOP RESTROOM PARKING A

Subcomponent of Route DENA-0979ZZ

Manual Rating

ADJACENT TO ROUTE 0200ZZ (RILEY CREEK CAMPGROUND LOOPS) AT MP 0.39 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	88640	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,418	0.024	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)

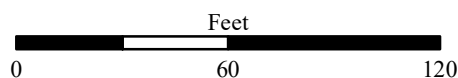
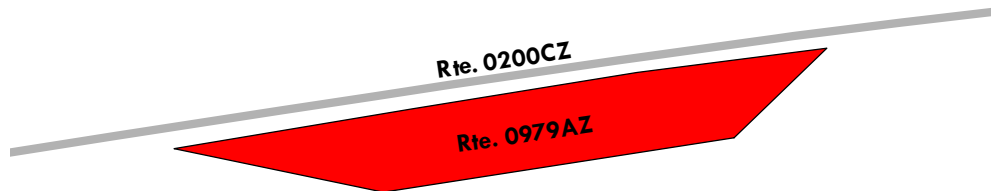
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0979BZ: RILEY CREEK CAMPGROUND CARIBOU LOOP RESTROOM PARKING B

Subcomponent of Route DENA-0979ZZ

Manual Rating

ADJACENT TO ROUTE 0200ZZ (RILEY CREEK CAMPGROUND LOOPS) AT MP 0.28 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	88640	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,246	0.021	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)

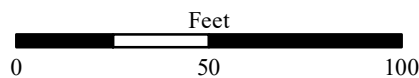
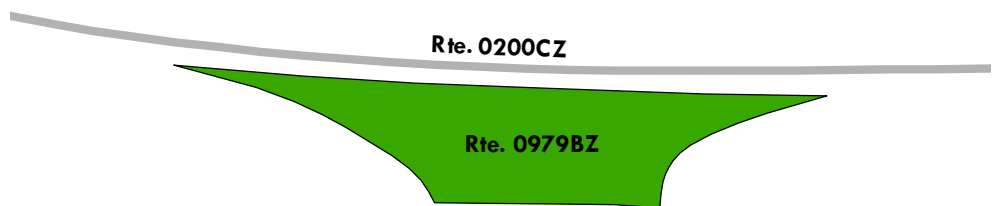
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0980: MOUNTAIN VISTA LOOP ROAD PARKING

Manual Rating

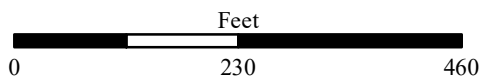
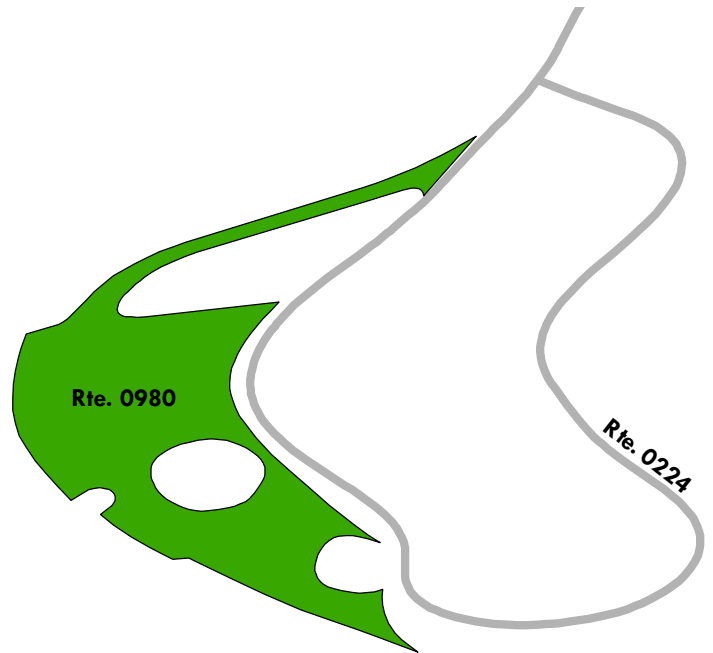
FROM ROUTE 0224 (MOUNTAIN VISTA LOOP ROAD) AT MP 0.08 ON RIGHT
TO ROUTE 0224 (MOUNTAIN VISTA LOOP ROAD) AT MP 0.14 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	113056	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
29,040	0.5	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

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



Denali National Park and Preserve

ROUTE 0981: HR STAFF PARKING

Manual Rating

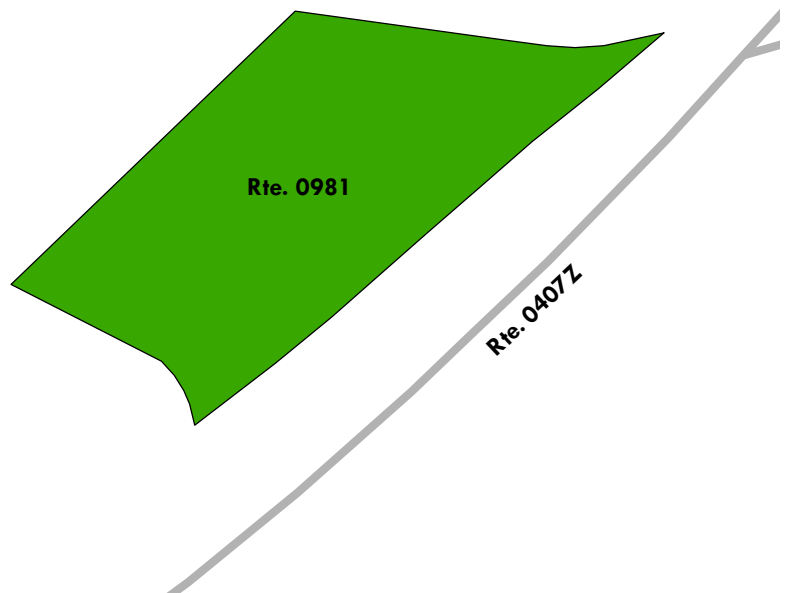
ADJACENT TO ROUTE 0407ZZ (HEADQUARTERS HOUSING AREA ROADS) AT MP 0.15 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
7/11/2019	N/A	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,126	0.019	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

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



Denali National Park and Preserve

ROUTE 0983A: HQ AND KENNELS LOOP ROAD & PARKING (PAVED)

Manual Rating

FROM ROUTE 0203 (HEADQUARTERS ACCESS ROAD) AT MP 0.02 ON RIGHT

TO ROUTE 0010EZZ (DENALI PARK ROAD - EAST) AND ROUTE 0983B (HQ AND KENNELS LOOP ROAD & PARKING (UNPAVED))

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	111186	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
25,484	0.439	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)

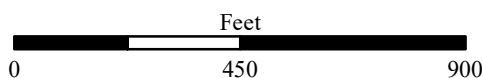
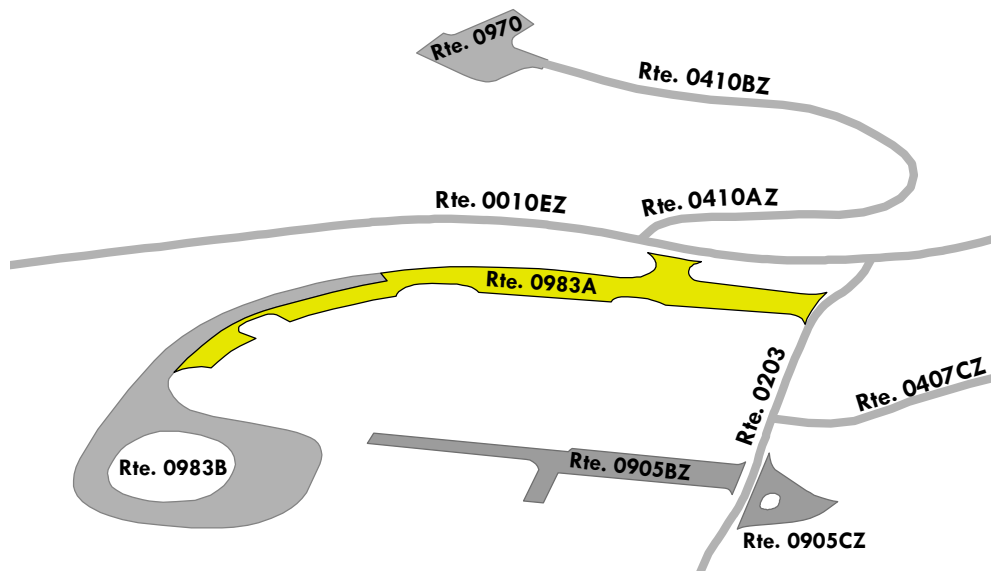
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0983B: HQ AND KENNELS LOOP ROAD & PARKING (UNPAVED)

Manual Rating

FROM ROUTE 0983A (HQ AND KENNELS LOOP ROAD & PARKING (PAVED))

TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	111186	PUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
38,297	0.659	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Light Rehabilitation		3	

Unpaved Condition Legend

Not Rated

Poor (1)

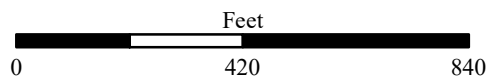
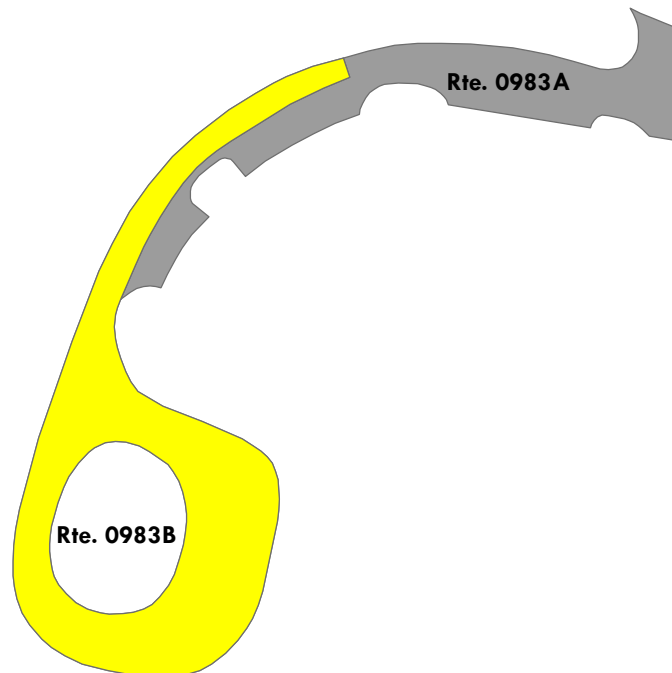
Poor (2)

Fair (3)

Good (4)

Excellent (5)

See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0984: MAINTENANCE UPPER GRAVEL PARKING

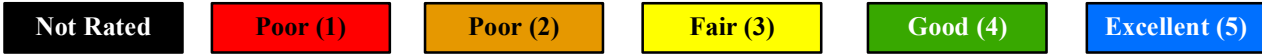
Manual Rating

FROM ROUTE 0936 (B AND U PAD PARKING)

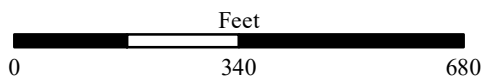
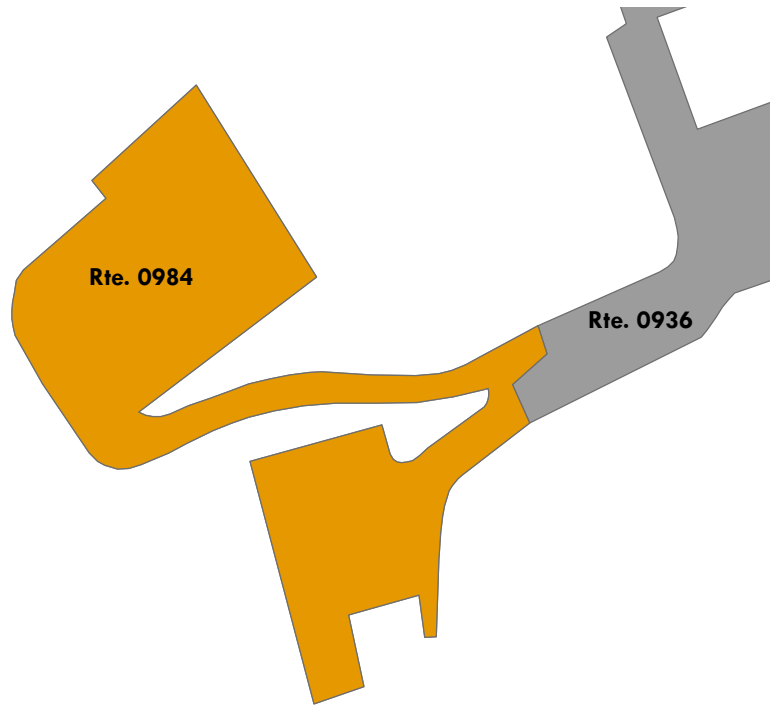
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	225904	NONPUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
49,671	0.855	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Heavy Rehabilitation		2	

Unpaved Condition Legend



See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0985AZ: C CAMP RESIDENTIAL PAVED PARKING A

Subcomponent of Route DENA-0985ZZ
Manual Rating

FROM ROUTE 0405 (C CAMP RESIDENCE AND MAINTENANCE ROAD) AT MP 0.02 ON LEFT
 TO ROUTE 0418AZ (C CAMP RESIDENCE ROAD A) AND ROUTE 0418EZ (C CAMP RESIDENCE ROAD E)

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	226521	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
14,755	0.254	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)

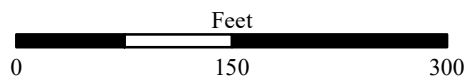
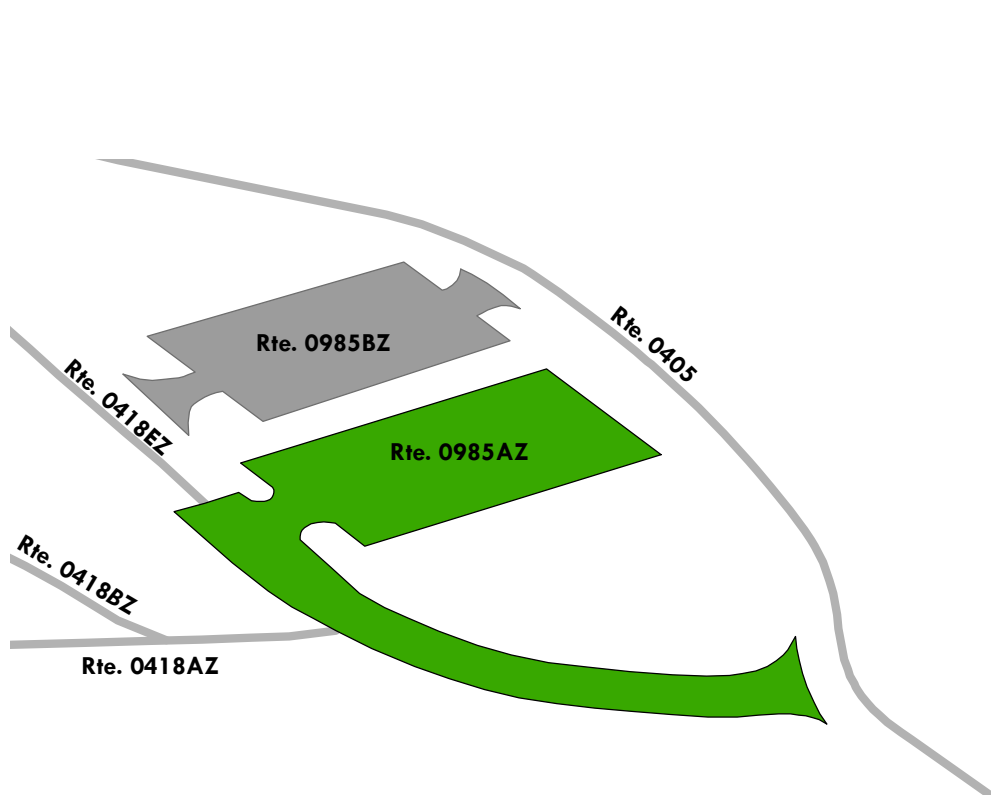
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0985BZ: C CAMP RESIDENTIAL PAVED PARKING B

Subcomponent of Route DENA-0985ZZ
Manual Rating

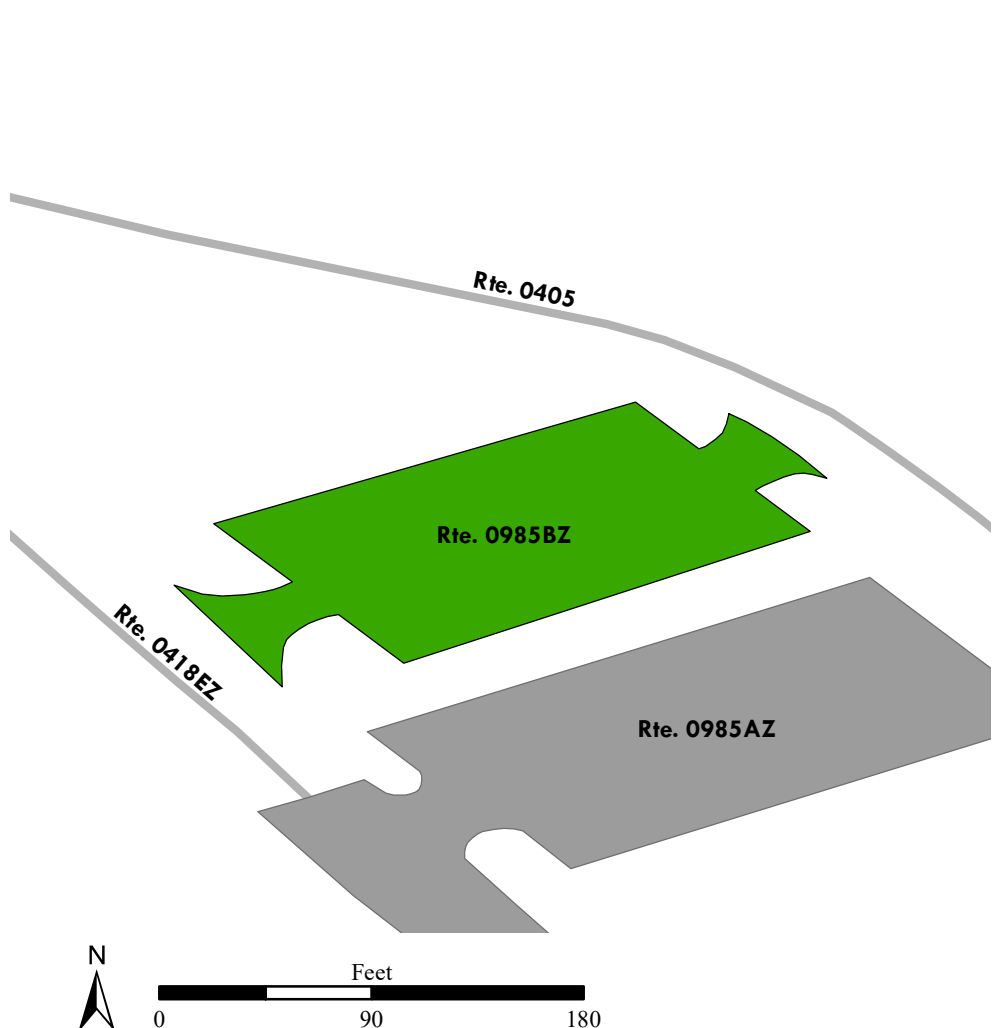
FROM ROUTE 0405 (C CAMP RESIDENCE AND MAINTENANCE ROAD)
 TO ROUTE 0418EZ (C CAMP RESIDENCE ROAD E)

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	226521	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
7,166	0.123	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

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



Denali National Park and Preserve

ROUTE 0986: SHAFFER BUILDING LOWER EMPLOYEE PARKING

Manual Rating

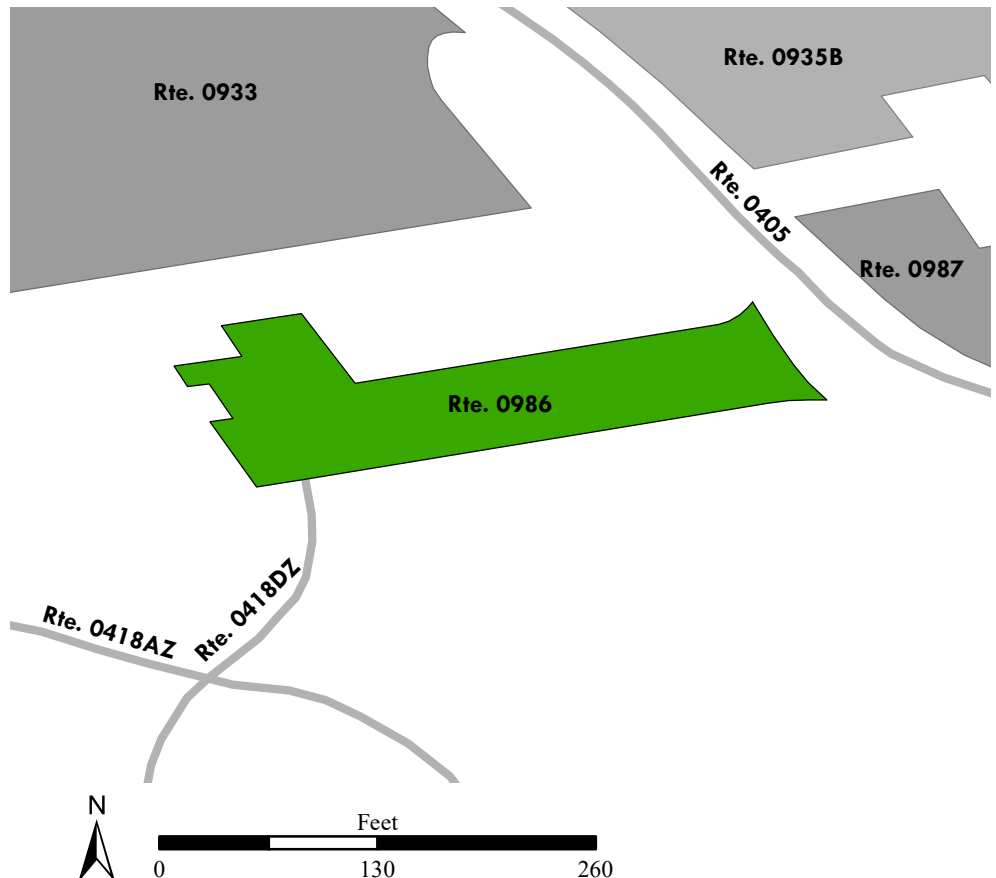
FROM ROUTE 0405 (C CAMP RESIDENCE AND MAINTENANCE ROAD) ON LEFT
TO ROUTE 0418DZ (C CAMP RESIDENCE ROAD D)

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	226511	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
9,186	0.158	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
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See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0987: SHAFFER BUILDING UPPER PARKING

Manual Rating

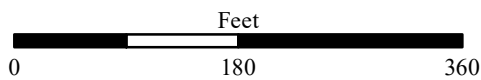
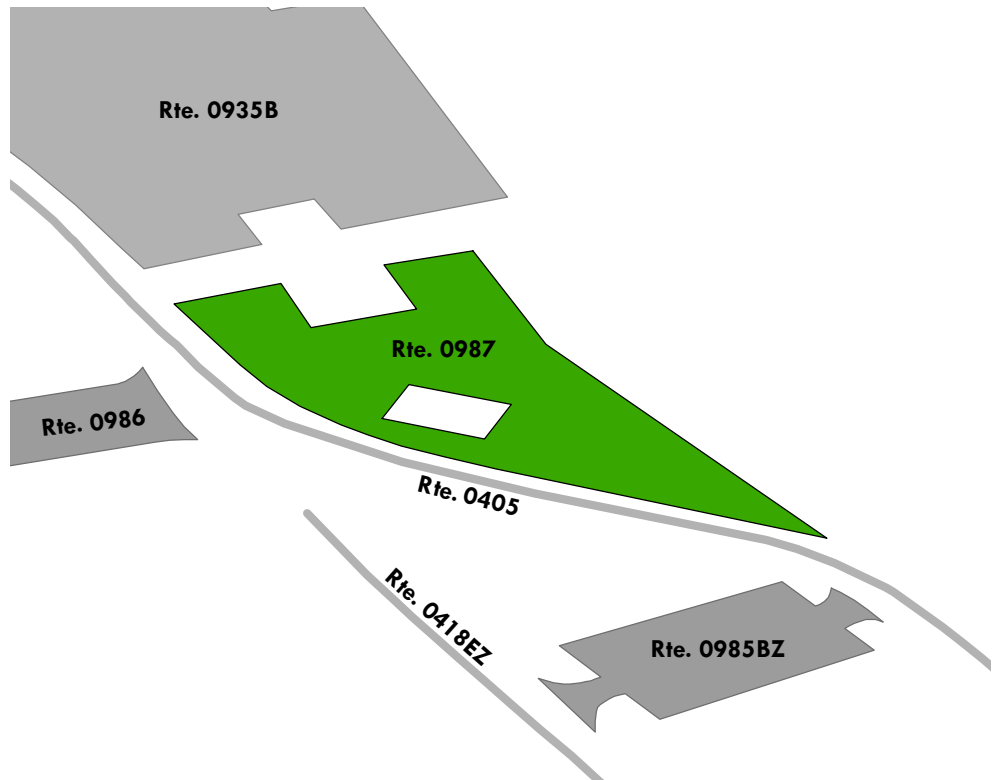
FROM ROUTE 0405 (C CAMP RESIDENCE AND MAINTENANCE ROAD) ON RIGHT
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	226510	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
17,563	0.302	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

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



Denali National Park and Preserve

ROUTE 0988: KANTISHNA AIRSTRIP PARKING

Manual Rating

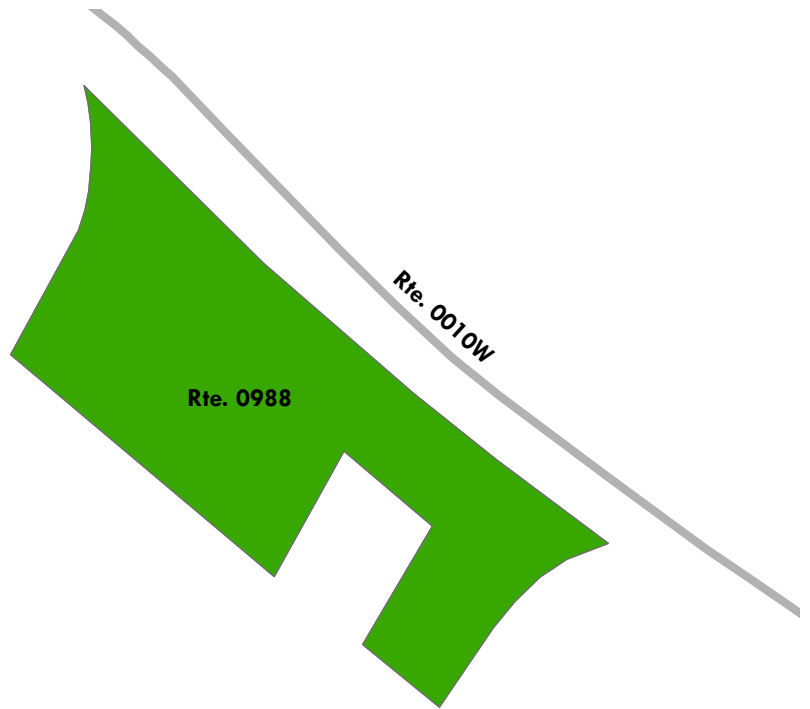
ADJACENT TO ROUTE 0010W (DENALI PARK ROAD - WEST) AT MP 92.42 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
7/10/2019	110869	NONPUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
2,917	0.05	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Routine Maintenance		4	

Unpaved Condition Legend



See Appendix for definitions and formulas



Denali National Park and Preserve

ROUTE 0990: CONCESSIONS MAINTENANCE BUILDING PARKING

Manual Rating

FROM ROUTE 0404ZZ (FRONT COUNTRY WATER SUPPLY ROAD) AND
ROUTE 0426 (CONCESSIONS SUGARLOAF HALL ACCESS ROAD)

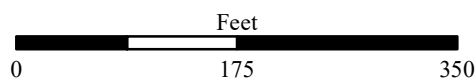
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
7/12/2019	244661	NONPUBLIC	GRAVEL
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
18,883	0.325	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Treatment Recommendation		Condition Rating	
Routine Maintenance		4	

Unpaved Condition Legend



See Appendix for definitions and formulas



Section 7

Road Milepost Information



Denali National Park & Preserve



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.

DENA: Route Milepost Log

ROUTE 0010EZ: DENALI PARK ROAD - EAST

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 5000 (GEORGE PARKS HIGHWAY)
0.00	0.00	INTERSECTION	R	ROUTE 5000 (GEORGE PARKS HIGHWAY)
0.04	0.04	INTERSECTION	R	ROUTE 0903 (ENTRANCE SIGN PARKING)
0.07	0.07	INTERSECTION	R	ROUTE 0903 (ENTRANCE SIGN PARKING)
0.23	0.23	INTERSECTION	L	ROUTE 0928 (RILEY CREEK POST OFFICE PARKING)
0.23	0.23	INTERSECTION	R	ROUTE 0925 (FRONT COUNTRY SEWAGE LAGOON PARKING)
0.43	0.43	INTERSECTION	L	ROUTE 0222 (MERCANTILE ACCESS ROAD)
0.45	0.45	INTERSECTION	L	ROUTE 0222 (MERCANTILE ACCESS ROAD)
0.75	0.75	INTERSECTION	R	ROUTE 0201 (WILDERNESS ACCESS CENTER (BUS DEPOT) ACCESS ROAD)
1.15	1.15	INTERSECTION	L	ROUTE 0402 (AIRSTRIP ACCESS ROAD)
1.18	1.18	RAILROAD CROSSING	N/A	N/A
1.19	1.19	INTERSECTION	R	ROUTE 0957 (HORSESHOE LAKE TRAILHEAD PARKING)
1.40	1.40	INTERSECTION	L	ROUTE 0010EOZ (DENALI PARK ROAD - EAST ROUNDABOUT)
1.42	1.42	INTERSECTION	L	ROUTE 0010EOZ (DENALI PARK ROAD - EAST ROUNDABOUT)
1.44	1.44	INTERSECTION	L	PAVED SPUR
1.50	1.50	INTERSECTION	R	ROUTE 0973 (MURIE SCIENCE AND LEARNING CENTER PARKING)
1.54	1.54	INTERSECTION	R	ROUTE 0404AZ (FRONT COUNTRY WATER SUPPLY ROAD (PAVED))
1.68	1.68	INTERSECTION	L	ROUTE 0974 (DENALI VISITOR CENTER PARKING)
3.05	3.05	INTERSECTION	R	ROUTE 0405 (C CAMP RESIDENCE AND MAINTENANCE ROAD)
3.22	3.22	INTERSECTION	R	ROUTE 0406 (ROCK CREEK PUMP HOUSE ROAD)
3.27	3.33	BRIDGE	N/A	9830-001 (ROCK CREEK BRIDGE)
3.33	3.33	INTERSECTION	L	ROUTE 0407Z (HEADQUARTERS HOUSING AREA ROAD)
3.39	3.39	INTERSECTION	L	ROUTE 0203 (HEADQUARTERS ACCESS ROAD)
3.42	3.42	INTERSECTION	L	ROUTE 0983A (HQ AND KENNELS LOOP ROAD & PARKING (PAVED))
3.43	3.43	INTERSECTION	R	ROUTE 0410AZ (ROCK CREEK RESERVOIR ROAD (PAVED))

DENA: Route Milepost Log

ROUTE 0010EZ: DENALI PARK ROAD - EAST

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
4.96	4.96	MILE MARKER	R	MILE MARKER 5
5.63	5.63	INTERSECTION	R	ROUTE 0939 (FIVE MILE PIT STORAGE AREA)
6.00	6.00	MILE MARKER	R	MILE MARKER 6
6.99	6.99	MILE MARKER	R	MILE MARKER 7
8.05	8.05	MILE MARKER	R	MILE MARKER 8
9.02	9.02	MILE MARKER	R	MILE MARKER 9
10.11	10.11	MILE MARKER	R	MILE MARKER 10
11.12	11.12	MILE MARKER	R	MILE MARKER 11
11.78	11.78	INTERSECTION	L	ROUTE 0932 (SAVAGE RIVER VIEWPOINT PARKING)
12.15	12.15	MILE MARKER	R	MILE MARKER 12
12.68	12.68	INTERSECTION	L	ROUTE 0224 (MOUNTAIN VISTA LOOP ROAD)
12.77	12.77	INTERSECTION	L	UNPAVED ROUTE
12.81	12.81	INTERSECTION	L	ROUTE 0204Z (SAVAGE RIVER CAMPGROUND ACCESS ROAD)
12.81	12.81	INTERSECTION	R	ROUTE 0930 (SAVAGE RIVER CAMPGROUND SHUTTLE STOP)
12.96	12.96	INTERSECTION	R	ROUTE 0931 (SAVAGE CABIN TRAILHEAD PARKING)
13.19	13.19	MILE MARKER	R	MILE MARKER 13
14.20	14.20	MILE MARKER	R	MILE MARKER 14
14.74	14.74	INTERSECTION	R	ROUTE 0906 (SAVAGE RIVER EAST PARKING)
14.78	14.85	BRIDGE	N/A	9830-005 (SAVAGE RIVER BRIDGE)
14.86	14.86	INTERSECTION	R	ROUTE 0907 (SAVAGE RIVER WEST PARKING)
14.97	14.97	INTERSECTION	N/A	ROUTE 0010W (DENALI PARK ROAD - WEST)

DENA: Route Milepost Log

ROUTE 0010EOZ: DENALI PARK ROAD - EAST ROUNDABOUT

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 0010EZ (DENALI PARK ROAD - EAST)
0.00	0.00	INTERSECTION	R	ROUTE 0010EZ (DENALI PARK ROAD - EAST)
0.02	0.02	INTERSECTION	R	ROUTE 0974 (DENALI VISITOR CENTER PARKING)
0.03	0.03	INTERSECTION	R	ROUTE 0974 (DENALI VISITOR CENTER PARKING)
0.04	0.04	INTERSECTION	R	ROUTE 0223AZ (TRAIN DEPOT ACCESS ROAD)
0.07	0.07	INTERSECTION	N/A	ROUTE 0010EZ (DENALI PARK ROAD - EAST)
0.07	0.07	INTERSECTION	L	ROUTE 0010EZ (DENALI PARK ROAD - EAST)

DENA: Route Milepost Log

ROUTE 0010W: DENALI PARK ROAD - WEST

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
14.97	14.97	INTERSECTION	N/A	ROUTE 0010EZ (DENALI PARK ROAD - EAST)
15.18	15.18	MILE MARKER	R	MILE MARKER 15
16.25	16.25	MILE MARKER	R	MILE MARKER 16
17.20	17.20	INTERSECTION	L	ROUTE 0908A (EAST PRIMROSE PARKING)
17.27	17.27	MILE MARKER	R	MILE MARKER 17
17.30	17.30	INTERSECTION	L	ROUTE 0908B (WEST PRIMROSE PARKING)
18.29	18.29	MILE MARKER	R	MILE MARKER 18
19.29	19.29	MILE MARKER	R	MILE MARKER 19
19.71	19.71	INTERSECTION	L	ROUTE 0909 (MILE 20 VISTA PARKING)
19.76	19.76	INTERSECTION	L	ROUTE 0909 (MILE 20 VISTA PARKING)
20.35	20.35	MILE MARKER	R	MILE MARKER 20
21.36	21.36	MILE MARKER	R	MILE MARKER 21
22.37	22.37	MILE MARKER	R	MILE MARKER 22
22.71	22.71	INTERSECTION	L	ROUTE 0205 (SANCTUARY CAMPGROUND ROAD)
22.72	22.72	INTERSECTION	R	UNPAVED ROUTE
22.80	22.85	BRIDGE	N/A	9830-007 (SANCTUARY RIVER BRIDGE)
23.40	23.40	MILE MARKER	R	MILE MARKER 23
24.44	24.44	MILE MARKER	R	MILE MARKER 24
25.44	25.44	MILE MARKER	R	MILE MARKER 25
25.88	25.88	INTERSECTION	R	ROUTE 0942 (MILE 25.85 PARKING)
25.93	25.93	INTERSECTION	R	ROUTE 0942 (MILE 25.85 PARKING)
26.45	26.45	INTERSECTION	R	MILE MARKER 26
27.28	27.28	INTERSECTION	L	UNPAVED ROUTE
27.51	27.51	MILE MARKER	R	MILE MARKER 27
28.50	28.50	MILE MARKER	R	MILE MARKER 28
29.17	29.17	INTERSECTION	R	ROUTE 0206 (TEKLANIKA CAMPGROUND ACCESS ROAD)
29.52	29.52	MILE MARKER	R	MILE MARKER 29
30.28	30.28	INTERSECTION	R	ROUTE 0911 (TEKLANIKA REST STOP PARKING)
30.30	30.30	INTERSECTION	R	ROUTE 0911 (TEKLANIKA REST STOP PARKING)

DENA: Route Milepost Log

ROUTE 0010W: DENALI PARK ROAD - WEST

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
30.37	30.37	INTERSECTION	R	ROUTE 0911 (TEKLANIKA REST STOP PARKING)
30.52	30.52	MILE MARKER	R	MILE MARKER 30
31.29	31.36	BRIDGE	N/A	9830-008 (TEKLANIKA RIVER BRIDGE)
31.36	31.36	INTERSECTION	L	ROUTE 0955 (TEKLANIKA RIVER BRIDGE PARKING)
31.55	31.55	MILE MARKER	R	MILE MARKER 31
32.58	32.58	MILE MARKER	R	MILE MARKER 32
33.56	33.56	MILE MARKER	R	MILE MARKER 33
34.11	34.11	INTERSECTION	L	ROUTE 0207 (IGLOO CAMPGROUND LOOP)
34.11	34.11	INTERSECTION	R	ROUTE 0941 (IGLOO PIT STORAGE AREA)
34.13	34.15	BRIDGE	N/A	9830-009 (LOWER IGLOO CREEK BRIDGE)
34.62	34.62	MILE MARKER	R	MILE MARKER 34
35.63	35.63	MILE MARKER	R	MILE MARKER 35
36.63	36.63	MILE MARKER	R	MILE MARKER 36
37.05	37.05	INTERSECTION	L	UNPAVED ROUTE
37.05	37.06	BRIDGE	N/A	9830-010 (UPPER IGLOO CREEK BRIDGE)
37.63	37.63	MILE MARKER	R	MILE MARKER 37
38.67	38.67	MILE MARKER	R	MILE MARKER 38
39.63	39.63	MILE MARKER	R	MILE MARKER 39
40.68	40.68	MILE MARKER	N/A	MILE MARKER 40 (LOCATION NOT VERIFIED IN VIDEO)
41.71	41.71	MILE MARKER	R	MILE MARKER 41
42.06	42.10	BRIDGE	N/A	9830-011 (GHIGLIONE CREEK BRIDGE)
42.73	42.73	MILE MARKER	N/A	MILE MARKER 42 (LOCATION NOT VERIFIED IN VIDEO)
43.05	43.05	INTERSECTION	L	ROUTE 0415 (EAST FORK CABIN ROAD)
43.09	43.09	INTERSECTION	L	ROUTE 0415 (EAST FORK CABIN ROAD) SPUR
43.10	43.10	INTERSECTION	R	MILE MARKER 43
43.40	43.45	BRIDGE	N/A	9830-012 (EAST FORK TOKLAT RIVER BRIDGE)
44.09	44.09	MILE MARKER	R	MILE MARKER 44
45.06	45.06	MILE MARKER	R	MILE MARKER 45
45.94	45.94	INTERSECTION	R	UNPAVED PARKING (POLYCHROME OVERLOOK PULLOUT)

DENA: Route Milepost Log

ROUTE 0010W: DENALI PARK ROAD - WEST

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
46.07	46.07	MILE MARKER	R	MILE MARKER 46
47.07	47.07	MILE MARKER	R	MILE MARKER 47
48.07	48.07	MILE MARKER	N/A	MILE MARKER 48 (LOCATION NOT VERIFIED IN VIDEO)
49.07	49.07	MILE MARKER	N/A	MILE MARKER 49 (LOCATION NOT VERIFIED IN VIDEO)
50.08	50.08	MILE MARKER	N/A	MILE MARKER 50 (LOCATION NOT VERIFIED IN VIDEO)
51.08	51.08	MILE MARKER	N/A	MILE MARKER 51 (LOCATION NOT VERIFIED IN VIDEO)
52.08	52.08	MILE MARKER	N/A	MILE MARKER 52 (LOCATION NOT VERIFIED IN VIDEO)
52.52	52.52	INTERSECTION	R	ROUTE 0945 (TOKLAT BRIDGE LOOP PARKING)
52.67	52.67	INTERSECTION	R	ROUTE 0945 (TOKLAT BRIDGE LOOP PARKING)
53.14	53.14	MILE MARKER	R	MILE MARKER 53
53.18	53.26	BRIDGE	N/A	9830-013 (TOKLAT RIVER BRIDGE NO. 1)
53.48	53.57	BRIDGE	N/A	9830-014 (TOKLAT RIVER BRIDGE NO. 2)
53.57	53.57	INTERSECTION	R	ROUTE 0912 (TOKLAT PARKING)
53.70	53.70	INTERSECTION	R	UNPAVED PARKING (TOKLAT CABIN PARKING)
54.12	54.12	MILE MARKER	R	MILE MARKER 54
55.12	55.12	MILE MARKER	R	MILE MARKER 55
55.69	55.69	INTERSECTION	R	UNPAVED ROUTE
56.12	56.12	MILE MARKER	N/A	MILE MARKER 56 (LOCATION NOT VERIFIED IN VIDEO)
57.12	57.12	MILE MARKER	N/A	MILE MARKER 57 (LOCATION NOT VERIFIED IN VIDEO)
58.14	58.14	MILE MARKER	R	MILE MARKER 58
59.14	59.14	MILE MARKER	N/A	MILE MARKER 59 (LOCATION NOT VERIFIED IN VIDEO)
60.14	60.14	MILE MARKER	N/A	MILE MARKER 60 (LOCATION NOT VERIFIED IN VIDEO)
60.59	60.62	BRIDGE	N/A	9830-015 (STONY CREEK BRIDGE)
60.65	60.65	INTERSECTION	L	UNPAVED PARKING (STONEY CREEK PULLOUT)
60.68	60.68	INTERSECTION	L	UNPAVED PARKING (STONEY CREEK PULLOUT)
61.16	61.16	MILE MARKER	R	MILE MARKER 61
62.07	62.07	INTERSECTION	L	ROUTE 0913 (STONY HILL OVERLOOK PARKING)
62.09	62.09	MILE MARKER	R	MILE MARKER 62
63.10	63.10	MILE MARKER	N/A	MILE MARKER 63 (LOCATION NOT VERIFIED IN VIDEO)

DENA: Route Milepost Log

ROUTE 0010W: DENALI PARK ROAD - WEST

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
64.15	64.15	MILE MARKER	R	MILE MARKER 64
65.16	65.16	MILE MARKER	R	MILE MARKER 65
66.01	66.01	INTERSECTION	L	ROUTE 0914 (EIELSON VISITOR CENTER PARKING)
66.08	66.08	INTERSECTION	L	ROUTE 0914 (EIELSON VISITOR CENTER PARKING)
66.15	66.15	MILE MARKER	R	MILE MARKER 66
67.15	67.15	MILE MARKER	N/A	MILE MARKER 67 (LOCATION NOT VERIFIED IN VIDEO)
68.15	68.15	MILE MARKER	R	MILE MARKER 68
69.16	69.16	MILE MARKER	R	MILE MARKER 69
70.15	70.15	MILE MARKER	N/A	MILE MARKER 70 (LOCATION NOT VERIFIED IN VIDEO)
70.33	70.33	INTERSECTION	L	UNPAVED PARKING
71.14	71.14	MILE MARKER	N/A	MILE MARKER 71 (LOCATION NOT VERIFIED IN VIDEO)
72.15	72.15	MILE MARKER	R	MILE MARKER 72
73.13	73.13	INTERSECTION	L	ROUTE 0976 (MILE 73 PULLOUT PARKING)
73.15	73.15	INTERSECTION	L	ROUTE 0976 (MILE 73 PULLOUT PARKING)
73.16	73.16	MILE MARKER	R	MILE MARKER 73
74.16	74.16	MILE MARKER	N/A	MILE MARKER 74 (LOCATION NOT VERIFIED IN VIDEO)
74.79	74.79	INTERSECTION	R	ROUTE 0946 (MOOSE CREEK PIT PARKING)
75.16	75.16	MILE MARKER	N/A	MILE MARKER 75 (LOCATION NOT VERIFIED IN VIDEO)
76.17	76.17	MILE MARKER	N/A	MILE MARKER 76 (LOCATION NOT VERIFIED IN VIDEO)
76.78	76.78	INTERSECTION	R	ROUTE 0947 (HIDEOUT PIT PARKING)
77.17	77.17	MILE MARKER	N/A	MILE MARKER 77 (LOCATION NOT VERIFIED IN VIDEO)
77.68	77.68	INTERSECTION	L	UNPAVED ROUTE
78.17	78.17	MILE MARKER	N/A	MILE MARKER 78 (LOCATION NOT VERIFIED IN VIDEO)
79.34	79.34	INTERSECTION	R	ROUTE 0948 (DUCK POND PULLOUT PARKING)
79.82	79.82	MILE MARKER	R	MILE MARKER 80
81.03	81.03	MILE MARKER	R	MILE MARKER 81
82.04	82.04	MILE MARKER	N/A	MILE MARKER 82 (LOCATION NOT VERIFIED IN VIDEO)
83.04	83.04	MILE MARKER	N/A	MILE MARKER 83 (LOCATION NOT VERIFIED IN VIDEO)
83.30	83.30	INTERSECTION	L	ROUTE 0978 (BIG TIMBER OVERLOOK PARKING)

DENA: Route Milepost Log

ROUTE 0010W: DENALI PARK ROAD - WEST

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
84.04	84.04	MILE MARKER	N/A	MILE MARKER 84 (LOCATION NOT VERIFIED IN VIDEO)
84.61	84.61	INTERSECTION	L	ROUTE 0103 (WONDER LAKE CAMPGROUND ACCESS ROAD)
84.77	84.77	INTERSECTION	R	ROUTE 0949 (DALLE-MOLLEVILLE PARKING)
85.20	85.20	MILE MARKER	R	MILE MARKER 85
85.48	85.48	INTERSECTION	L	ROUTE 0951 (REFLECTION POND PARKING)
86.24	86.24	MILE MARKER	R	MILE MARKER 86
86.67	86.67	INTERSECTION	R	ROUTE 0950 (WONDER LAKE RANGER STATION PARKING)
86.70	86.70	INTERSECTION	R	ROUTE 0950 (WONDER LAKE RANGER STATION PARKING)
87.23	87.23	MILE MARKER	N/A	MILE MARKER 87 (LOCATION NOT VERIFIED IN VIDEO)
87.69	87.69	INTERSECTION	R	UNPAVED PARKING (MILE 87.7 RESTROOM PULLOUT)
87.96	87.96	INTERSECTION	L	UNPAVED ROUTE
88.19	88.19	INTERSECTION	R	UNPAVED ROUTE
88.20	88.20	INTERSECTION	R	UNPAVED ROUTE
88.23	88.23	MILE MARKER	N/A	MILE MARKER 88 (LOCATION NOT VERIFIED IN VIDEO)
88.92	88.92	INTERSECTION	L	UNPAVED ROUTE
88.98	88.98	INTERSECTION	R	UNPAVED ROUTE
89.14	89.17	BRIDGE	N/A	9830-016 (MOOSE CREEK BRIDGE)
89.15	89.15	MILE MARKER	N/A	MILE MARKER 89 (LOCATION NOT VERIFIED IN VIDEO)
89.23	89.23	INTERSECTION	R	UNPAVED ROUTE
90.18	90.18	MILE MARKER	R	MILE MARKER 90
90.92	90.92	INTERSECTION	L	UNPAVED ROUTE
91.04	91.06	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
91.18	91.18	MILE MARKER	N/A	MILE MARKER 91 (LOCATION NOT VERIFIED IN VIDEO)
91.72	91.72	INTERSECTION	R	ROUTE 0425 (KANTISHNA SKYLINE DRIVE)
92.19	92.19	MILE MARKER	N/A	MILE MARKER 92 (LOCATION NOT VERIFIED IN VIDEO)
92.22	92.22	INTERSECTION	L	UNPAVED ROUTE
92.23	92.24	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
92.25	92.25	INTERSECTION	R	ROUTE 0424 (FRIDAY CREEK CAMP ROAD)

DENA: Route Milepost Log

ROUTE 0010W: DENALI PARK ROAD - WEST

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
92.33	92.33	INTERSECTION	R	UNPAVED PARKING (KANTISHNA FANNIE QUIGLEY CABIN PULLOUT)
92.37	92.37	INTERSECTION	L	UNPAVED ROUTE
92.42	92.42	INTERSECTION	L	ROUTE 0988 (KANTISHNA AIRSTRIP PARKING)
92.47	92.47	INTERSECTION	L	UNPAVED PARKING
92.61	92.61	INTERSECTION	L	ROUTE 0010W (DENALI PARK ROAD - WEST)
92.70	92.70	INTERSECTION	N/A	ROUTE 0010W (DENALI PARK ROAD - WEST)
92.70	92.70	INTERSECTION	L	ROUTE 0010W (DENALI PARK ROAD - WEST)

DENA: Route Milepost Log

ROUTE 0100: RILEY CREEK CAMPGROUND ACCESS ROAD

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 0222 (MERCANTILE ACCESS ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0222 (MERCANTILE ACCESS ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0222 (MERCANTILE ACCESS ROAD)
0.02	0.02	INTERSECTION	R	ROUTE 0927 (RILEY CREEK CAMPGROUND MERCANTILE SHUTTLE STOP)
0.09	0.09	INTERSECTION	R	ROUTE 0200CZ (RILEY CREEK CAMPGROUND BEAR LOOP (SITES 2-41))
0.15	0.15	INTERSECTION	R	ROUTE 0200BZ (RILEY CREEK CAMPGROUND WOLF LOOP (SITES 42-92))
0.17	0.17	INTERSECTION	R	ROUTE 0929A (RILEY CREEK SHUTTLE STOP)
0.18	0.18	INTERSECTION	L	ROUTE 0929B (RILEY CREEK SHUTTLE BUS TURN AROUND)
0.21	0.21	INTERSECTION	L	ROUTE 0928 (RILEY CREEK POST OFFICE PARKING)
0.21	0.21	INTERSECTION	R	ROUTE 0200AZ (RILEY CREEK CAMPGROUND CARIBOU LOOP (SITES 93-151))
0.22	0.22	INTERSECTION	N/A	ROUTE 0916A (RILEY CREEK OVERFLOW PARKING (PAVED))

DENA: Route Milepost Log

ROUTE 0200AZ: RILEY CREEK CAMPGROUND CARIBOU LOOP (SITES 93-151)

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0100 (RILEY CREEK CAMPGROUND ACCESS ROAD)
0.00	0.00	INTERSECTION	N/A	ROUTE 0928 (RILEY CREEK POST OFFICE PARKING)
0.00	0.00	INTERSECTION	L	ROUTE 0100 (RILEY CREEK CAMPGROUND ACCESS ROAD)
0.03	0.03	INTERSECTION	L	ROUTE 0200AZ (RILEY CREEK CAMPGROUND CARIBOU LOOP (SITES 93-151))
0.03	0.03	ONE-WAY START	N/A	N/A
0.09	0.09	INTERSECTION	R	ROUTE 0926A (RILEY CREEK CAMPGROUND BEAR LOOP RESTROOM PARKING A)
0.18	0.18	INTERSECTION	L	UNPAVED CUT-THRU
0.20	0.20	INTERSECTION	R	ROUTE 0926B (RILEY CREEK CAMPGROUND BEAR LOOP RESTROOM PARKING B)
0.38	0.38	INTERSECTION	L	UNPAVED CUT-THRU
0.55	0.55	ONE-WAY END	N/A	N/A
0.55	0.55	INTERSECTION	R	ROUTE 0200AZ (RILEY CREEK CAMPGROUND CARIBOU LOOP (SITES 93-151))
0.55	0.55	INTERSECTION	L	ROUTE 0200AZ (RILEY CREEK CAMPGROUND CARIBOU LOOP (SITES 93-151))

ROUTE 0200BZ: RILEY CREEK CAMPGROUND WOLF LOOP (SITES 42-92)

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0100 (RILEY CREEK CAMPGROUND ACCESS ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0100 (RILEY CREEK CAMPGROUND ACCESS ROAD)
0.03	0.03	INTERSECTION	L	ROUTE 0200BZ (RILEY CREEK CAMPGROUND WOLF LOOP (SITES 42-92))
0.03	0.03	ONE-WAY START	N/A	N/A
0.50	0.50	INTERSECTION	R	PAVED PARKING (RILEY CREEK CAMPGROUND DUMPSTER PULLOUT)
0.52	0.52	INTERSECTION	L	ROUTE 0200BZ (RILEY CREEK CAMPGROUND WOLF LOOP (SITES 42-92))
0.52	0.52	ONE-WAY END	N/A	N/A
0.52	0.52	INTERSECTION	R	ROUTE 0200BZ (RILEY CREEK CAMPGROUND WOLF LOOP (SITES 42-92))

DENA: Route Milepost Log

ROUTE 0200CZ: RILEY CREEK CAMPGROUND BEAR LOOP (SITES 2-41)

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 0100 (RILEY CREEK CAMPGROUND ACCESS ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0100 (RILEY CREEK CAMPGROUND ACCESS ROAD)
0.03	0.03	INTERSECTION	L	ROUTE 0200CZ (RILEY CREEK CAMPGROUND BEAR LOOP (SITES 2-41))
0.03	0.03	ONE-WAY START	N/A	N/A
0.28	0.28	INTERSECTION	R	ROUTE 0979BZ (RILEY CREEK CAMPGROUND CARIBOU LOOP RESTROOM PARKING B)
0.39	0.39	INTERSECTION	R	ROUTE 0979AZ (RILEY CREEK CAMPGROUND CARIBOU LOOP RESTROOM PARKING A)
0.46	0.46	INTERSECTION	R	ROUTE 0200CZ (RILEY CREEK CAMPGROUND BEAR LOOP (SITES 2-41))
0.46	0.46	ONE-WAY END	N/A	N/A
0.46	0.46	INTERSECTION	L	ROUTE 0200CZ (RILEY CREEK CAMPGROUND BEAR LOOP (SITES 2-41))

ROUTE 0201: WILDERNESS ACCESS CENTER (BUS DEPOT) ACCESS ROAD

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0010EZ (DENALI PARK ROAD - EAST)
0.00	0.00	INTERSECTION	L	ROUTE 0010EZ (DENALI PARK ROAD - EAST)
0.05	0.05	INTERSECTION	R	ROUTE 0429AZ (BUS DEPOT DROP OFF LOOP)
0.10	0.10	INTERSECTION	R	ROUTE 0429BZ (BUS DEPOT TURN AROUND)
0.13	0.13	INTERSECTION	R	ROUTE 0429BZ (BUS DEPOT TURN AROUND)
0.24	0.24	INTERSECTION	R	ROUTE 0900AZ (BUS DEPOT LOWER PARKING)
0.29	0.29	INTERSECTION	N/A	ROUTE 0900BZ (BUS DEPOT UPPER PARKING)

DENA: Route Milepost Log

ROUTE 0203: HEADQUARTERS ACCESS ROAD

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0010EZ (DENALI PARK ROAD - EAST)
0.00	0.00	INTERSECTION	L	ROUTE 0010EZ (DENALI PARK ROAD - EAST)
0.02	0.02	INTERSECTION	R	ROUTE 0983A (HQ AND KENNELS LOOP ROAD & PARKING (PAVED))
0.06	0.06	INTERSECTION	L	ROUTE 0407CZ (HEADQUARTERS HOUSING AREA ROAD C)
0.08	0.08	INTERSECTION	R	ROUTE 0905BZ (HEADQUARTERS PARKING 1)
0.08	0.08	INTERSECTION	L	ROUTE 0905CZ (HEADQUARTERS PARKING 2)
0.11	0.11	INTERSECTION	L	ROUTE 0407Z (HEADQUARTERS HOUSING AREA ROAD)
0.11	0.11	INTERSECTION	R	UNPAVED ROUTE
0.12	0.12	INTERSECTION	N/A	ROUTE 0409AZ (DOG KENNELS ACCESS ROAD)

ROUTE 0222: MERCANTILE ACCESS 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	R	ROUTE 0010EZ (DENALI PARK ROAD - EAST)
0.00	0.00	INTERSECTION	L	ROUTE 0010EZ (DENALI PARK ROAD - EAST)
0.00	0.00	ONE-WAY START	N/A	N/A
0.03	0.03	INTERSECTION	L	PAVED SPUR
0.04	0.04	INTERSECTION	L	PAVED SPUR
0.16	0.16	INTERSECTION	R	ROUTE 0971 (MERCANTILE DUMP STATION)
0.18	0.18	INTERSECTION	R	ROUTE 0971 (MERCANTILE DUMP STATION)
0.20	0.20	INTERSECTION	R	ROUTE 0423 (MERCANTILE SERVICE ROAD)
0.20	0.20	INTERSECTION	R	ROUTE 0972 (MERCANTILE STORE PARKING)
0.22	0.22	INTERSECTION	R	ROUTE 0972 (MERCANTILE STORE PARKING)
0.27	0.27	INTERSECTION	R	ROUTE 0972 (MERCANTILE STORE PARKING)
0.27	0.27	INTERSECTION	R	ROUTE 0423 (MERCANTILE SERVICE ROAD)
0.29	0.29	INTERSECTION	R	ROUTE 0100 (RILEY CREEK CAMPGROUND ACCESS ROAD)
0.29	0.29	INTERSECTION	L	ROUTE 0222 (MERCANTILE ACCESS ROAD)
0.33	0.33	INTERSECTION	R	ROUTE 0010EZ (DENALI PARK ROAD - EAST)
0.33	0.33	INTERSECTION	L	ROUTE 0010EZ (DENALI PARK ROAD - EAST)
0.33	0.33	ONE-WAY END	N/A	N/A

DENA: Route Milepost Log

ROUTE 0223AZ: TRAIN DEPOT ACCESS ROAD

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0010EZ (DENALI PARK ROAD - EAST)
0.00	0.00	INTERSECTION	L	ROUTE 0010EZ (DENALI PARK ROAD - EAST)
0.08	0.08	INTERSECTION	L	ROUTE 0428 (ARRC ACCESS ROAD)
0.09	0.09	INTERSECTION	R	ROUTE 0223BZ (TRAIN DEPOT BUS DROP OFF ROAD)
0.10	0.10	INTERSECTION	L	PAVED PARKING (TRAIN DEPOT PARKING A / NON NPS)
0.16	0.16	INTERSECTION	R	ROUTE 0223BZ (TRAIN DEPOT BUS DROP OFF ROAD)
0.17	0.17	INTERSECTION	L	PAVED PARKING (TRAIN DEPOT PARKING B / NON NPS)
0.20	0.20	INTERSECTION	L	PAVED PARKING (TRAIN DEPOT PARKING C / NON NPS)
0.24	0.24	INTERSECTION	L	ROUTE 0223AZ (TRAIN DEPOT ACCESS ROAD)
0.24	0.24	ONE-WAY START	N/A	N/A
0.30	0.30	INTERSECTION	R	UNPAVED ROUTE
0.33	0.33	INTERSECTION	R	ROUTE 0223CZ (TRAIN DEPOT BACK ACCESS ROAD)
0.34	0.34	INTERSECTION	R	PAVED PARKING (TRAIN DEPOT PARKING D / NON NPS)
0.42	0.42	INTERSECTION	L	ROUTE 0223AZ (TRAIN DEPOT ACCESS ROAD)
0.42	0.42	INTERSECTION	N/A	ROUTE 0223AZ (TRAIN DEPOT ACCESS ROAD)
0.42	0.42	ONE-WAY END	N/A	N/A

ROUTE 0223BZ: TRAIN DEPOT BUS DROP OFF ROAD

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0223AZ (TRAIN DEPOT ACCESS ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0223AZ (TRAIN DEPOT ACCESS ROAD)
0.00	0.00	ONE-WAY START	N/A	N/A
0.04	0.04	INTERSECTION	R	ROUTE 0427 (MORINO GRILL ACCESS ROAD)
0.09	0.09	INTERSECTION	R	ROUTE 0223AZ (TRAIN DEPOT ACCESS ROAD)
0.09	0.09	INTERSECTION	L	ROUTE 0223AZ (TRAIN DEPOT ACCESS ROAD)
0.09	0.09	ONE-WAY END	N/A	N/A

DENA: Route Milepost Log

ROUTE 0224: MOUNTAIN VISTA LOOP ROAD

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0010EZ (DENALI PARK ROAD - EAST)
0.00	0.00	INTERSECTION	L	ROUTE 0010EZ (DENALI PARK ROAD - EAST)
0.03	0.03	INTERSECTION	L	ROUTE 0224 (MOUNTAIN VISTA LOOP ROAD)
0.03	0.03	ONE-WAY START	N/A	N/A
0.05	0.05	INTERSECTION	R	ROUTE 0980 (MOUNTAIN VISTA LOOP ROAD PARKING)
0.08	0.08	INTERSECTION	R	ROUTE 0980 (MOUNTAIN VISTA LOOP ROAD PARKING)
0.11	0.11	INTERSECTION	R	ROUTE 0980 (MOUNTAIN VISTA LOOP ROAD PARKING)
0.14	0.14	INTERSECTION	R	ROUTE 0980 (MOUNTAIN VISTA LOOP ROAD PARKING)
0.28	0.28	INTERSECTION	L	ROUTE 0224 (MOUNTAIN VISTA LOOP ROAD)
0.28	0.28	INTERSECTION	R	ROUTE 0224 (MOUNTAIN VISTA LOOP ROAD)
0.28	0.28	ONE-WAY END	N/A	N/A

ROUTE 0404AZ: FRONT COUNTRY WATER SUPPLY ROAD (PAVED)

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0010EZ (DENALI PARK ROAD - EAST)
0.00	0.00	INTERSECTION	L	ROUTE 0010EZ (DENALI PARK ROAD - EAST)
0.02	0.02	INTERSECTION	R	ROUTE 0973 (MURIE SCIENCE AND LEARNING CENTER PARKING)
0.05	0.05	INTERSECTION	R	ROUTE 0426 (CONCESSIONS SUGARLOAF HALL ACCESS ROAD)
0.05	0.05	INTERSECTION	L	ROUTE 0990 (CONCESSIONS MAINTENANCE BUILDING PARKING)
0.06	0.06	INTERSECTION	R	ROUTE 0920 (BUS MAINTENANCE WEST PARKING)
0.08	0.08	INTERSECTION	L	ROUTE 0921 (CONCESSIONS EMPLOYEE PARKING)
0.10	0.10	INTERSECTION	L	ROUTE 0922 (CONCESSIONS BUS FLEET PARKING)
0.13	0.13	INTERSECTION	R	ROUTE 0920 (BUS MAINTENANCE WEST PARKING)
0.13	0.13	INTERSECTION	L	ROUTE 0922 (CONCESSIONS BUS FLEET PARKING)
0.14	0.14	INTERSECTION	N/A	ROUTE 0404BZ (FRONT COUNTRY WATER SUPPLY ROAD (UNPAVED))

DENA: Route Milepost Log

ROUTE 0405: C CAMP RESIDENCE AND MAINTENANCE 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	R	ROUTE 0010EZ (DENALI PARK ROAD - EAST)
0.00	0.00	INTERSECTION	L	ROUTE 0010EZ (DENALI PARK ROAD - EAST)
0.02	0.02	INTERSECTION	L	ROUTE 0985AZ (C CAMP RESIDENTIAL PAVED PARKING A)
0.06	0.06	INTERSECTION	L	ROUTE 0985AZ (C CAMP RESIDENTIAL PAVED PARKING A)
0.08	0.08	INTERSECTION	L	ROUTE 0985BZ (C CAMP RESIDENTIAL PAVED PARKING B)
0.10	0.10	INTERSECTION	R	ROUTE 0987 (SHAFFER BUILDING UPPER PARKING)
0.14	0.14	INTERSECTION	R	ROUTE 0987 (SHAFFER BUILDING UPPER PARKING)
0.14	0.14	INTERSECTION	L	ROUTE 0986 (SHAFFER BUILDING LOWER EMPLOYEE PARKING)
0.18	0.18	INTERSECTION	L	ROUTE 0933 (AUTO SHOP MAINTENANCE PARKING)
0.18	0.18	INTERSECTION	R	ROUTE 0935B (MAINTENANCE EQUIPMENT PARKING)
0.20	0.20	INTERSECTION	N/A	ROUTE 0936 (B AND U PAD PARKING)

ROUTE 0407AZ: HEADQUARTERS HOUSING AREA ROAD A

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0407Z (HEADQUARTERS HOUSING AREA ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0407Z (HEADQUARTERS HOUSING AREA ROAD)
0.06	0.06	INTERSECTION	R	ROUTE 0407BZ (HEADQUARTERS HOUSING AREA ROAD B)
0.16	0.16	INTERSECTION	R	ROUTE 0407Z (HEADQUARTERS HOUSING AREA ROAD)
0.16	0.16	INTERSECTION	L	ROUTE 0407Z (HEADQUARTERS HOUSING AREA ROAD)
0.18	0.18	INTERSECTION	L	ROUTE 0407CZ (HEADQUARTERS HOUSING AREA ROAD C)
0.22	0.22	INTERSECTION	L	ROUTE 0407Z (HEADQUARTERS HOUSING AREA ROAD)
0.22	0.22	INTERSECTION	R	ROUTE 0407Z (HEADQUARTERS HOUSING AREA ROAD)

DENA: Route Milepost Log

ROUTE 0407BZ: HEADQUARTERS HOUSING AREA ROAD B

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0407AZ (HEADQUARTERS HOUSING AREA ROAD A)
0.00	0.00	INTERSECTION	R	ROUTE 0407AZ (HEADQUARTERS HOUSING AREA ROAD A)
0.05	0.05	INTERSECTION	R	UNPAVED PARKING (WILDLIFE CACHE ATCO TRAILER PARKING)
0.06	0.06	INTERSECTION	N/A	UNPAVED PARKING (HQ RV PARKING)

ROUTE 0407Z: HEADQUARTERS HOUSING AREA ROAD

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0010EZ (DENALI PARK ROAD - EAST)
0.00	0.00	INTERSECTION	R	ROUTE 0010EZ (DENALI PARK ROAD - EAST)
0.03	0.03	INTERSECTION	R	ROUTE 0407AZ (HEADQUARTERS HOUSING AREA ROAD A)
0.06	0.06	INTERSECTION	L	ROUTE 0407AZ (HEADQUARTERS HOUSING AREA ROAD A)
0.06	0.06	INTERSECTION	R	ROUTE 0407AZ (HEADQUARTERS HOUSING AREA ROAD A)
0.14	0.14	INTERSECTION	L	ROUTE 0407AZ (HEADQUARTERS HOUSING AREA ROAD A)
0.15	0.15	INTERSECTION	R	ROUTE 0981 (HR STAFF PARKING)
0.21	0.21	INTERSECTION	L	ROUTE 0203 (HEADQUARTERS ACCESS ROAD)
0.21	0.21	INTERSECTION	R	ROUTE 0203 (HEADQUARTERS ACCESS ROAD)

ROUTE 0423: MERCANTILE SERVICE 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	R	ROUTE 0222 (MERCANTILE ACCESS ROAD)
0.00	0.00	INTERSECTION	N/A	ROUTE 0222 (MERCANTILE ACCESS ROAD)
0.00	0.00	ONE-WAY START	N/A	N/A
0.01	0.01	INTERSECTION	L	ROUTE 0972 (MERCANTILE STORE PARKING)
0.02	0.02	INTERSECTION	R	UNPAVED ROUTE
0.11	0.11	INTERSECTION	R	ROUTE 0222 (MERCANTILE ACCESS ROAD)
0.11	0.11	INTERSECTION	L	ROUTE 0222 (MERCANTILE ACCESS ROAD)
0.11	0.11	ONE-WAY END	N/A	N/A

DENA: Route Milepost Log

ROUTE 0429AZ: BUS DEPOT DROP OFF LOOP

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 0201 (WILDERNESS ACCESS CENTER (BUS DEPOT) ACCESS ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0201 (WILDERNESS ACCESS CENTER (BUS DEPOT) ACCESS ROAD)
0.04	0.04	INTERSECTION	L	ROUTE 0429AZ (BUS DEPOT DROP OFF LOOP)
0.04	0.04	ONE-WAY START	N/A	N/A
0.10	0.10	INTERSECTION	R	PAVED PARKING (BUS DEPOT ADMIN PARKING)
0.13	0.13	ONE-WAY END	N/A	N/A
0.13	0.13	INTERSECTION	R	ROUTE 0429AZ (BUS DEPOT DROP OFF LOOP)
0.13	0.13	INTERSECTION	L	ROUTE 0429AZ (BUS DEPOT DROP OFF LOOP)

ROUTE 0429BZ: BUS DEPOT TURN AROUND

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 0201 (WILDERNESS ACCESS CENTER (BUS DEPOT) ACCESS ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0201 (WILDERNESS ACCESS CENTER (BUS DEPOT) ACCESS ROAD)
0.05	0.05	INTERSECTION	L	ROUTE 0201 (WILDERNESS ACCESS CENTER (BUS DEPOT) ACCESS ROAD)
0.05	0.05	INTERSECTION	R	ROUTE 0201 (WILDERNESS ACCESS CENTER (BUS DEPOT) ACCESS ROAD)

DENA: Route Milepost Log

ROUTE 0429BZ: BUS DEPOT TURN AROUND

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 0201 (WILDERNESS ACCESS CENTER (BUS DEPOT) ACCESS ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0201 (WILDERNESS ACCESS CENTER (BUS DEPOT) ACCESS ROAD)
0.05	0.05	INTERSECTION	L	ROUTE 0201 (WILDERNESS ACCESS CENTER (BUS DEPOT) ACCESS ROAD)
0.05	0.05	INTERSECTION	R	ROUTE 0201 (WILDERNESS ACCESS CENTER (BUS DEPOT) ACCESS ROAD)

Section 8 Appendix



Denali National Park & Preserve



Federal Lands Highway
Road Inventory Program

Improvements to the RIP Index Equations and Determination of PCR

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

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

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

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

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

Description of the Rating System

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

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

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

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

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

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

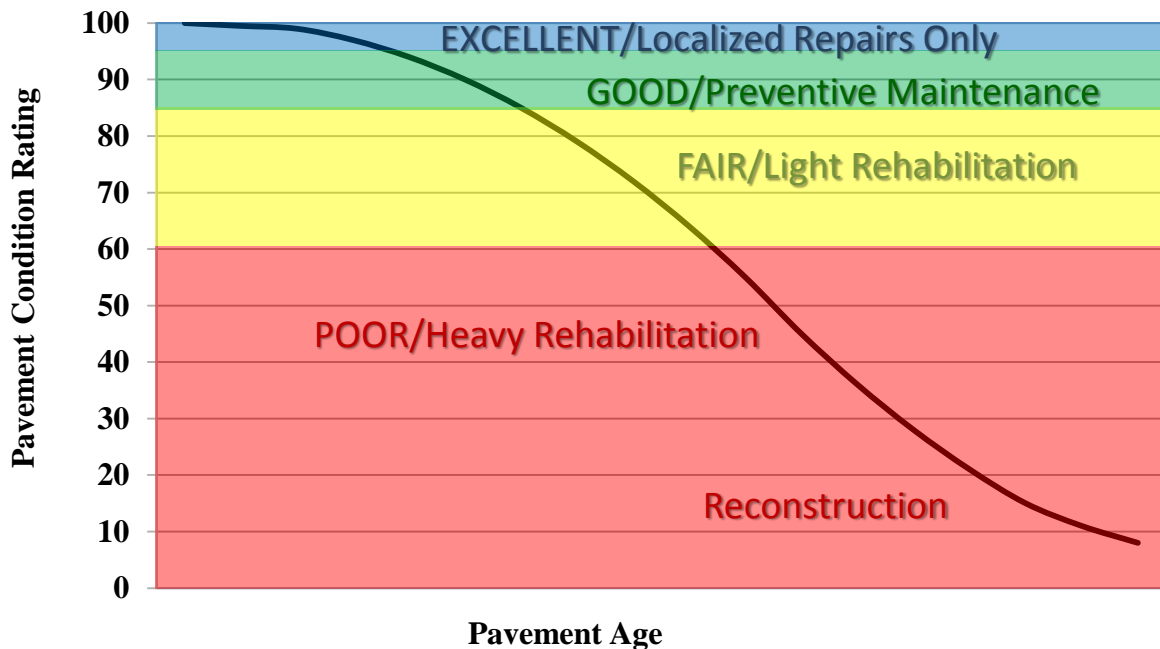
Explanation of the Condition Descriptions

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

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

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

Condition Categories and Treatments



Description of Pavement Treatment Types

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

Appendix A

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

Surface Distresses Identified by the Data Collection Vehicle

Surface Condition Rating – SCR

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

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

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

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

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

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

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

Roughness Condition Index - RCI

Additional condition data measured by DCV (lasers and accelerometers)

- Roughness (IRI)

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

Pavement Condition Rating - PCR

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

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

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

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

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

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

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

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

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

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

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

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

Table 1. Distress summary

Alligator Cracking

Description:

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

Severity Levels:

LOW

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

MEDIUM

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

HIGH

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

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

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

Table 2. Alligator Crack Severity Levels

Longitudinal Cracking

Description:

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

Severity Levels:

LOW

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

MEDIUM

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

HIGH

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

Transverse Cracking

Description:

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

Severity Levels:

LOW

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

MEDIUM

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

HIGH

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

Patching and Potholes

Description:

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

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

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

Speed bumps should not be rated as patches

Severity Levels:

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

RUTTING

Description:

Rutting is a longitudinal surface depression in the wheelpath.

Severity Levels:

LOW

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

MEDIUM

Ruts with a measured depth of 0.50 inches to 0.99 inches

HIGH

Ruts with a measured depth greater than 1.00 inch

ROUGHNESS

Description:

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

Severity Levels:

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

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

Table 3. International Roughness Index

Roughness Collection Parameters

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

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

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

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

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

Index Formulas

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

Alligator Crack Index

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

Where:

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

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

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

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

Percent of total area is computed as:

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

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

Longitudinal Crack Index

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

Where:

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

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

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

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

Percent of interval length is computed as:

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

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

Structural Crack Index

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

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

Transverse Crack Index

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

Where:

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

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

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

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

Number of cracks is computed as:

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

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

Patching Index

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

Where:

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

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

Percent of total area is computed as:

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

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

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

Rutting Index

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

Where:

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

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

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

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

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

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

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

Roughness Condition Index (Asphalt)

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

Where:

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

Average IRI is computed as:

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

There is no applicable threshold for failure for this index.

Roughness Condition Index (Concrete)

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

For concrete, PCR = RCI

Surface Condition Rating Index

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

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

Where:

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

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

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

Cameras

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

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

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

Pavement Imaging and Rutting

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

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

Distance Measuring Instrument (DMI)

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

Roughness (IRI)

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

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

GPS & Inertial Systems

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

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

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

Appendix B

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

Description of Manual Rating Methods

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

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

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

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

Visual Inspection Method for Manually Rating Secondary Roads

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

Rating Section Lengths

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

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

Rating Criteria

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

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

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

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

Distress Measurement Method for Manually Rating Primary Roads

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

Rating Section Lengths

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

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

Manual Distress Measurements

Alligator Cracking

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

Longitudinal Cracking

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

Transverse Cracking

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

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

Patching and Potholes

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

Rutting

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

Roughness

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

Index Formulas for Distress Measurement Method:

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

Alligator Crack Index for Manual Rating:

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

Where:

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

Longitudinal Crack Index for Manual Rating:

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

Where:

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

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

Transverse Crack Index for Manual Rating:

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

Where:

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

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

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

Patching Index for Manual Rating:

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

Where:

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

Rutting Index for Manual Rating:

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

Where:

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

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

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

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

Rating Criteria:

Asphalt Parking Distress Types

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

Concrete Parking Distress Types

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

Curb Inspection and Treatments

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

Curb Reveal

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

Curb Recommendations

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

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

GPS for Manually Rated Roads and Parking

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

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

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

Appendix C
Description of Cycle 6 Deliverables

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

Partial DCV Collections

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

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

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

Appendix D
Glossary of Terms and Abbreviations

Glossary of Terms and Abbreviations

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

Appendix E

Methodology for Determining Condition

Ratings Using Manual Rating Procedures

for Unpaved Assets

Condition Rating Criteria

ROADS - GRAVEL / NATIVE SURFACES

CROWN

RATING	RATING CRITERIA
MINOR	Center 3" to 6" above sides.
MODERATE	Center < 3" above sides.
SEVERE	Surface is flat or bowled.

DRAINAGE

RATING	RATING CRITERIA
MINOR	Road edge 2" above ground level.
MODERATE	Road edge level with ground level.
SEVERE	Road edge below ground level. Inadequate or missing ditches and side drains. Ponding.

POTHoles / LOOSE AGGREGATE

Note: Loose Aggregate only applies to Gravel

RATING	RATING CRITERIA
MINOR	Potholes Few <2". Loose Aggregate No exposure of subgrade or stone protrusion.
MODERATE	Potholes 2" - 4" Loose Aggregate < 20% (width of road) exposure of subgrade.
SEVERE	Potholes > 4" Loose Aggregate > 20% (width of road) exposure of subgrade.

RUTTING / WASHBOARDING

RATING	RATING CRITERIA
MINOR	Rutting < 1". Washboarding < 1"
MODERATE	Rutting 1" - 3". Washboarding 1" - 3".
SEVERE	Rutting > 3". Washboarding > 3".

DUST

RATING	RATING CRITERIA
MINOR	Dust slight or not visible.
MODERATE	Dust < 2 feet.
SEVERE	Dust > 2 feet.

PARKING - GRAVEL / NATIVE SURFACES

CROWN

RATING	RATING CRITERIA
MINOR	Center 3" to 6" above sides.
MODERATE	Center < 3" above sides.
SEVERE	Surface is flat or bowled.

DRAINAGE

RATING	RATING CRITERIA
MINOR	Road edge 2" above ground level.
MODERATE	Road edge level with ground level.
SEVERE	Road edge below ground level. Inadequate or missing ditches and side drains. Ponding.

POTHoles / LOOSE AGGREGATE

Note: Loose Aggregate only applies to Gravel

RATING	RATING CRITERIA
MINOR	Potholes Few <2". Loose Aggregate No exposure of subgrade or stone protrusion.
MODERATE	Potholes 2" - 4" Loose Aggregate < 20% (width of road) exposure of subgrade.
SEVERE	Potholes > 4" Loose Aggregate > 20% (width of road) exposure of subgrade.

RUTTING / WASHBOARDING

RATING	RATING CRITERIA
MINOR	Rutting < 1". Washboarding < 1"
MODERATE	Rutting 1" - 3". Washboarding 1" - 3".
SEVERE	Rutting > 3". Washboarding > 3".

DUST

RATING	RATING CRITERIA
MINOR	Dust slight or not visible.
MODERATE	Dust < 2 feet.
SEVERE	Dust > 2 feet.

Condition Rating Calculations

FWS Distress calculations – Native/Gravel

Using the “Report Card for Gravel/Native Road Inspection”, arriving at an “equivalent PASER score” for different road segment lengths of granularity is necessary.

Individual Distress Score Calculation

Any length of road will have severity lengths for each distress (Crown, Drainage, Rutting/Washboarding, & Potholes/Loose Aggregate). For example, at L length, there could be 3 different severities of Crown within L . The corresponding Crown score for that length would then take each severity and multiply each to determine the dominate score for that segment.

That can be expressed as:

Distress Score per segment would take the highest value or length of the resulting calculations
 $= (1 \times L_{low}), (2 \times L_{med}), (3 \times (L_{high} + L_{urgent}))$

Where:

L_{low} = Length of distress rated at Low Severity

L_{med} = Length of distress rated at Medium Severity

L_{high} = Length of distress rated at High Severity

L_{urgent} = Length of distress rated at Urgent Severity

The longest length after weighting has occurred would then determine the severity score for that segment.

Urgent and High severity lengths shall be combined and then multiplied by 3 to arrive at their weighted severity.

For reference –

- If only Low severity and Medium severity are selected for a section, it would take > 33% to be rated as Medium severity for the whole section to have a score of **2**.
- If only Low severity and High severity are selected for a section, it would take >25% to be rated as High severity of the section for the whole section to have a score of **3**.

Examples

528 foot segments

Crown Distress

250 ft Low Severity x **1** = 250 ft weighted severity

150 ft Medium Severity x **2** = 300 ft weighted severity

128 ft High Severity x **3** = 384 ft weighted severity

Since the weighted severity for High is the greatest length, the score for this section would be a **3** for High severity crown.

Rutting/Washboarding

78 ft Low Severity x **1** = 78 ft weighted severity

275 ft Med Severity x **2** = 550 ft weighted severity

180 ft High Severity x **3** = 540 ft weighted severity.

Since the weighted severity for Medium severity is the highest, the score for this section would a **2** for medium severity Rutting/Washboarding.

Treatment Decision Trees

Gravel Surface Decision Tree (Matrix) for Rating Scores and Treatment Types

VERSION #2 - IMPLEMENTED ON JUNE 1, 2019

Distress Severity		Crown 1			Crown 2			Crown 3		
		Rutting & Washboarding			Rutting & Washboarding			Rutting & Washboarding		
Distress	Severity	Severity			Severity			Severity		
		1	2	3	1	2	3	1	2	3
Drainage 1	Potheses & Loose Aggregate 1	5	5	4	4	4	3	3	3	2
	Potheses & Loose Aggregate 2	5	4	4	4	4	3	3	3	2
	Potheses & Loose Aggregate 3	4	4	4	3	3	3	2	2	1
Drainage 2	Potheses & Loose Aggregate 1	4	4	3	3	3	2	3	2	2
	Potheses & Loose Aggregate 2	4	4	3	3	2	2	2	2	2
	Potheses & Loose Aggregate 3	3	3	3	2	2	2	2	2	1
Drainage 3	Potheses & Loose Aggregate 1	3	3	2	3	2	2	2	1	1
	Potheses & Loose Aggregate 2	3	3	2	2	2	2	1	1	1
	Potheses & Loose Aggregate 3	2	2	1	2	2	1	1	1	1

Severity Levels:

- 1. Minor
- 2. Moderate
- 3. Severe/Urgent

Treatment Types:

	Limited Local Maintenance
	Routine Maintenance
	Light Rehabilitation
	Heavy Rehabilitation
	Reconstruction

Rating Scores:

"PASER +" Score (1-5)
shown within colored cells

Note: Dust is collected at the same severity levels shown above. However, dust is not a factor in the overall rating score.

Note: In June 2019, a validation study was performed to ensure appropriate PASER rating scores and treatment recommendations were arrived at using the unpaved matrix (decision trees). Based on the study findings, the gravel matrix scores were slightly modified (shown in red text) and a new native surface decision matrix was created (using the 1 to 4 PASER scale). Version #2 of the matrices are applied to all inspection ratings after June 1, 2019. By using distress quantities/severities and the matrices, a PASER score is determined. This methodology is referred to as "PASER +" by the RIP team.

Native Surface Decision Tree (Matrix) for Rating Scores and Treatment Types

VERSION #2 - IMPLEMENTED ON JUNE 1, 2019

Distress Severity		Crown 1			Crown 2			Crown 3			
		Rutting & Washboarding			Rutting & Washboarding			Rutting & Washboarding			
		Severity			Severity			Severity			
		1	2	3	1	2	3	1	2	3	
Drainage 1	Potholes	1	4	3	1	4	3	1	3	3	1
		2	3	2	1	3	2	1	3	2	1
		3	1	1	1	1	1	1	1	1	1
Drainage 2	Potholes	1	4	3	1	3	3	1	3	2	1
		2	3	2	1	3	2	1	2	2	1
		3	1	1	1	1	1	1	1	1	1
Drainage 3	Potholes	1	3	3	1	3	2	1	2	1	1
		2	3	2	1	2	2	1	1	1	1
		3	1	1	1	1	1	1	1	1	1

Severity Levels:

- 1. Minor
- 2. Moderate
- 3. Severe/Urgent

Treatment Types:

	Limited Local Maintenance
	Routine Maintenance
	Light Rehabilitation
	Heavy Rehabilitation

Rating Scores:

"PASER +" Score (1-4)
shown within colored cells

Note: Dust is collected at the same severity levels shown above. However, dust is not a factor in the overall rating score.