

PRWI Cycle 6

Final Report

Road Inventory and Condition Assessment of Paved Routes Prince William Forest Park



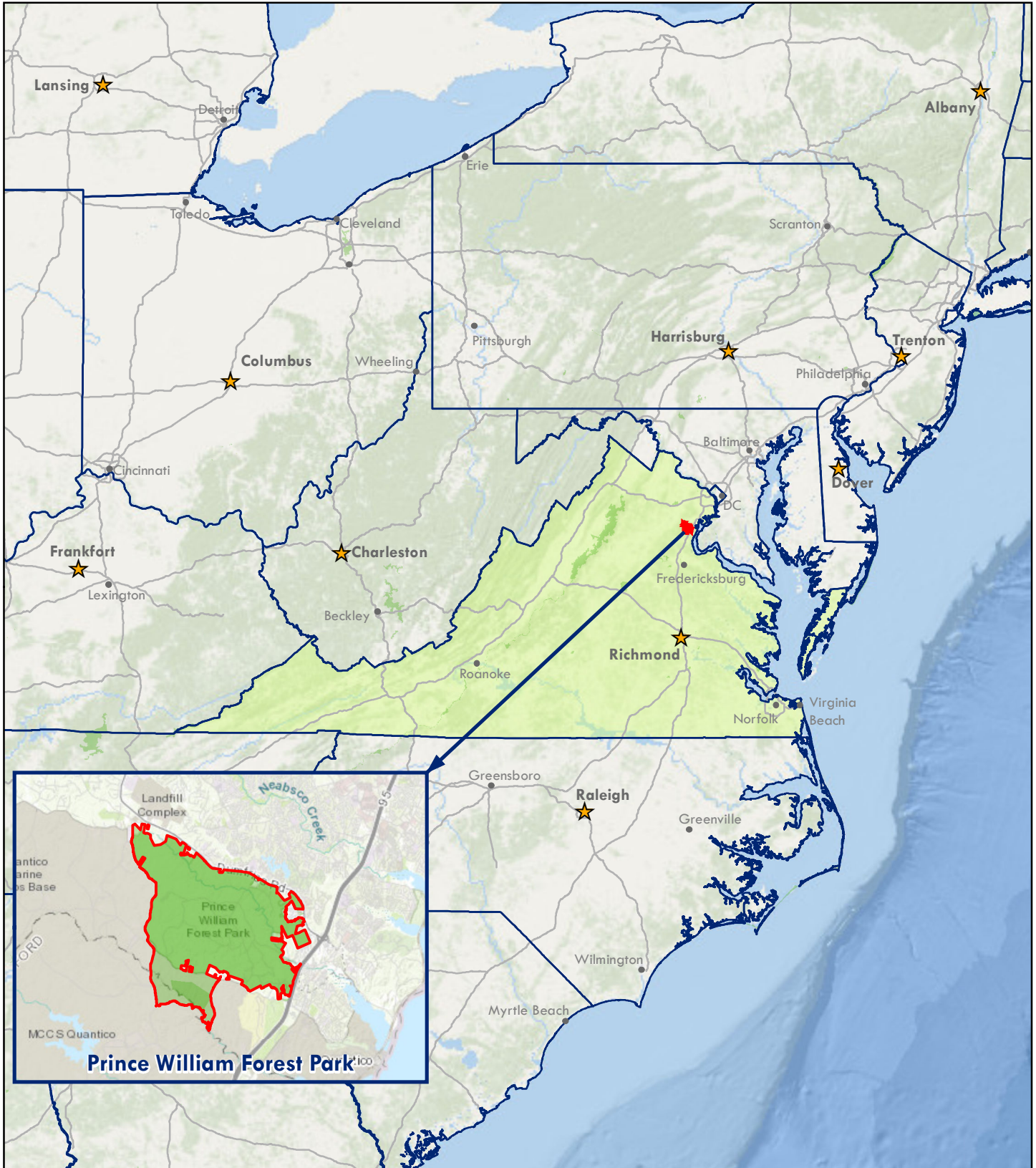
**Federal Lands Highway
Road Inventory Program**

Prepared By:

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

Report Date: May 2019

Prince William Forest Park in Virginia



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Section 1 Introduction



Prince William Forest Park



Federal Lands Highway
Road Inventory Program

Introduction

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

A History of the Road Inventory Program:

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

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

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

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

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

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

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

A History of the Pavement Management System:

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

Overview of Cycle 6:

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

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

Respectfully,

FHWA RIP Team

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Section 2 Park Route Inventory



Prince William Forest Park



Federal Lands Highway
Road Inventory Program

Cycle 6 NPS / RIP Route ID Report

(Numerical By Summary Route and Subcomponent #)



Shading Color Key

White = Paved Routes, DCV Driven

Grey = Paved Routes, DCV not Driven

Black = Non-NPS Routes

■ = Concession Route

Yellow = Unpaved Routes, DCV not Driven

Blue = Paved Parking Areas

Green = Unpaved Parking Areas

Red text denotes:

*Unpaved route data (mileages and square footage) were collected by the Road Inventory Program (RIP) only when the Cycle Collected is "6", otherwise the unpaved information was provided by NPS.

DCV = Data Collection Vehicle
MRL = Manually Rated Line
MRP = Manually Rated Polygon
PKG = Parking Areas
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PRWI Prince William Forest Park

ROAD INVENTORY (1100 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description		Maintenance District	FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)	Surf. Type	Area Map
						From	To									
0010	6	2	30663		PARK ENTRANCE ROAD	FROM ROUTE 5001 (VIRGINIA STATE HIGHWAY 619) AT END	TO END OF TWO-WAY LOOP		YES	0.66	0.00	0.66	1		AS	1A
0011	6	2	40581		SCENIC DRIVE	FROM ROUTE 0010 (PARK ENTRANCE ROAD)	TO END OF LOOP		YES	9.23	0.00	9.23	1		AS	1,1A,1B,1C
0012	6	2	30659		TURKEY RUN ACCESS ROAD	FROM ROUTE 0011 (SCENIC DRIVE) AT MP 8.91	TO ROUTE 0907 (TURKEY RUN EDUCATIONAL CENTER (TREC) PARKING)		YES	0.35	0.00	0.35	1		AS	1C
0013	6	2	30259		OAK RIDGE ROAD	FROM ROUTE 0011 (SCENIC DRIVE) AT MP 5.63	TO ROUTE 0501ZZ (OAK RIDGE CAMPGROUND LOOPS)		YES	0.65	0.00	0.65	1		AS	1
0015	6	2	40582		TELEGRAPH ROAD	FROM ROUTE 0010 (PARK ENTRANCE ROAD)	TO ROUTE 0902 (TELEGRAPH ROAD PICNIC AREA PARKING)		YES	0.26	0.00	0.26	2		AS	1A
0100	NC		15877		CABIN CAMP 4 ROADS	FROM ROUTE 0404 (CAMP 4 ACCESS ROAD)	THROUGH CABIN CAMP 4 AREA		NO	0.00	0.60	0.60	3		GR	
0101	NC		17289		CHOPAWAMSIK ROADS	FROM ROUTE 5001 (VIRGINIA STATE HIGHWAY 619)	TO END OF ROUTE		NO	0.00	0.60	0.60	4		GR	
0102	NC		36393		CABIN CAMP 2 AND 5 ENTRANCE ROAD	FROM ROUTE 0412 (MAWAVI FIRE ROAD)	TO END OF ROUTE		NO	0.00	1.00	1.00	3		GR	
0103	NC		35394		CABIN CAMP 1 ROADS	FROM ROUTE 0203 (PLEASANT ROAD)	TO END		NO	0.00	1.00	1.00	3		GR	
0104	NC		15845		CABIN CAMP 5 ROADS	FROM ROUTE 0206 (CAMP 5 ACCESS ROAD)	THROUGH CABIN CAMP 5 AREA		NO	0.00	1.00	1.00	3		GR	
0105	NC		40591		PYRITE MINE ROAD FIRE TRAIL	FROM ROUTE 0406 (PYRITE MINE ROAD)	TO END		NO	0.00	0.27	0.27	4		GR	
0201	6	2	30386		CARTER DAY CAMP ROAD	FROM ROUTE 0011 (SCENIC DRIVE) AT MP 1.20	TO ROUTE 0400 (PARK HEADQUARTERS ROAD)		YES	0.31	0.00	0.31	3		AS	1B
0203	NC		30354		PLEASANT ROAD	FROM ROUTE 5000 (VIRGINIA STATE HIGHWAY 234)	TO MINE ROAD		NO	0.00	1.77	1.77	3		GR	

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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									
0204	NC		40583		CAMP 3 ACCESS ROAD	FROM ROUTE 0011 (SCENIC DRIVE) AT MP 0.95	TO END		NO	0.00	0.18	0.18	3		GR	
0205	NC		35390		CAMP 2 ACCESS ROAD	FROM ROUTE 0412 (MAWAVI FIRE ROAD)	TO END		NO	0.00	0.86	0.86	3		GR	
0206	NC		40584		CAMP 5 ACCESS ROAD	FROM ROUTE 0412 (MAWAVI FIRE ROAD)	TO ROUTE 0104 (CABIN CAMP 5 ROADS)		NO	0.00	0.50	0.50	3		GR	
0207	NC		104733		OVERLOOK FIRE ROAD	FROM ROUTE 0412 (MAWAVI FIRE ROAD)	TO END		NO	0.00	0.38	0.38	5		GR	
0400	6	2	30383		PARK HEADQUARTERS ROAD	FROM ROUTE 5001 (VIRGINIA STATE HIGHWAY 619)	TO ROUTE 0906 (MAINTENANCE AREA PARKING)		YES	0.50	0.00	0.50	3		AS	1B
0401	NC		30363		BURMA ROAD	FROM ROUTE 0203 (PLEASANT ROAD)	TO ROUTE 0011 (SCENIC DRIVE) AT MP 3.84		NO	0.00	1.45	1.45	4		GR	
0402	NC		40585		SPRIGGS LANE FIRE ROAD	FROM ROUTE 5000 (VIRGINIA STATE HIGHWAY 234)	TO ROUTE 0401 (BURMA ROAD)		NO	0.00	0.36	0.36	4		GR	
0404	NC		40587		CAMP 4 ACCESS ROAD	FROM ROUTE 0203 (PLEASANT ROAD)	TO ROUTE 0100 (CABIN CAMP 4 ROADS)		NO	0.00	0.77	0.77	3		GR	
0405	NC		40475		LAKE ONE FIRE ROAD	FROM ROUTE 0011 (SCENIC DRIVE) AT MP 3.00	TO END		NO	0.00	0.56	0.56	4		GR	
0406	NC		30365		PYRITE MINE ROAD	FROM ROUTE 0011 (SCENIC DRIVE) AT MP 2.48	TO PYRITE MINE BRIDGE		NO	0.00	1.10	1.10	4		GR	
0407	NC		30671		NORTH ORENDA ROAD	FROM ROUTE 0011 (SCENIC DRIVE) AT MP 2.40	TO ROUTE 0408 (SOUTH ORENDA ROAD)		NO	0.00	1.50	1.50	4		GR	
0408	NC		30669		SOUTH ORENDA ROAD	FROM ROUTE 0204 (CAMP 3 ACCESS ROAD)	TO PIEDMONT TRAIL ROAD		NO	0.00	0.68	0.68	4		GR	
0409	NC		30370		LIMING LANE EXTENDED	FROM ROUTE 0011 (SCENIC DRIVE) AT MP 8.35	TO PARK BOUNDARY		NO	0.00	0.86	0.86	4		GR	
0410	NC		30658		TAYLOR FARM FIRE ROAD	FROM ROUTE 0011 (SCENIC DRIVE) AT MP 3.84	TO END		NO	0.00	1.54	1.54	4		GR	

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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									
0411	NC		30657		OLD BLACK TOP ROAD	FROM ROUTE 0907 (TURKEY RUN EDUCATIONAL CENTER (TREC) PARKING)	TO ROUTE 0011 (SCENIC DRIVE) AT MP 4.70		NO	0.00	1.58	1.58	4		GR	
0412	NC		30266		MAWAVI FIRE ROAD	FROM ROUTE 0011 (SCENIC DRIVE) AT MP 6.40	TO ROUTE 5001 (VIRGINIA STATE HIGHWAY 619)		NO	0.00	0.96	0.96	3		GR	
0413	NC		30253		WEST GATE FIRE ROAD	FROM ROUTE 0013 (OAK RIDGE ROAD)	TO ROUTE 5001 (VIRGINIA STATE HIGHWAY 619)		NO	0.00	0.60	0.60	4		GR	
0414	NC		40588		NOTTINGHAM FOREST ROAD	FROM NOTTINGHAM LANE	TO END		NO	0.00	0.37	0.37	4		GR	
0415	NC		40589		BOBCAT RIDGE ROAD	FROM BRECKENRIDGE ROAD	TO END		NO	0.00	0.60	0.60	4		GR	
0416	NC		40590		DEER RIDGE FIRE ROAD	FROM ROUTE 5001 (VIRGINIA STATE HIGHWAY 619) AT PARK BOUNDARY	TO ROUTE 0415 (BOBCAT RIDGE ROAD)		NO	0.00	0.37	0.37	4		GR	
0418	6	2	30378		ADMINISTRATIVE DRIVE	FROM ROUTE 0400 (PARK HEADQUARTERS ROAD)	TO END OF LOOP		YES	0.16	0.00	0.16	3		AS	1B
0419	NC		38347		BRADFORD FIRE ROAD	FROM ROUTE 5000 (VIRGINIA STATE HIGHWAY 234)	TO END		NO	0.00	0.04	0.04	6		GR	
0500	6	2	40592		TURKEY RUN CAMPGROUND LOOP	FROM ROUTE 0012 (TURKEY RUN ACCESS ROAD)	TO ROUTE 0012 (TURKEY RUN ACCESS ROAD)		YES	0.15	0.00	0.15	3		AS	1C
0501ZZ	6	2	30261		OAK RIDGE CAMPGROUND LOOPS	FROM END OF ROUTE 0013 (OAK RIDGE ROAD)	THROUGH CAMPGROUND		YES	1.05	0.00	1.05	3		AS	1
0502ZZ	6	2	30367	■	TRAVEL TRAILER VILLAGE LOOP ROADS	FROM ROUTE 5000 (VIRGINIA STATE HIGHWAY 234)	THROUGH LOOPS		YES	1.15	0.00	1.15	3		AS	1
0503	6	2	40604		VISITOR CENTER HOST ROAD	FROM ROUTE 0010 (PARK ENTRANCE ROAD)	TO END		YES	0.06	0.00	0.06	2		AS	1A

Cycle 6 NPS / RIP Route ID Report

(Numerical By Summary Route and Subcomponent #)



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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	4	1			VIRGINIA STATE HIGHWAY 234	FROM BRISTOW ROAD TO VAN BUREN ROAD / OL STAGE ROAD		NO	6.77	0.00	6.77			AS	KEY,1
5001	4	1			VIRGINIA STATE HIGHWAY 619	FROM MAWAVI ROAD TO BEGIN ROUTE 0010 (PARK ENTRANCE ROAD)		NO	4.08	0.00	4.08			AS	1,1A,1B
5002	5	1			NOTTINGHAM DRIVE	FROM ROUTE 5000 (VIRGINIA STATE HIGHWAY 234) TO DEAD END AT CUL-DE-SAC		NO	0.25	0.00	0.25			AS	KEY
5003	NC				BISTROW ROAD	FROM BISTROW ROAD TO PARKING		NO	0.10	0.00	0.10			AS	1

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						
0900	6	2	30958		VISITOR CENTER PARKING	FROM ROUTE 0010 (PARK ENTRANCE ROAD) TO PARKING		YES	PUBLIC	8,568	AS	1A
0901ZZ	6	2	40510		ENTRANCE KIOSK PARKING	FROM ROUTE 0010 (PARK ENTRANCE ROAD) TO ROUTE 0010 (PARK ENTRANCE ROAD)		YES	PUBLIC	4,379	AS	1A
0902	6	2	30667		TELEGRAPH ROAD PICNIC AREA PARKING	FROM END OF ROUTE 0015 (TELEGRAPH ROAD) TO PARKING		YES	PUBLIC	32,877	AS	1A
0903	6	2	30665		PINE GROVE PICNIC GROUND PARKING	FROM ROUTE 0010 (PARK ENTRANCE ROAD) TO PARKING		YES	PUBLIC	46,967	AS	1A
0904	6	2	30956		ADMINISTRATIVE DRIVE PARKING	FROM ROUTE 0418 (ADMINISTRATIVE DRIVE) TO PARKING		YES	PUBLIC	3,993	AS	1B
0905	6	2	30950		MAINTENANCE AREA EMPLOYEE PARKING	FROM ROUTE 0400 (PARK HEADQUARTERS ROAD) TO PARKING		NO	NONPUBLIC	12,104	AS	1B
0906	6	2	40507		MAINTENANCE AREA PARKING	FROM END OF ROUTE 0400 (PARK HEADQUARTERS ROAD) TO PARKING		NO	NONPUBLIC	45,521	AS	1B

Cycle 6 NPS / RIP Route ID Report

(Numerical By Summary Route and Subcomponent #)



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White = Paved Routes, DCV Driven

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PRWI Prince William Forest Park

PARKING AREA INVENTORY (1300 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Description		Maintenance District	FLTP	Access Level	Area (SQ FT)	Surf. Type	Area Map	
					From	To							
0907	6	2	30984		TURKEY RUN EDUCATIONAL CENTER (TREC) PARKING	FROM END OF ROUTE 0012 (TURKEY RUN ACCESS ROAD)	TO PARKING		YES	PUBLIC	17,334	AS	1C
0908	6	2	30909		SCENIC DRIVE PARKING A	ADJACENT TO ROUTE 0011 (SCENIC DRIVE) AT MP 1.59			YES	PUBLIC	2,593	AS	1
0909	6	2	30914		SCENIC DRIVE PARKING B	ADJACENT TO ROUTE 0011 (SCENIC DRIVE) AT MP 1.65			YES	PUBLIC	4,715	AS	1
0910	6	2	30916		SCENIC DRIVE PARKING C	ADJACENT TO ROUTE 0011 (SCENIC DRIVE) AT MP 1.94			YES	PUBLIC	3,701	AS	1
0911	6	2	30919		SCENIC DRIVE PARKING D	FROM ROUTE 0011 (SCENIC DRIVE) AT MP 2.40	TO ROUTE 0011 (SCENIC DRIVE) AT MP 2.45		YES	PUBLIC	11,330	AS	1
0912	6	2	30930		SCENIC DRIVE PARKING E	FROM ROUTE 0011 (SCENIC DRIVE) AT MP 3.06	TO ROUTE 0011 (SCENIC DRIVE) AT MP 3.08		YES	PUBLIC	4,175	AS	1
0913	6	2	30933		SCENIC DRIVE PARKING F	FROM ROUTE 0011 (SCENIC DRIVE) AT MP 4.65	TO ROUTE 0011 (SCENIC DRIVE) AT MP 4.67		YES	PUBLIC	4,215	AS	1
0914	6	2	30936		SCENIC DRIVE PARKING G	FROM ROUTE 0011 (SCENIC DRIVE) AT MP 6.43	TO PARKING		YES	PUBLIC	8,065	AS	1
0915	6	2	30939		SCENIC DRIVE PARKING H	FROM ROUTE 0011 (SCENIC DRIVE) AT MP 7.43	TO ROUTE 0011 (SCENIC DRIVE) AT MP 7.45		YES	PUBLIC	4,367	AS	1
0916	6	2	30942		SCENIC DRIVE PARKING I	FROM ROUTE 0011 (SCENIC DRIVE) AT MP 8.45	TO PARKING		YES	PUBLIC	4,331	AS	1
0917ZZ	6	2	30976		OAK RIDGE CAMPGROUND PARKING	ADJACENT TO ROUTE 0013 (OAK RIDGE ROAD)			YES	PUBLIC	3,906	AS	1
0918	NC		30973		CAMP 1 PARKING	ADJACENT TO ROUTE 0103 (CABIN CAMP 1 ROADS)			NO	PUBLIC	5,000	GR	
0919	NC		30964		CAMP 2 PARKING	ADJACENT TO ROUTE 0205 (CAMP 2 ACCESS ROAD)			NO	PUBLIC	3,000	GR	
0920	NC		35397		CAMP 3 PARKING	ADJACENT TO ROUTE 0204 (CAMP 3 ACCESS ROAD)			NO	PUBLIC	2,500	GR	

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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						
0921	NC		30974		CAMP 4 PARKING	ADJACENT TO ROUTE 0404 (CAMP 4 ACCESS ROAD)		NO	PUBLIC	1,944	GR	
0923	NC		30985		CHOPAWAMSIK PARKING	ADJACENT TO ROUTE 0415 (BOBCAT RIDGE ROAD)		NO	PUBLIC	1,000	GR	
0924	NC		30977		OAK RIDGE B LOOP PARKING	ADJACENT TO ROUTE 0501ZZ (OAK RIDGE CAMPGROUND LOOPS)		NO	PUBLIC	200	GR	
0925	NC		30981		OAK RIDGE C LOOP PARKING	ADJACENT TO ROUTE 0501ZZ (OAK RIDGE CAMPGROUND LOOPS)		NO	PUBLIC	400	GR	
0926	6	2	112683		CARTER'S POND PARKING	FROM ROUTE 0011 (SCENIC DRIVE) AT MP 1.29		YES	PUBLIC	7,493	AS	1B
0927	NC		15846		CAMP 5 PARKING	ADJACENT TO ROUTE 0206 (CAMP 5 ACCESS ROAD)		NO	PUBLIC	13,516	GR	
0928ZZ	6	2	30982		TURKEY RUN CAMPGROUND AND LOOP PARKING AREAS	ADJACENT TO ROUTE 0500 (TURKEY RUN CAMPGROUND LOOP)		YES	PUBLIC	10,694	AS	1C
0930	NC		111777		CHOPAWAMSIK BACKCOUNTRY ENTRANCE AND PARKING	FROM VIRGINIA STATE HIGHWAY 619		NO	PUBLIC	9,300	GR	
0932	NC				CARTER'S POND PARKING A	FROM CARTER'S POND PARKING		NO	PUBLIC	632	GR	

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

Black = Non-NPS Routes

■ = Concession Route

Yellow = Unpaved Routes, DCV not Driven

Blue = Paved Parking Areas

Green = Unpaved Parking Areas

Red text denotes:

*Unpaved route data (mileages and square footage) were collected by the Road Inventory Program (RIP) only when the Cycle Collected is "6", otherwise the unpaved information was provided by NPS.

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

Cycle 6 Summary Totals for Prince William Forest Park

Cycle 6 Route Totals			
	NPS Maintained	Concessionaire Maintained	Park Totals
Paved Roads, Data Collection Vehicle Rated (Miles)	13.32	1.15	14.47
Paved Roads, Manually Rated Length (Miles)	0.06	0	0.06
Paved Roads, Manually Rated Area (Sq. Ft.)	0	0	0
Unpaved Roads (Miles)	21.50	0	21.50
Paved Parking (Sq. Ft.)	241,328	0	241,328
Unpaved Parking (Sq. Ft.)	37,692	0	37,692

Cycle 6 Lane Miles and Overall Pavement Condition		
	Lanes Miles*	Pavement Condition Rating**
Data Collection Vehicle Routes	20.51	87
Manually Rated Roads	0.05	53
Parking Areas	4.16	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

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

Black = Non-NPS Routes

■ = Concession Route

Yellow = Unpaved Routes, DCV not Driven

Blue = Paved Parking Areas

Green = Unpaved Parking Areas

Red text denotes:

*Unpaved route data (mileages and square footage) were collected by the Road Inventory Program (RIP) only when the Cycle Collected is "6", otherwise the unpaved information was provided by NPS.

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

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 PRWI

(Numerical By Summary Route and Subcomponent #)



Shading Color Key

White = Paved Routes, DCV Driven

Grey = Paved Routes, DCV not Driven

Black = Paved Routes, Non-NPS

■ = Concession Route

Yellow = Unpaved Routes, DCV not Driven

Blue = Paved Parking Areas

Green = Unpaved Parking Areas

Red text denotes:

*Unpaved route data (mileages and square footage) were collected by the Road Inventory Program (RIP) only when the Cycle Collected is "6", otherwise the unpaved information was provided by NPS.

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

PRWI Prince William Forest Park

SUMMARY ROUTE INVENTORY FOR ROADS (1100 SERIES FMSS LOCATIONS)

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
						From	To						
0501ZZ	30261	6	2		OAK RIDGE CAMPGROUND LOOPS	FROM END OF ROUTE 0013 (OAK RIDGE ROAD)	THROUGH CAMPGROUND	YES	1.05	0.00	1.05	3	
0502ZZ	30367	6	2	■	TRAVEL TRAILER VILLAGE LOOP ROADS	FROM ROUTE 5000 (VIRGINIA STATE HIGHWAY 234)	THROUGH LOOPS	YES	1.15	0.00	1.15	3	

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			
0901ZZ	40510	6	2		ENTRANCE KIOSK PARKING	FROM ROUTE 0010 (PARK ENTRANCE ROAD)	TO ROUTE 0010 (PARK ENTRANCE ROAD)	YES	PUBLIC	4,379
0917ZZ	30976	6	2		OAK RIDGE CAMPGROUND PARKING	ADJACENT TO ROUTE 0013 (OAK RIDGE ROAD)		YES	PUBLIC	3,906
0928ZZ	30982	6	2		TURKEY RUN CAMPGROUND AND LOOP PARKING AREAS	ADJACENT TO ROUTE 0500 (TURKEY RUN CAMPGROUND LOOP)		YES	PUBLIC	10,694

NPS / RIP Subcomponent Details for PRWI

(Numerical By Summary Route and Subcomponent #)



Shading Color Key

White = Paved Routes, DCV Driven

Grey = Paved Routes, DCV not Driven

Black = Paved Routes, Non-NPS

■ = Concession Route

Yellow = Unpaved Routes, DCV not Driven

Blue = Paved Parking Areas

Green = Unpaved Parking Areas

Red text denotes:

*Unpaved route data (mileages and square footage) were collected by the Road Inventory Program (RIP) only when the Cycle Collected is "6", otherwise the unpaved information was provided by NPS.

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

PRWI Prince William Forest Park

PRWI-0501ZZ 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						
0501AZ	30261	6	2		OAK RIDGE CAMPGROUND LOOP A	FROM END OF ROUTE 0013 (OAK RIDGE ROAD)	TO END OF LOOP	YES	0.41	0.00	0.41	3	
0501BZ	30261	6	2		OAK RIDGE CAMPGROUND LOOP B	FROM ROUTE 0501AZ (OAK RIDGE CAMPGROUND LOOP A)	TO ROUTE 0501AZ (OAK RIDGE CAMPGROUND LOOP A)	YES	0.27	0.00	0.27	3	
0501CZ	30261	6	2		OAK RIDGE CAMPGROUND LOOP C	FROM ROUTE 0501BZ (OAK RIDGE CAMPGROUND LOOP B)	TO ROUTE 0501BZ (OAK RIDGE CAMPGROUND LOOP B)	YES	0.37	0.00	0.37	3	

PRWI-0502ZZ 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						
0502AZ	30367	6	2	■	TRAVEL TRAILER VILLAGE LOOP ROAD A	FROM ROUTE 5000 (VIRGINIA STATE HIGHWAY 234)	TO ROUTE 5000 (VIRGINIA STATE HIGHWAY 234)	YES	0.55	0.00	0.55	3	
0502BZ	30367	6	2	■	TRAVEL TRAILER VILLAGE LOOP ROAD B	FROM ROUTE 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A)	TO ROUTE 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A)	YES	0.14	0.00	0.14	3	
0502CZ	30367	6	2	■	TRAVEL TRAILER VILLAGE LOOP ROAD C	FROM ROUTE 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A)	TO ROUTE 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A)	YES	0.15	0.00	0.15	3	
0502DZ	30367	6	2	■	TRAVEL TRAILER VILLAGE LOOP ROAD D	FROM ROUTE 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A)	TO ROUTE 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A)	YES	0.16	0.00	0.16	3	
0502EZ	30367	6	2	■	TRAVEL TRAILER VILLAGE LOOP ROAD E	FROM ROUTE 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A)	TO ROUTE 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A)	YES	0.16	0.00	0.16	3	

NPS / RIP Subcomponent Details for PRWI

(Numerical By Summary Route and Subcomponent #)



Shading Color Key

White = Paved Routes, DCV Driven

Grey = Paved Routes, DCV not Driven

Black = Paved Routes, Non-NPS

■ = Concession Route

Yellow = Unpaved Routes, DCV not Driven

Blue = Paved Parking Areas

Green = Unpaved Parking Areas

Red text denotes:

*Unpaved route data (mileages and square footage) were collected by the Road Inventory Program (RIP) only when the Cycle Collected is "6", otherwise the unpaved information was provided by NPS.

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

PRWI Prince William Forest Park

PRWI-0901ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	User Access	Area (SQ FT)
						From	To			
0901AZ	40510	6	2		ENTRANCE KIOSK PARKING A	FROM ROUTE 0010 (PARK ENTRANCE ROAD)	TO ROUTE 0010 (PARK ENTRANCE ROAD)	YES	PUBLIC	2,084
0901BZ	40510	6	2		ENTRANCE KIOSK PARKING B	FROM ROUTE 0010 (PARK ENTRANCE ROAD)	TO ROUTE 0010 (PARK ENTRANCE ROAD)	YES	PUBLIC	2,295

PRWI-0917ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	User Access	Area (SQ FT)
						From	To			
0917AZ	30976	6	2		OAK RIDGE CAMPGROUND PARKING A	ADJACENT TO ROUTE 0013 (OAK RIDGE ROAD)		YES	PUBLIC	2,868
0917BZ	30976	6	2		OAK RIDGE CAMPGROUND PARKING B	ADJACENT TO ROUTE 0013 (OAK RIDGE ROAD)		YES	PUBLIC	1,038

NPS / RIP Subcomponent Details for PRWI

(Numerical By Summary Route and Subcomponent #)



Shading Color Key

White = Paved Routes, DCV Driven

Grey = Paved Routes, DCV not Driven

Black = Paved Routes, Non-NPS

■ = Concession Route

Yellow = Unpaved Routes, DCV not Driven

Blue = Paved Parking Areas

Green = Unpaved Parking Areas

Red text denotes:

*Unpaved route data (mileages and square footage) were collected by the Road Inventory Program (RIP) only when the Cycle Collected is "6", otherwise the unpaved information was provided by NPS.

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

PRWI Prince William Forest Park

PRWI-0928ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description		FLTP	User Access	Area (SQ FT)
						From	To			
0928AZ	30982	6	2		TURKEY RUN CAMPGROUND AND LOOP PARKING A	ADJACENT TO ROUTE 0500 (TURKEY RUN CAMPGROUND LOOP) AT MP 0.03 ON RIGHT		YES	PUBLIC	1,433
0928BZ	30982	6	2		TURKEY RUN CAMPGROUND AND LOOP PARKING B	ADJACENT TO ROUTE 0500 (TURKEY RUN CAMPGROUND LOOP) AT MP 0.03 LEFT		YES	PUBLIC	1,466
0928CZ	30982	6	2		TURKEY RUN CAMPGROUND AND LOOP PARKING C	ADJACENT TO ROUTE 0500 (TURKEY RUN CAMPGROUND LOOP) AT MP 0.08 ON RIGHT		YES	PUBLIC	2,329
0928DZ	30982	6	2		TURKEY RUN CAMPGROUND AND LOOP PARKING D	ADJACENT TO ROUTE 0500 (TURKEY RUN CAMPGROUND LOOP) AT MP 0.13 ON LEFT		YES	PUBLIC	1,186
0928EZ	30982	6	2		TURKEY RUN CAMPGROUND AND LOOP PARKING E	ADJACENT TO ROUTE 0500 (TURKEY RUN CAMPGROUND LOOP) AT MP 0.11 ON RIGHT		YES	PUBLIC	1,238
0928FZ	30982	6	2		TURKEY RUN CAMPGROUND AND LOOP PARKING F	ADJACENT TO ROUTE 0500 (TURKEY RUN CAMPGROUND LOOP) AT MP 0.05 ON LEFT		YES	PUBLIC	1,178
0928GZ	30982	6	2		TURKEY RUN CAMPGROUND AND LOOP PARKING G	ADJACENT TO ROUTE 0500 (TURKEY RUN CAMPGROUND LOOP) AT MP 0.09 ON LEFT		YES	PUBLIC	1,034
0928HZ	30982	6	2		TURKEY RUN CAMPGROUND AND LOOP PARKING H	ADJACENT TO ROUTE 0500 (TURKEY RUN CAMPGROUND LOOP) AT MP 0.13 ON RIGHT		YES	PUBLIC	830

Route Identification Changes to Paved Routes from Previous Cycle Prince William Forest Park

ROUTES MODIFIED FROM PREVIOUS INVENTORY:			
Route No.	Route Name	Type of Change	Comments
0012	TURKEY RUN ACCESS ROAD	FUNCTIONAL CLASS CHANGE	FUNCTIONAL CLASS UPDATED FROM 2 TO 1.
0013	OAK RIDGE ROAD	FUNCTIONAL CLASS CHANGE	FUNCTIONAL CLASS UPDATED FROM 2 TO 1.
0201	CARTER DAY CAMP ROAD	FUNCTIONAL CLASS CHANGE	FUNCTIONAL CLASS UPDATED FROM 6 TO 3.
0418	ADMINISTRATIVE DRIVE	FUNCTIONAL CLASS CHANGE	FUNCTIONAL CLASS UPDATED FROM 5 TO 3.
0503	VISITOR CENTER HOST ROAD	FUNCTIONAL CLASS CHANGE	FUNCTIONAL CLASS UPDATED FROM 5 TO 2.
0900	VISITOR CENTER PARKING	SQ FEET CHANGE	IMPROVED GPS AND SQUARE FOOTAGE COLLECTED IN CYCLE 6.
0903	PINE GROVE PICNIC GROUND PARKING	SQ FEET CHANGE	IMPROVED GPS AND SQUARE FOOTAGE COLLECTED IN CYCLE 6.
0904	ADMINISTRATIVE DRIVE PARKING	SQ FEET CHANGE	IMPROVED GPS AND SQUARE FOOTAGE COLLECTED IN CYCLE 6.
0907	TURKEY RUN EDUCATIONAL CENTER (TREC) PARKING	SQ FEET CHANGE	IMPROVED GPS AND SQUARE FOOTAGE COLLECTED IN CYCLE 6.
0913	SCENIC DRIVE PARKING F	SQ FEET CHANGE	IMPROVED GPS AND SQUARE FOOTAGE COLLECTED IN CYCLE 6.
0916	SCENIC DRIVE PARKING I	SQ FEET CHANGE	IMPROVED GPS AND SQUARE FOOTAGE COLLECTED IN CYCLE 6.

Section 3 Park Summary Information



Prince William Forest Park



Federal Lands Highway
Road Inventory Program

Parkwide Paved Route Condition Summary

Prince William Forest Park

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

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

	POOR (PCR of 0 - 60)	FAIR (PCR of 61 - 84)	GOOD (PCR of 85 - 94)	EXCELLENT (PCR of 95 -100)	
PAVED ROADS					
Functional Class	Length (miles)	Length (miles)	Length (miles)	Length (miles)	Total Mileage by FC
1	0.04	0.13	0.65	10.07	10.89
2	0.06		0.02	0.24	0.32
3	2.16	0.92	0.24		3.32
4					
5					
6					
7					
8					
Total Mileage by PCR	2.26	1.05	0.91	10.31	14.53
PAVED PARKING					
Access Level	Area (sq. ft.)	Area (sq. ft.)	Area (sq. ft.)	Area (sq. ft.)	Total Area
PUBLIC	20,748	2,329	160,626		183,703
NONPUBLIC	57,625				57,625
Total Area by PCR	78,373	2,329	160,626	0	241,328

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

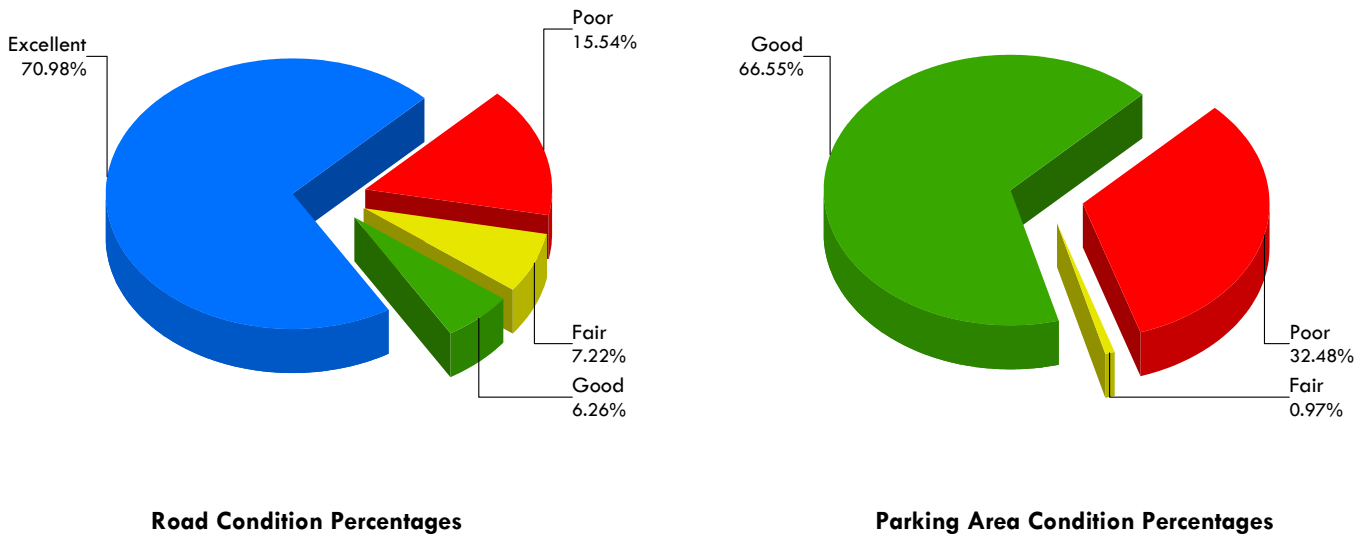
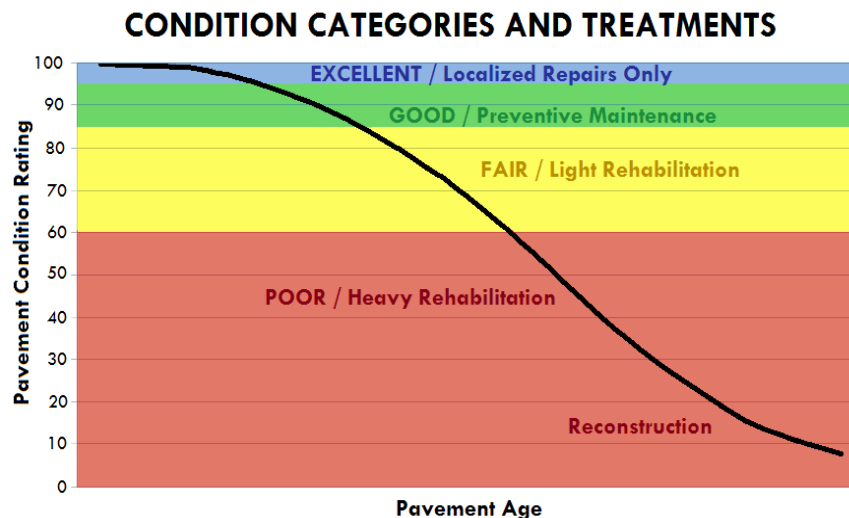


Figure 1: Pavement Condition Rating Breakdown for Paved Roads and Parking Areas

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.



Federal Lands Highway
Road Inventory Program

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

Prince William Forest Park

Condition (Rating / Index) Legend

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

Notes:

- This condition summary report contains only the roads 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
PRWI-0010	30663	PARK ENTRANCE ROAD	1	AS	0.66	99	100	99	100	100	100	99	100	99
PRWI-0011	40581	SCENIC DRIVE	1	AS	9.23	99	100	99	100	100	100	99	100	100
PRWI-0012	30659	TURKEY RUN ACCESS ROAD	1	AS	0.35	97	NR	97	100	100	100	100	100	97
PRWI-0013	30259	OAK RIDGE ROAD	1	AS	0.65	99	100	99	100	100	100	99	100	100
PRWI-0015	40582	TELEGRAPH ROAD	2	AS	0.26	100	NR	100	100	100	100	100	100	100
PRWI-0201	30386	CARTER DAY CAMP ROAD	3	AS	0.31	49	NR	49	51	73	78	49	99	97
PRWI-0400	30383	PARK HEADQUARTERS ROAD	3	AS	0.50	41	55	32	32	68	64	55	100	96
PRWI-0418	30378	ADMINISTRATIVE DRIVE	3	AS	0.16	38	NR	38	55	95	60	38	100	96
PRWI-0500	40592	TURKEY RUN CAMPGROUND LOOP	3	AS	0.15	56	NR	56	56	79	77	71	96	87
PRWI-0501AZ	30261	OAK RIDGE CAMPGROUND LOOP A	3	AS	0.41	72	NR	72	72	94	78	82	100	89
PRWI-0501BZ	30261	OAK RIDGE CAMPGROUND LOOP B	3	AS	0.27	40	NR	40	40	64	76	65	99	84
PRWI-0501CZ	30261	OAK RIDGE CAMPGROUND LOOP C	3	AS	0.37	78	NR	78	78	92	86	81	100	93
PRWI-0502AZ	30367	TRAVEL TRAILER VILLAGE LOOP ROAD A	3	AS	0.55	0	NR	0	0	0	85	69	96	86
PRWI-0502BZ	30367	TRAVEL TRAILER VILLAGE LOOP ROAD B	3	AS	0.14	43	NR	43	78	97	81	43	100	96
PRWI-0502CZ	30367	TRAVEL TRAILER VILLAGE LOOP ROAD C	3	AS	0.15	60	NR	60	96	99	97	60	100	98
PRWI-0502DZ	30367	TRAVEL TRAILER VILLAGE LOOP ROAD D	3	AS	0.16	53	NR	53	53	72	81	57	98	85
PRWI-0502EZ	30367	TRAVEL TRAILER VILLAGE LOOP ROAD E	3	AS	0.16	56	NR	56	62	80	82	56	100	91



Federal Lands Highway
Road Inventory Program

Cycle 6 - Road Inventory Program

Road Condition Summary Report for Manually Rated Roads

Prince William Forest Park

Condition (Rating / Index) Legend

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

Notes:

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

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

Route No.	FMSS No.	Route Name	Functional Class	Surf. Type	Paved Length (Miles)	Pavement Condition Rating (PCR)	Roughness Condition Index (RCI)	Surface Condition Rating (SCR)	Structural Crack Index	Alligator Crack Index	Longitudinal Cracking Index	Transverse Cracking Index	Patch / Pothole Index	Rutting Index
PRWI-0503	40604	VISITOR CENTER HOST ROAD	2	AS	0.06	53	NR	53	NR	53	73	90	97	90



Federal Lands Highway
Road Inventory Program

Cycle 6 - Road Inventory Program

Parking Area Condition Summary Report

Prince William Forest Park

Condition (Rating / Index) Legend

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

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

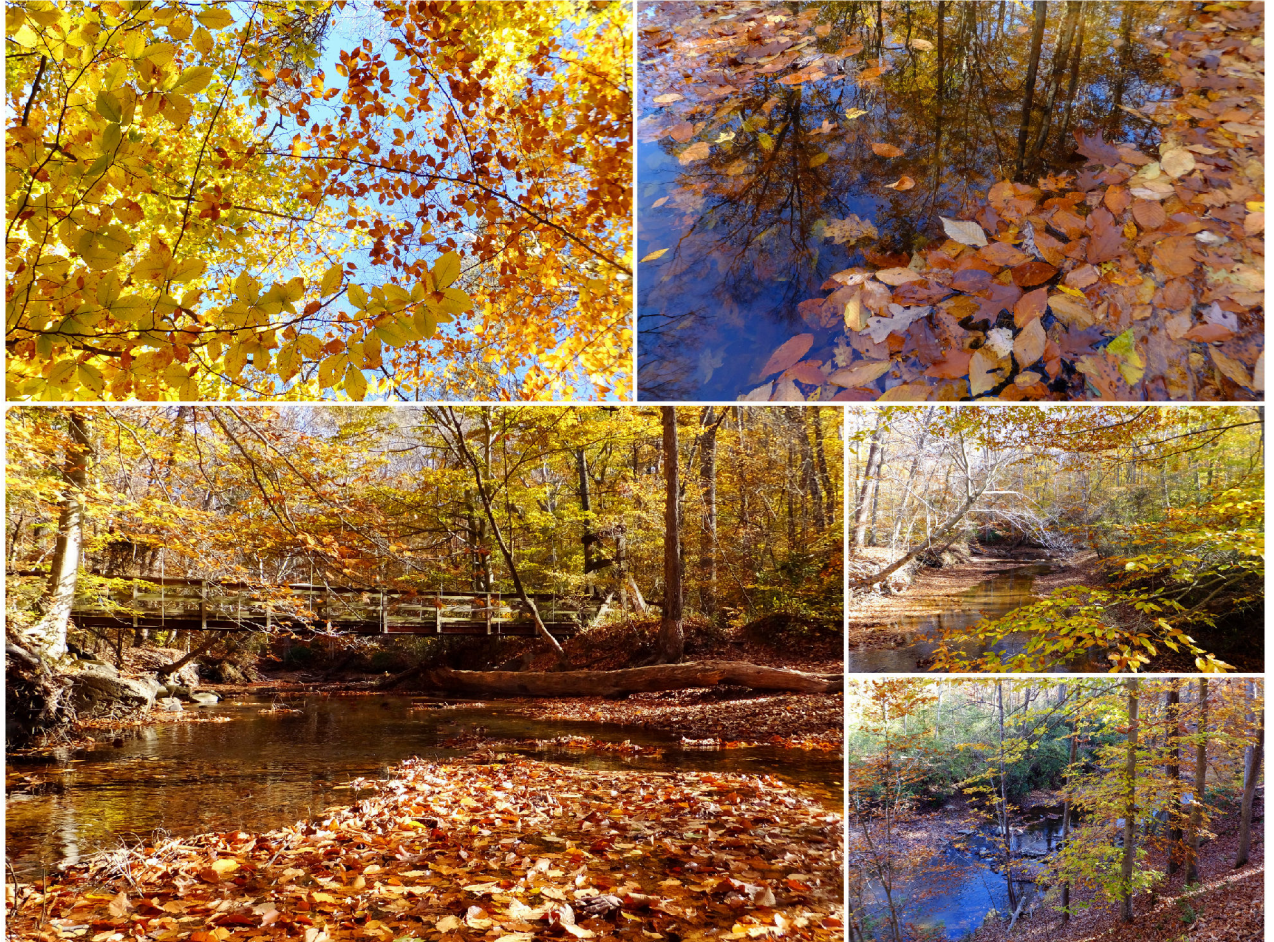
Asphalt Surface Distresses Concrete Surface Distresses

Condition Rating Details for Parking Areas

Route No.	FMSS No.	Route Name	User Access	Surf. Type	Area (Sq. Ft.)	Pavement Condition Rating (PCR)	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
PRWI-0900	30958	VISITOR CENTER PARKING	PUBLIC	AS	8,568	30	90	90	30	30	97	73					
PRWI-0901AZ	40510	ENTRANCE KIOSK PARKING A	PUBLIC	AS	2,084	90	97	97	97	97	97	90					
PRWI-0901BZ	40510	ENTRANCE KIOSK PARKING B	PUBLIC	AS	2,295	90	97	97	97	97	97	90					
PRWI-0902	30667	TELEGRAPH ROAD PICNIC AREA PARKING	PUBLIC	AS	32,877	90	97	90	97	97	97	90					
PRWI-0903	30665	PINE GROVE PICNIC GROUND PARKING	PUBLIC	AS	46,967	90	97	90	90	97	97	90					
PRWI-0904	30956	ADMINISTRATIVE DRIVE PARKING	PUBLIC	AS	3,993	90	97	90	90	97	97	90					
PRWI-0905	30950	MAINTENANCE AREA EMPLOYEE PARKING	NONPUBLIC	AS	12,104	53	53	90	53	90	97	90					
PRWI-0906	40507	MAINTENANCE AREA PARKING	NONPUBLIC	AS	45,521	30	30	53	30	30	97	73					
PRWI-0907	30984	TURKEY RUN EDUCATIONAL CENTER (TREC) PARKING	PUBLIC	AS	17,334	90	97	90	97	97	97	90					
PRWI-0908	30909	SCENIC DRIVE PARKING A	PUBLIC	AS	2,593	90	97	90	90	97	97	97					
PRWI-0909	30914	SCENIC DRIVE PARKING B	PUBLIC	AS	4,715	90	97	90	97	97	97	97					
PRWI-0910	30916	SCENIC DRIVE PARKING C	PUBLIC	AS	3,701	90	97	90	97	97	97	97					
PRWI-0911	30919	SCENIC DRIVE PARKING D	PUBLIC	AS	11,330	90	97	90	97	97	97	90					
PRWI-0912	30930	SCENIC DRIVE PARKING E	PUBLIC	AS	4,175	90	97	90	97	97	97	90					
PRWI-0913	30933	SCENIC DRIVE PARKING F	PUBLIC	AS	4,215	90	97	90	97	97	97	90					
PRWI-0914	30936	SCENIC DRIVE PARKING G	PUBLIC	AS	8,065	90	97	90	97	97	97	90					
PRWI-0915	30939	SCENIC DRIVE PARKING H	PUBLIC	AS	4,367	90	97	90	97	97	97	90					
PRWI-0916	30942	SCENIC DRIVE PARKING I	PUBLIC	AS	4,331	90	97	97	97	97	97	90					
PRWI-0917AZ	30976	OAK RIDGE CAMPGROUND PARKING A	PUBLIC	AS	2,868	90	97	97	97	97	97	90					
PRWI-0917BZ	30976	OAK RIDGE CAMPGROUND PARKING B	PUBLIC	AS	1,038	90	97	97	97	97	97	90					
PRWI-0926	112683	CARTER'S POND PARKING	PUBLIC	AS	7,493	53	53	90	90	97	97	90					
PRWI-0928AZ	30982	TURKEY RUN CAMPGROUND AND LOOP PARKING A	PUBLIC	AS	1,433	53	53	90	53	90	97	73					
PRWI-0928BZ	30982	TURKEY RUN CAMPGROUND AND LOOP PARKING B	PUBLIC	AS	1,466	90	90	90	90	97	97	90					
PRWI-0928CZ	30982	TURKEY RUN CAMPGROUND AND LOOP PARKING C	PUBLIC	AS	2,329	73	97	90	73	97	97	90					
PRWI-0928DZ	30982	TURKEY RUN CAMPGROUND AND LOOP PARKING D	PUBLIC	AS	1,186	53	53	90	90	90	97	73					
PRWI-0928EZ	30982	TURKEY RUN CAMPGROUND AND LOOP PARKING E	PUBLIC	AS	1,238	53	73	53	53	53	73	73					
PRWI-0928FZ	30982	TURKEY RUN CAMPGROUND AND LOOP PARKING F	PUBLIC	AS	1,178	90	90	90	90	90	97	90					
PRWI-0928GZ	30982	TURKEY RUN CAMPGROUND AND LOOP PARKING G	PUBLIC	AS	1,034	90	90	90	90	90	97	90					
PRWI-0928HZ	30982	TURKEY RUN CAMPGROUND AND LOOP PARKING H	PUBLIC	AS	830	53	53	90	53	53	97	73					

Data Collection Date: 05/2018

Section 4 Park Route Location Maps



Prince William Forest Park

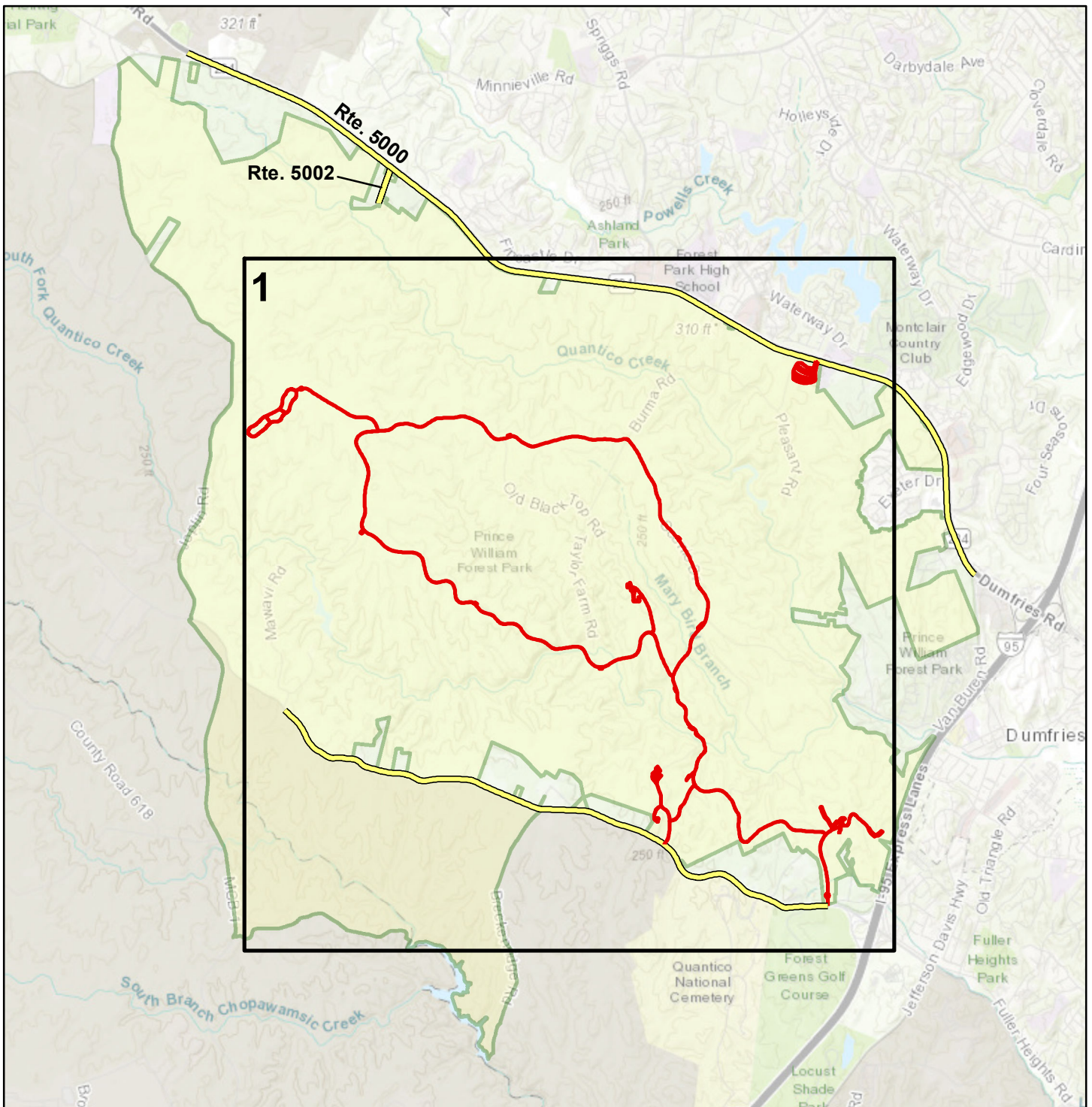


Federal Lands Highway
Road Inventory Program

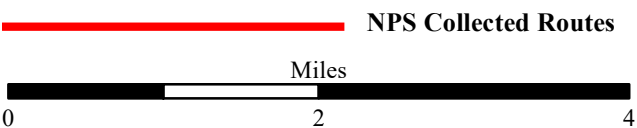
Prince William Forest Park

ROUTE LOCATION MAP

Key Map



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



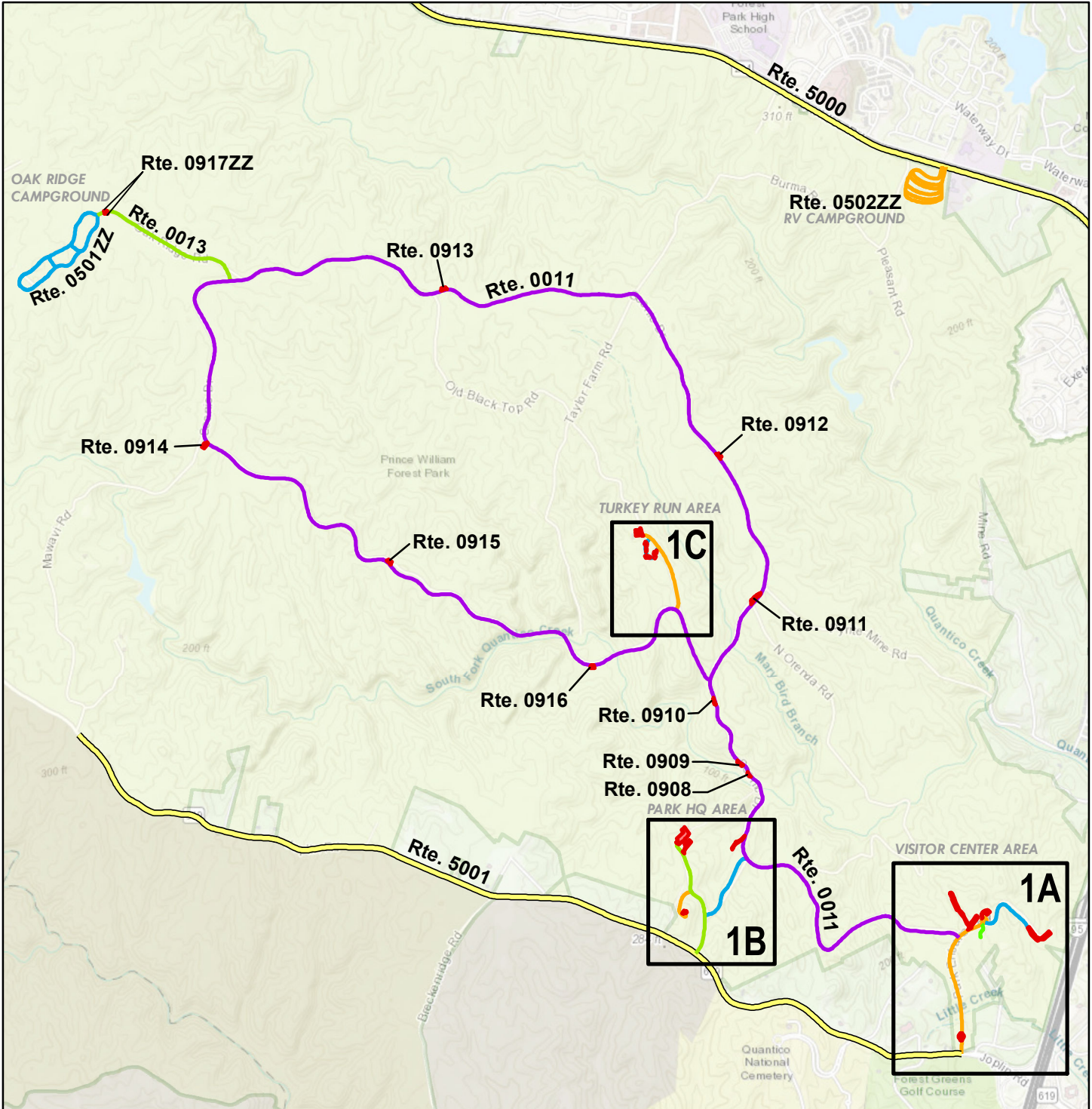
— NPS Collected Routes — Non-NPS Collected Routes



Prince William Forest Park

ROUTE LOCATION MAP

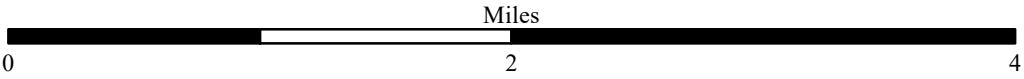
MAP 1



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

Note: Unique colors are used to differentiate roads

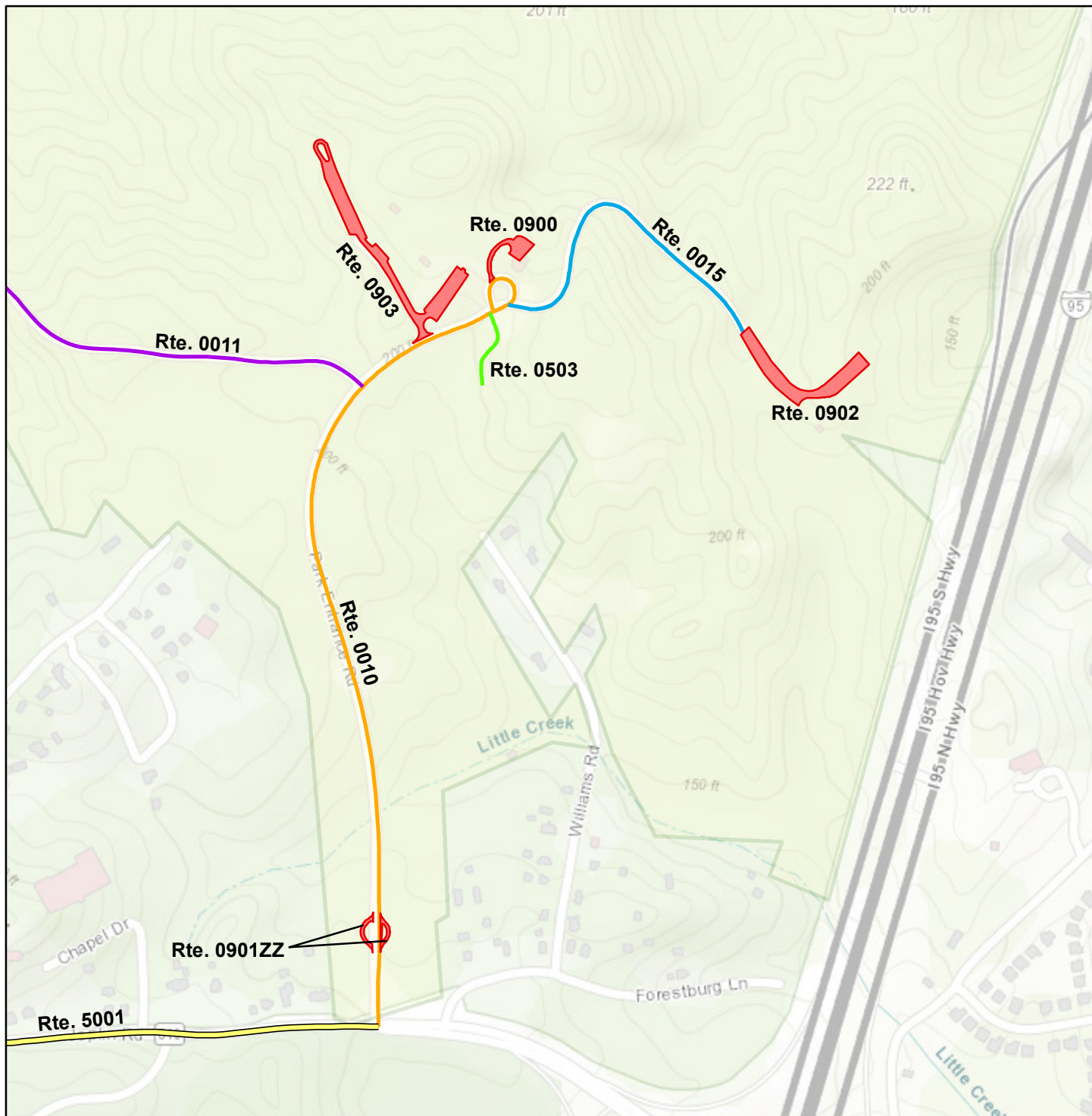
Non-NPS Collected Routes



Prince William Forest Park

ROUTE LOCATION MAP

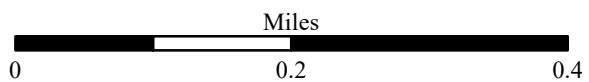
MAP 1A



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

Note: Unique colors are used to differentiate roads

 **Non-NPS Collected Routes**



Prince William Forest Park

ROUTE LOCATION MAP

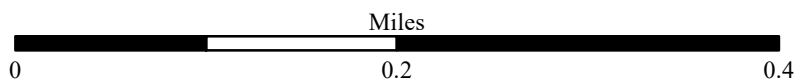
MAP 1B



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

Note: Unique colors are used to differentiate roads

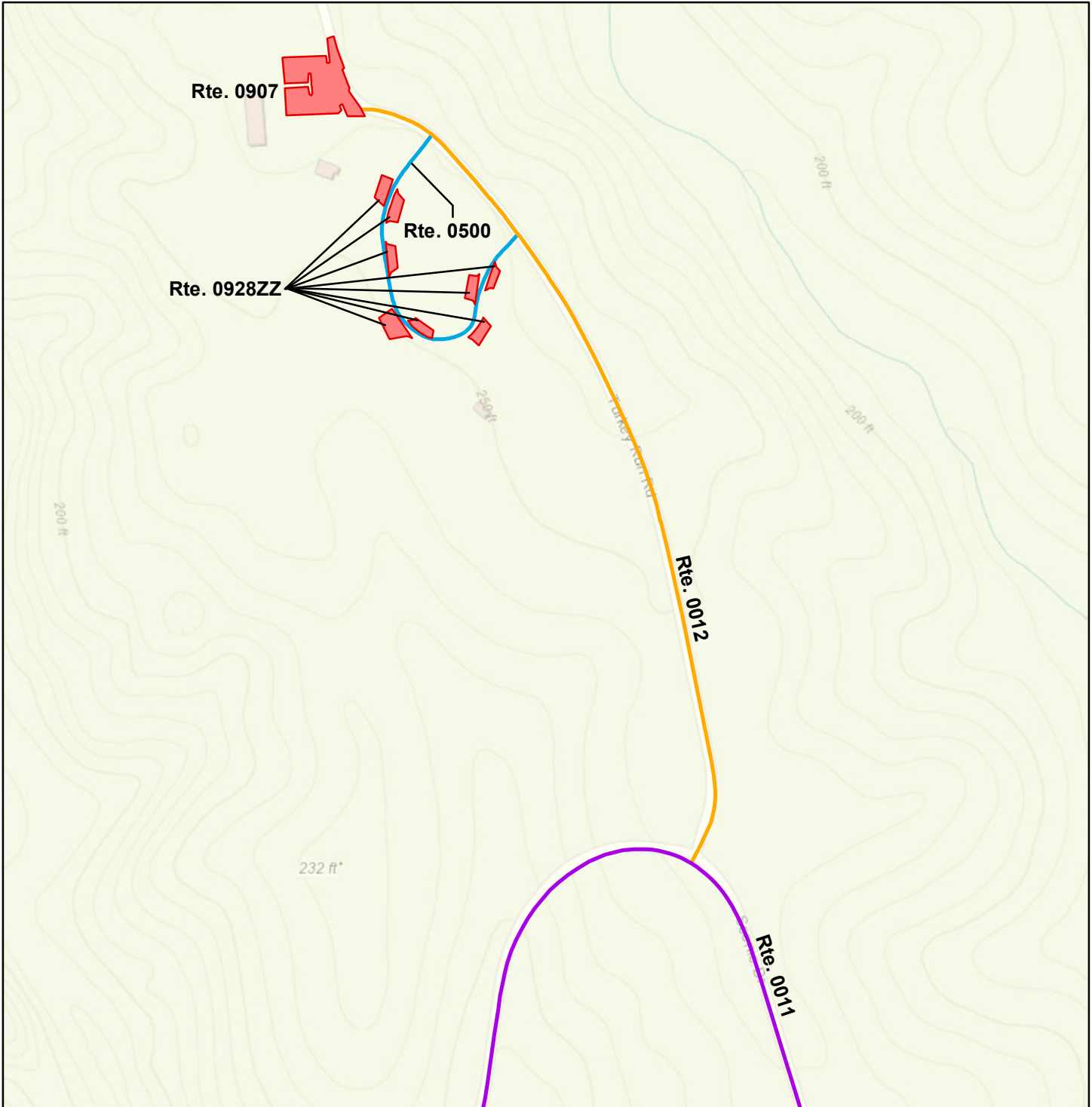
 **Non-NPS Collected Routes**



Prince William Forest Park

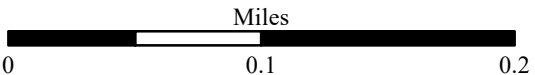
ROUTE LOCATION MAP

MAP 1C



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

Note: Unique colors are used to differentiate roads



Non-NPS Collected Routes

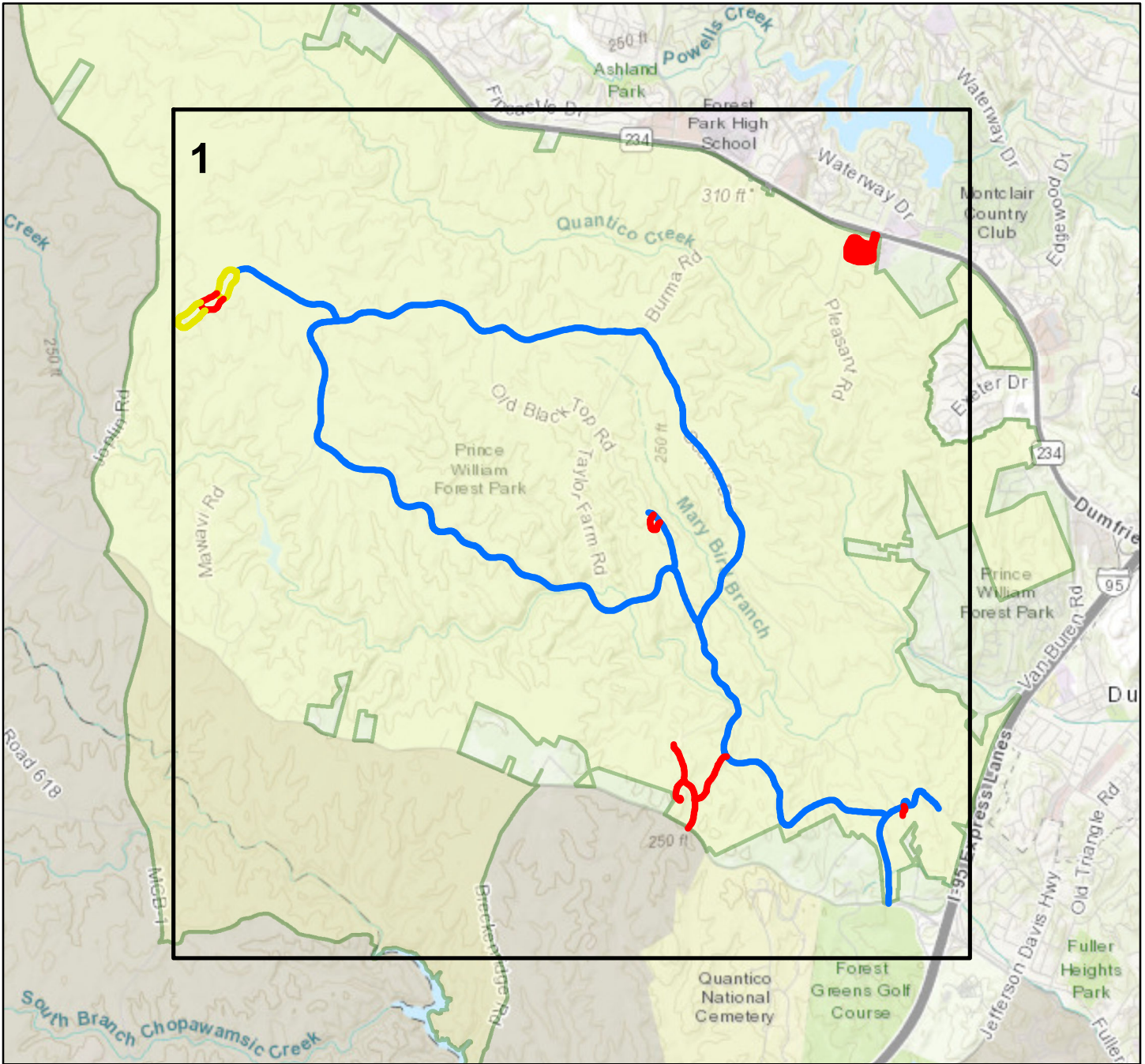


Prince William Forest Park

ROUTE CONDITION MAP

PCR - MILE BY MILE

Key Map

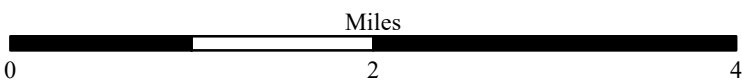


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

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 1-mile intervals. See Appendix for definitions and formulas
 Only Data Collection Vehicle and Manually Rated Roads are displayed

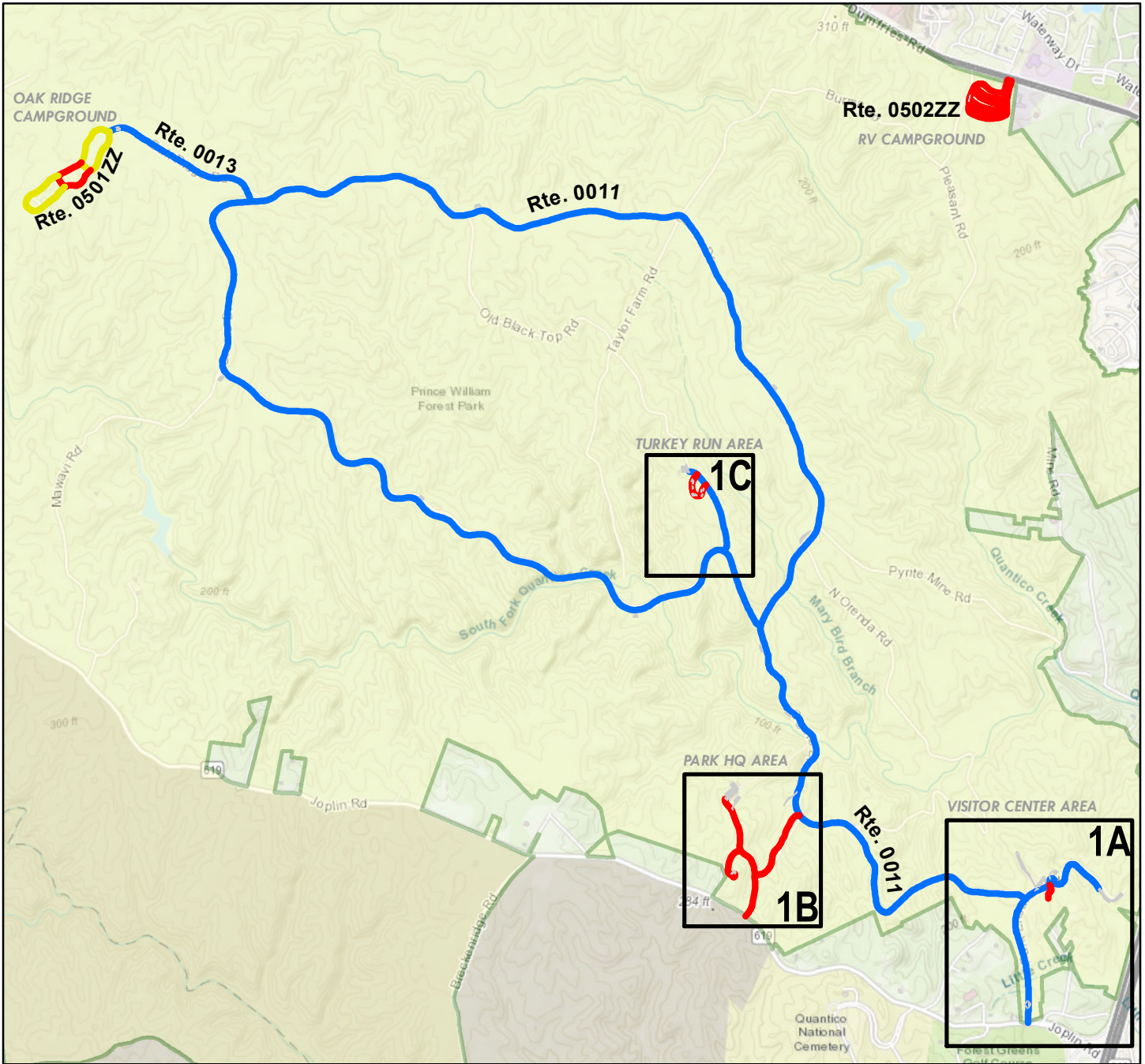


Prince William Forest Park

ROUTE CONDITION MAP

PCR - MILE BY MILE

Area Map 1

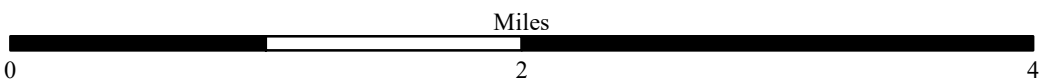


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

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 1-mile intervals. See Appendix for definitions and formulas
 Only Data Collection Vehicle and Manually Rated Roads are displayed



Prince William Forest Park

ROUTE CONDITION MAP

PCR - MILE BY MILE

Area Map 1A

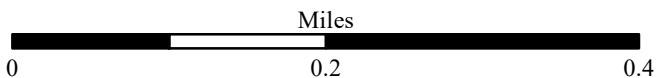


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

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 1-mile intervals. See Appendix for definitions and formulas
Only Data Collection Vehicle and Manually Rated Roads are displayed

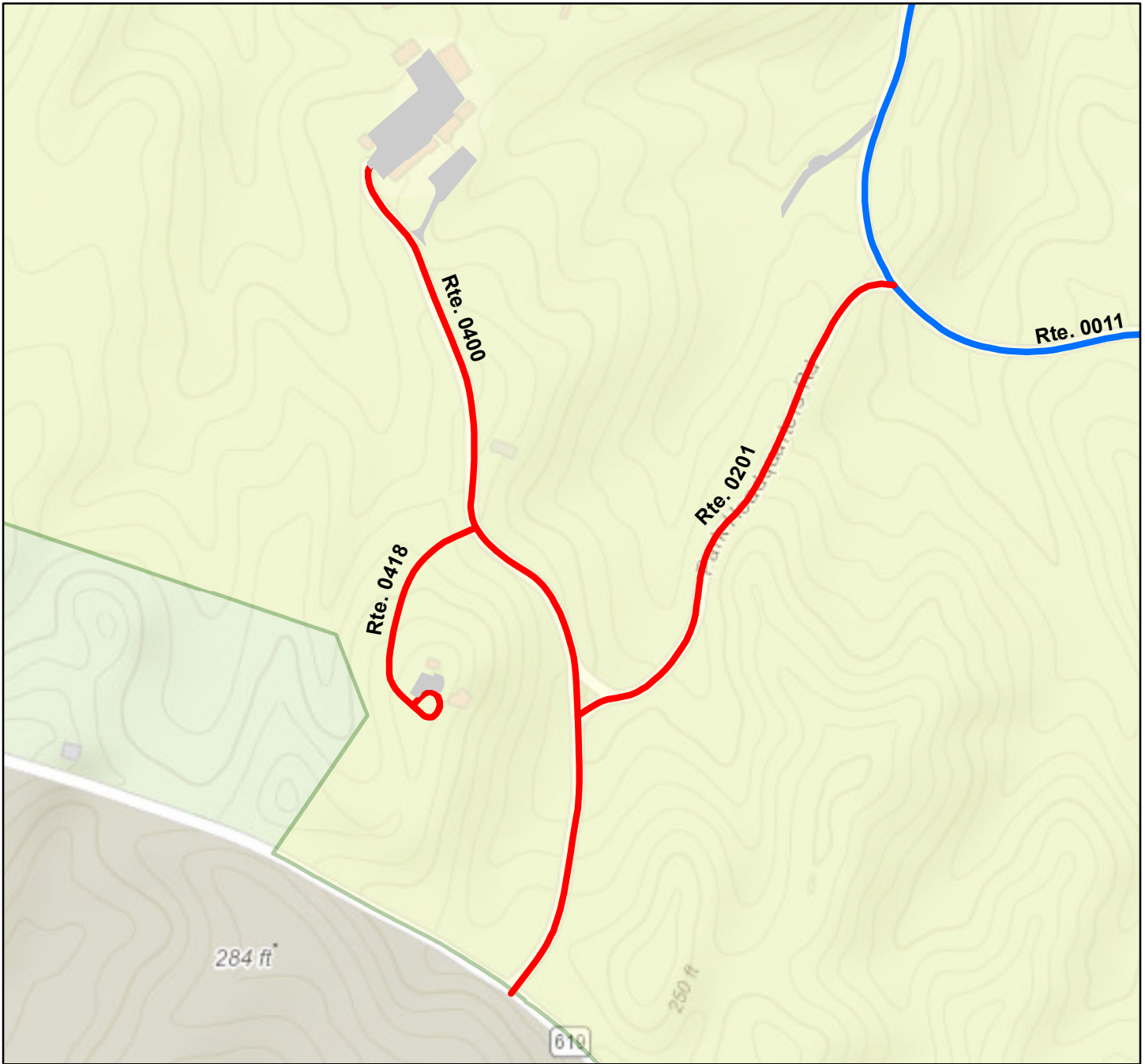


Prince William Forest Park

ROUTE CONDITION MAP

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

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

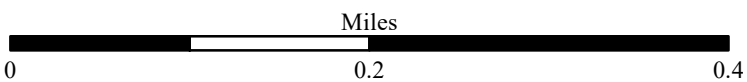
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

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

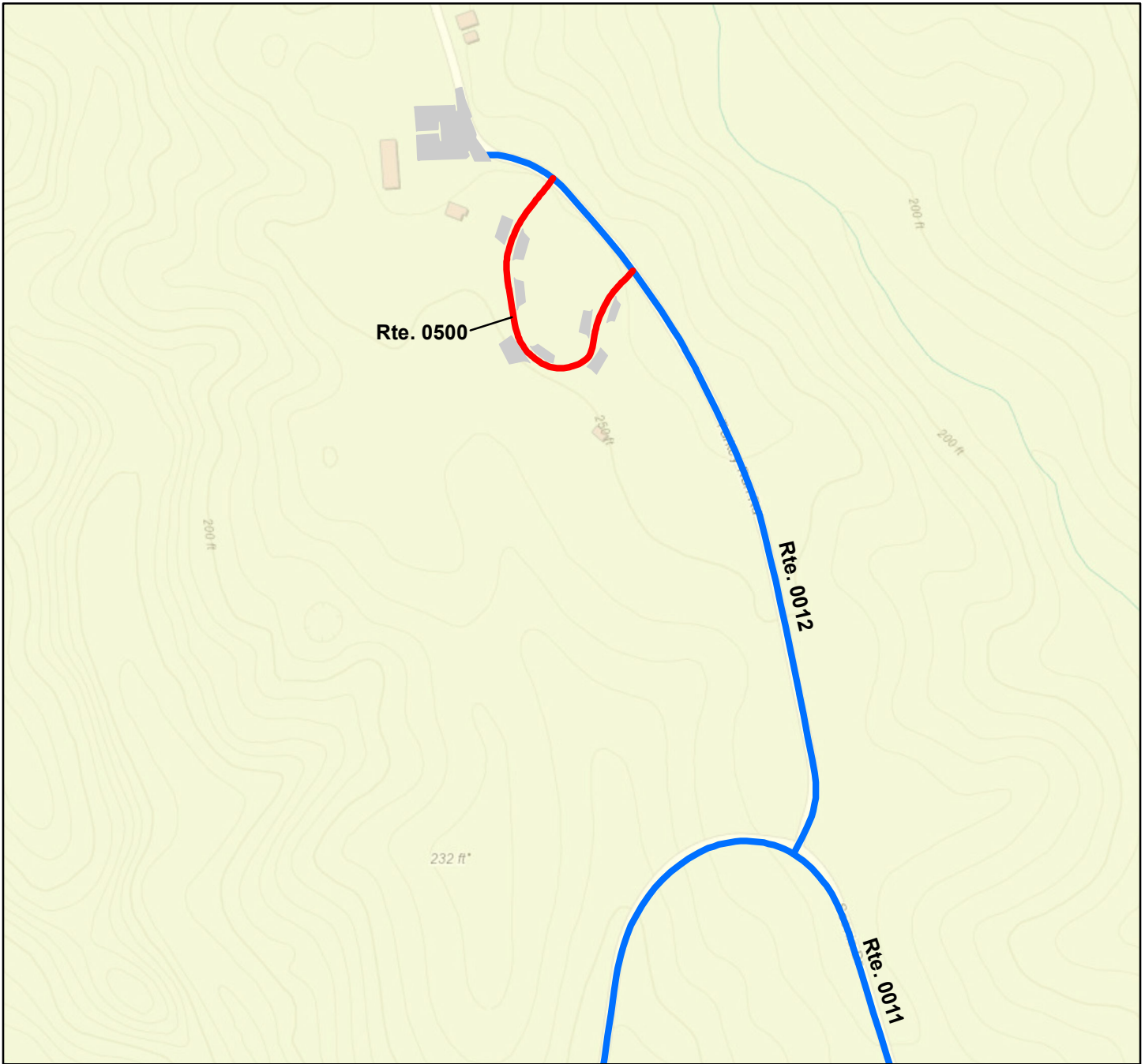


Prince William Forest Park

ROUTE CONDITION MAP

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

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

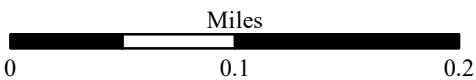
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

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



Section 5 Paved Road Condition Rating Sheets



Prince William Forest Park

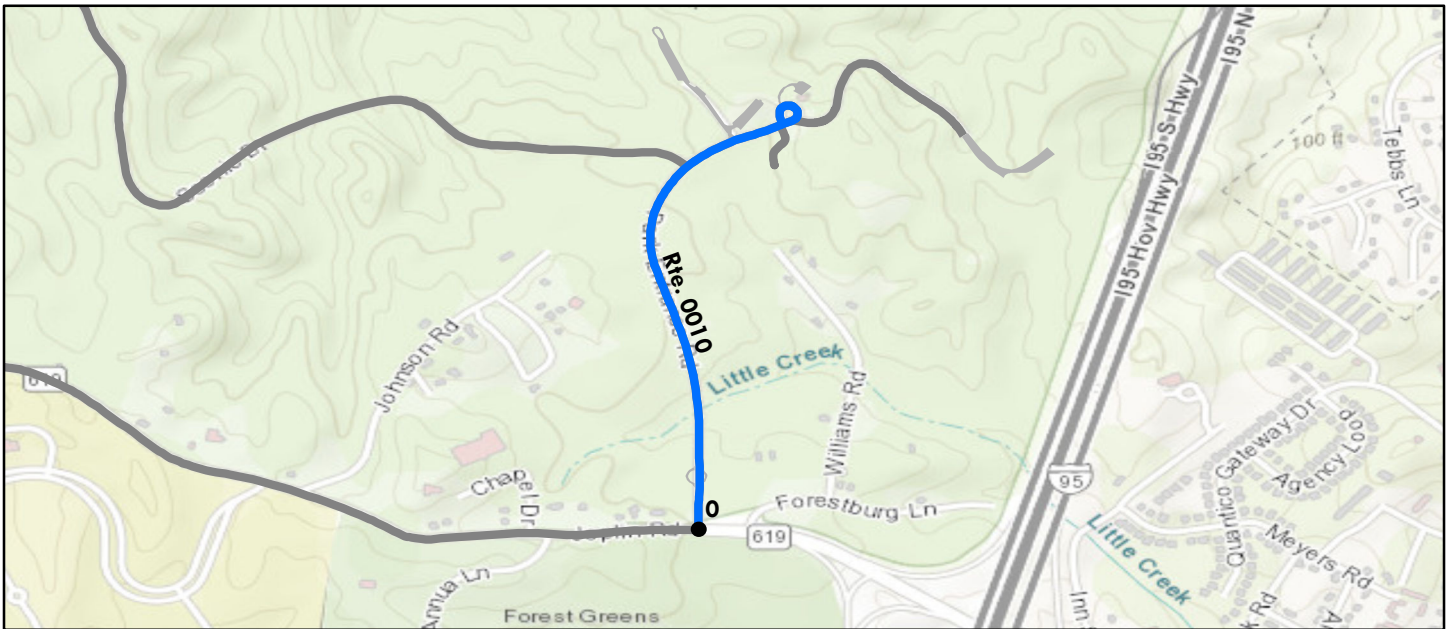


Federal Lands Highway
Road Inventory Program

Prince William Forest Park

ROUTE 0010: PARK ENTRANCE ROAD

Data Collection Vehicle (DCV) Rating



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

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)

Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

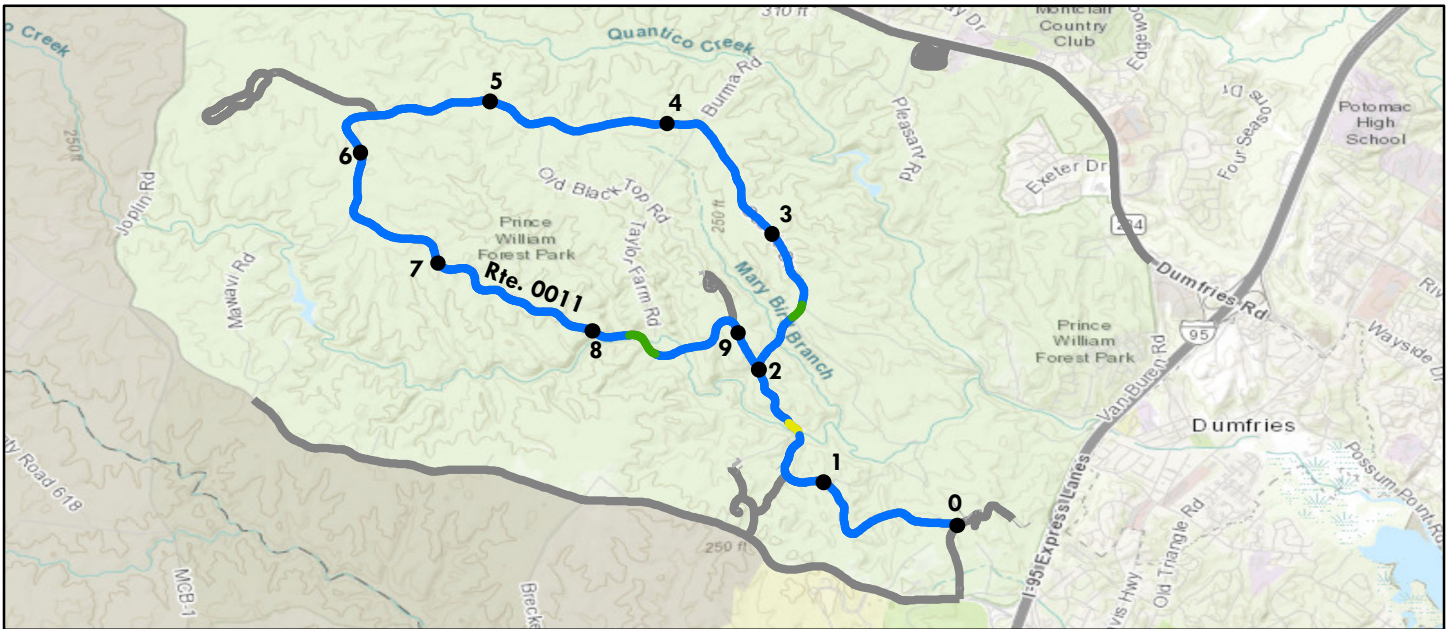
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/6/2018	Beginning Section MP	0				
Paved Length (Miles): 0.66	Section Length (MI)	0.66				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	99				
Surface Condition Rating (SCR)	99	99				
Roughness Condition Index (RCI)	100	100				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	99	99				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	78	78				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	21.6	21.6				
Lane Width (ft)	9.7	9.7				

Prince William Forest Park

ROUTE 0011: SCENIC DRIVE

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

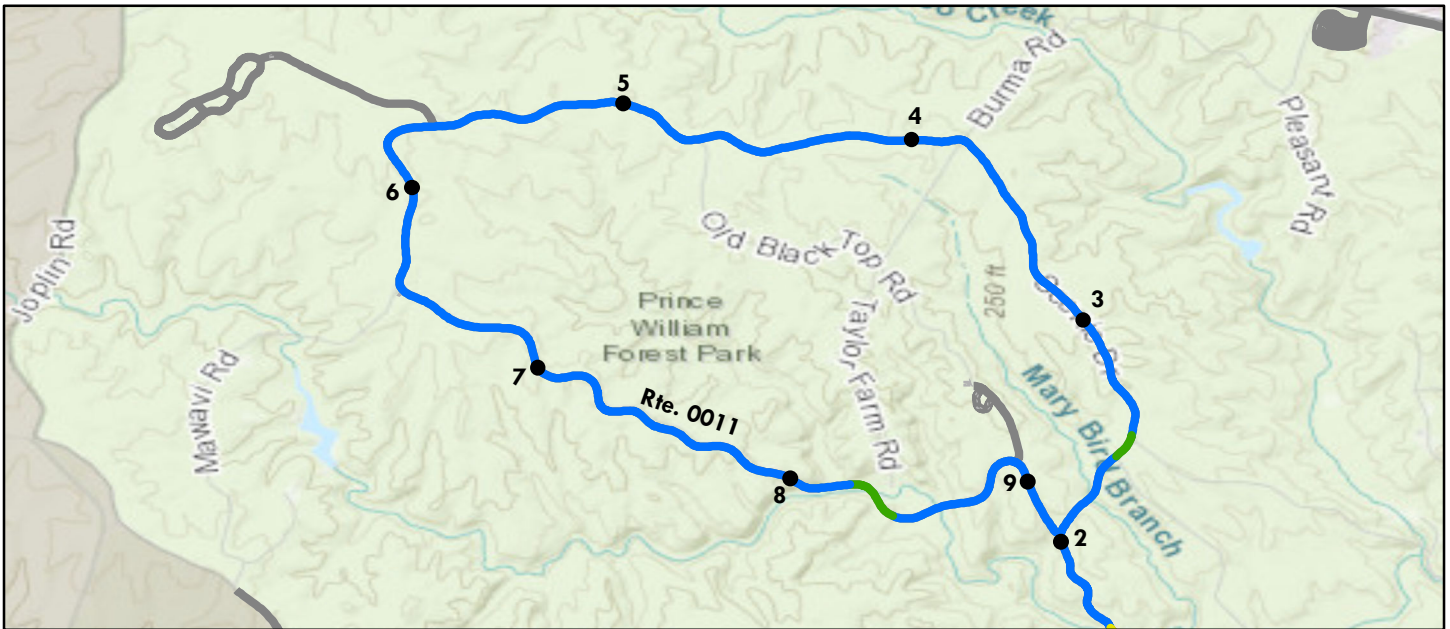
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date:	Beginning Section MP					
	0	1	2	3	4	
Paved Length (Miles): 9.23	Section Length (MI)					
Surface Type: ASPHALT	1	1	1	1	1	
Route Summary						
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	99	98	99	100	100
Surface Condition Rating (SCR)	99	99	97	99	100	100
Roughness Condition Index (RCI)	100	100	100	100	100	100
Distress Index Values						
Structural Crack Index	100	99	100	100	100	100
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	100	99	100	100	100	100
Transverse Cracking Index	99	100	97	99	100	100
Patching Index	100	100	100	100	100	100
Rutting Index	100	99	99	99	100	100
International Roughness Index (IRI)	88	101	112	88	75	71
Lane & Width Information						
Number of Lanes	2	2	2	1	1	1
Paved Width (ft)	15.4	18.2	18.6	13.5	9.2	9.2
Lane Width (ft)	8.3	8.4	8.4	8.1	8.2	8

Prince William Forest Park

ROUTE 0011: SCENIC DRIVE

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:	Route Condition Legend – Pavement Condition Rating (PCR)					
	Beginning Section MP	5	6	7	8	9
6/6/2018	Section Length (MI)	1	1	1	1	0.23
Paved Length (Miles): 9.23	Route Summary					
Surface Type: ASPHALT						
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	100	100	100	99	99
Surface Condition Rating (SCR)	99	100	100	100	99	98
Roughness Condition Index (RCI)	100	100	100	100	100	100
Distress Index Values						
Structural Crack Index	100	100	100	100	100	98
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	100	100	100	100	100	98
Transverse Cracking Index	99	100	100	100	100	100
Patching Index	100	100	100	100	100	100
Rutting Index	100	100	100	100	99	99
International Roughness Index (IRI)	88	82	68	79	115	98
Lane & Width Information						
Number of Lanes	2	1	2	2	2	2
Paved Width (ft)	15.4	12.7	18.6	18.8	18.9	18.5
Lane Width (ft)	8.3	8.3	8.1	8.4	8.6	8.4

Prince William Forest Park

ROUTE 0012: TURKEY RUN ACCESS ROAD

Data Collection Vehicle (DCV) Rating



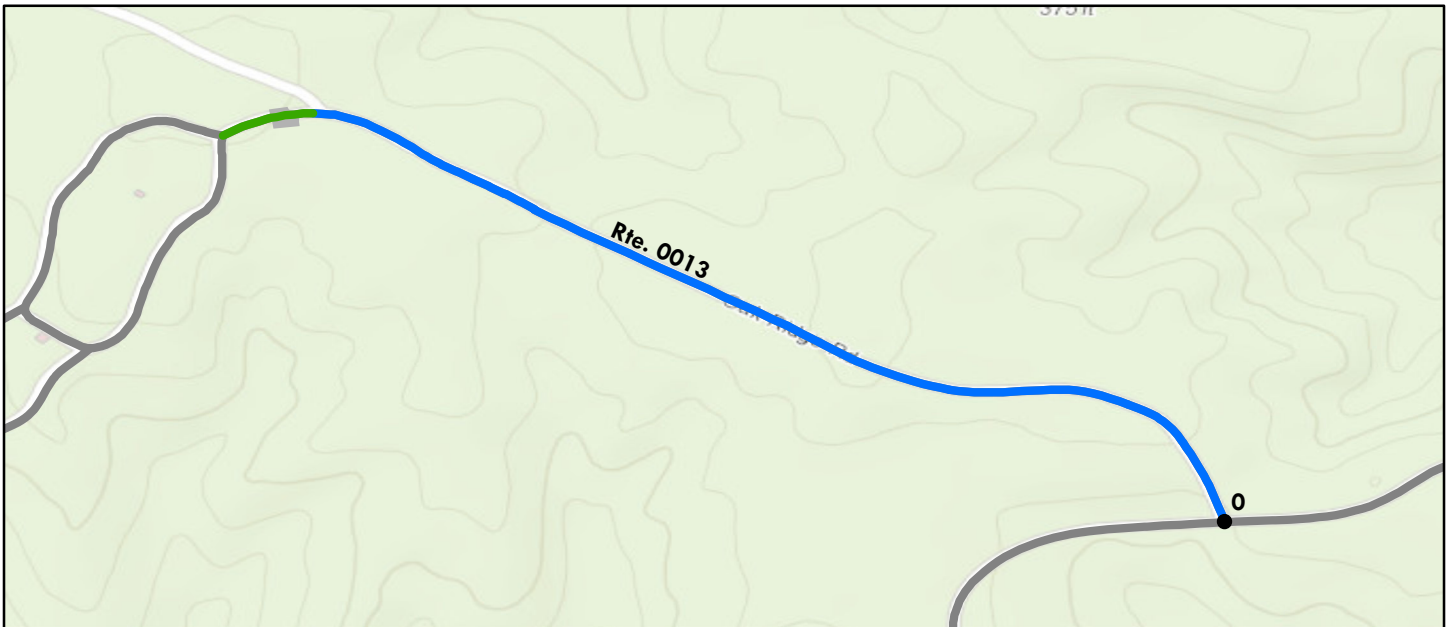
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

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: 6/6/2018	Beginning Section MP	0				
Paved Length (Miles): 0.35	Section Length (MI)	0.35				
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	100	100				
Patching Index	100	100				
Rutting Index	97	97				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	19.3	19.3				
Lane Width (ft)	8.3	8.3				

Prince William Forest Park

ROUTE 0013: OAK RIDGE ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), 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: 6/6/2018	Beginning Section MP	0				
Paved Length (Miles): 0.65	Section Length (MI)	0.65				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	99				
Surface Condition Rating (SCR)	99	99				
Roughness Condition Index (RCI)	100	100				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	99	99				
Patching Index	100	100				
Rutting Index	100	100				
International Roughness Index (IRI)	100	100				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	16.1	16.1				
Lane Width (ft)	7	7				

Prince William Forest Park

ROUTE 0015: TELEGRAPH 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: 6/6/2018	Beginning Section MP	0				
Paved Length (Miles): 0.26	Section Length (MI)	0.26				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	100	100				
Surface Condition Rating (SCR)	100	100				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	100	100				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	21	21				
Lane Width (ft)	9.8	9.8				

Prince William Forest Park

ROUTE 0201: CARTER DAY CAMP 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: 6/6/2018	Beginning Section MP	0				
Paved Length (Miles): 0.31	Section Length (MI)	0.31				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	49	49				
Surface Condition Rating (SCR)	49	49				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	51	51				
Alligator Crack Index	73	73				
Longitudinal Crack Index	78	78				
Transverse Cracking Index	49	49				
Patching Index	99	99				
Rutting Index	97	97				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	17.8	17.8				
Lane Width (ft)	7.8	7.8				

Prince William Forest Park

ROUTE 0400: PARK HEADQUARTERS ROAD

Data Collection Vehicle (DCV) Rating



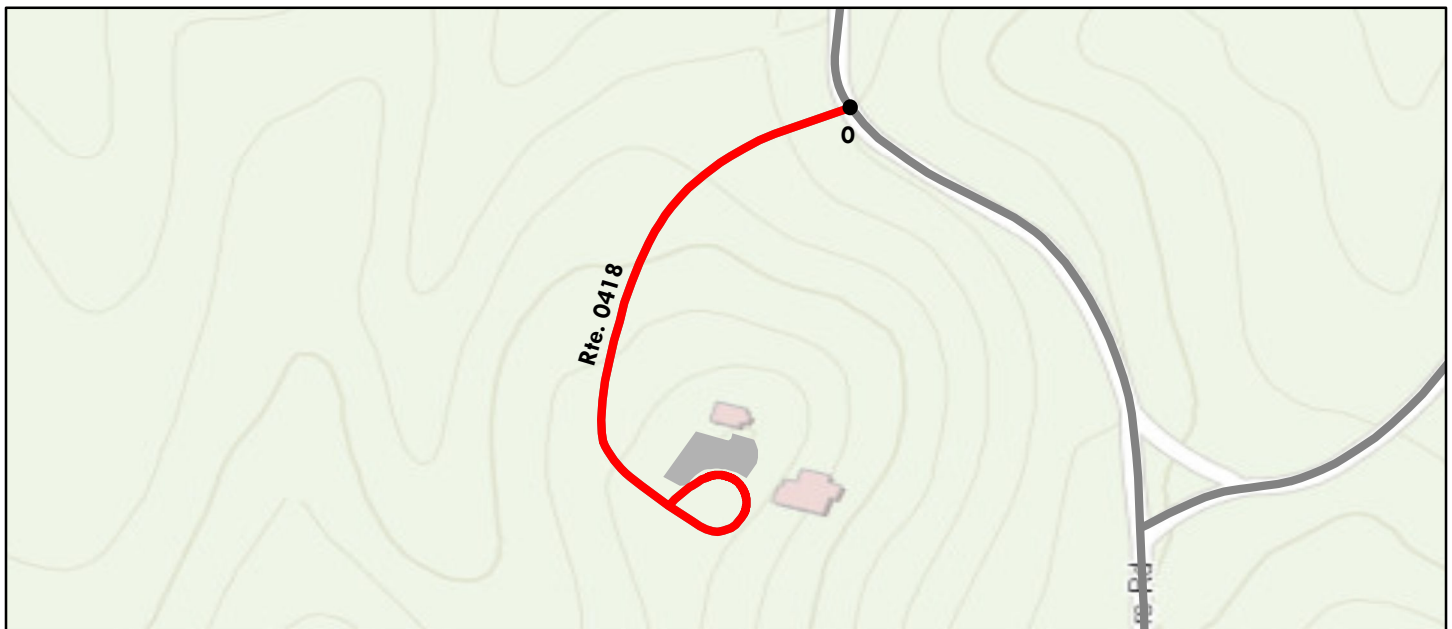
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

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: 6/6/2018	Beginning Section MP	0				
Paved Length (Miles): 0.5	Section Length (MI)	0.5				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	41	41				
Surface Condition Rating (SCR)	32	32				
Roughness Condition Index (RCI)	55	55				
Distress Index Values						
Structural Crack Index	32	32				
Alligator Crack Index	68	68				
Longitudinal Crack Index	64	64				
Transverse Cracking Index	55	55				
Patching Index	100	100				
Rutting Index	96	96				
International Roughness Index (IRI)	261	261				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	17.7	17.7				
Lane Width (ft)	8	8				

Prince William Forest Park

ROUTE 0418: ADMINISTRATIVE DRIVE

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

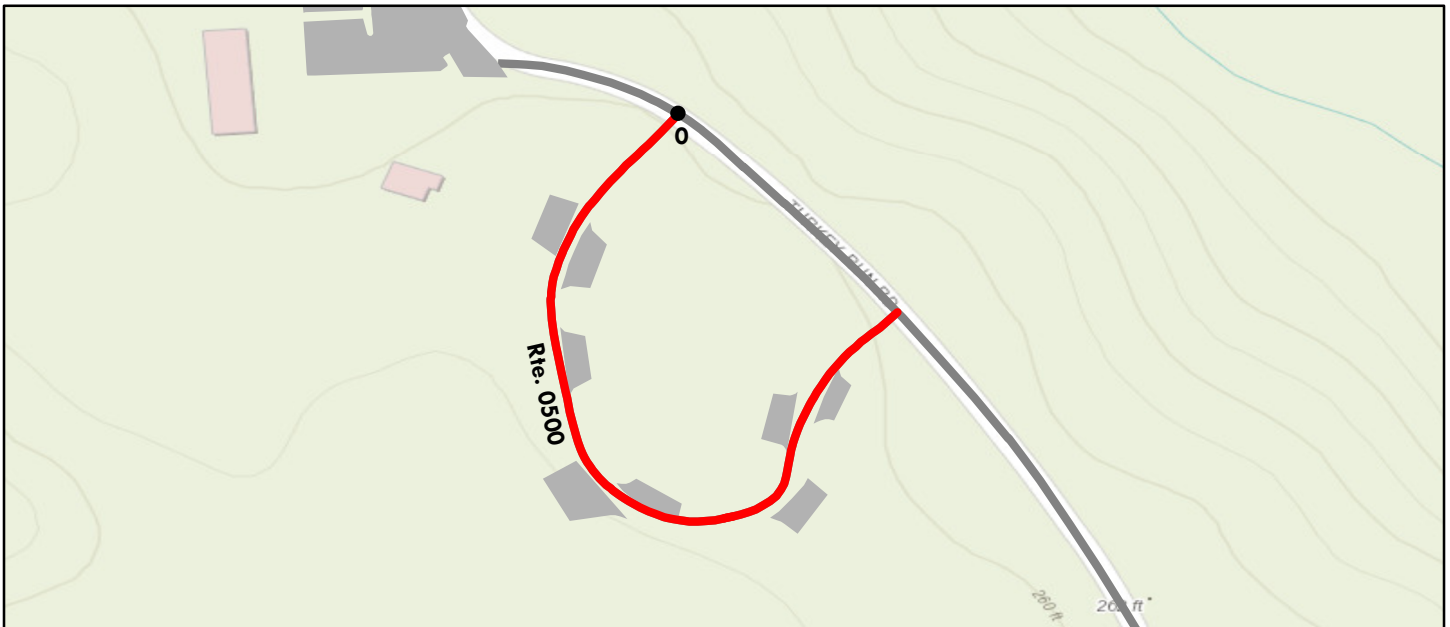
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/6/2018	Beginning Section MP	0				
Paved Length (Miles): 0.16	Section Length (MI)	0.16				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	38	38				
Surface Condition Rating (SCR)	38	38				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	55	55				
Alligator Crack Index	95	95				
Longitudinal Crack Index	60	60				
Transverse Cracking Index	38	38				
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)	13.8	13.8				
Lane Width (ft)	10.9	10.9				

Prince William Forest Park

ROUTE 0500: TURKEY RUN CAMPGROUND LOOP

Data Collection Vehicle (DCV) Rating



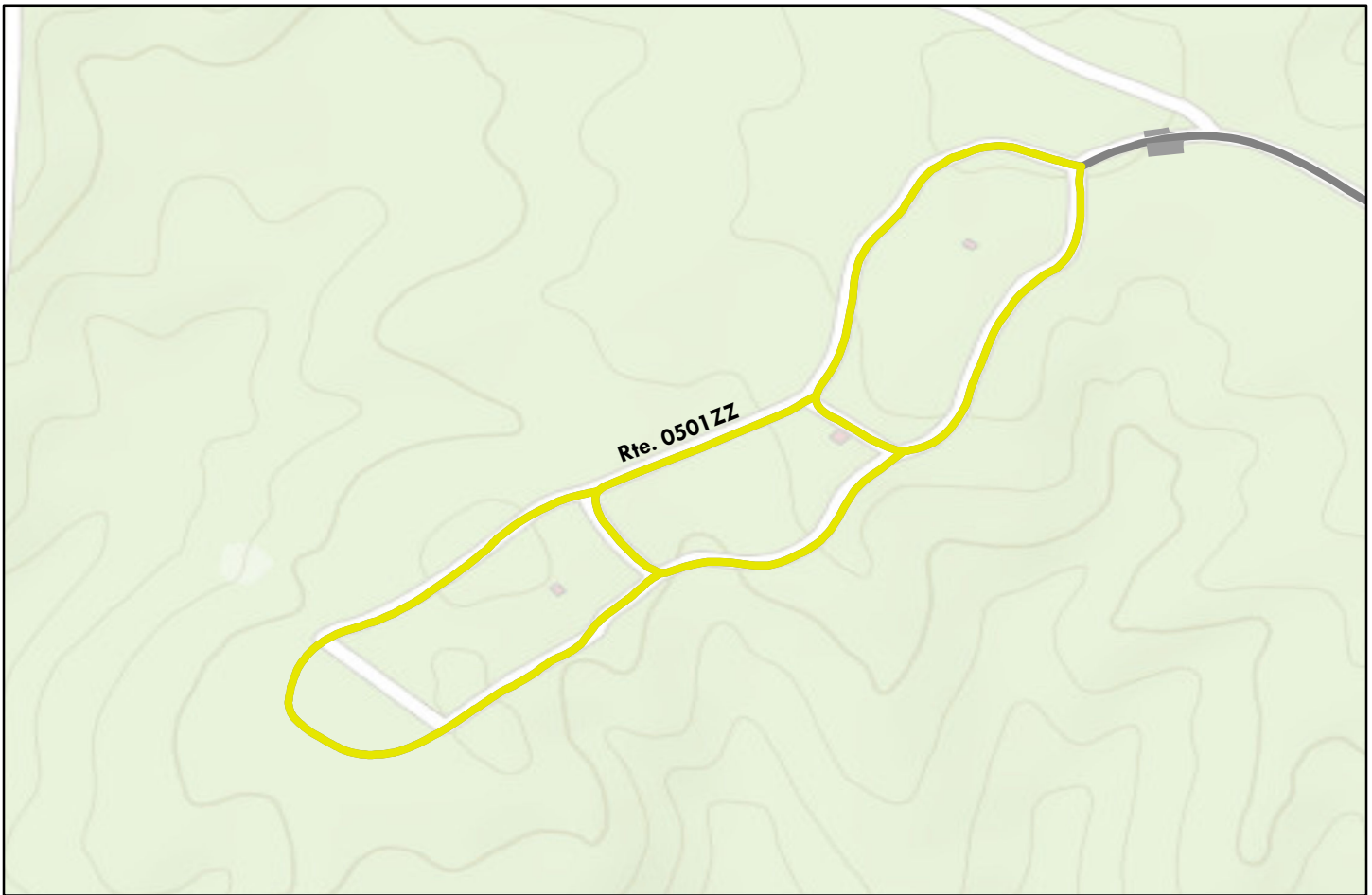
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

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: 6/6/2018	Beginning Section MP	0				
Paved Length (Miles): 0.15	Section Length (MI)	0.15				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	56	56				
Surface Condition Rating (SCR)	56	56				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	56	56				
Alligator Crack Index	79	79				
Longitudinal Crack Index	77	77				
Transverse Cracking Index	71	71				
Patching Index	96	96				
Rutting Index	87	87				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	12	12				
Lane Width (ft)	12	12				

Prince William Forest Park

ROUTE 0501ZZ: OAK RIDGE CAMPGROUND LOOPS

Summary Route



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: The weighted average summary PCR value is calculated from only the sections of road where the PCR was collected. The overall PCR for the summary route may not reflect individual subcomponent ratings.

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date: 6/6/2018						
Paved Length (Miles): 1.05						
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	65					
Lane & Width Information						
Number of Lanes	1					
Paved Width (ft)	10.1					
Lane Width (ft)	10.1					

Prince William Forest Park

ROUTE 0501AZ: OAK RIDGE CAMPGROUND LOOP A

Subcomponent of Route PRWI-0501ZZ
Data Collection Vehicle (DCV) Rating



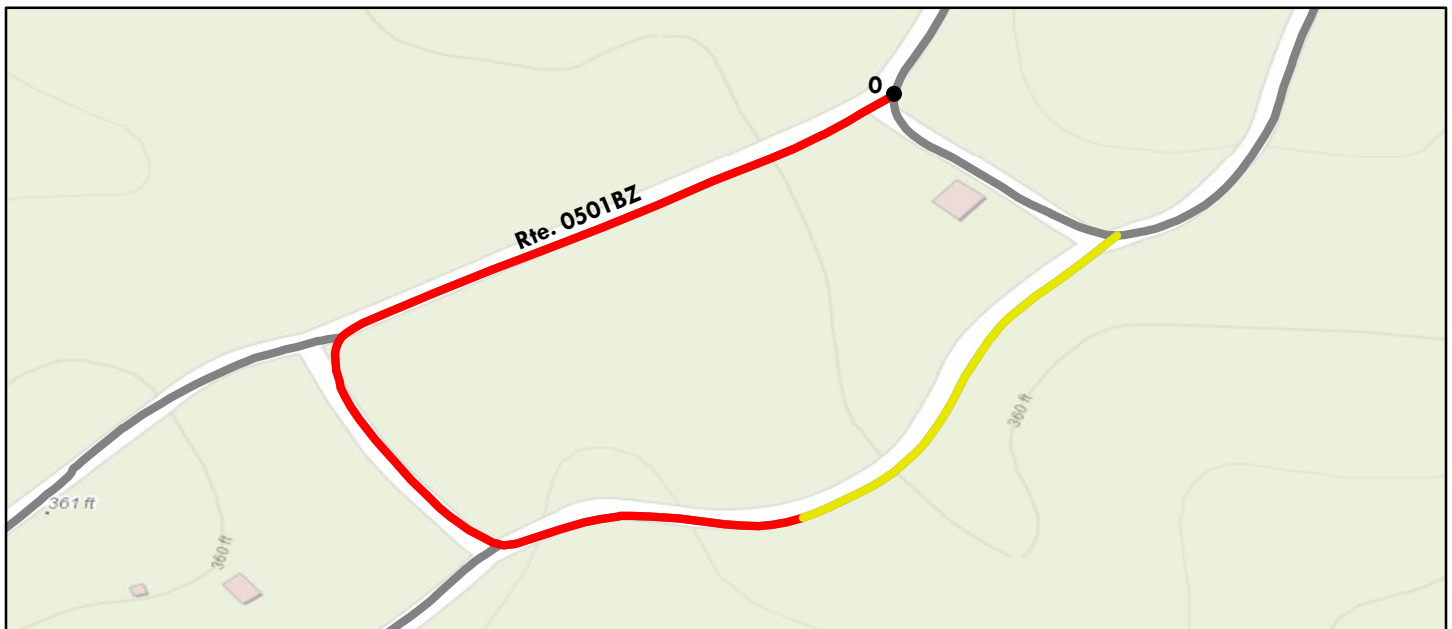
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

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: 6/6/2018	Beginning Section MP	0				
Paved Length (Miles): 0.41	Section Length (MI)	0.41				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	72	72				
Surface Condition Rating (SCR)	72	72				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	72	72				
Alligator Crack Index	94	94				
Longitudinal Crack Index	78	78				
Transverse Cracking Index	82	82				
Patching Index	100	100				
Rutting Index	89	89				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	10.8	10.8				
Lane Width (ft)	10.8	10.8				

Prince William Forest Park

ROUTE 0501BZ: OAK RIDGE CAMPGROUND LOOP B

Subcomponent of Route PRWI-0501ZZ
Data Collection Vehicle (DCV) Rating



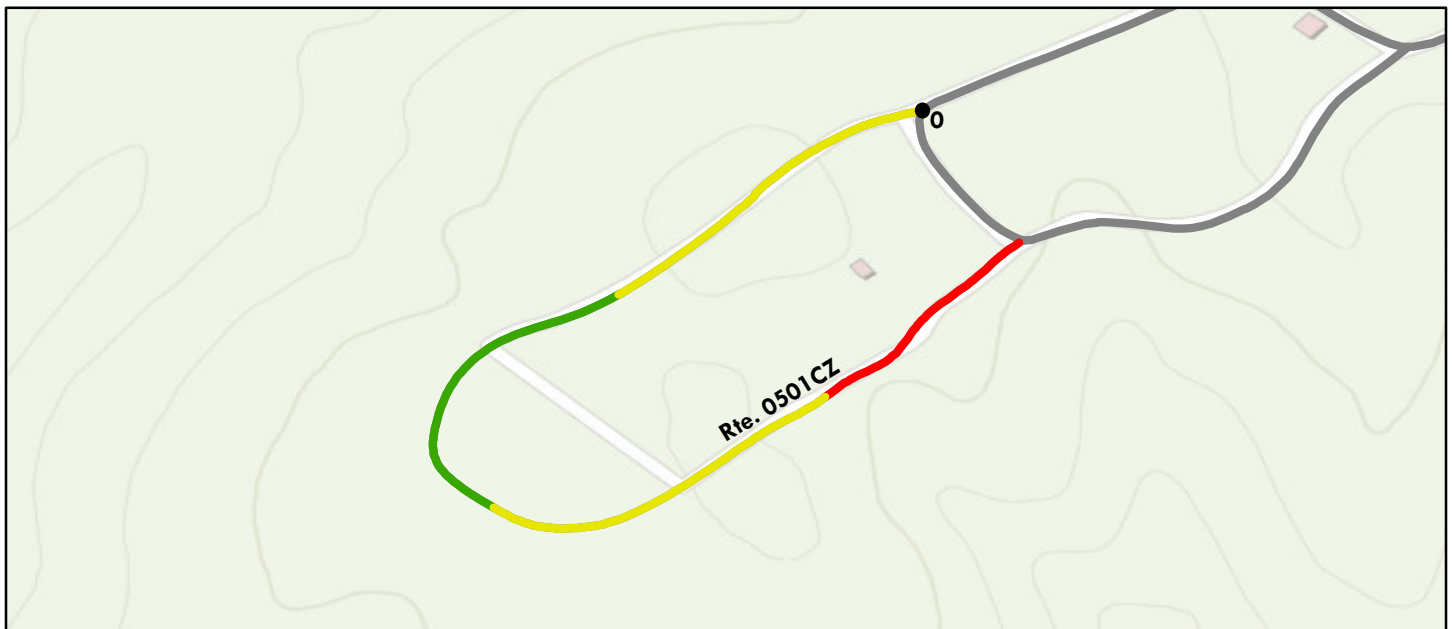
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

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: 6/6/2018	Beginning Section MP	0				
Paved Length (Miles): 0.27	Section Length (MI)	0.27				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	40	40				
Surface Condition Rating (SCR)	40	40				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	40	40				
Alligator Crack Index	64	64				
Longitudinal Crack Index	76	76				
Transverse Cracking Index	65	65				
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)	10.5	10.5				
Lane Width (ft)	10.5	10.5				

Prince William Forest Park

ROUTE 0501CZ: OAK RIDGE CAMPGROUND LOOP C

Subcomponent of Route PRWI-0501ZZ
Data Collection Vehicle (DCV) Rating



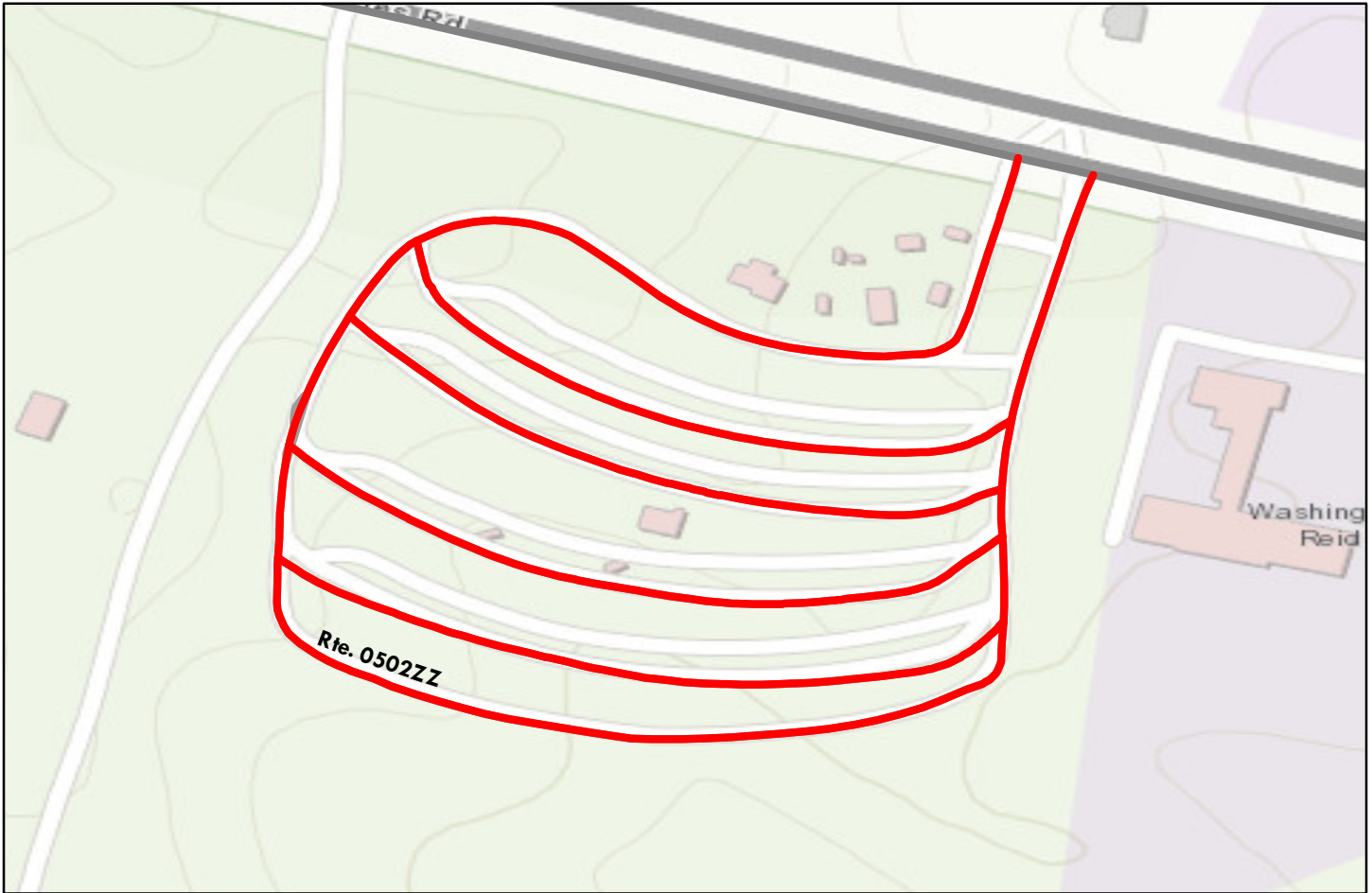
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

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: 6/6/2018	Beginning Section MP	0				
Paved Length (Miles): 0.37	Section Length (MI)	0.37				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	78	78				
Surface Condition Rating (SCR)	78	78				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	78	78				
Alligator Crack Index	92	92				
Longitudinal Crack Index	86	86				
Transverse Cracking Index	81	81				
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)	9	9				
Lane Width (ft)	9	9				

Prince William Forest Park

ROUTE 0502ZZ: TRAVEL TRAILER VILLAGE LOOP ROADS

Summary Route



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

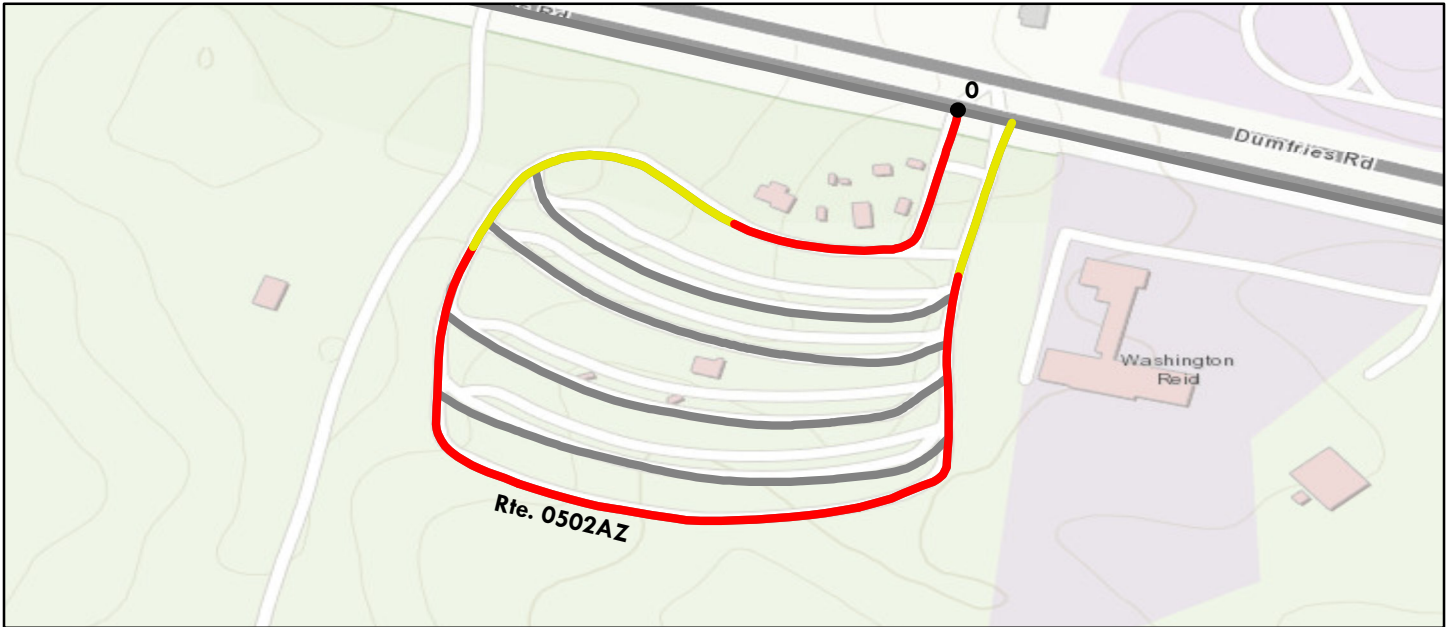
Note: The weighted average summary PCR value is calculated from only the sections of road where the PCR was collected. The overall PCR for the summary route may not reflect individual subcomponent ratings.

Route Condition Legend – Pavement Condition Rating (PCR)						
Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated		
See Appendix for definitions and formulas						
Inspection Date: 6/6/2018						
Paved Length (Miles): 1.15						
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	21					
Lane & Width Information						
Number of Lanes	1					
Paved Width (ft)	15.3					
Lane Width (ft)	15.3					

Prince William Forest Park

ROUTE 0502AZ: TRAVEL TRAILER VILLAGE LOOP ROAD A

Subcomponent of Route PRWI-0502ZZ
 Data Collection Vehicle (DCV) Rating



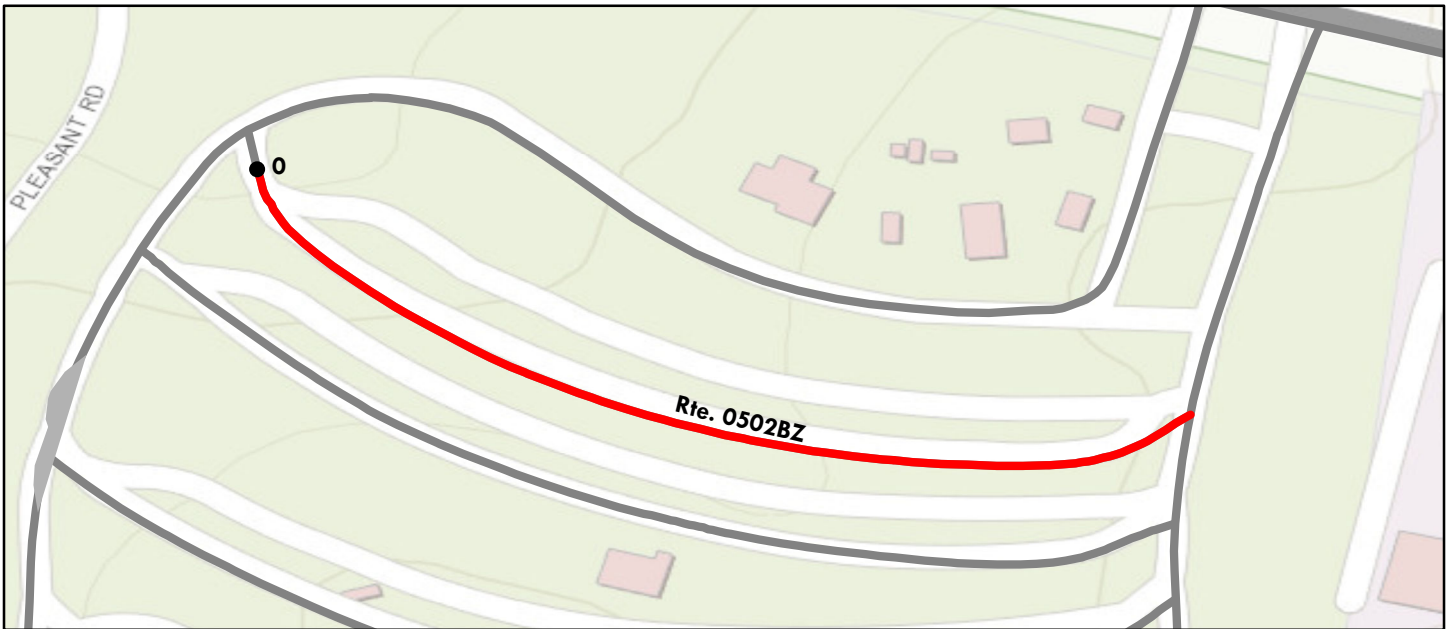
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

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:	6/6/2018	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)		0	0				
Surface Condition Rating (SCR)		0	0				
Roughness Condition Index (RCI)		N/A	N/A				
Distress Index Values							
Structural Crack Index		0	0				
Alligator Crack Index		0	0				
Longitudinal Crack Index		85	85				
Transverse Cracking Index		69	69				
Patching Index		96	96				
Rutting Index		86	86				
International Roughness Index (IRI)		N/A	N/A				
Lane & Width Information							
Number of Lanes		1	1				
Paved Width (ft)		19.4	19.4				
Lane Width (ft)		19.4	19.4				

Prince William Forest Park

ROUTE 0502BZ: TRAVEL TRAILER VILLAGE LOOP ROAD B

Subcomponent of Route PRWI-0502ZZ
 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

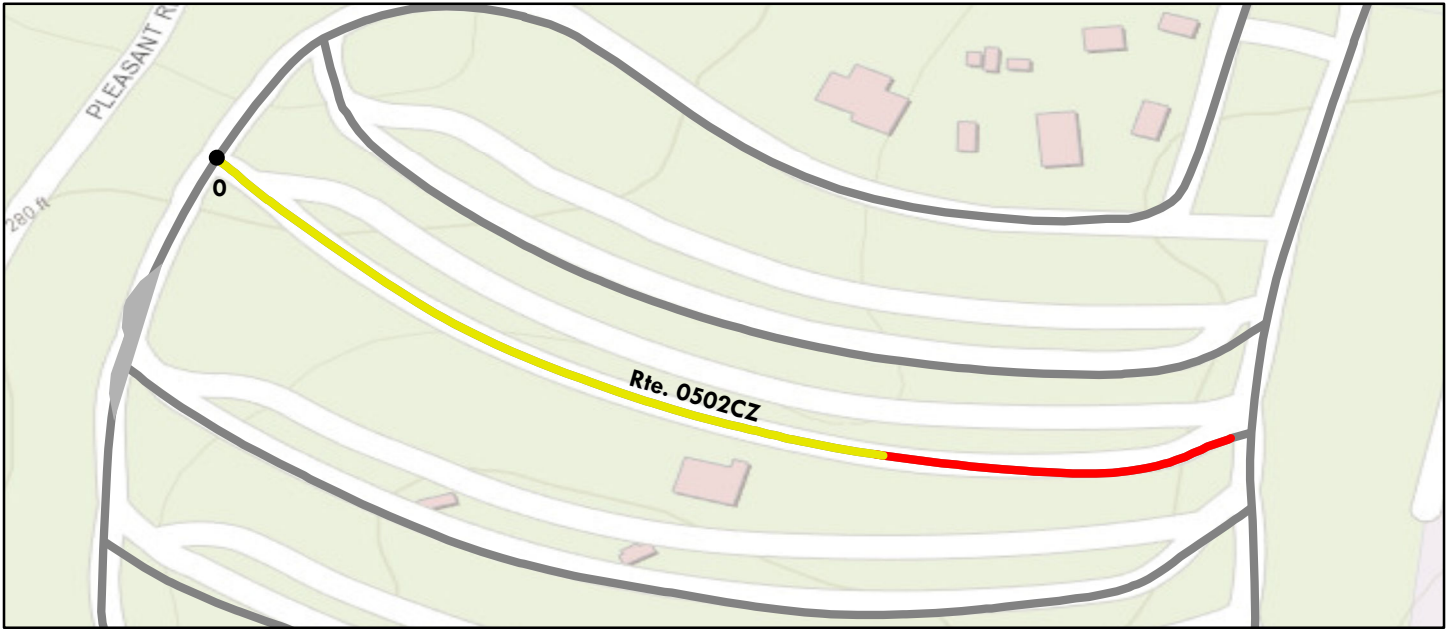
Colors on map represent condition scores at 0.10-mile intervals. See Appendix for definitions and formulas.

Inspection Date: 6/6/2018	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)	43	43				
Surface Condition Rating (SCR)	43	43				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	78	78				
Alligator Crack Index	97	97				
Longitudinal Crack Index	81	81				
Transverse Cracking Index	43	43				
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)	10.8	10.8				
Lane Width (ft)	10.8	10.8				

Prince William Forest Park

ROUTE 0502CZ: TRAVEL TRAILER VILLAGE LOOP ROAD C

Subcomponent of Route PRWI-0502ZZ
 Data Collection Vehicle (DCV) Rating



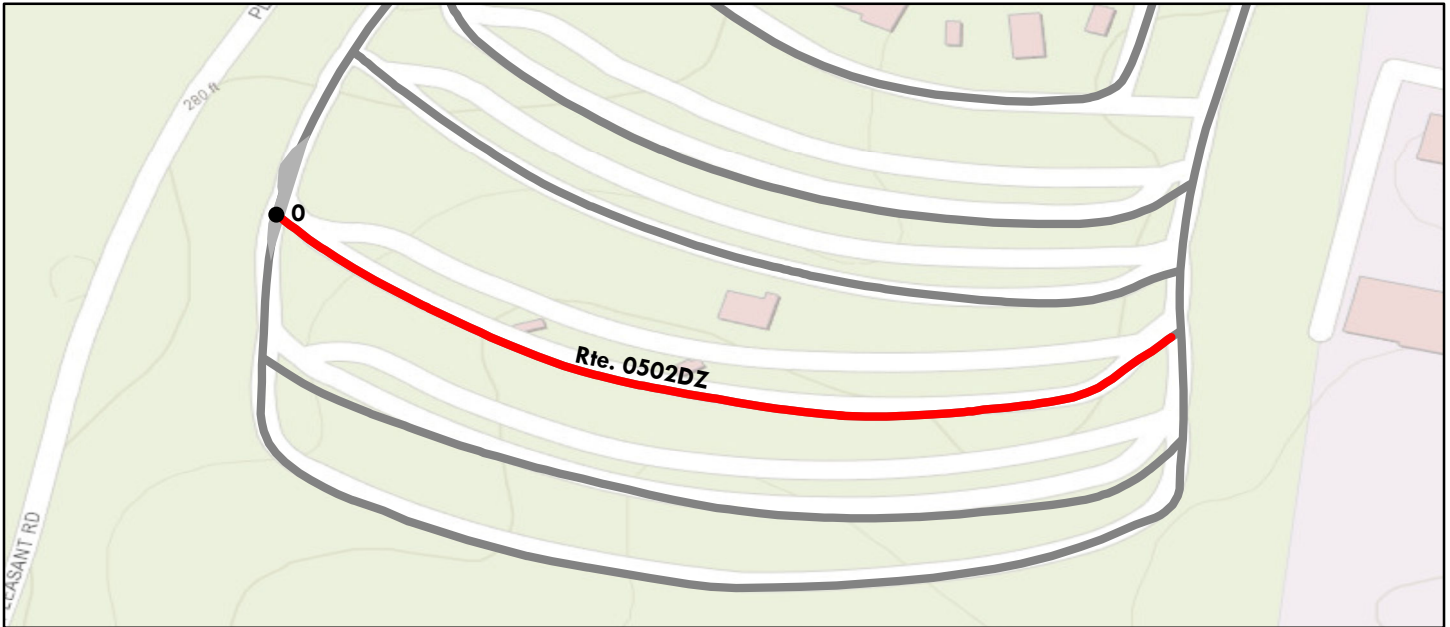
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

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:	6/6/2018	Beginning Section MP	0			
Paved Length (Miles):	0.15	Section Length (MI)	0.15			
Surface Type:	ASPHALT	Route Summary				
Roadway Condition Information						
Pavement Condition Rating (PCR)	60	60				
Surface Condition Rating (SCR)	60	60				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	96	96				
Alligator Crack Index	99	99				
Longitudinal Crack Index	97	97				
Transverse Cracking Index	60	60				
Patching Index	100	100				
Rutting Index	98	98				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	11.2	11.2				
Lane Width (ft)	11.2	11.2				

Prince William Forest Park

ROUTE 0502DZ: TRAVEL TRAILER VILLAGE LOOP ROAD D

Subcomponent of Route PRWI-0502ZZ
 Data Collection Vehicle (DCV) Rating



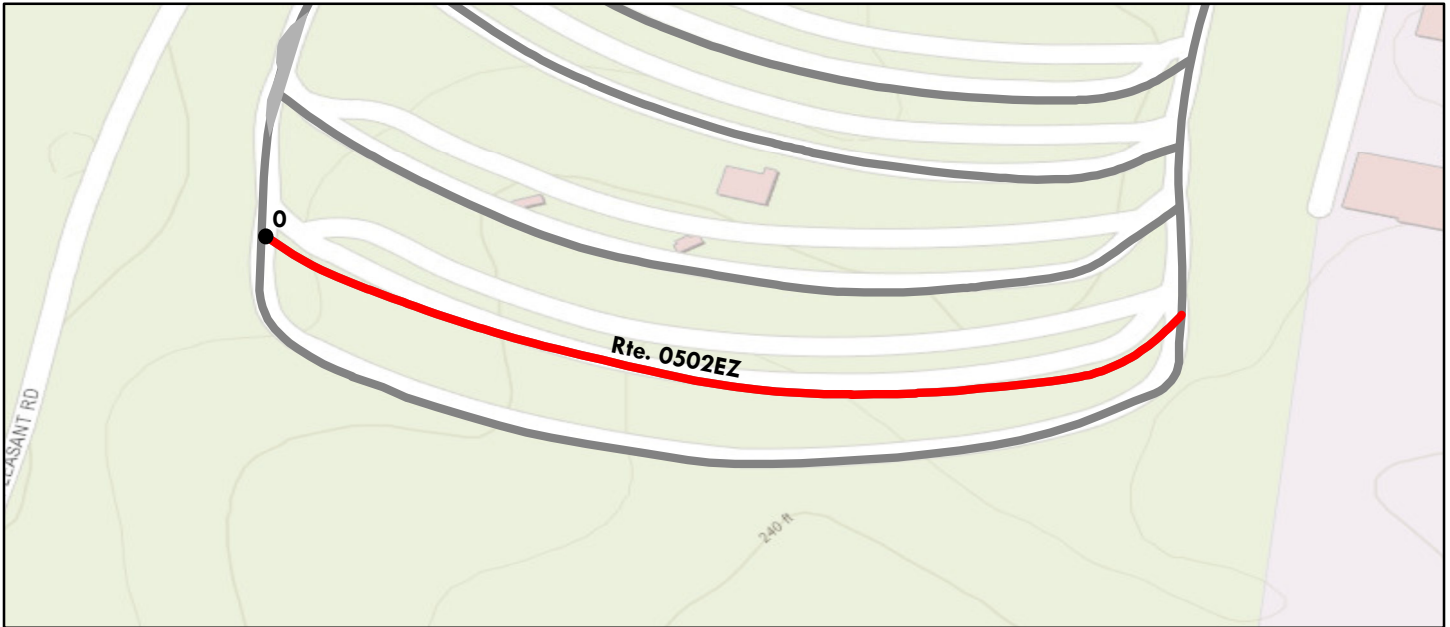
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

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: 6/6/2018	Beginning Section MP	0				
Paved Length (Miles): 0.16	Section Length (MI)	0.16				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	53	53				
Surface Condition Rating (SCR)	53	53				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	53	53				
Alligator Crack Index	72	72				
Longitudinal Crack Index	81	81				
Transverse Cracking Index	57	57				
Patching Index	98	98				
Rutting Index	85	85				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	11.8	11.8				
Lane Width (ft)	11.8	11.8				

Prince William Forest Park

ROUTE 0502EZ: TRAVEL TRAILER VILLAGE LOOP ROAD E

Subcomponent of Route PRWI-0502ZZ
 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: 6/6/2018	Beginning Section MP	0				
Paved Length (Miles): 0.16	Section Length (MI)	0.16				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	56	56				
Surface Condition Rating (SCR)	56	56				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	62	62				
Alligator Crack Index	80	80				
Longitudinal Crack Index	82	82				
Transverse Cracking Index	56	56				
Patching Index	100	100				
Rutting Index	91	91				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	12.2	12.2				
Lane Width (ft)	12.2	12.2				

Prince William Forest Park

ROUTE 0503: VISITOR CENTER HOST 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: 2/16/2019	Beginning Section MP	0.00				
Paved Length (Miles): 0.06	Section Length (MI)	0.06				
Surface Type: ASPHALT	Route Summary					
Roadway Condition Information						
Pavement Condition Rating (PCR)	53	53				
Surface Condition Rating (SCR)	53	53				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	N/A	N/A				
Alligator Crack Index	53	53				
Longitudinal Crack Index	73	73				
Transverse Cracking Index	90	90				
Patching Index	97	97				
Rutting Index	90	90				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	10	10				
Lane Width (ft)	10	10				

Prince William Forest Park

ROUTE 0503: VISITOR CENTER HOST ROAD

Condition Photos

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



PRWI_0503_8873.JPG



PRWI_0503_8874.JPG



PRWI_0503_8875.JPG



PRWI_0503_8876.JPG



PRWI_0503_8877.JPG



PRWI_0503_8878.JPG

Section 6 Paved Parking Area Condition Rating Sheets



Prince William Forest Park



Federal Lands Highway
Road Inventory Program

Prince William Forest Park

ROUTE 0900: VISITOR CENTER PARKING

Manual Rating

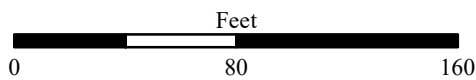
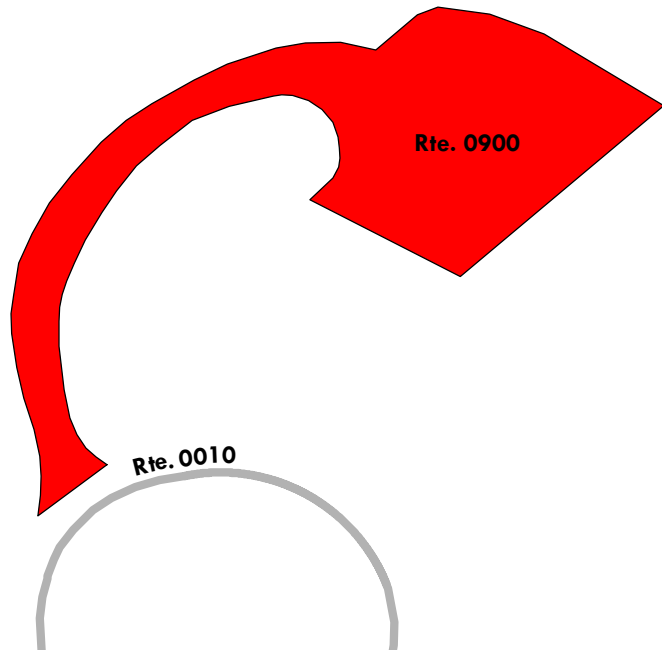
FROM ROUTE 0010 (PARK ENTRANCE ROAD)
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	30958	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
8,568	0.148	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
RECONSTRUCTION		POOR / 30	

Route Condition Legend – Pavement Condition Rating (PCR)

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



Prince William Forest Park

ROUTE 0901ZZ: ENTRANCE KIOSK PARKING

Summary Route
Manual Rating

FROM ROUTE 0010 (PARK ENTRANCE ROAD)

TO ROUTE 0010 (PARK ENTRANCE ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	40510	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Condition Rating / PCR	
4,379	0.076	SUMMARY / 90	

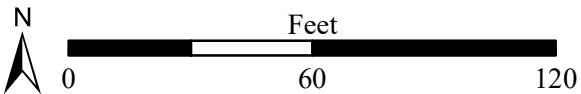
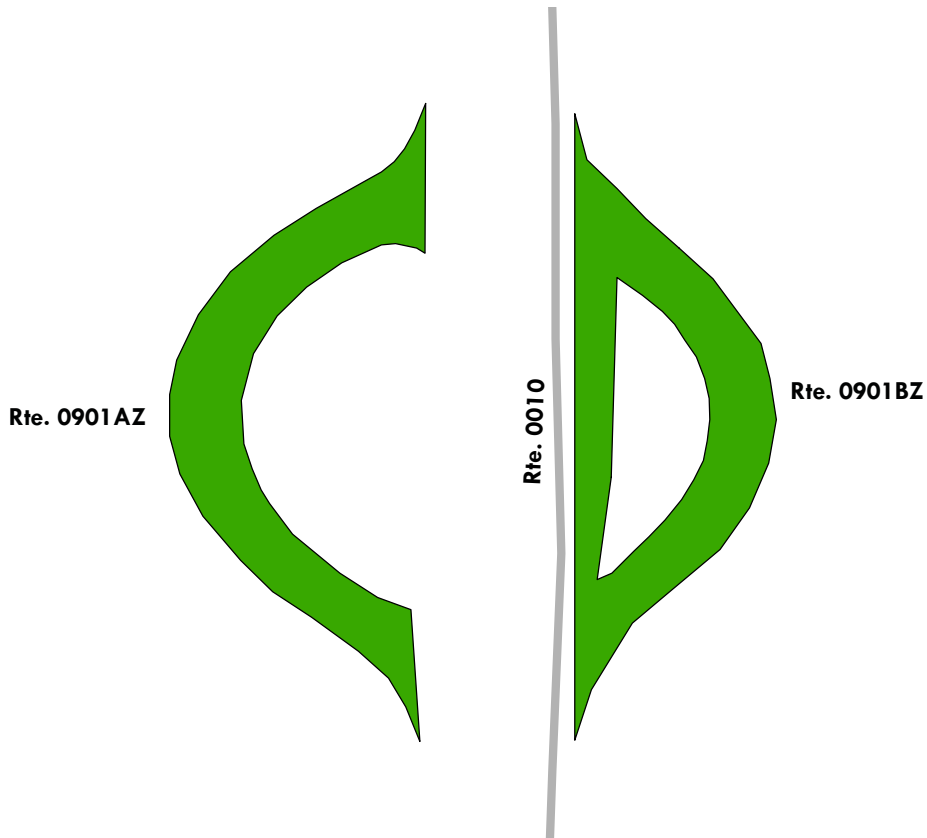
Route Condition Legend – Pavement Condition Rating (PCR)

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

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

Rte. 0901ZZ
(2 Subcomponents)



Prince William Forest Park

ROUTE 0901AZ: ENTRANCE KIOSK PARKING A

Subcomponent of Route PRWI-0901ZZ
Manual Rating

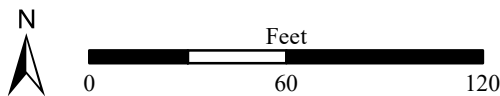
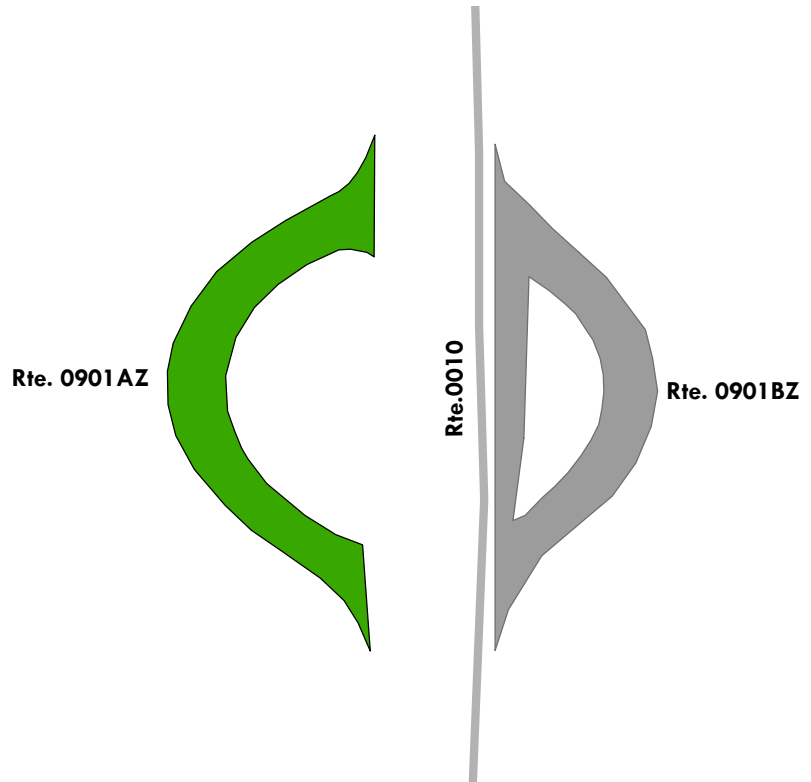
FROM ROUTE 0010 (PARK ENTRANCE ROAD)
 TO ROUTE 0010 (PARK ENTRANCE ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	40510	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
2,084	0.036	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



Prince William Forest Park

ROUTE 0901BZ: ENTRANCE KIOSK PARKING B

Subcomponent of Route PRWI-0901ZZ
Manual Rating

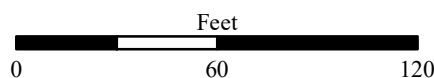
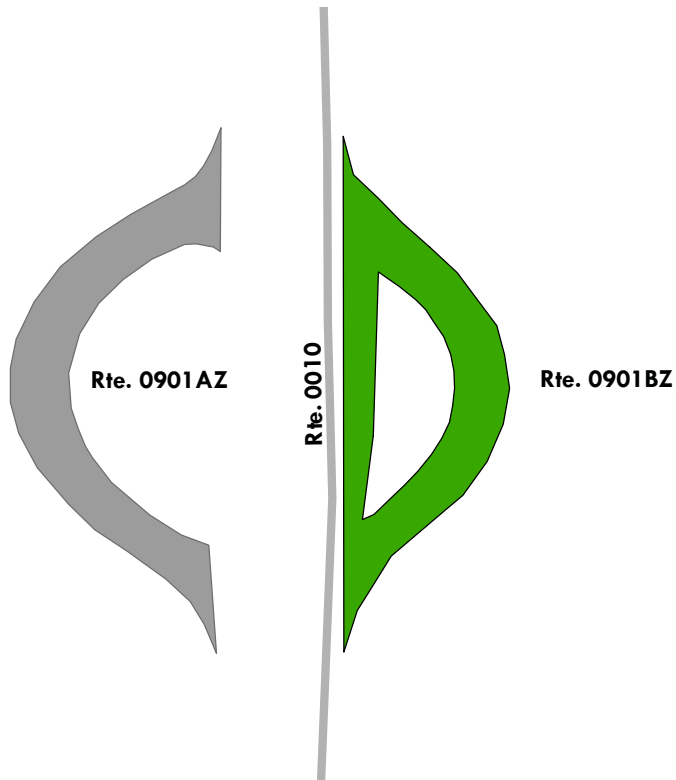
FROM ROUTE 0010 (PARK ENTRANCE ROAD)
 TO ROUTE 0010 (PARK ENTRANCE ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	40510	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
2,295	0.04	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



Prince William Forest Park

ROUTE 0902: TELEGRAPH ROAD PICNIC AREA PARKING

Manual Rating

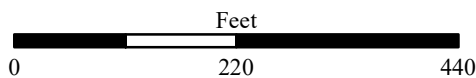
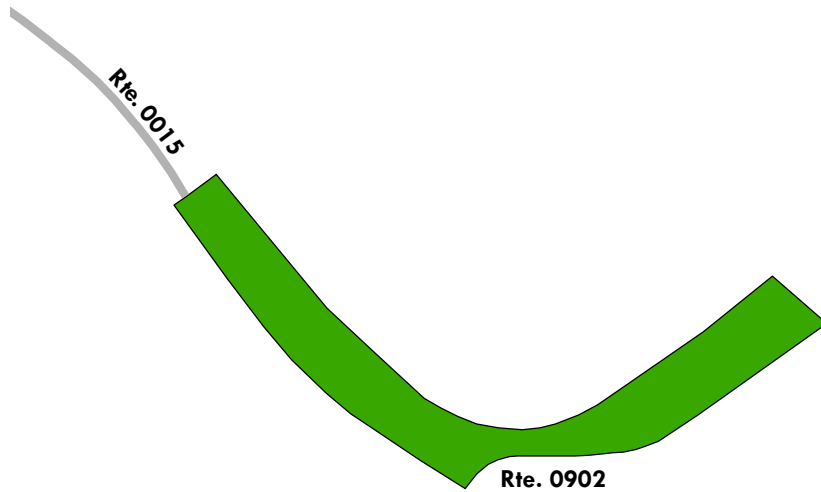
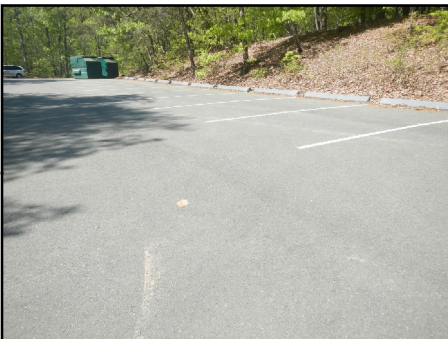
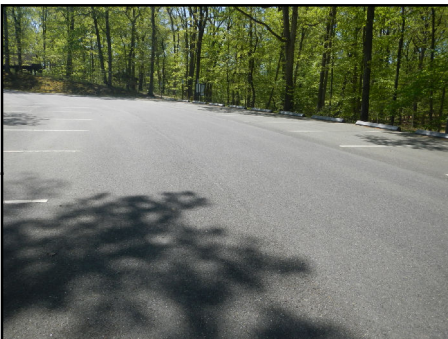
FROM END OF ROUTE 0015 (TELEGRAPH ROAD)
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	30667	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
32,877	0.566	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



Prince William Forest Park

ROUTE 0903: PINE GROVE PICNIC GROUND PARKING

Manual Rating

FROM ROUTE 0010 (PARK ENTRANCE ROAD)

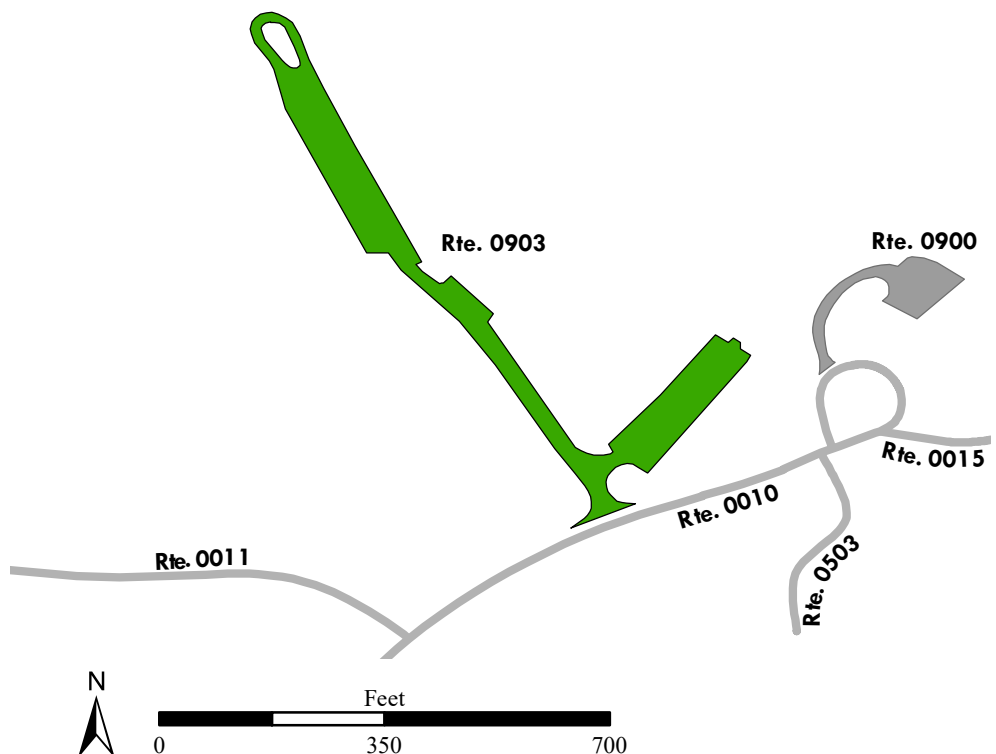
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	30665	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
46,967	0.809	4	DO NOTHING
Curb Type		Curb & Gutter Type	
CONCRETE AND STONE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

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



Prince William Forest Park

ROUTE 0904: ADMINISTRATIVE DRIVE PARKING

Manual Rating

FROM ROUTE 0418 (ADMINISTRATIVE DRIVE)

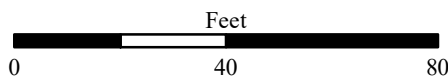
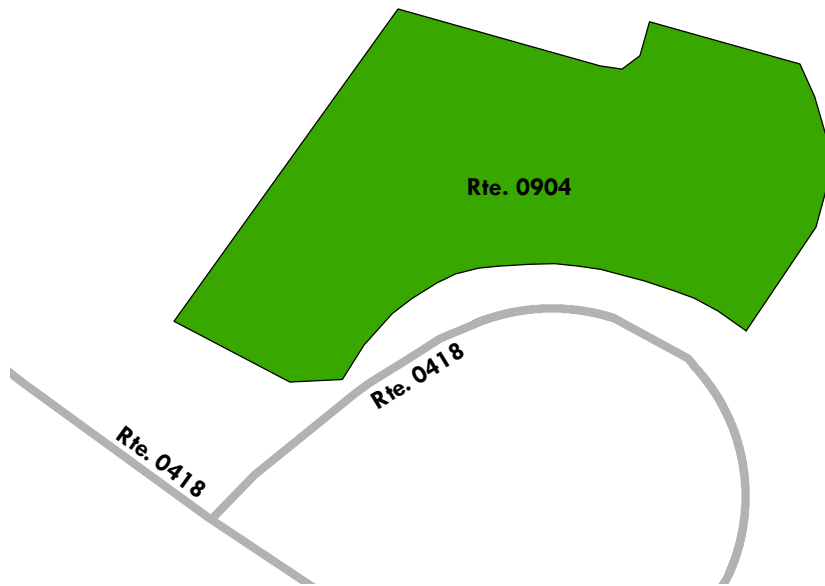
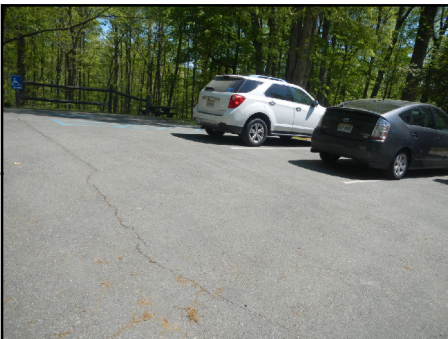
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	30956	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
3,993	0.069	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



Prince William Forest Park

ROUTE 0905: MAINTENANCE AREA EMPLOYEE PARKING

Manual Rating

FROM ROUTE 0400 (PARK HEADQUARTERS ROAD)

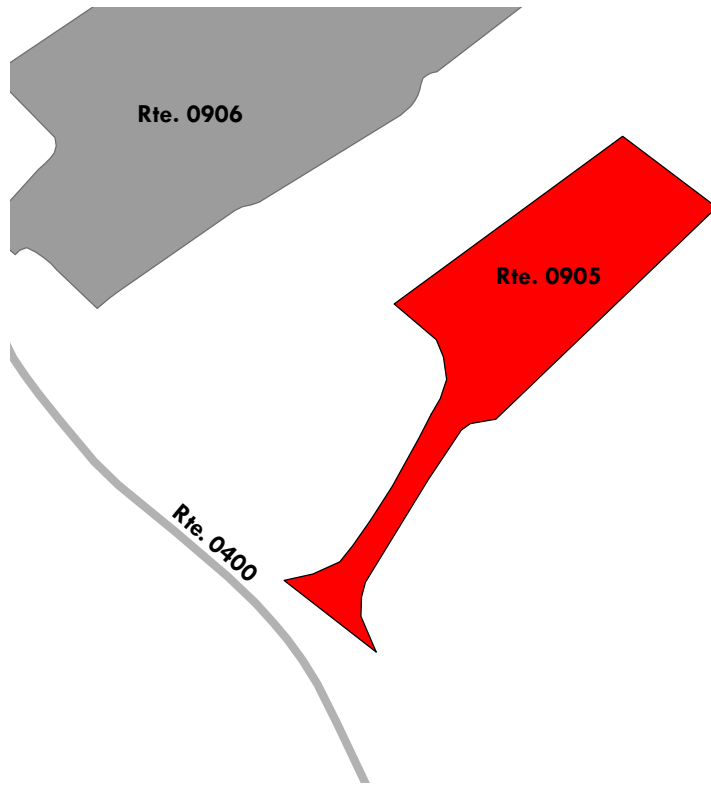
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	30950	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
12,104	0.208	6	LIGHT REPAIR
Curb Type		Curb & Gutter Type	
ASPHALT AND CONCRETE		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



Prince William Forest Park

ROUTE 0906: MAINTENANCE AREA PARKING

Manual Rating

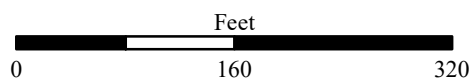
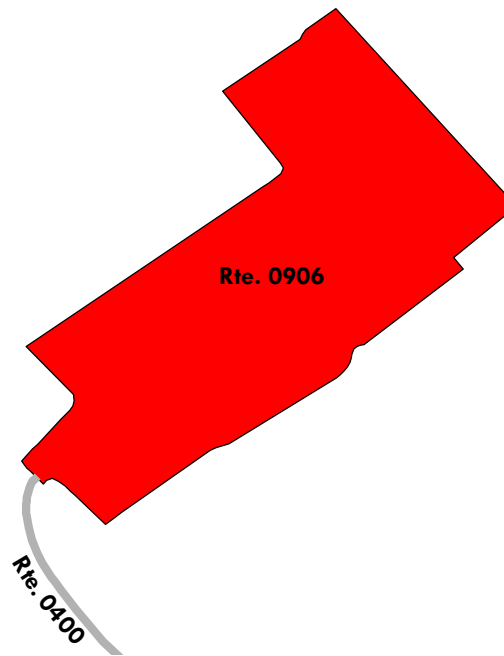
FROM END OF ROUTE 0400 (PARK HEADQUARTERS ROAD)
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	40507	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
45,521	0.784	NOT APPLICABLE	NOT APPLICABLE
Curb Type		Curb & Gutter Type	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
RECONSTRUCTION		POOR / 30	

Route Condition Legend – Pavement Condition Rating (PCR)

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



Prince William Forest Park

ROUTE 0907: TURKEY RUN EDUCATIONAL CENTER (TREC) PARKING

Manual Rating

FROM END OF ROUTE 0012 (TURKEY RUN ACCESS ROAD)

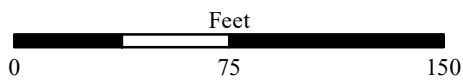
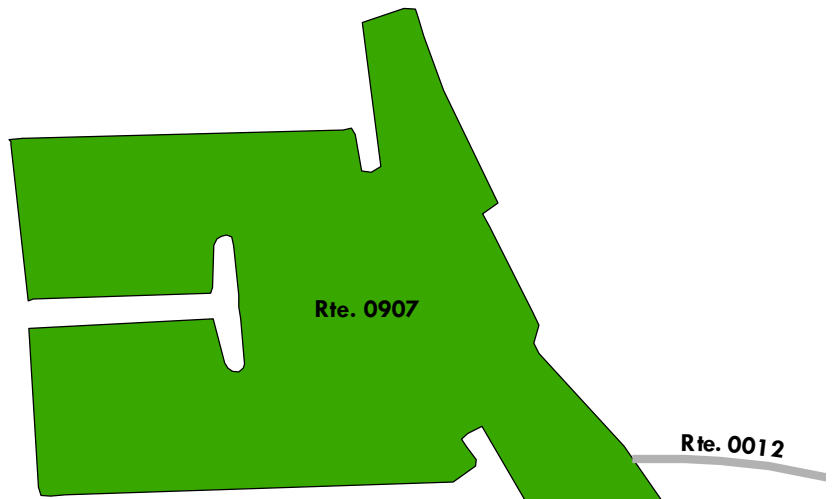
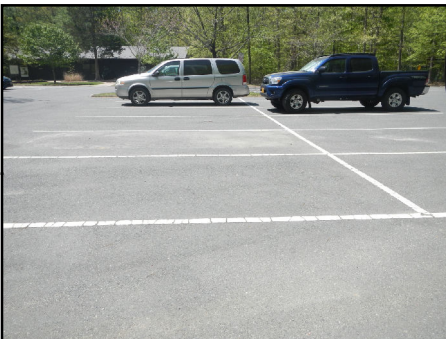
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	30984	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
17,334	0.298	3	LIGHT REPAIR
Curb Type		Curb & Gutter Type	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		Condition Rating / PCR	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

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



Prince William Forest Park

ROUTE 0908: SCENIC DRIVE PARKING A

Manual Rating

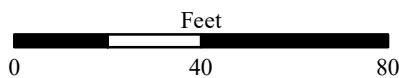
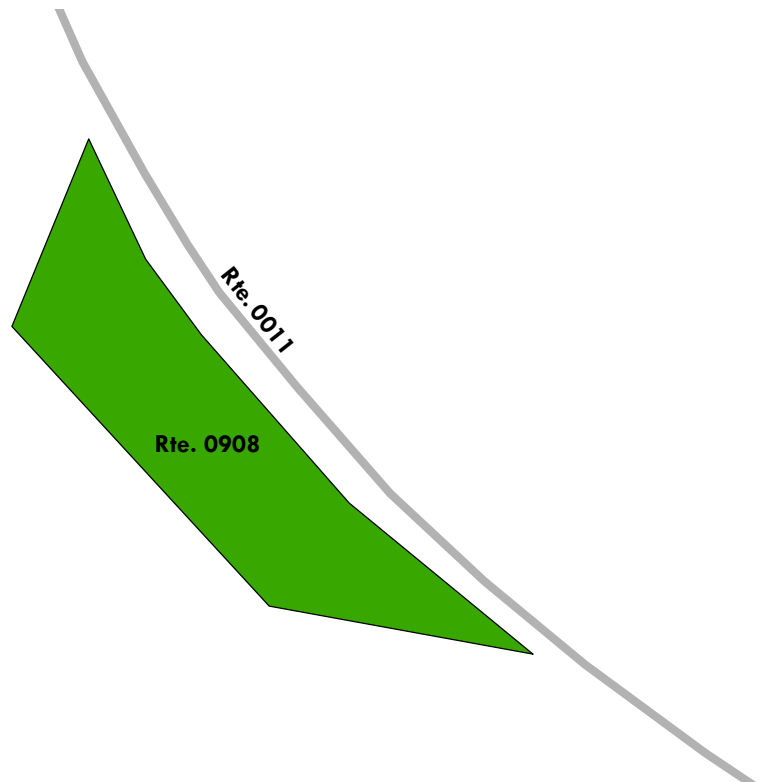
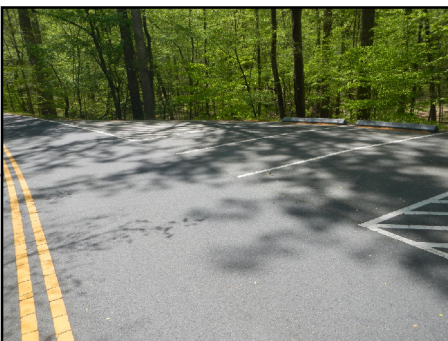
ADJACENT TO ROUTE 0011 (SCENIC DRIVE) AT MP 1.59

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	30909	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
2,593	0.045	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



Prince William Forest Park

ROUTE 0909: SCENIC DRIVE PARKING B

Manual Rating

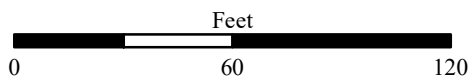
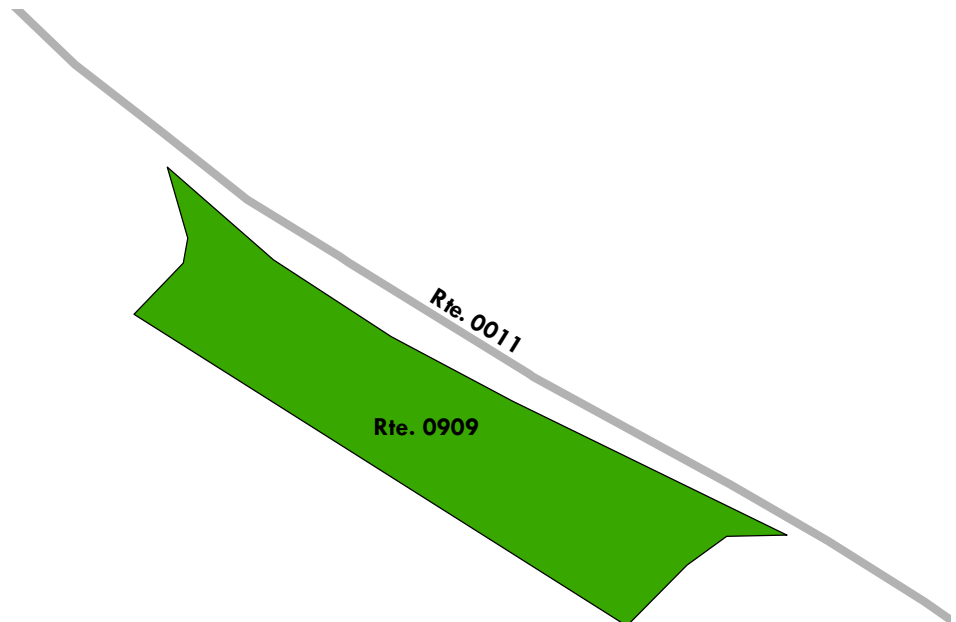
ADJACENT TO ROUTE 0011 (SCENIC DRIVE) AT MP 1.65

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	30914	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
4,715	0.081	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



Prince William Forest Park

ROUTE 0910: SCENIC DRIVE PARKING C

Manual Rating

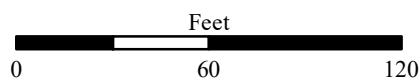
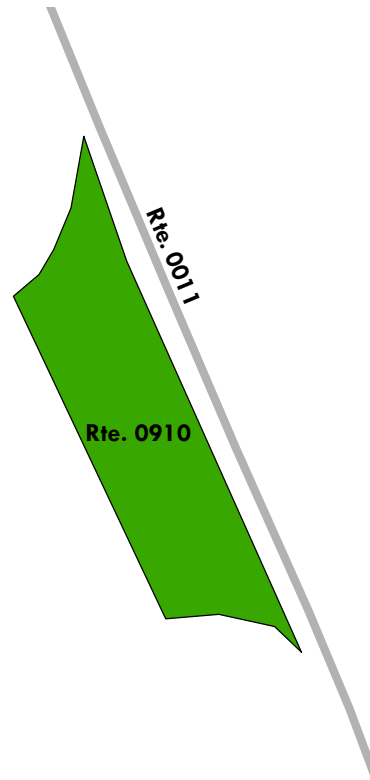
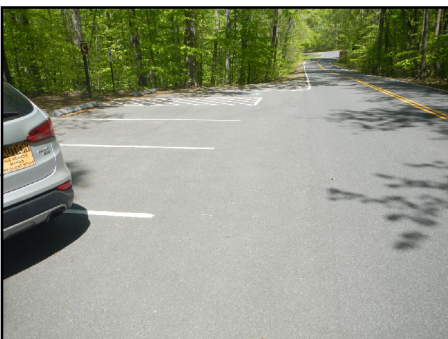
ADJACENT TO ROUTE 0011 (SCENIC DRIVE) AT MP 1.94

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	30916	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
3,701	0.064	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



Prince William Forest Park

ROUTE 0911: SCENIC DRIVE PARKING D

Manual Rating

FROM ROUTE 0011 (SCENIC DRIVE)

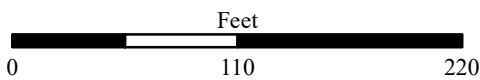
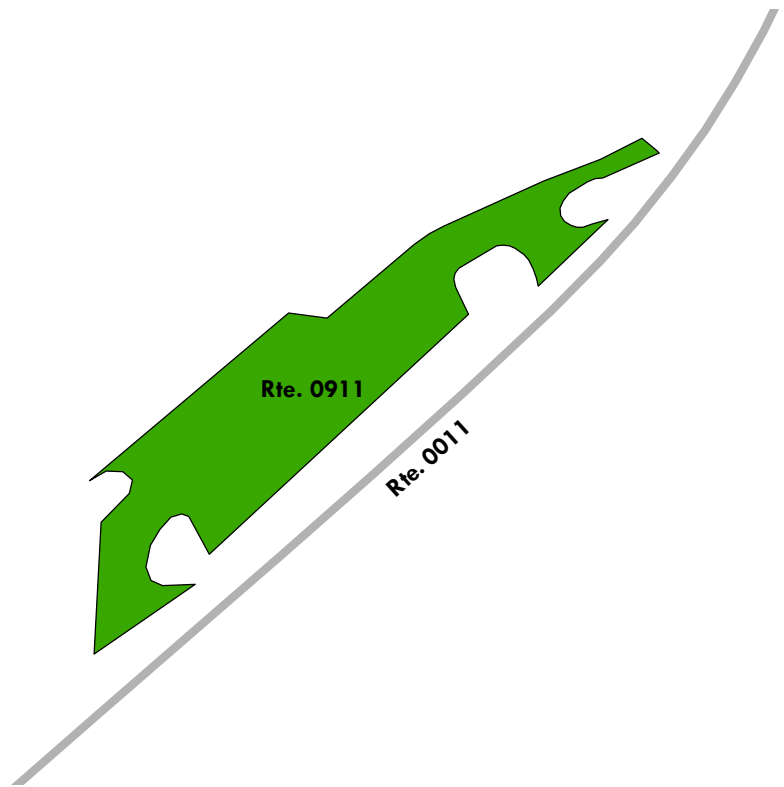
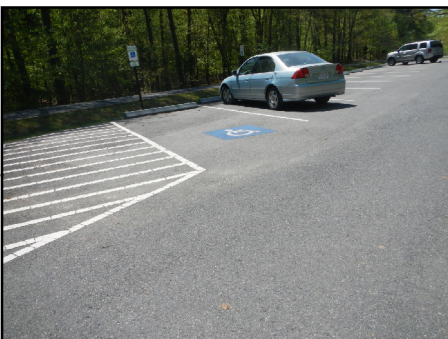
TO ROUTE 0011 (SCENIC DRIVE)

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	30919	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
11,330	0.195	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



Prince William Forest Park

ROUTE 0912: SCENIC DRIVE PARKING E

Manual Rating

FROM ROUTE 0011 (SCENIC DRIVE)

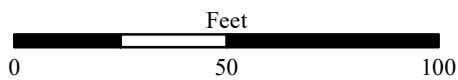
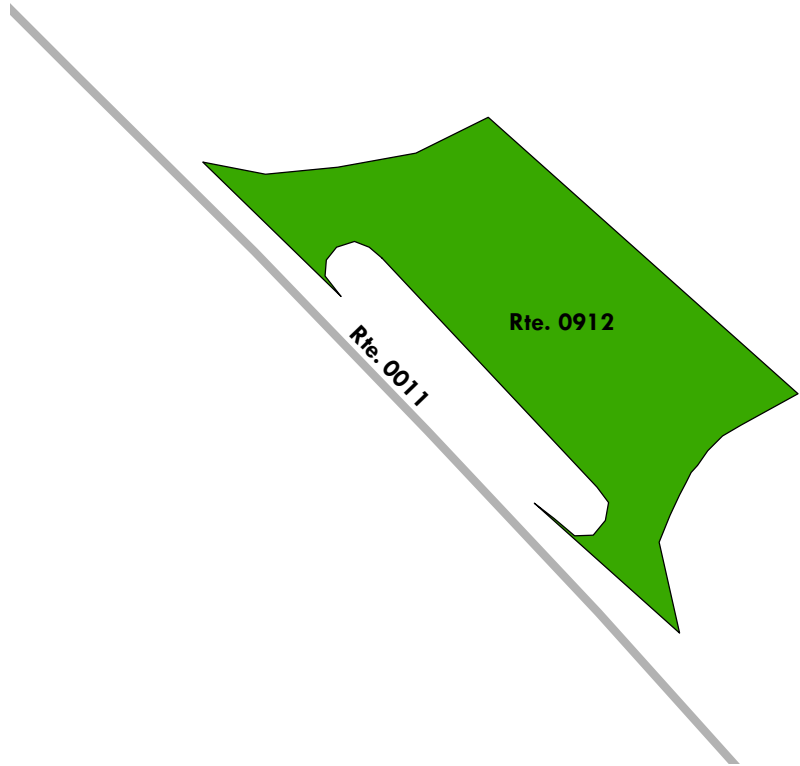
TO ROUTE 0011 (SCENIC DRIVE)

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	30930	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
4,175	0.072	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



Prince William Forest Park

ROUTE 0913: SCENIC DRIVE PARKING F

Manual Rating

FROM ROUTE 0011 (SCENIC DRIVE)

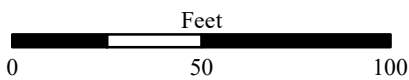
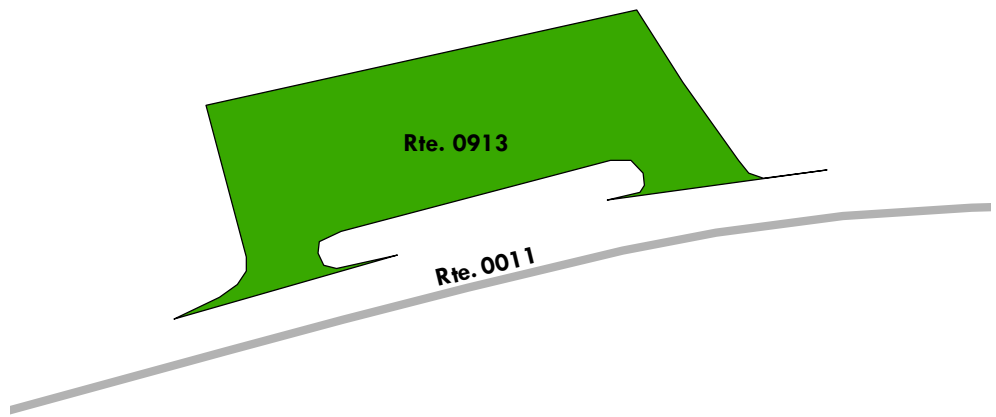
TO ROUTE 0011 (SCENIC DRIVE)

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	30933	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
4,215	0.073	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
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See Appendix for definitions and formulas



Prince William Forest Park

ROUTE 0914: SCENIC DRIVE PARKING G

Manual Rating

FROM ROUTE 0011 (SCENIC DRIVE)

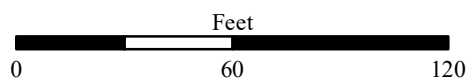
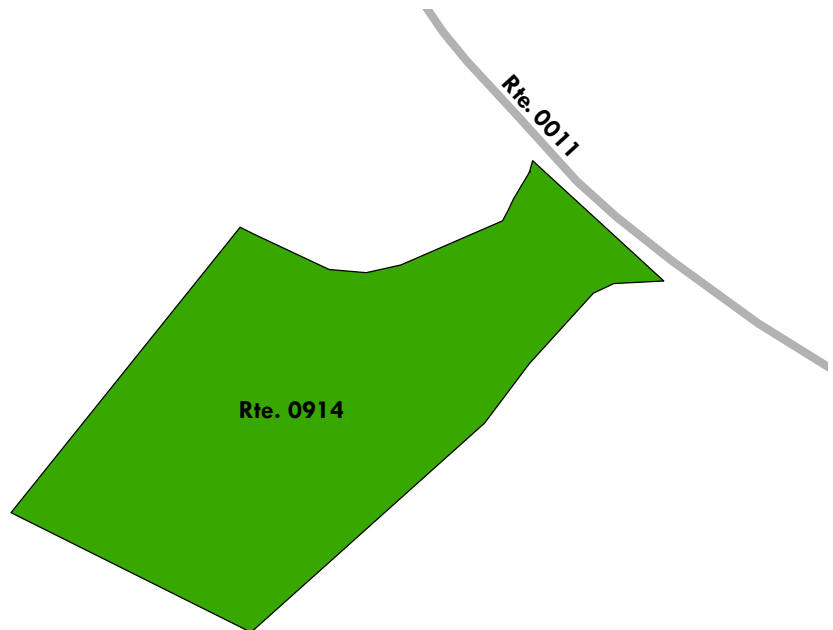
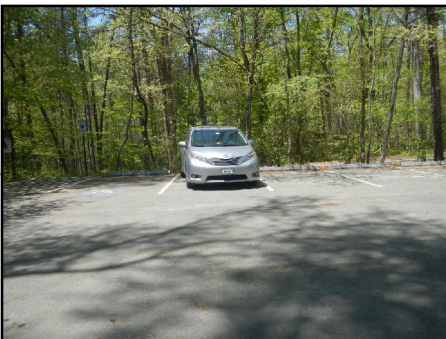
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	30936	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
8,065	0.139	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



Prince William Forest Park

ROUTE 0915: SCENIC DRIVE PARKING H

Manual Rating

FROM ROUTE 0011 (SCENIC DRIVE)

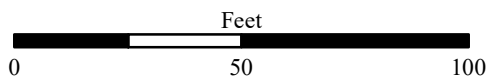
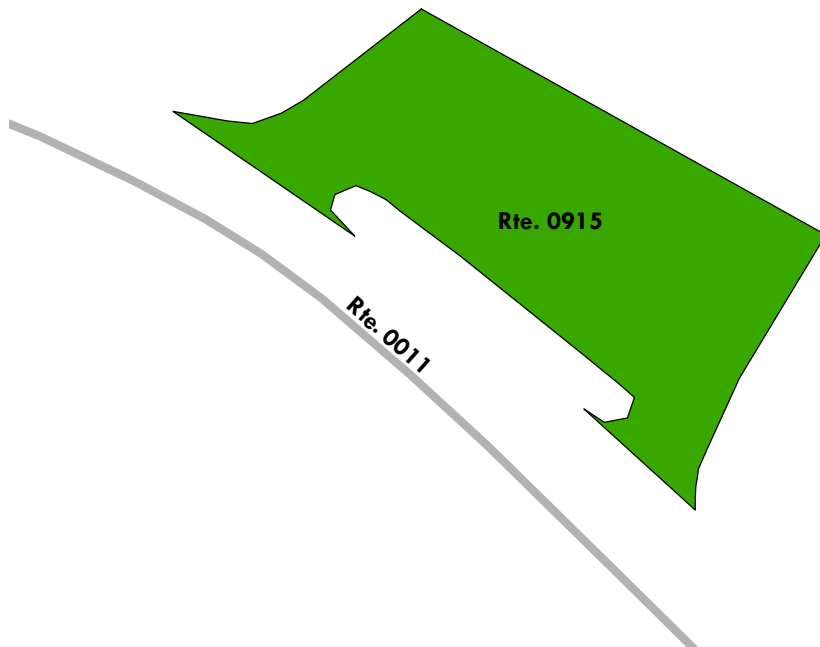
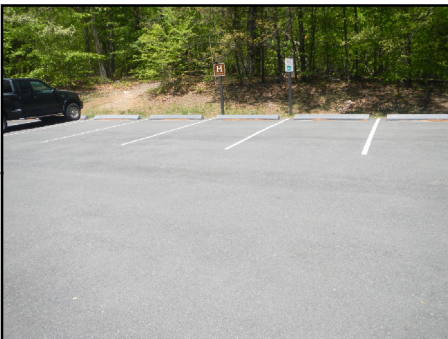
TO ROUTE 0011 (SCENIC DRIVE)

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	30939	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
4,367	0.075	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
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See Appendix for definitions and formulas



Prince William Forest Park

ROUTE 0916: SCENIC DRIVE PARKING I

Manual Rating

FROM ROUTE 0011 (SCENIC DRIVE)

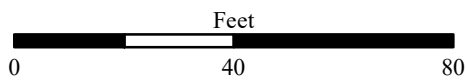
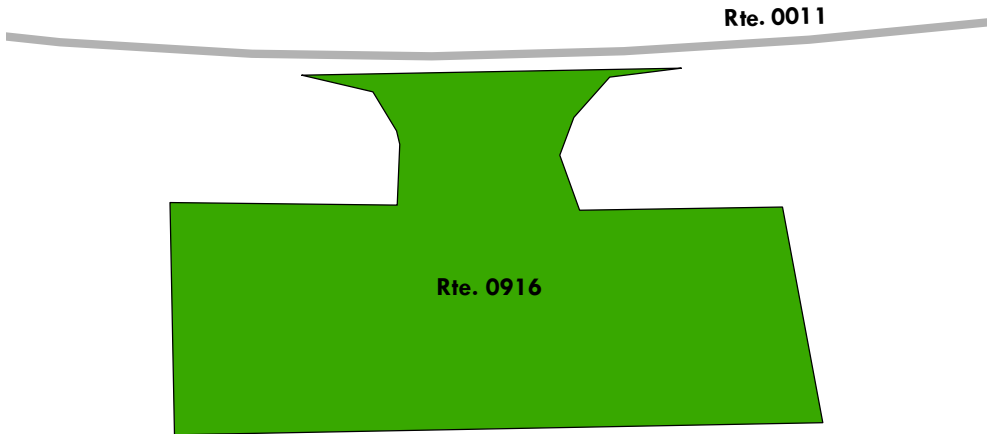
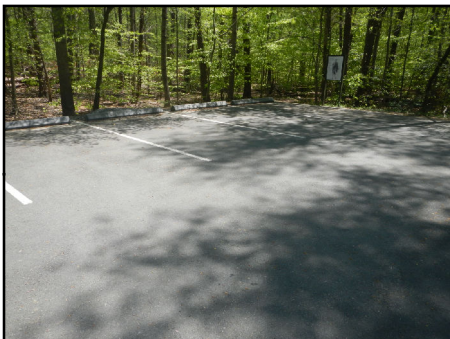
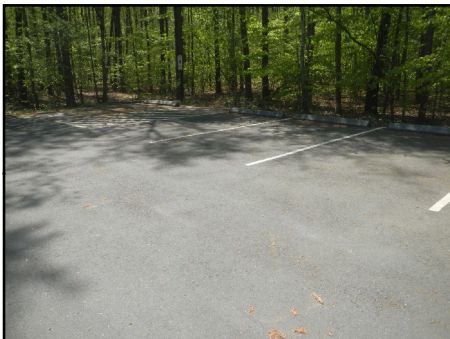
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	30942	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
4,331	0.075	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



Prince William Forest Park

ROUTE 0917ZZ: OAK RIDGE CAMPGROUND PARKING

Summary Route
Manual Rating

ADJACENT TO ROUTE 0013 (OAK RIDGE ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	30976	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Condition Rating / PCR	
3,906	0.067	SUMMARY / 90	

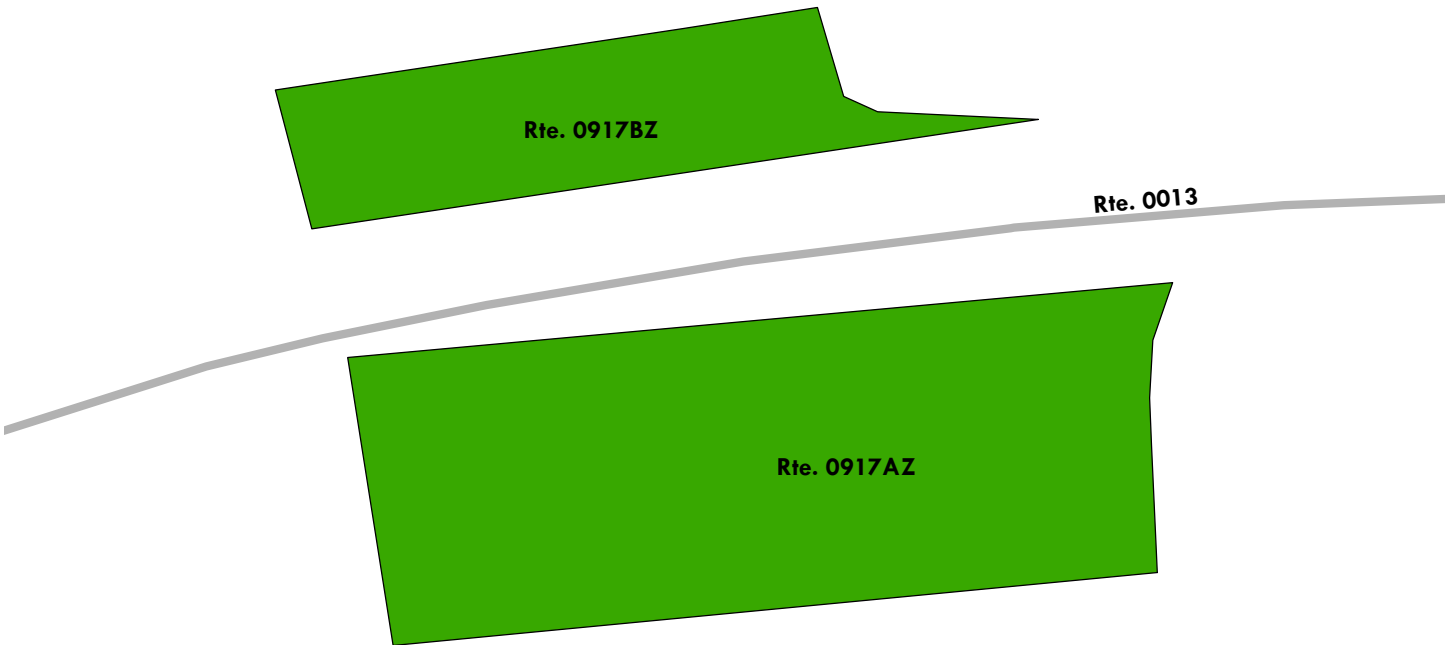
Route Condition Legend – Pavement Condition Rating (PCR)

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

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

Rte. 0917ZZ
(2 Subcomponents)



Prince William Forest Park

ROUTE 0917AZ: OAK RIDGE CAMPGROUND PARKING A

Subcomponent of Route PRWI-0917ZZ
Manual Rating

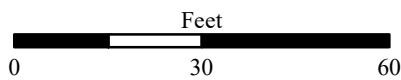
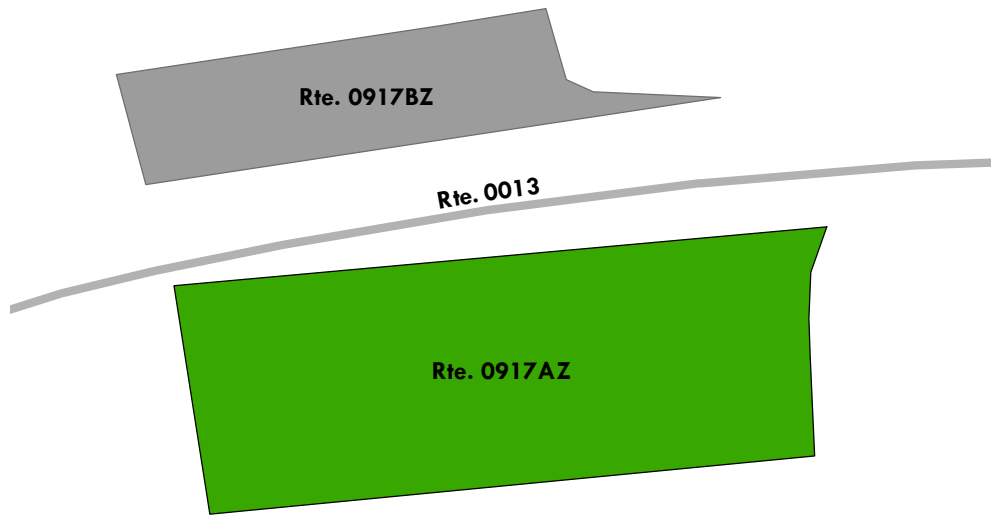
ADJACENT TO ROUTE 0013 (OAK RIDGE ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	30976	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
2,868	0.049	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



Prince William Forest Park

ROUTE 0917BZ: OAK RIDGE CAMPGROUND PARKING B

Subcomponent of Route PRWI-0917ZZ
Manual Rating

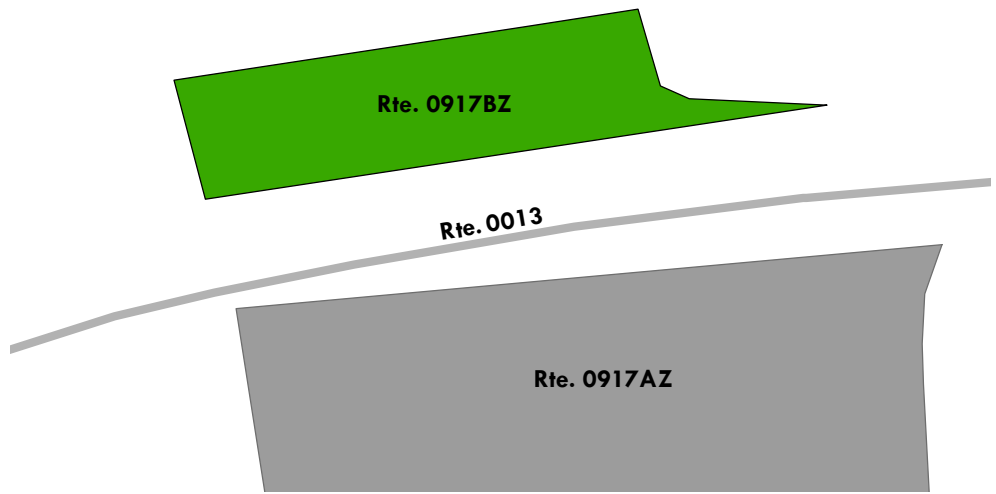
ADJACENT TO ROUTE 0013 (OAK RIDGE ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	30976	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,038	0.018	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



Prince William Forest Park

ROUTE 0926: CARTER'S POND PARKING

Manual Rating

FROM ROUTE 0011 (SCENIC DRIVE)

TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	112683	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
7,493	0.129	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)

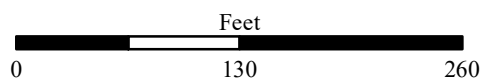
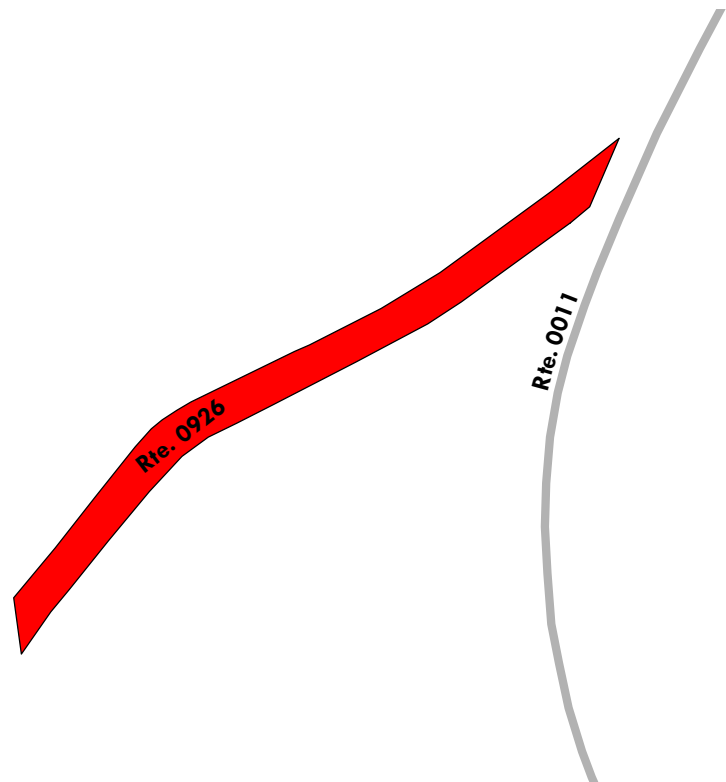
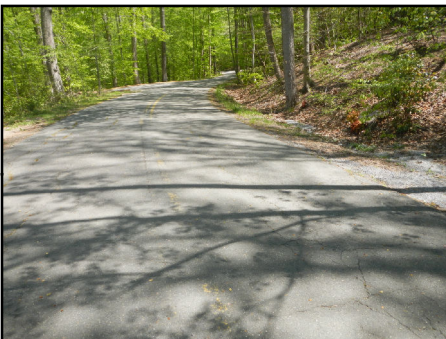
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Prince William Forest Park

ROUTE 0928ZZ: TURKEY RUN CAMPGROUND AND LOOP PARKING AREAS

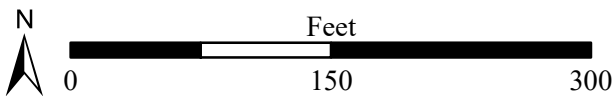
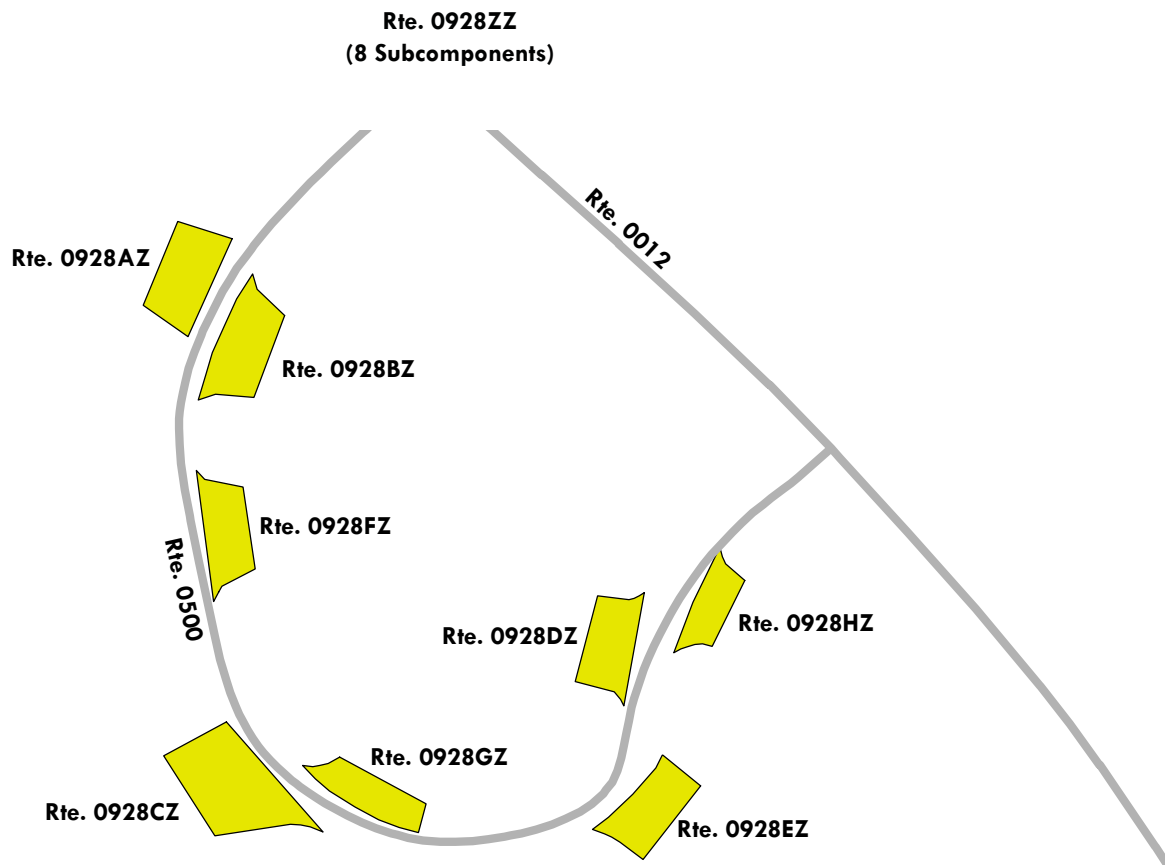
Summary Route
Manual Rating

ADJACENT TO ROUTE 0500 (TURKEY RUN CAMPGROUND LOOP)

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	30982	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Condition Rating / PCR	
10,694	0.183	SUMMARY / 70	

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

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



Prince William Forest Park

ROUTE 0928AZ: TURKEY RUN CAMPGROUND AND LOOP PARKING A

Subcomponent of Route PRWI-0928ZZ

Manual Rating

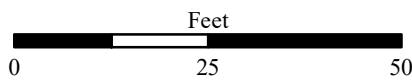
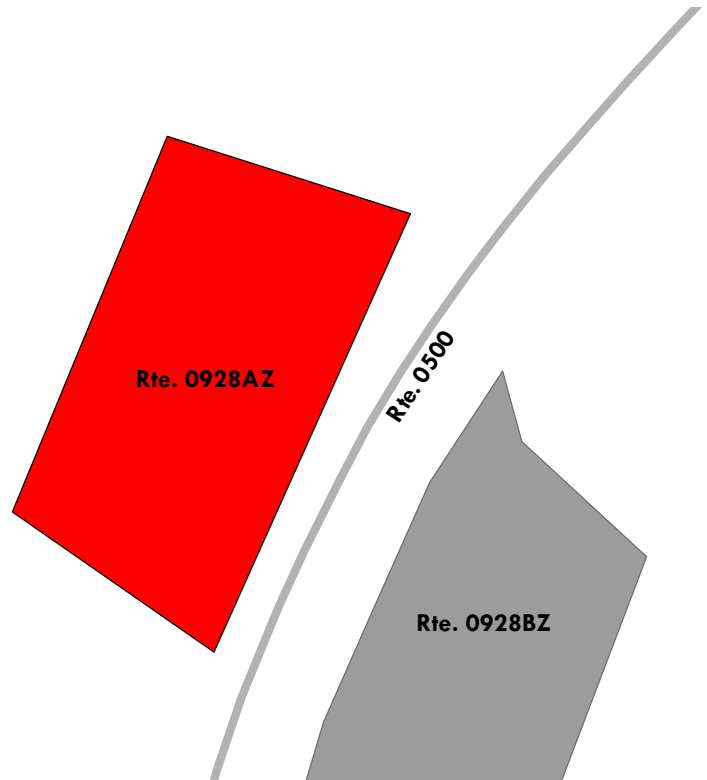
ADJACENT TO ROUTE 0500 (TURKEY RUN CAMPGROUND LOOP)

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	30982	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,433	0.025	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



Prince William Forest Park

ROUTE 0928BZ: TURKEY RUN CAMPGROUND AND LOOP PARKING B

Subcomponent of Route PRWI-0928ZZ

Manual Rating

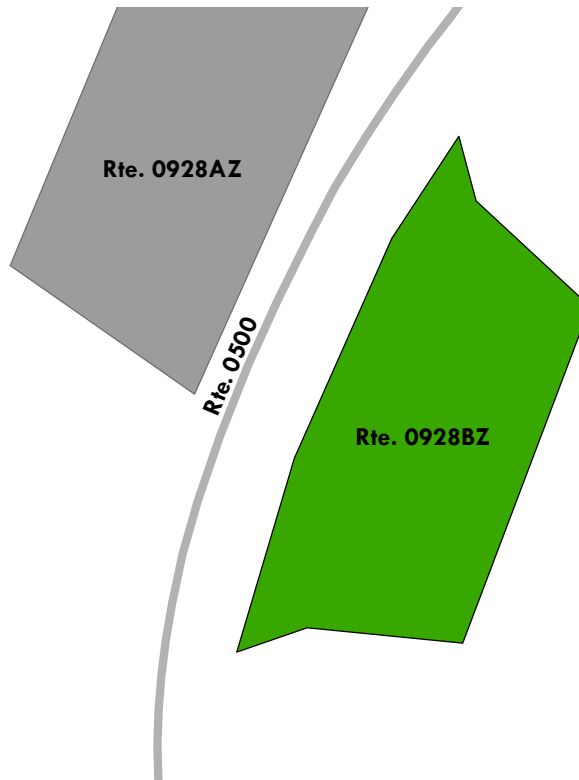
ADJACENT TO ROUTE 0500 (TURKEY RUN CAMPGROUND LOOP)

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	30982	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,466	0.025	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



Prince William Forest Park

ROUTE 0928CZ: TURKEY RUN CAMPGROUND AND LOOP PARKING C

Subcomponent of Route PRWI-0928ZZ

Manual Rating

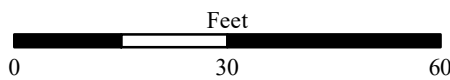
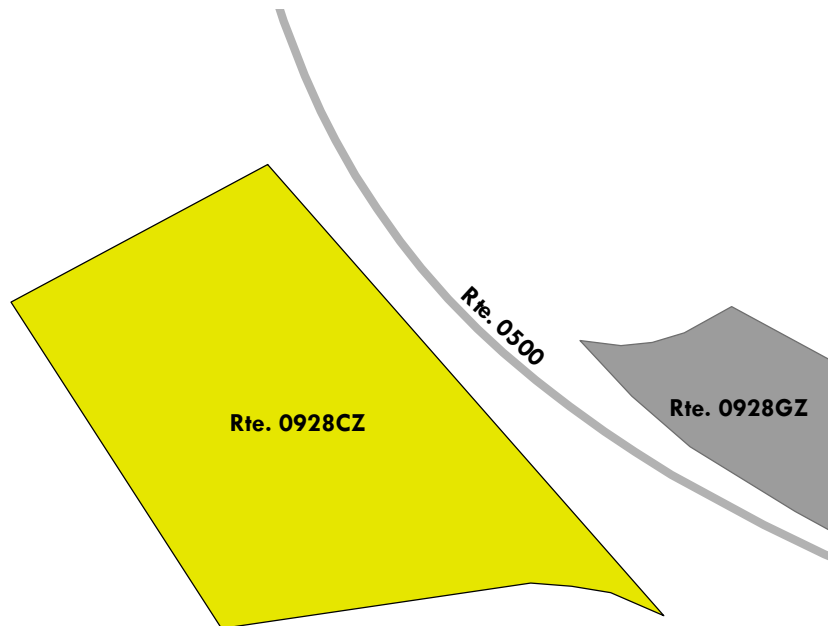
ADJACENT TO ROUTE 0500 (TURKEY RUN CAMPGROUND LOOP)

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	30982	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
2,329	0.04	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



Prince William Forest Park

ROUTE 0928DZ: TURKEY RUN CAMPGROUND AND LOOP PARKING D

Subcomponent of Route PRWI-0928ZZ

Manual Rating

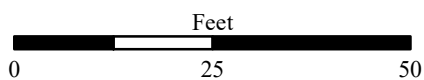
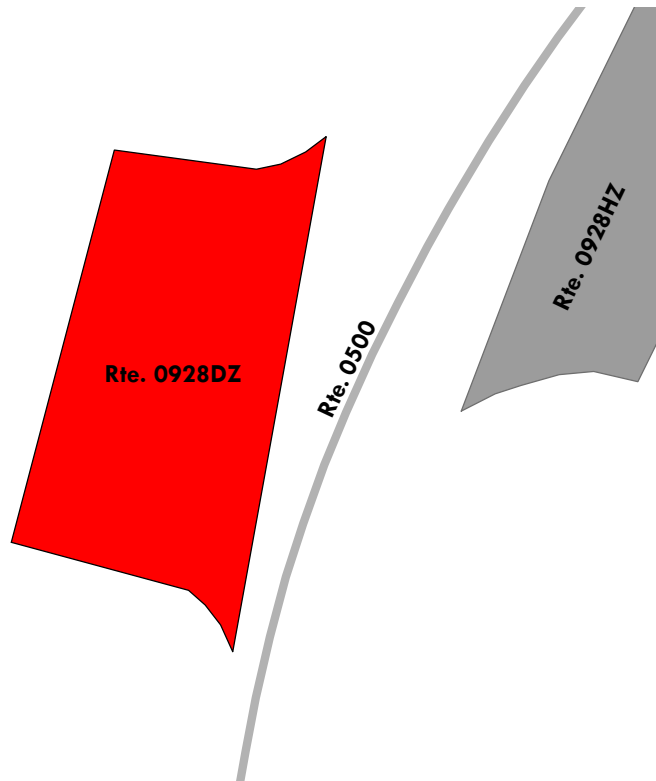
ADJACENT TO ROUTE 0500 (TURKEY RUN CAMPGROUND LOOP)

Inspection Date	FMISS Number	User Access	Surface Type
5/3/2018	30982	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,186	0.02	7	DO NOTHING
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
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See Appendix for definitions and formulas



Prince William Forest Park

ROUTE 0928EZ: TURKEY RUN CAMPGROUND AND LOOP PARKING E

Subcomponent of Route PRWI-0928ZZ

Manual Rating

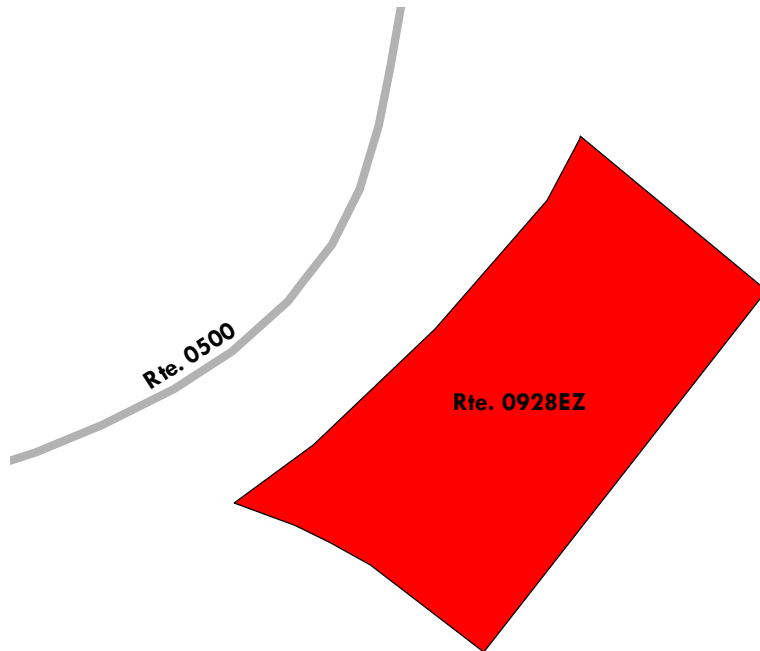
ADJACENT TO ROUTE 0500 (TURKEY RUN CAMPGROUND LOOP)

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	30982	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,238	0.021	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



Prince William Forest Park

ROUTE 0928FZ: TURKEY RUN CAMPGROUND AND LOOP PARKING F

Subcomponent of Route PRWI-0928ZZ

Manual Rating

ADJACENT TO ROUTE 0500 (TURKEY RUN CAMPGROUND LOOP)

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	30982	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,178	0.02	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)

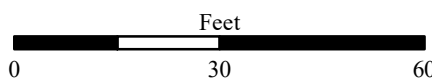
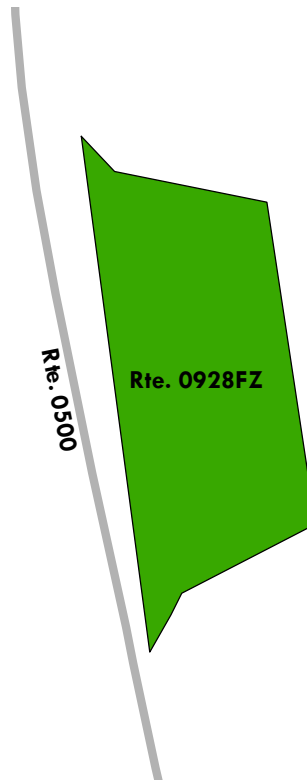
Fair (61- 84)

Good (85 - 94)

Excellent (95 - 100)

Not Rated

See Appendix for definitions and formulas



Prince William Forest Park

ROUTE 0928GZ: TURKEY RUN CAMPGROUND AND LOOP PARKING G

Subcomponent of Route PRWI-0928ZZ

Manual Rating

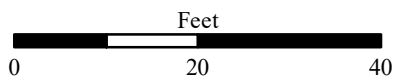
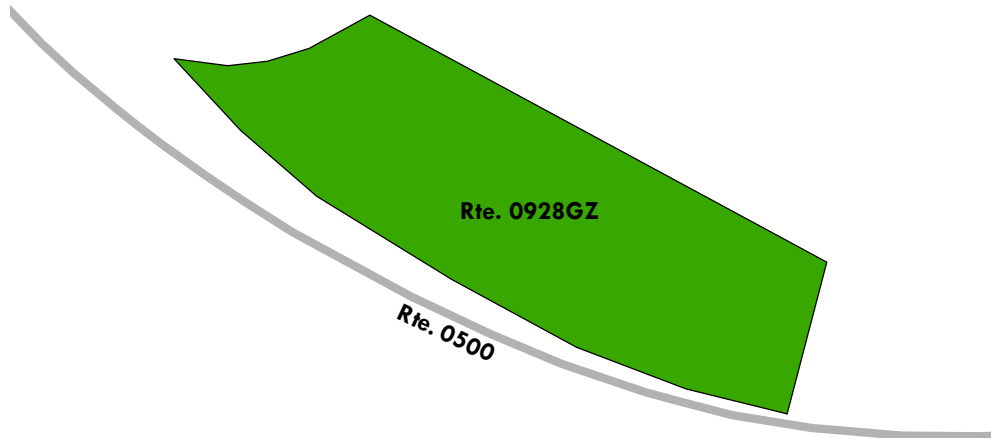
ADJACENT TO ROUTE 0500 (TURKEY RUN CAMPGROUND LOOP)

Inspection Date	FMISS Number	User Access	Surface Type
5/3/2018	30982	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
1,034	0.018	7	LIGHT REPAIR
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



Prince William Forest Park

ROUTE 0928HZ: TURKEY RUN CAMPGROUND AND LOOP PARKING H

Subcomponent of Route PRWI-0928ZZ

Manual Rating

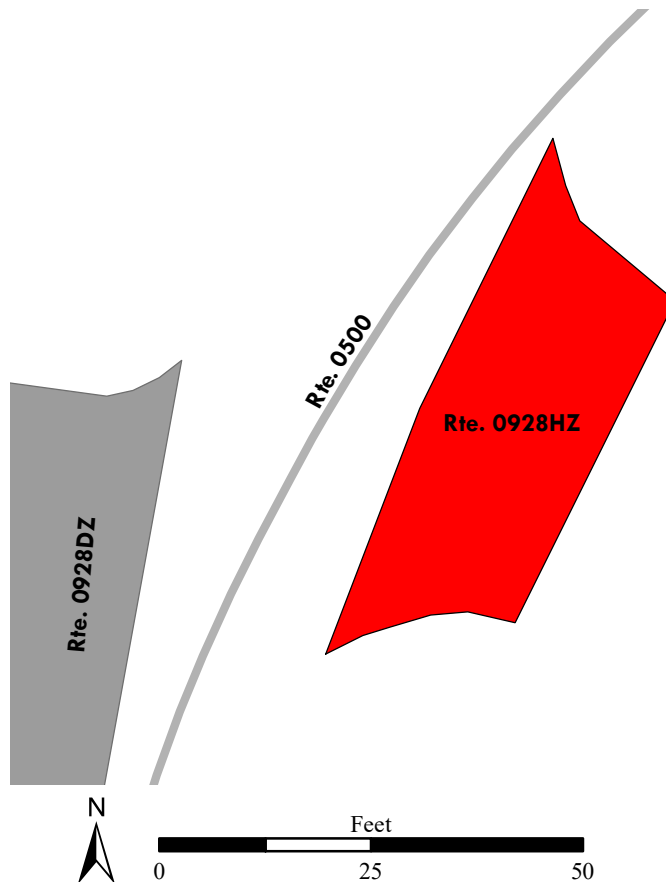
ADJACENT TO ROUTE 0500 (TURKEY RUN CAMPGROUND LOOP)

Inspection Date	FMSS Number	User Access	Surface Type
5/3/2018	30982	PUBLIC	ASPHALT
Area (Sq. Ft.)	Lane Miles (11' Widths)	Curb Reveal (Inches)	Curb Recommendation
830	0.014	7	REPLACE
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
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See Appendix for definitions and formulas



Section 7 Road Milepost Information



Prince William Forest Park



Federal Lands Highway
Road Inventory Program

Road Milepost Information

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

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

Where to find the latest Features Inventories for NPS Parks:

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

Milepost Events Verified in Cycle 6

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

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

GPS Mileage Matching

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

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

Locating Mile Marker Signs

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

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

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

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

PRWI: Route Milepost Log

ROUTE 0010: PARK ENTRANCE ROAD

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 5001 (VIRGINIA STATE HIGHWAY 619)
0.00	0.00	INTERSECTION	L	ROUTE 5001 (VIRGINIA STATE HIGHWAY 619)
0.00	0.00	PARK BOUNDARY	N/A	SOUTH FOREST PARK BOUNDARY
0.05	0.05	INTERSECTION	R	ROUTE 0010 (PARK ENTRANCE ROAD) BYPASS LANE
0.06	0.06	INTERSECTION	R	ROUTE 0901BZ (ENTRANCE KIOSK PARKING B)
0.07	0.07	INTERSECTION	R	ROUTE 0010 (PARK ENTRANCE ROAD) BYPASS LANE
0.07	0.07	INTERSECTION	L	ROUTE 0010 (PARK ENTRANCE ROAD) BYPASS LANE
0.49	0.49	INTERSECTION	L	ROUTE 0011 (SCENIC DRIVE)
0.55	0.55	INTERSECTION	L	ROUTE 0903 (PINE GROVE PICNIC GROUND PARKING)
0.60	0.60	INTERSECTION	L	ROUTE 0010 (PARK ENTRANCE ROAD)
0.60	0.60	INTERSECTION	R	ROUTE 0503 (VISITOR CENTER HOST ROAD)
0.62	0.62	INTERSECTION	R	ROUTE 0015 (TELEGRAPH ROAD)
0.65	0.65	INTERSECTION	R	ROUTE 0900 (VISITOR CENTER PARKING)
0.66	0.66	INTERSECTION	R	ROUTE 0010 (PARK ENTRANCE ROAD)
0.66	0.66	INTERSECTION	L	ROUTE 0010 (PARK ENTRANCE ROAD)

PRWI: Route Milepost Log

ROUTE 0011: SCENIC DRIVE

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0010 (PARK ENTRANCE ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0010 (PARK ENTRANCE ROAD)
0.95	0.95	INTERSECTION	R	ROUTE 0204 (CAMP 3 ACCESS ROAD)
0.97	0.97	INTERSECTION	R	ROUTE 0204 (CAMP 3 ACCESS ROAD) SPUR
0.99	0.99	MILE MARKER	L	MILE MARKER 1
0.99	0.99	MILE MARKER	R	MILE MARKER 1
1.02	1.02	INTERSECTION	R	UNPAVED ROUTE (GATED)
1.20	1.20	INTERSECTION	L	ROUTE 0201 (CARTER DAY CAMP ROAD)
1.22	1.22	INTERSECTION	L	ROUTE 0201 (CARTER DAY CAMP ROAD) SPUR
1.29	1.29	INTERSECTION	L	ROUTE 0926 (CARTER'S POND PARKING)
1.50	1.51	BRIDGE	N/A	3700-001 (SOUTH FORK TIMBER BRIDGE)
1.59	1.59	INTERSECTION	L	ROUTE 0908 (SCENIC DRIVE PARKING A)
1.65	1.65	INTERSECTION	L	ROUTE 0909 (SCENIC DRIVE PARKING B)
1.94	1.94	INTERSECTION	L	ROUTE 0910 (SCENIC DRIVE PARKING C)
2.02	2.02	MILE MARKER	R	MILE MARKER 2
2.03	2.03	MILE MARKER	L	MILE MARKER 2
2.03	2.03	INTERSECTION	L	ROUTE 0011 (SCENIC DRIVE)
2.40	2.40	INTERSECTION	R	ROUTE 0407 (NORTH ORENDA ROAD)
2.40	2.40	INTERSECTION	L	ROUTE 0911 (SCENIC DRIVE PARKING D)
2.45	2.45	INTERSECTION	L	ROUTE 0911 (SCENIC DRIVE PARKING D)
2.45	2.45	ONE-WAY START	N/A	N/A
2.48	2.48	INTERSECTION	R	ROUTE 0406 (PYRITE MINE ROAD)
2.99	2.99	MILE MARKER	R	MILE MARKER 3
3.00	3.00	INTERSECTION	R	ROUTE 0405 (LAKE ONE FIRE ROAD)
3.06	3.06	INTERSECTION	R	ROUTE 0912 (SCENIC DRIVE PARKING E)
3.08	3.08	INTERSECTION	R	ROUTE 0912 (SCENIC DRIVE PARKING E)
3.84	3.84	INTERSECTION	R	ROUTE 0401 (BURMA ROAD)
3.84	3.84	INTERSECTION	L	ROUTE 0410 (TAYLOR FARM FIRE ROAD)
3.99	3.99	MILE MARKER	R	MILE MARKER 4

PRWI: Route Milepost Log

ROUTE 0011: SCENIC DRIVE

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
4.65	4.65	INTERSECTION	R	ROUTE 0913 (SCENIC DRIVE PARKING F)
4.67	4.67	INTERSECTION	R	ROUTE 0913 (SCENIC DRIVE PARKING F)
4.70	4.70	INTERSECTION	L	ROUTE 0411 (OLD BLACK TOP ROAD)
5.01	5.01	MILE MARKER	R	MILE MARKER 5
5.63	5.63	INTERSECTION	R	ROUTE 0013 (OAK RIDGE ROAD)
5.63	5.63	ONE-WAY END	N/A	N/A
5.96	5.96	MILE MARKER	R	MILE MARKER 6
5.96	5.96	MILE MARKER	L	MILE MARKER 6
6.40	6.40	INTERSECTION	R	ROUTE 0412 (MAWAVI FIRE ROAD)
6.43	6.43	INTERSECTION	R	ROUTE 0914 (SCENIC DRIVE PARKING G)
6.95	6.95	MILE MARKER	R	MILE MARKER 7
6.95	6.95	MILE MARKER	L	MILE MARKER 7
7.43	7.43	INTERSECTION	L	ROUTE 0915 (SCENIC DRIVE PARKING H)
7.45	7.45	INTERSECTION	L	ROUTE 0915 (SCENIC DRIVE PARKING H)
7.91	7.91	MILE MARKER	L	MILE MARKER 8
7.91	7.91	MILE MARKER	R	MILE MARKER 8
8.27	8.29	BRIDGE	N/A	3700-003 (SOUTH FORK CONCRETE BRIDGE #2)
8.35	8.35	INTERSECTION	R	ROUTE 0409 (LIMING LANE EXTENDED)
8.45	8.45	INTERSECTION	R	ROUTE 0916 (SCENIC DRIVE PARKING I)
8.56	8.57	BRIDGE	N/A	3700-002 (SOUTH FORK CONCRETE BRIDGE #1)
8.84	8.84	INTERSECTION	R	UNPAVED ROUTE (GATED)
8.91	8.91	INTERSECTION	L	ROUTE 0012 (TURKEY RUN ACCESS ROAD)
8.93	8.93	MILE MARKER	L	MILE MARKER 9
8.93	8.93	MILE MARKER	R	MILE MARKER 9
9.23	9.23	INTERSECTION	R	ROUTE 0011 (SCENIC DRIVE)
9.23	9.23	INTERSECTION	L	ROUTE 0011 (SCENIC DRIVE)

PRWI: Route Milepost Log

ROUTE 0012: TURKEY RUN ACCESS ROAD

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0011 (SCENIC DRIVE)
0.00	0.00	INTERSECTION	L	ROUTE 0011 (SCENIC DRIVE)
0.27	0.27	INTERSECTION	L	ROUTE 0500 (TURKEY RUN CAMPGROUND LOOP)
0.32	0.32	INTERSECTION	L	ROUTE 0500 (TURKEY RUN CAMPGROUND LOOP)
0.35	0.35	INTERSECTION	N/A	ROUTE 0907 (TURKEY RUN EDUCATIONAL CENTER (TREC) PARKING)

ROUTE 0013: OAK RIDGE ROAD

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0011 (SCENIC DRIVE)
0.00	0.00	INTERSECTION	L	ROUTE 0011 (SCENIC DRIVE)
0.61	0.61	INTERSECTION	L	ROUTE 0917AZ (OAK RIDGE CAMPGROUND PARKING A)
0.62	0.62	INTERSECTION	R	ROUTE 0917BZ (OAK RIDGE CAMPGROUND PARKING B)
0.65	0.65	INTERSECTION	R	ROUTE 0501AZ (OAK RIDGE CAMPGROUND LOOP A)
0.65	0.65	INTERSECTION	L	ROUTE 0501AZ (OAK RIDGE CAMPGROUND LOOP A)

ROUTE 0015: TELEGRAPH ROAD

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0010 (PARK ENTRANCE ROAD)
0.00	0.00	INTERSECTION	N/A	ROUTE 0010 (PARK ENTRANCE ROAD)
0.26	0.26	INTERSECTION	N/A	ROUTE 0902 (TELEGRAPH ROAD PICNIC AREA PARKING)

PRWI: Route Milepost Log

ROUTE 0201: CARTER DAY CAMP ROAD

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0011 (SCENIC DRIVE)
0.00	0.00	INTERSECTION	R	ROUTE 0011 (SCENIC DRIVE)
0.01	0.01	INTERSECTION	R	ROUTE 0201 (CARTER DAY CAMP ROAD) SPUR
0.29	0.29	INTERSECTION	R	ROUTE 0201 (CARTER DAY CAMP ROAD) SPUR
0.31	0.31	INTERSECTION	R	ROUTE 0400 (PARK HEADQUARTERS ROAD)
0.31	0.31	INTERSECTION	L	ROUTE 0400 (PARK HEADQUARTERS ROAD)

ROUTE 0400: PARK HEADQUARTERS ROAD

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 5001 (VIRGINIA STATE HIGHWAY 619)
0.00	0.00	INTERSECTION	L	ROUTE 5001 (VIRGINIA STATE HIGHWAY 619)
0.00	0.00	PARK BOUNDARY	N/A	SOUTH FOREST PARK BOUNDARY
0.15	0.15	INTERSECTION	R	ROUTE 0201 (CARTER DAY CAMP ROAD)
0.19	0.19	INTERSECTION	R	ROUTE 0201 (CARTER DAY CAMP ROAD) SPUR
0.29	0.29	INTERSECTION	L	ROUTE 0418 (ADMINISTRATIVE DRIVE)
0.44	0.44	INTERSECTION	R	ROUTE 0905 (MAINTENANCE AREA EMPLOYEE PARKING)
0.50	0.50	INTERSECTION	N/A	ROUTE 0906 (MAINTENANCE AREA PARKING)

PRWI: Route Milepost Log

ROUTE 0418: ADMINISTRATIVE DRIVE

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0400 (PARK HEADQUARTERS ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0400 (PARK HEADQUARTERS ROAD)
0.12	0.12	INTERSECTION	L	ROUTE 0418 (ADMINISTRATIVE DRIVE)
0.15	0.15	INTERSECTION	R	ROUTE 0904 (ADMINISTRATIVE DRIVE PARKING)
0.16	0.16	INTERSECTION	R	ROUTE 0418 (ADMINISTRATIVE DRIVE)
0.16	0.16	INTERSECTION	L	ROUTE 0418 (ADMINISTRATIVE DRIVE)

ROUTE 0500: TURKEY RUN CAMPGROUND LOOP

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	L	ROUTE 0012 (TURKEY RUN ACCESS ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0012 (TURKEY RUN ACCESS ROAD)
0.03	0.03	INTERSECTION	L	ROUTE 0928BZ (TURKEY RUN CAMPGROUND AND LOOP PARKING B)
0.03	0.03	INTERSECTION	R	ROUTE 0928AZ (TURKEY RUN CAMPGROUND AND LOOP PARKING A)
0.05	0.05	INTERSECTION	L	ROUTE 0928FZ (TURKEY RUN CAMPGROUND AND LOOP PARKING F)
0.08	0.08	INTERSECTION	R	ROUTE 0928CZ (TURKEY RUN CAMPGROUND AND LOOP PARKING C)
0.08	0.08	INTERSECTION	R	UNPAVED ROUTE
0.09	0.09	INTERSECTION	L	ROUTE 0928GZ (TURKEY RUN CAMPGROUND AND LOOP PARKING G)
0.11	0.11	INTERSECTION	R	ROUTE 0928EZ (TURKEY RUN CAMPGROUND AND LOOP PARKING E)
0.13	0.13	INTERSECTION	L	ROUTE 0928DZ (TURKEY RUN CAMPGROUND AND LOOP PARKING D)
0.13	0.13	INTERSECTION	R	ROUTE 0928HZ (TURKEY RUN CAMPGROUND AND LOOP PARKING H)
0.15	0.15	INTERSECTION	R	ROUTE 0012 (TURKEY RUN ACCESS ROAD)
0.15	0.15	ONE-WAY END	N/A	N/A
0.15	0.15	INTERSECTION	L	ROUTE 0012 (TURKEY RUN ACCESS ROAD)

Data Collected on 6/2018

PRWI: Route Milepost Log

ROUTE 0501AZ: OAK RIDGE CAMPGROUND LOOP A

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0501AZ (OAK RIDGE CAMPGROUND LOOP A)
0.00	0.00	INTERSECTION	N/A	ROUTE 0013 (OAK RIDGE ROAD)
0.00	0.00	ONE-WAY START	N/A	N/A
0.20	0.20	INTERSECTION	R	ROUTE 0501BZ (OAK RIDGE CAMPGROUND LOOP B)
0.24	0.24	INTERSECTION	R	ROUTE 0501BZ (OAK RIDGE CAMPGROUND LOOP B)
0.41	0.41	INTERSECTION	L	ROUTE 0501AZ (OAK RIDGE CAMPGROUND LOOP A)
0.41	0.41	ONE-WAY END	N/A	N/A
0.41	0.41	INTERSECTION	R	ROUTE 0013 (OAK RIDGE ROAD)

ROUTE 0501BZ: OAK RIDGE CAMPGROUND LOOP B

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	L	ROUTE 0501AZ (OAK RIDGE CAMPGROUND LOOP A)
0.00	0.00	INTERSECTION	N/A	ROUTE 0501AZ (OAK RIDGE CAMPGROUND LOOP A)
0.10	0.10	INTERSECTION	R	ROUTE 0501CZ (OAK RIDGE CAMPGROUND LOOP C)
0.14	0.14	INTERSECTION	R	ROUTE 0924 (OAK RIDGE B LOOP PARKING)
0.15	0.15	INTERSECTION	R	ROUTE 0501CZ (OAK RIDGE CAMPGROUND LOOP C)
0.27	0.27	INTERSECTION	N/A	ROUTE 0501AZ (OAK RIDGE CAMPGROUND LOOP A)
0.27	0.27	ONE-WAY END	N/A	N/A
0.27	0.27	INTERSECTION	L	ROUTE 0501AZ (OAK RIDGE CAMPGROUND LOOP A)

PRWI: Route Milepost Log

ROUTE 0501CZ: OAK RIDGE CAMPGROUND LOOP C

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 0501BZ (OAK RIDGE CAMPGROUND LOOP B)
0.00	0.00	INTERSECTION	N/A	ROUTE 0501BZ (OAK RIDGE CAMPGROUND LOOP B)
0.00	0.00	ONE-WAY START	N/A	N/A
0.37	0.37	INTERSECTION	L	ROUTE 0501BZ (OAK RIDGE CAMPGROUND LOOP B)
0.37	0.37	INTERSECTION	N/A	ROUTE 0501BZ (OAK RIDGE CAMPGROUND LOOP B)
0.37	0.37	ONE-WAY END	N/A	N/A

PRWI: Route Milepost Log

ROUTE 0502AZ: TRAVEL TRAILER VILLAGE LOOP ROAD A

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

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	PARK BOUNDARY	N/A	NORTH FOREST PARK BOUNDARY
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	R	ROUTE 5000 (VIRGINIA STATE HIGHWAY 234)
0.00	0.00	INTERSECTION	L	ROUTE 5000 (VIRGINIA STATE HIGHWAY 234)
0.02	0.02	INTERSECTION	L	ROUTE 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A) CUT-THRU
0.04	0.04	INTERSECTION	L	ROUTE 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A) CUT-THRU
0.17	0.17	INTERSECTION	L	ROUTE 0502BZ (TRAVEL TRAILER VILLAGE LOOP ROAD B)
0.19	0.19	INTERSECTION	L	ROUTE 0502CZ (TRAVEL TRAILER VILLAGE LOOP ROAD C)
0.22	0.22	INTERSECTION	L	ROUTE 0502DZ (TRAVEL TRAILER VILLAGE LOOP ROAD D)
0.25	0.25	INTERSECTION	L	ROUTE 0502EZ (TRAVEL TRAILER VILLAGE LOOP ROAD E)
0.44	0.44	INTERSECTION	L	ROUTE 0502EZ (TRAVEL TRAILER VILLAGE LOOP ROAD E)
0.46	0.46	INTERSECTION	L	ROUTE 0502DZ (TRAVEL TRAILER VILLAGE LOOP ROAD D)
0.48	0.48	INTERSECTION	L	ROUTE 0502CZ (TRAVEL TRAILER VILLAGE LOOP ROAD C)
0.49	0.49	INTERSECTION	L	ROUTE 0502BZ (TRAVEL TRAILER VILLAGE LOOP ROAD B)
0.51	0.51	INTERSECTION	L	ROUTE 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A) CUT-THRU
0.54	0.54	INTERSECTION	L	ROUTE 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A) CUT-THRU
0.55	0.55	INTERSECTION	R	ROUTE 5000 (VIRGINIA STATE HIGHWAY 234)
0.55	0.55	INTERSECTION	L	ROUTE 5000 (VIRGINIA STATE HIGHWAY 234)
0.55	0.55	ONE-WAY END	N/A	N/A

PRWI: Route Milepost Log

ROUTE 0502BZ: TRAVEL TRAILER VILLAGE LOOP ROAD B

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 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A)
0.00	0.00	INTERSECTION	R	ROUTE 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A)
0.00	0.00	ONE-WAY START	N/A	N/A
0.14	0.14	ONE-WAY END	N/A	N/A
0.14	0.14	INTERSECTION	L	ROUTE 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A)
0.14	0.14	INTERSECTION	R	ROUTE 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A)

ROUTE 0502CZ: TRAVEL TRAILER VILLAGE LOOP ROAD C

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 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A)
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	L	ROUTE 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A)
0.15	0.15	INTERSECTION	L	ROUTE 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A)
0.15	0.15	INTERSECTION	R	ROUTE 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A)
0.15	0.15	ONE-WAY END	N/A	N/A

ROUTE 0502DZ: TRAVEL TRAILER VILLAGE LOOP ROAD D

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 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A)
0.00	0.00	INTERSECTION	L	ROUTE 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A)
0.00	0.00	ONE-WAY START	N/A	N/A
0.16	0.16	INTERSECTION	L	ROUTE 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A)
0.16	0.16	INTERSECTION	R	ROUTE 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A)
0.16	0.16	ONE-WAY END	N/A	N/A

Data Collected on 6/2018

PRWI: Route Milepost Log

ROUTE 0502EZ: TRAVEL TRAILER VILLAGE LOOP ROAD E

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 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A)
0.00	0.00	INTERSECTION	R	ROUTE 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A)
0.00	0.00	ONE-WAY START	N/A	N/A
0.16	0.16	INTERSECTION	L	ROUTE 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A)
0.16	0.16	INTERSECTION	R	ROUTE 0502AZ (TRAVEL TRAILER VILLAGE LOOP ROAD A)
0.16	0.16	ONE-WAY END	N/A	N/A

Section 8 Appendix



Prince William Forest Park



**Federal Lands Highway
Road Inventory Program**

Improvements to the RIP Index Equations and Determination of PCR

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

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

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

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

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

Description of the Rating System

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

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

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

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

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

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

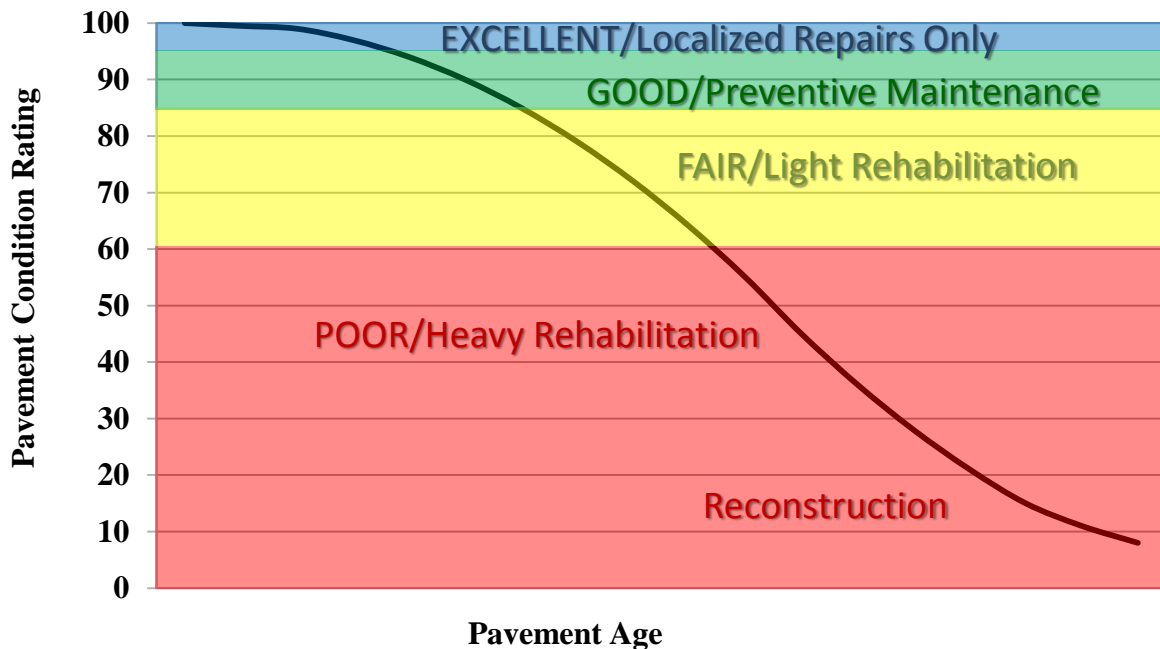
Explanation of the Condition Descriptions

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

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

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

Condition Categories and Treatments



Description of Pavement Treatment Types

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

Appendix A

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

Surface Distresses Identified by the Data Collection Vehicle

Surface Condition Rating – SCR

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

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

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

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

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

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

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

Roughness Condition Index - RCI

Additional condition data measured by DCV (lasers and accelerometers)

- Roughness (IRI)

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

Pavement Condition Rating - PCR

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

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

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

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

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

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

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

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

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

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

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

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

Table 1. Distress summary

Alligator Cracking

Description:

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

Severity Levels:

LOW

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

MEDIUM

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

HIGH

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

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

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

Table 2. Alligator Crack Severity Levels

Longitudinal Cracking

Description:

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

Severity Levels:

LOW

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

MEDIUM

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

HIGH

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

Transverse Cracking

Description:

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

Severity Levels:

LOW

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

MEDIUM

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

HIGH

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

Patching and Potholes

Description:

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

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

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

Speed bumps should not be rated as patches

Severity Levels:

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

RUTTING

Description:

Rutting is a longitudinal surface depression in the wheelpath.

Severity Levels:

LOW

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

MEDIUM

Ruts with a measured depth of 0.50 inches to 0.99 inches

HIGH

Ruts with a measured depth greater than 1.00 inch

ROUGHNESS

Description:

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

Severity Levels:

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

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

Table 3. International Roughness Index

Roughness Collection Parameters

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

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

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

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

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

Index Formulas

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

Alligator Crack Index

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

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

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

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 <= 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