national park service

The Road Inventory
of
Colonial National Historical Park
COLO - 4290
Cycle 4

Prepared By:
Federal Highway Administration
Road Inventory Program
Cycle 4

DEPARTMENT OF TRANSPORTATION
UNITED STATES OF AMERICA

Colonial National Historical Park
in
Virginia

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Colonial National Historical Park

Section 1
Introduction

INTRODUCTION

Background: In 1976, the National Park Service (NPS) and the Federal Highway Administration (FHWA) entered into a Memorandum of Agreement (MOA), establishing the Road Inventory Program (RIP). In 1980, the NPS and the FHWA terminated the 1976 MOA and entered into a new MOA that provided for the completion of the initial phase of the RIP. The purpose of the RIP, per the 1980 MOA was to maintain and update RIP data in order to develop long-range costs and programs to bring National Park Service (NPS) roads up to, or to maintain, designated standards, and establish a maintenance management program.

The FHWA's Federal Lands Highway (FLH) was assigned the task of identifying condition deficiencies and corrective priorities along with associated corrective costs, inventorying maintenance features (e.g., culverts, signs, guardrail, etc.), summarizing the data and findings in a report and providing a photographic record of the road system.

The FLH completed the initial phase of the RIP in the early 1980's. As a result of this effort, each park received a RIP book, also known as the "Brown Book," that included the information collected during this initial RIP phase.

In an effort to maintain and update the RIP data, a cyclical data collection and reporting process was reestablished in the 1990's. The FLH completed two cycles of RIP data collection between 1994 and 2001. Cycle 1 was collected in 44 large parks from 1994 to 1996. This data was found to be unusable for comparison to future cycles. Cycle 2 data was collected from March 1997 to January 2001 in 79 large parks and 5 small parks containing 4,874 route miles. Each park received a copy of a Cycle 2 RIP Report, also known as the "Blue Book". Cycle 3 was completed from 2001 through 2004, and included data collection in all parks that contain pavement.

Since 1984, the RIP Program has been funded through the Federal Lands Highway Program's Park Roads and Parkways (PRP) Program. Currently, the NPS Washington Headquarters' Park Facility Management Division is responsible for coordinating the RIP program with the FLH. The FLH Washington office coordinates policy and prepares national reports and needs assessment studies for congress.

In 1998, the Transportation Equity Act for the 21st Century (TEA-21) amended Title 23 U.S.C., and inserted Section 204(a)(6) which requires the Federal Highway Administration and the National Park Service, to develop, by rule, a Pavement Management System (PMS) for the park roads and parkways serving the National Park System. As a result of the requirements in TEA-21, the NPS and FHWA are in the process of developing a PMS. The PMS will assist the decision-makers in effectively spending limited PRP Program funds. The PMS

will provide information for planning and programming road maintenance, rehabilitation, and reconstruction activities. RIP data will provide the basic information for this system.

Key information included in the RIP is the mileage inventory and condition assessments accomplished by the RIP Program. The mileage and condition data are used in the current allocation formula of PRP Program funds.

RIP Cycle 4: Cycle 4 data collection was initiated in spring 2006, where 86 large parks, consisting of 5,553 route miles and 6,232 paved parking areas, were selected as a representative sample of the entire NPS paved road network. Cycle 4 is scheduled for completion in spring 2009 and will serve the PMS in further development of its pavement preservation techniques.

In the Cycle 4 Reports, a general condition rating of excellent, good, fair and poor is ascribed to each one-mile section of paved roadway, and to each paved parking area. This condition rating system provides a realistic means of assessing the general funding needs for road improvements. Along with these descriptive condition ratings, a numerical rating between 0 and 100 is ascribed to each mile of road and to each parking area. This numerical rating is called a Pavement Condition Rating (PCR). The PCR rating system is described in Section 10 of this report.

All of the fieldwork required for obtaining inventory, condition, and maintenance feature information is coordinated with each park and the regional offices to ensure that the information in the RIP reports is accurate.

The FLH is responsible for all the data presented in this report. Anyone having questions or comments regarding the contents of this report is encouraged to contact the FHWA RIP Coordinator. It is our aim to provide exceptional customer satisfaction in our delivery of the RIP program.

The FHWA RIP Team

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Colonial National Historical Park

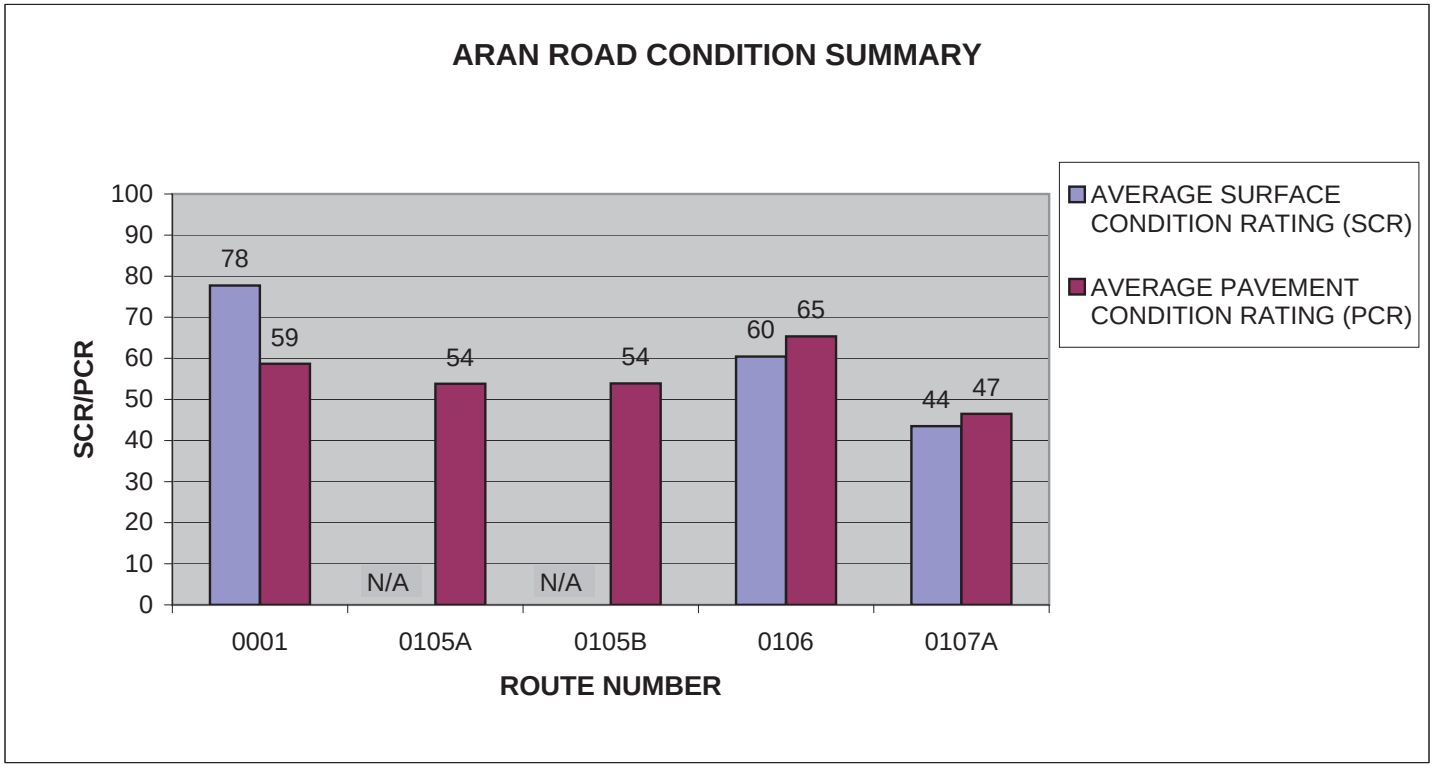
Section 2
Park Summary Information

COLO: PAVED ROUTE MILES AND PERCENTAGES BY FUNCTIONAL CLASS AND PCR

F.C.	Pavement Condition Rating (PCR)								TOTAL MILES
	Poor (<=60)		Fair (61-84)		Good (85-94)		Excellent (95-100)		
	MILES	%	MILES	%	MILES	%	MILES	%	
1	10.59	25.22%	12.52	29.82%	1.64	3.91%	0.19	0.45%	**24.94**
2	0.21	0.50%							**0.21**
3	1.37	3.26%	10.85	25.84%	4.10	9.76%	0.52	1.24%	**16.84**
4									
5									
6									
7									
8									
Totals	**12.17**	**28.98%**	**23.37**	**55.66%**	**5.74**	**13.67%**	**0.71**	**1.69%**	**41.99**

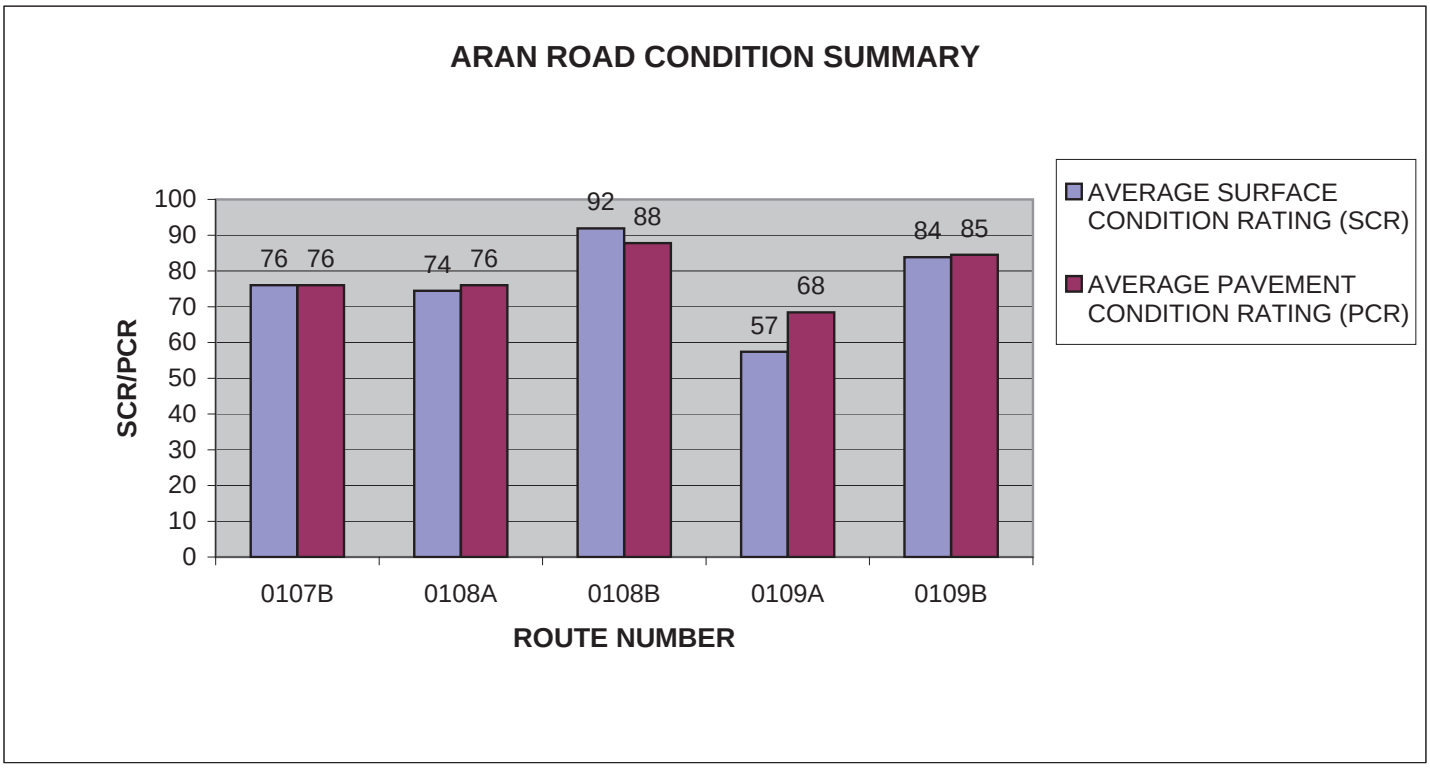
COLO: ARAN ROAD CONDITION SUMMARY

ROUTE NUMBER	ROUTE NAME	FUNCT CLASS	ROUTE LENGTH	SURFACE TYPE	AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0001	COLONIAL PARKWAY	1	23.11	CONCRETE	78	59
0105A	US ROUTE 17 ACCESS ROAD A	1	0.18	CONCRETE	N/A	54
0105B	US ROUTE 17 ACCESS ROAD B	1	0.18	CONCRETE	N/A	54
0106	FUSILIER'S ROAD	1	0.35	ASPHALT	60	65
0107A	CHEATHAM ANNEX ACCESS ROAD A	1	0.04	ASPHALT	44	47



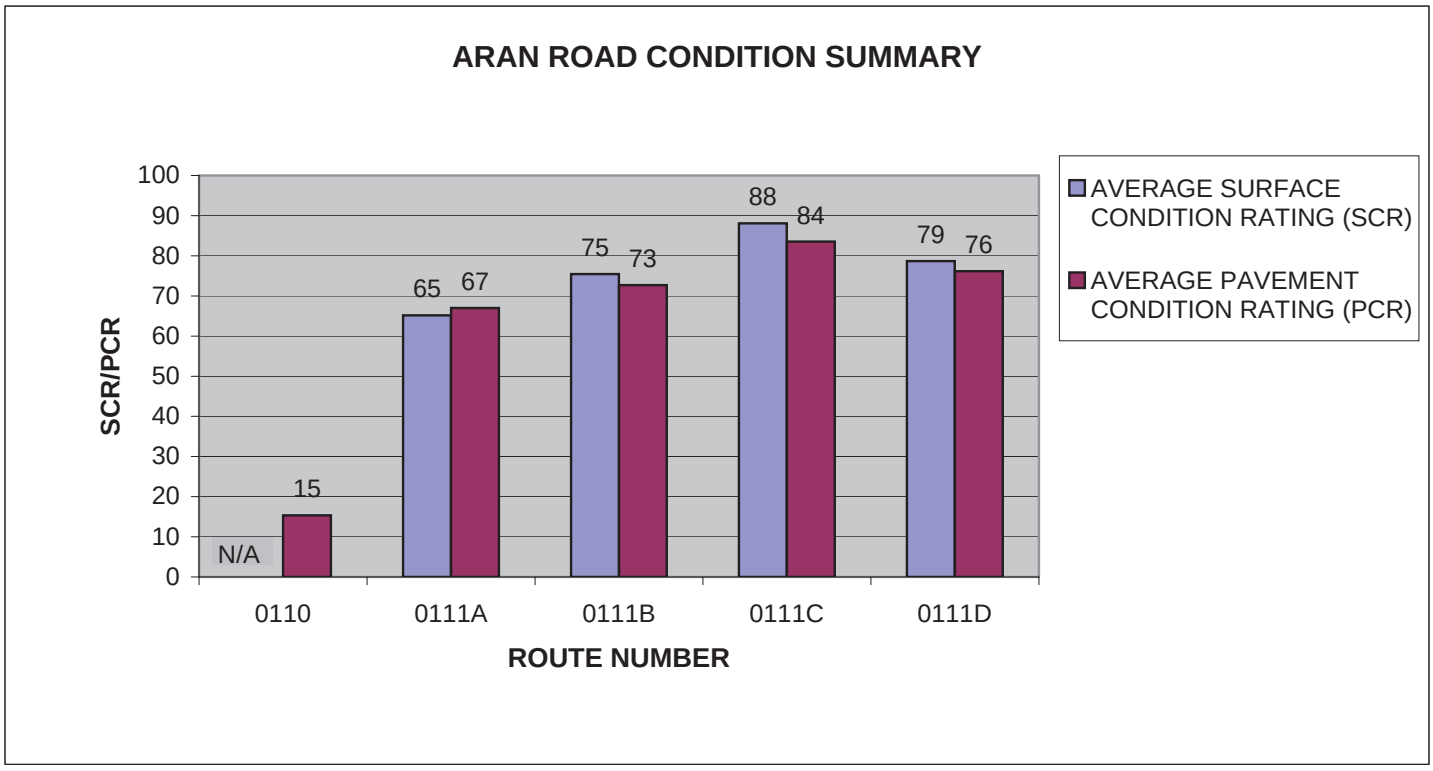
COLO: ARAN ROAD CONDITION SUMMARY

ROUTE NUMBER	ROUTE NAME	FUNCT CLASS	ROUTE LENGTH	SURFACE TYPE	AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0107B	CHEATHAM ANNEX ACCESS ROAD B	1	0.12	ASPHALT	76	76
0108A	QUEENS LAKE ACCESS A	1	0.14	ASPHALT	74	76
0108B	QUEENS LAKE ACCESS B	1	0.13	ASPHALT	92	88
0109A	PARKWAY DRIVE ACCESS ROAD A	1	0.1	ASPHALT	57	68
0109B	PARKWAY DRIVE ACCESS ROAD B	1	0.12	ASPHALT	84	85



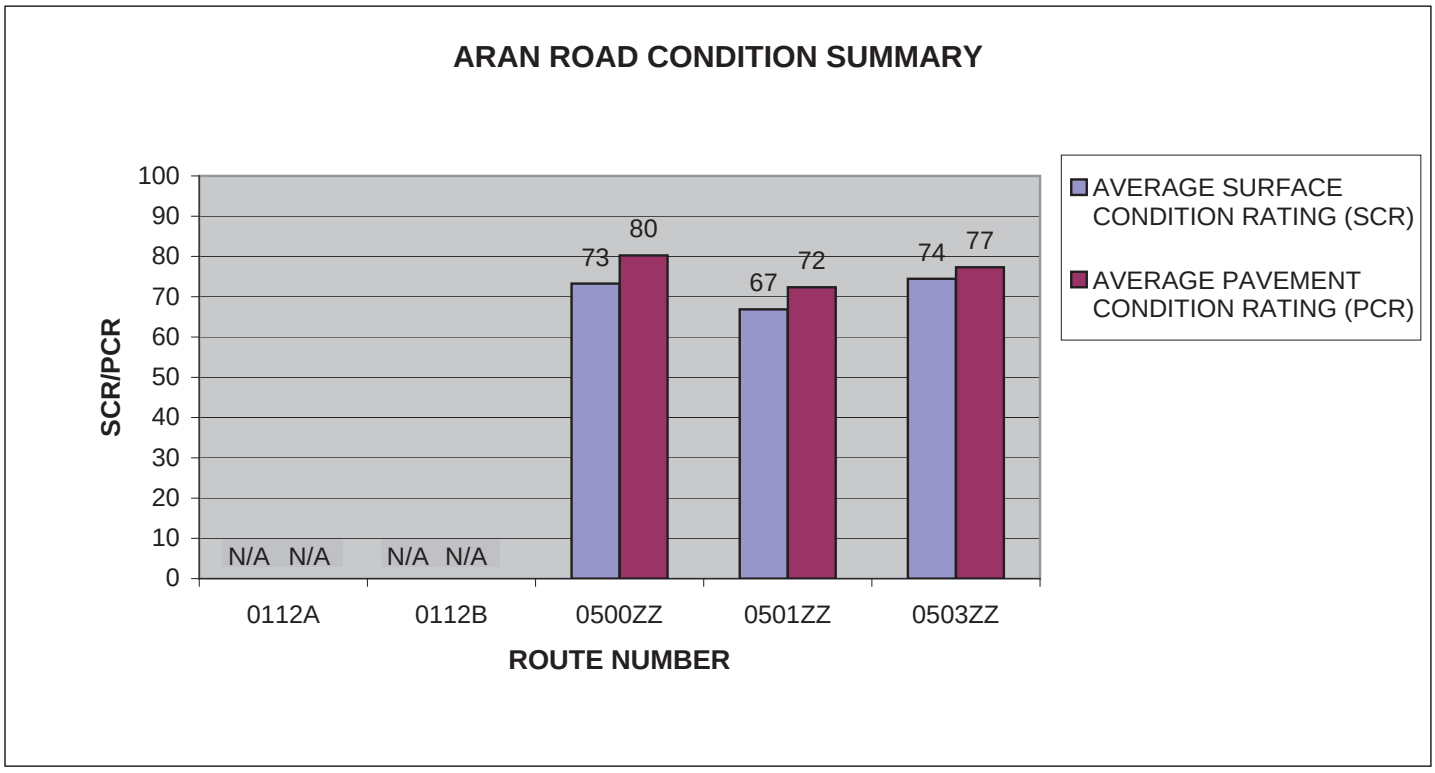
COLO: ARAN ROAD CONDITION SUMMARY

ROUTE NUMBER	ROUTE NAME	FUNCT CLASS	ROUTE LENGTH	SURFACE TYPE	AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0110	TAZEWELL HALL ACCESS ROAD	2	0.06	CONCRETE	N/A	15
0111A	STATE ROUTE 199 INTERCHANGE A	1	0.11	ASPHALT	65	67
0111B	STATE ROUTE 199 INTERCHANGE B	1	0.13	ASPHALT	75	73
0111C	STATE ROUTE 199 INTERCHANGE C	1	0.11	ASPHALT	88	84
0111D	STATE ROUTE 199 INTERCHANGE D	1	0.12	ASPHALT	79	76



COLO: ARAN ROAD CONDITION SUMMARY

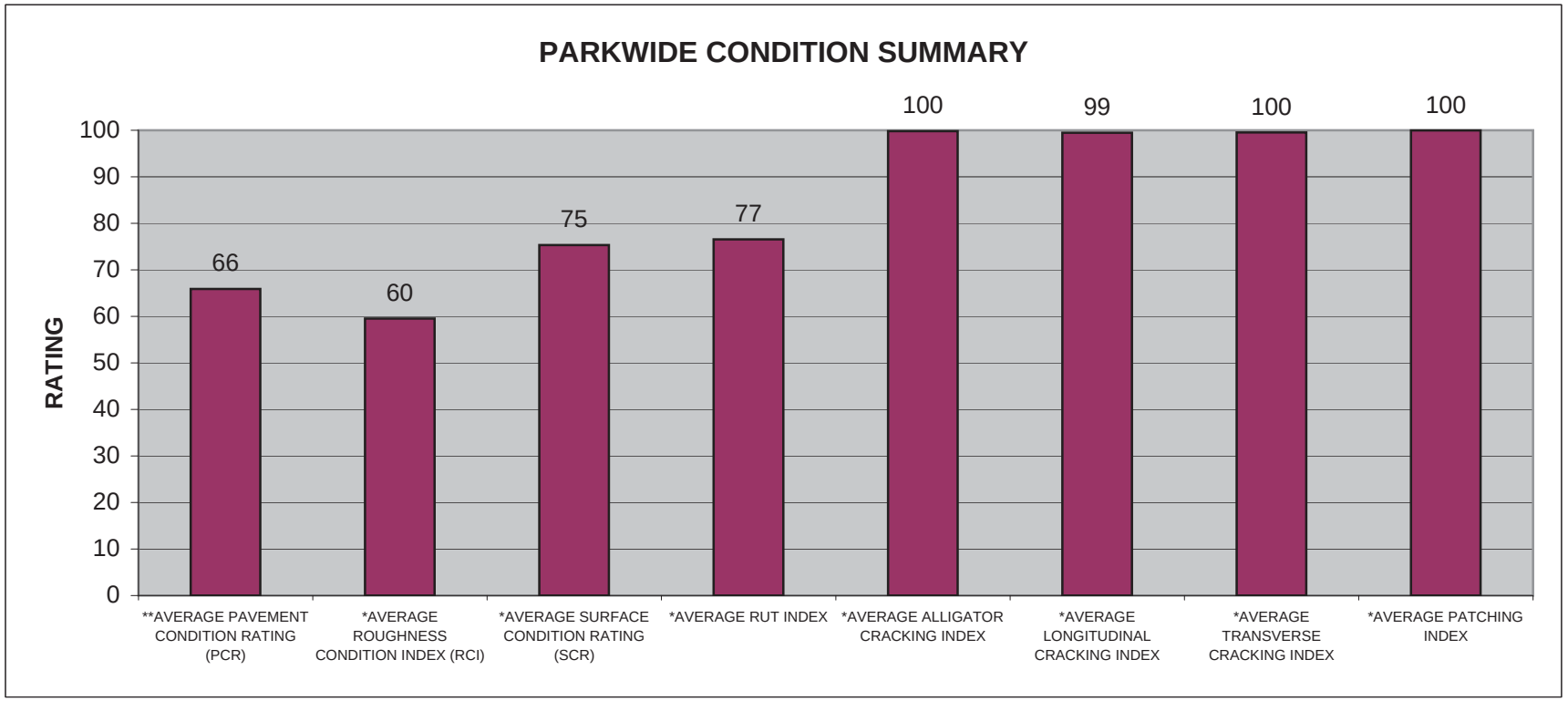
ROUTE NUMBER	ROUTE NAME	FUNCT CLASS	ROUTE LENGTH	SURFACE TYPE	AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0112A	NEWPORT AVENUE ACCESS ROAD A	2	0.06	CONCRETE	N/A	N/A
0112B	NEWPORT AVENUE ACCESS ROAD B	2	0.09	CONCRETE	N/A	N/A
0500ZZ	YORKTOWN WEST TOUR ROUTES	3	9.24	ASPHALT	73	80
0501ZZ	ISLAND DRIVE ROUTES	3	4.82	ASPHALT	67	72
0503ZZ	YORKTOWN EAST TOUR ROUTES	3	2.78	ASPHALT	74	77



COLO: PARKWIDE CONDITION SUMMARY

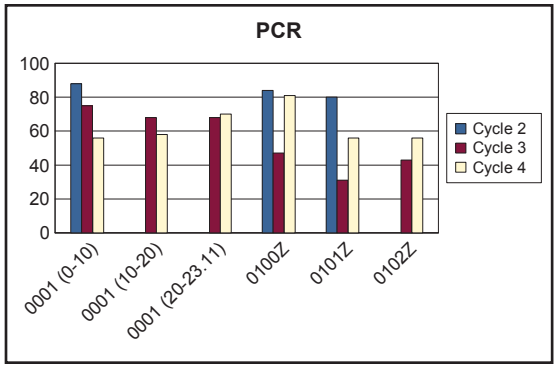
**AVERAGE PAVEMENT CONDITION RATING (PCR)	*AVERAGE ROUGHNESS CONDITION INDEX (RCI)	*AVERAGE SURFACE CONDITION RATING (SCR)	*AVERAGE RUT INDEX	*AVERAGE ALLIGATOR CRACKING INDEX	*AVERAGE LONGITUDINAL CRACKING INDEX	*AVERAGE TRANSVERSE CRACKING INDEX	*AVERAGE PATCHING INDEX
66	60	75	77	100	99	100	100

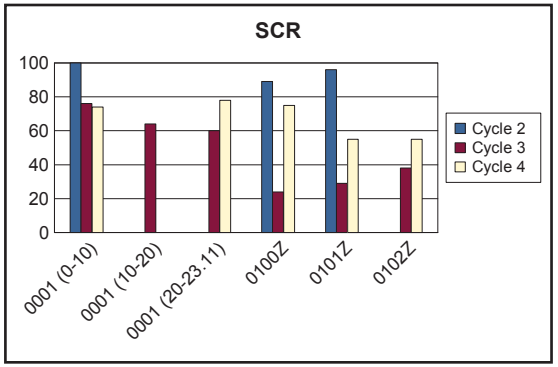
*** PCR Index is based on all ARAN-driven roads, parking areas, and manually rated routes.*
** Index values are based on ARAN-driven roads only.*

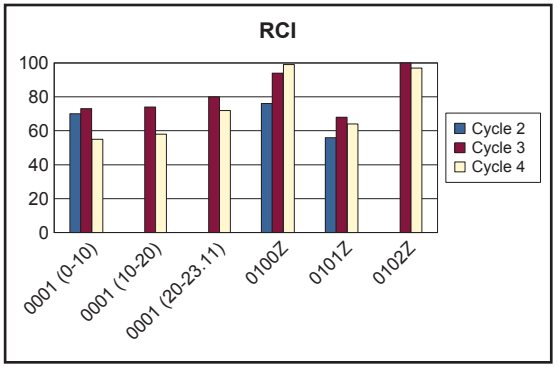


COLO CYCLE 2 vs CYCLE 3 vs CYCLE 4 CONDITION COMPARISONS

ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	PAVEMENT CONDITION RATING (PCR)				SURFACE CONDITION RATING (SCR)				ROUGHNESS CONDITION INDEX (RCI)				COMMENT
				CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	
0001	10.00	0.00	10.00	88	75	56	-25%	100	76	74	-3%	70	73	55	-25%	
0001	10.00	10.00	20.00	N/A	68	58	-15%	N/A	64	N/A	N/A	N/A	74	58	-22%	No SCR collected in C4 for this portion of Route 0001.
0001	10.00	20.00	23.11	N/A	68	70	+3%	N/A	60	78	+30%	N/A	80	72	-10%	
0100Z	0.30	0.00	0.30	84	47	81	+72%	89	24	75	+212%	76	94	99	+5%	Route 0100Z was Route 0100 in Cycle 2 and Cycle 3.
0101Z	0.20	0.00	0.20	80	31	56	+81%	96	29	55	+90%	56	68	64	-6%	Route 0101Z was Route 0101 in Cycle 2 and Cycle 3.
0102Z	0.07	0.00	0.07	N/A	43	56	+30%	N/A	38	55	+45%	N/A	100	97	-3%	Route 0102Z was Route 0102 in Cycle 2 and Cycle 3.



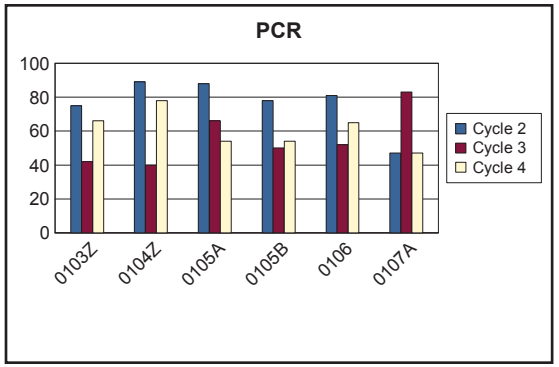


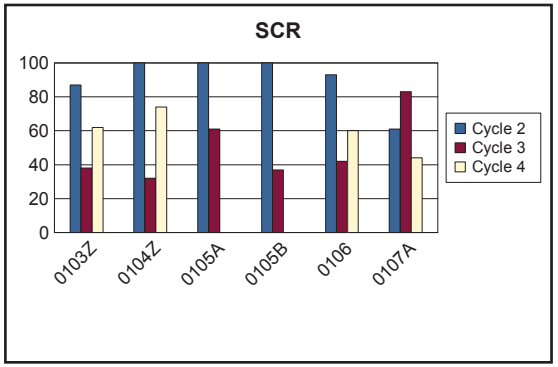


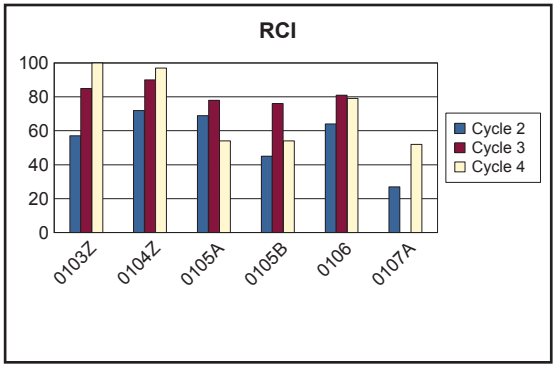
Cycle 4 Data Collected 4/15/2009 - 4/17/2009

COLO CYCLE 2 vs CYCLE 3 vs CYCLE 4 CONDITION COMPARISONS

				PAVEMENT CONDITION RATING (PCR)				SURFACE CONDITION RATING (SCR)				ROUGHNESS CONDITION INDEX (RCI)				
ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	COMMENT
0103Z	0.22	0.00	0.22	75	42	66	+57%	87	38	62	+63%	57	85	100	+18%	Route 0103Z was Route 0103 in Cycle 2 and Cycle 3.
0104Z	0.53	0.00	0.53	89	40	78	+95%	100	32	74	+131%	72	90	97	+8%	Route 0104Z was Route 0104 in Cycle 2 and Cycle 3.
0105A	0.19	0.00	0.19	88	66	54	-18%	100	61	N/A	N/A	69	78	54	-31%	No SCR data available in Cycle 4.
0105B	0.20	0.00	0.20	78	50	54	+8%	100	37	N/A	N/A	45	76	54	-29%	No SCR data available in Cycle 4.
0106	0.35	0.00	0.35	81	52	65	+25%	93	42	60	+43%	64	81	79	-2%	
0107A	0.05	0.00	0.05	47	83	47	-43%	61	83	44	-47%	27	N/A	52	N/A	No RCI data available in Cycle 3.



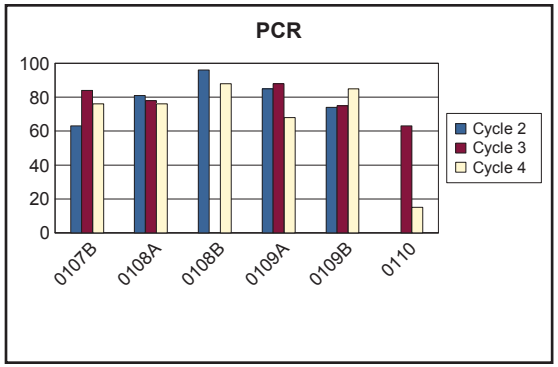


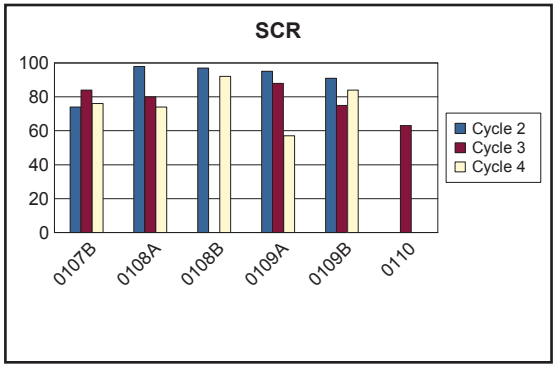


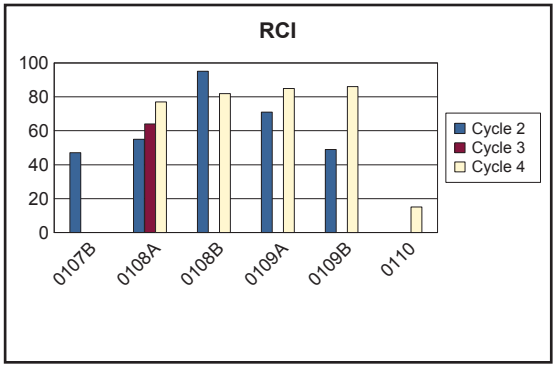
Cycle 4 Data Collected 4/15/2009 - 4/17/2009

COLO CYCLE 2 vs CYCLE 3 vs CYCLE 4 CONDITION COMPARISONS

ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	PAVEMENT CONDITION RATING (PCR)				SURFACE CONDITION RATING (SCR)				ROUGHNESS CONDITION INDEX (RCI)				COMMENT
				CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	
0107B	0.12	0.00	0.12	63	84	76	-10%	74	84	76	-10%	47	N/A	N/A	N/A	No RCI data available in Cycle 3 and Cycle 4.
0108A	0.14	0.00	0.14	81	78	76	-3%	98	80	74	-7%	55	64	77	+20%	
0108B	0.13	0.00	0.13	96	N/A	88	N/A	97	N/A	92	N/A	95	N/A	82	N/A	Route not collected in Cycle 3.
0109A	0.11	0.00	0.11	85	88	68	-23%	95	88	57	-35%	71	N/A	85	N/A	No RCI data available in Cycle 3.
0109B	0.12	0.00	0.12	74	75	85	+13%	91	75	84	+12%	49	N/A	86	N/A	No RCI data available in Cycle 3.
0110	0.06	0.00	0.06	N/A	63	15	-76%	N/A	63	N/A	N/A	N/A	N/A	15	N/A	No SCR data in Cycle 4; no RCI data in C2 and C3.



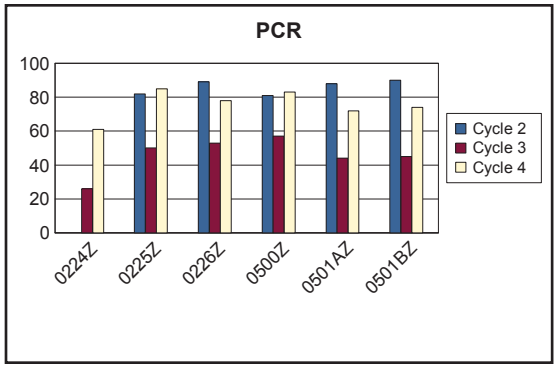


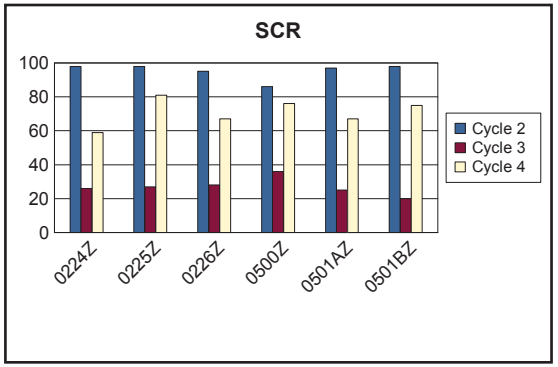


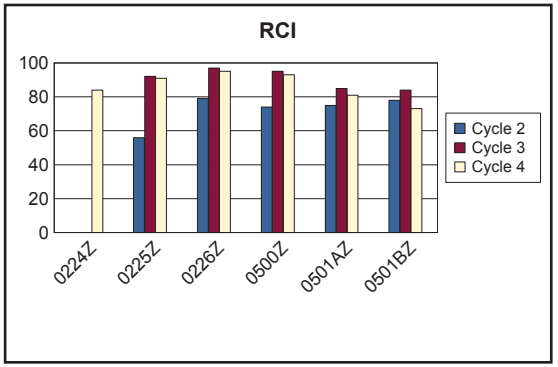
Cycle 4 Data Collected 4/15/2009 - 4/17/2009

COLO CYCLE 2 vs CYCLE 3 vs CYCLE 4 CONDITION COMPARISONS

ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	PAVEMENT CONDITION RATING (PCR)				SURFACE CONDITION RATING (SCR)				ROUGHNESS CONDITION INDEX (RCI)				COMMENT
				CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	
0224Z	0.28	0.00	0.28	N/A	26	61	+135%	98	26	59	+127%	N/A	N/A	84	N/A	No RCI data in C2 and C3. Route was 0224 in C2, C3.
0225Z	1.27	0.00	1.27	82	50	85	+70%	98	27	81	+200%	56	92	91	-1%	Route 0225Z was Route 0225 in Cycle 2 and Cycle 3.
0226Z	2.49	0.00	2.49	89	53	78	+47%	95	28	67	+139%	79	97	95	-2%	Route 0226Z was Route 0226 in Cycle 2 and Cycle 3.
0500Z	4.28	0.00	4.28	81	57	83	+46%	86	36	76	+111%	74	95	93	-2%	Route 0500Z was Route 0500 in Cycle 2 and Cycle 3.
0501AZ	4.67	0.00	4.67	88	44	72	+64%	97	25	67	+168%	75	85	81	-5%	Route is composed of C3 Routes 0501A and 0501B.
0501BZ	0.15	0.00	0.15	90	45	74	+64%	98	20	75	+275%	78	84	73	-13%	Route 0501BZ is composed of a portion of C3 Route 0501A.



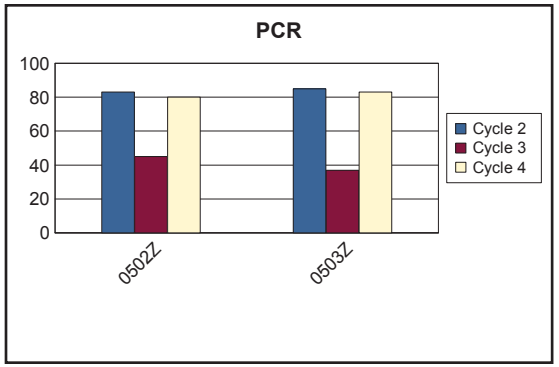


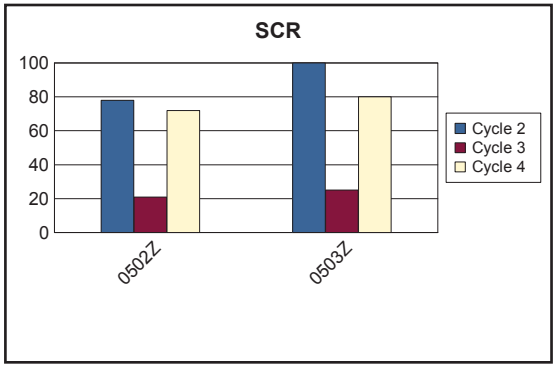


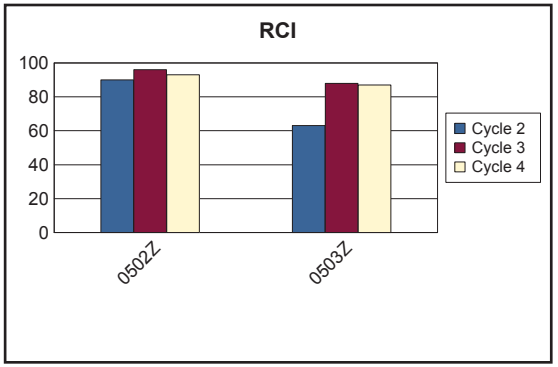
Cycle 4 Data Collected 4/15/2009 - 4/17/2009

COLO CYCLE 2 vs CYCLE 3 vs CYCLE 4 CONDITION COMPARISONS

ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	PAVEMENT CONDITION RATING (PCR)				SURFACE CONDITION RATING (SCR)				ROUGHNESS CONDITION INDEX (RCI)				COMMENT
				CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	
0502Z	0.55	0.00	0.55	83	45	80	+78%	78	21	72	+243%	90	96	93	-3%	Route 0502Z was Route 0502 in Cycle 2 and Cycle 3.
0503Z	1.83	0.00	1.83	85	37	83	+124%	100	25	80	+220%	63	88	87	-1%	Route 0503Z was Route 0503 in Cycle 2 and Cycle 3.



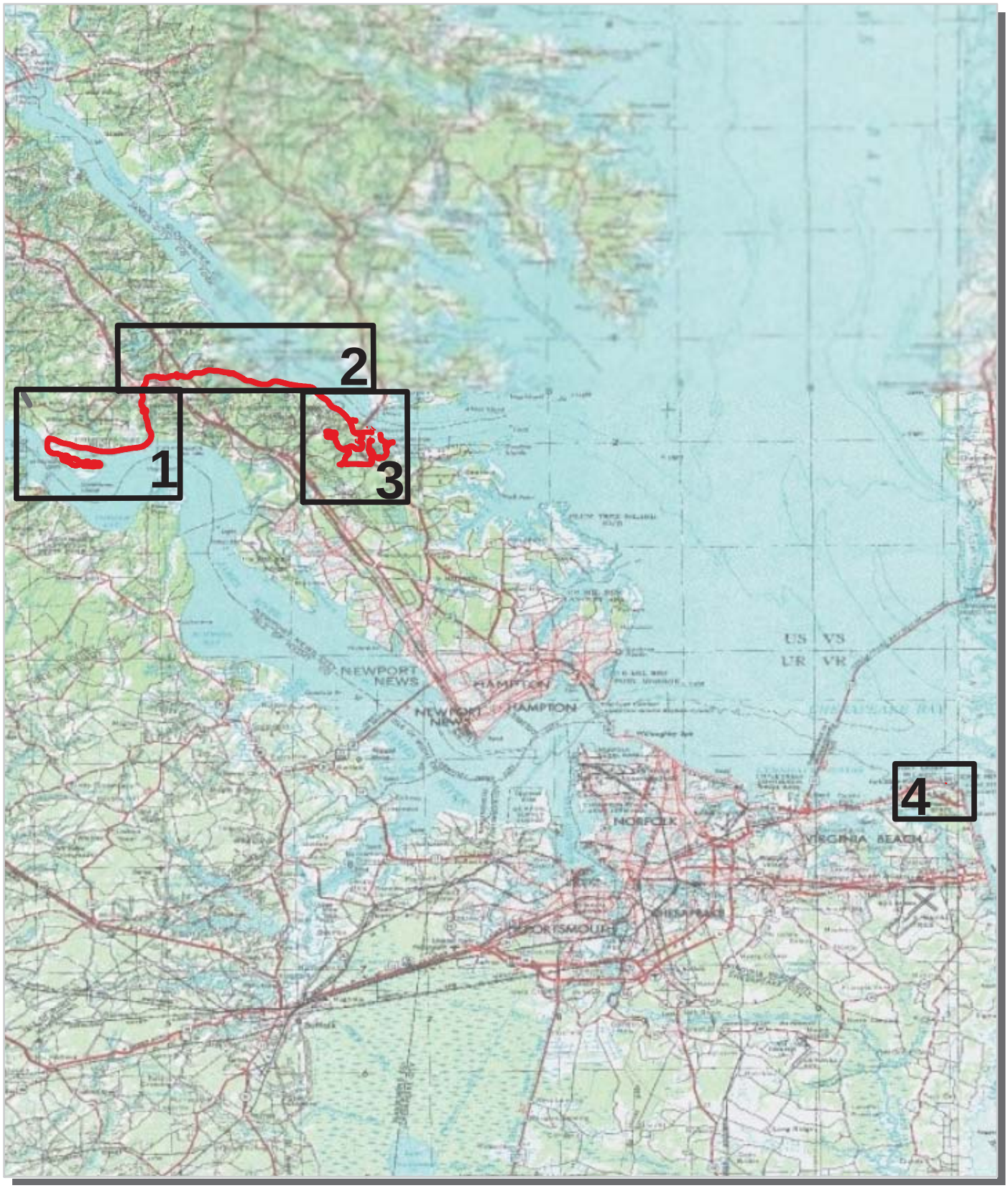




Colonial National Historical Park

Section 3
Park Route Location / Condition Maps

Colonial National Historical Park
Route Location Map
Key Map



Park Owned Routes

9 4.5 0 9
Miles

N

Colonial National Historical Park
Route Location Map
Area 1

Unique colors used to differentiate routes

1 0.5 0 1 Miles

N

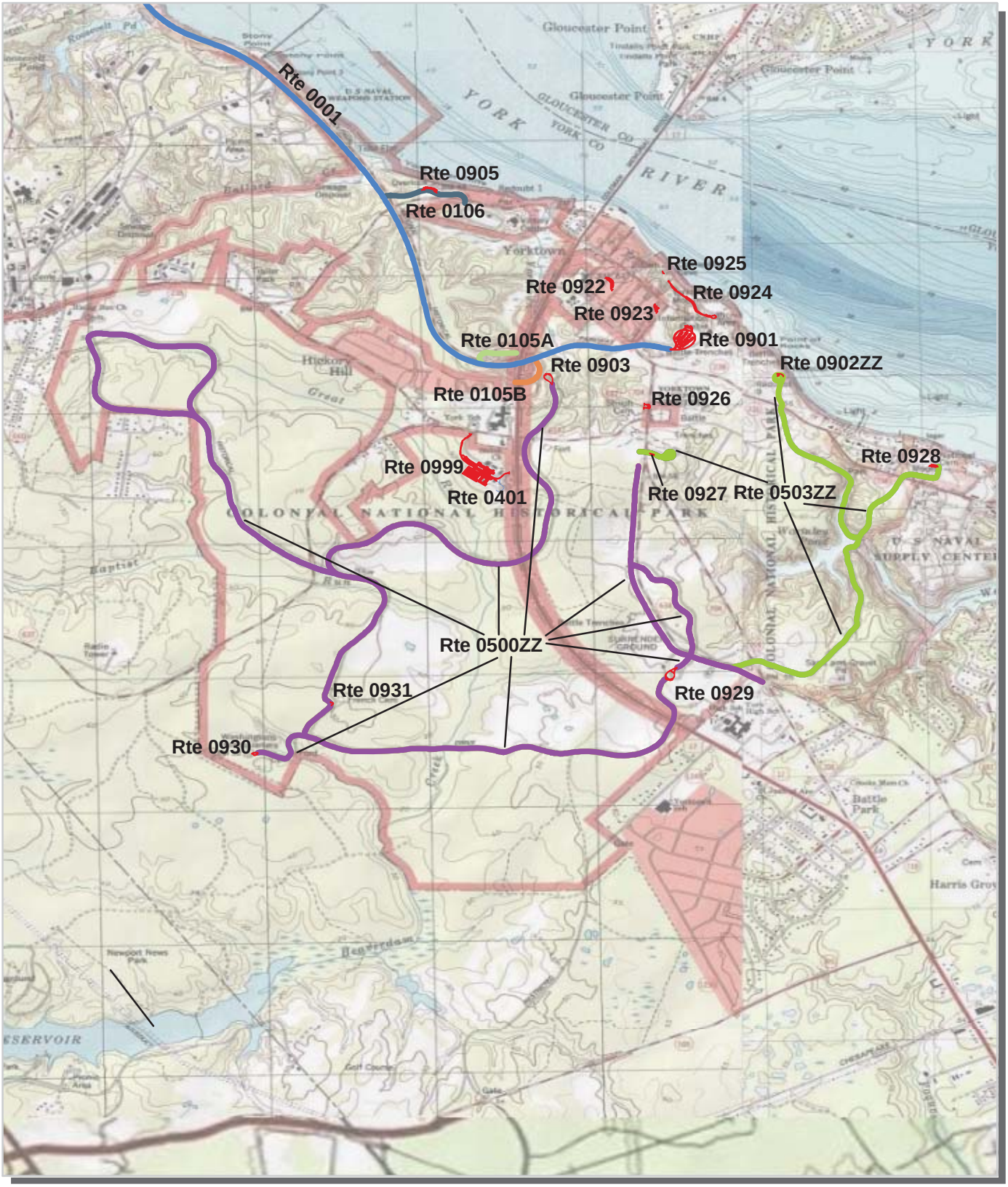
Colonial National Historical Park
Route Location Map
Area 2

Unique colors used to differentiate routes

2.5 1.25 0 2.5 Miles

N

Colonial National Historical Park
Route Location Map
Area 3

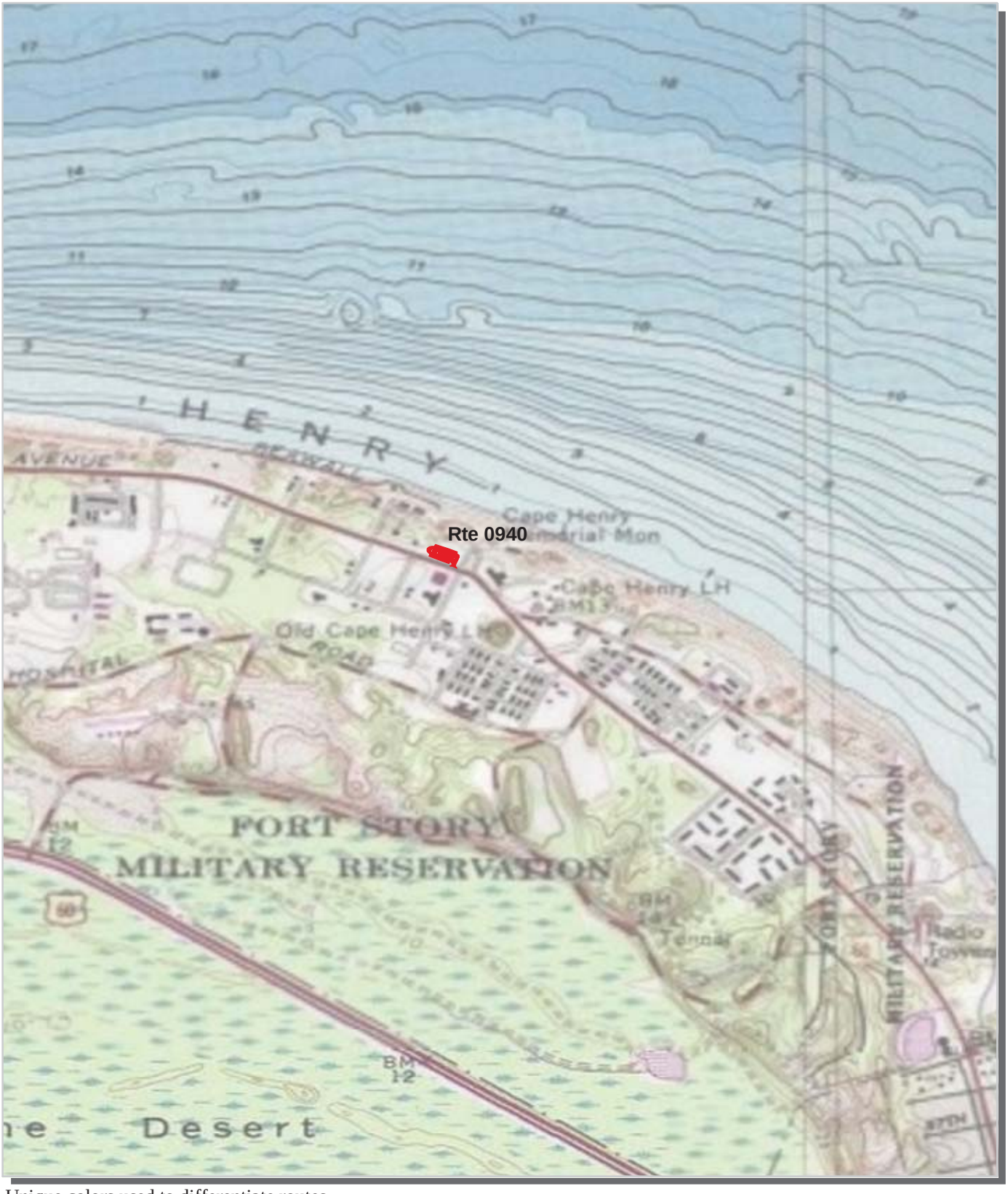


Unique colors used to differentiate routes

0.8 0.4 0 0.8 Miles

N

Colonial National Historical Park
Route Location Map
Area 4

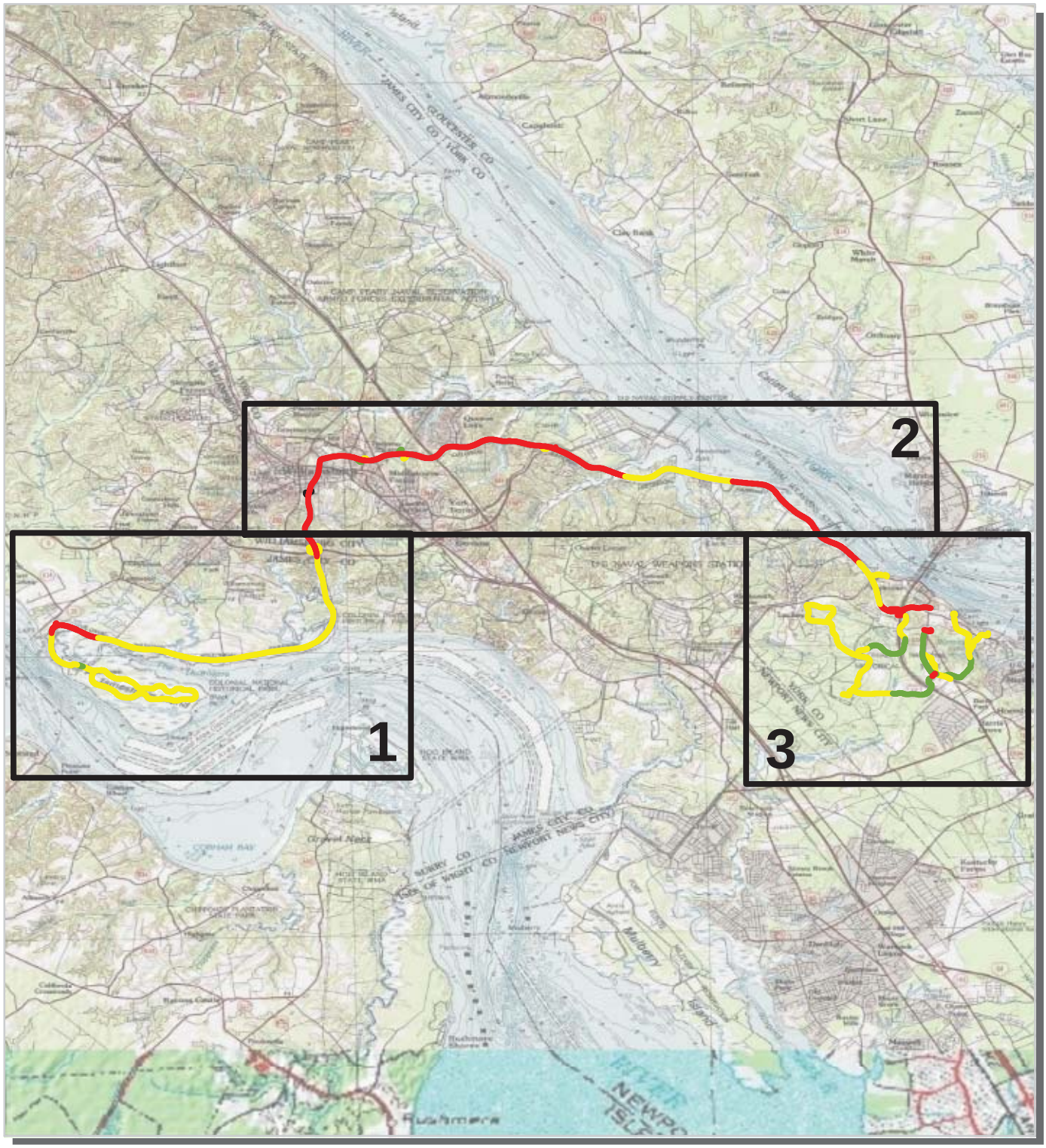


Unique colors used to differentiate routes

0.4 0.2 0 0.4 Miles

N

Colonial National Historical Park
Route Condition Map
PCR - Mile by Mile
Key Map



PCR	Poor	Fair	Good	Excellent	No Data
	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)	

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

4 2 0 4 Miles

N

Colonial National Historical Park
Route Condition Map
PCR - Mile by Mile
Area 1

PCR	Poor	Fair	Good	Excellent	No Data
	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)	

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

1 0.5 0 1 Miles

N

Colonial National Historical Park
Route Condition Map
PCR - Mile by Mile
Area 2

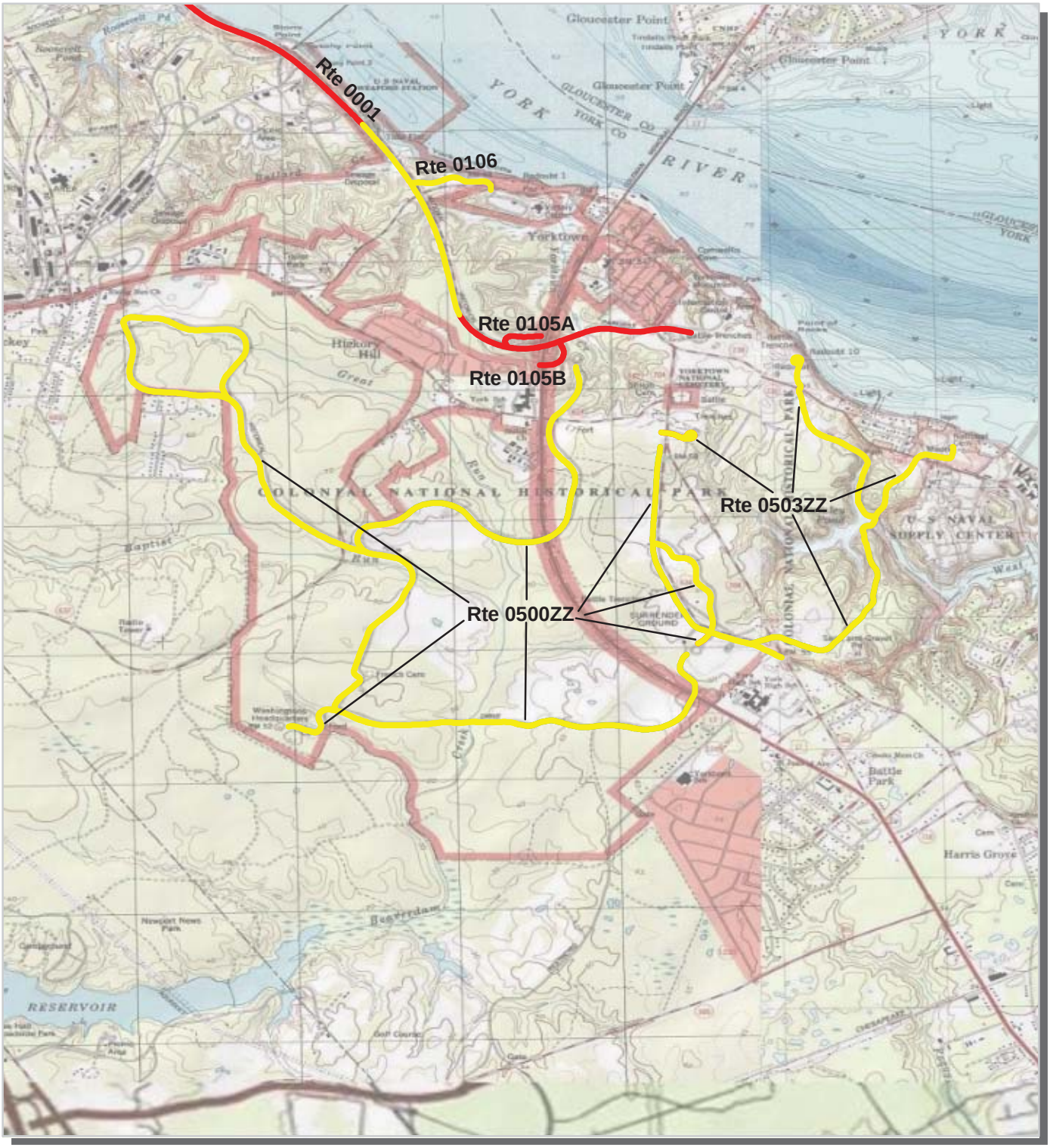
PCR	Poor	Fair	Good	Excellent	No Data
	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)	

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

2 1 0 2 Miles

N

Colonial National Historical Park
Route Condition Map
PCR - Mile by Mile
Area 3



PCR	Poor	Fair	Good	Excellent	No Data
	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)	

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

0.8 0.4 0 0.8 Miles

N

Colonial National Historical Park

Section 4
Park Route Inventory

NPS/RIP Route ID Report

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COLO

COLONIAL NATIONAL HISTORICAL PARK

Rte. No.	FMSS No.	Concess Route	Route Name	Route Description From	Route Description To	Maint. District	Paved Miles	Un-Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0001	49952		COLONIAL PARKWAY	FROM ROUTE 0901 (YORKTOWN VISITOR CENTER PARKING)	TO JAMESTOWN AT ROUTE 0501AZ (ISLAND DRIVE) AND ROUTE 0950 (JAMESTOWN VISITOR'S CENTER PARKING) ON RIGHT	N/A	23.110	0.000	23.110	1		0	CO	1,2,3
0105A	99196		US ROUTE 17 ACCESS ROAD A	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 0.75 (ON RIGHT)	TO US ROUTE 17	N/A	0.180	0.000	0.180	1		0	CO	3
0105B	99197		US ROUTE 17 ACCESS ROAD B	FROM US ROUTE 17	TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 0.54 (ON LEFT)	N/A	0.180	0.000	0.180	1		0	CO	3
0106	99198		FUSILIER'S ROAD	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 1.66 (ON RIGHT)	TO WATER STREET	N/A	0.350	0.000	0.350	1		0	AS	3
0107A	99199		CHEATHAM ANNEX ACCESS ROAD A	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 8.39 (ON RIGHT)	TO PENNIMAN ROAD	N/A	0.040	0.000	0.040	1		0	AS	2
0107B	99200		CHEATHAM ANNEX ACCESS ROAD B	FROM PENNIMAN ROAD	TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 8.51 (ON LEFT)	N/A	0.120	0.000	0.120	1		0	AS	2
0108A	99201		QUEENS LAKE ACCESS A	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 11.21 (ON LEFT)	TO HUBBARD LANE	N/A	0.140	0.000	0.140	1		0	AS	2
0108B	99202		QUEENS LAKE ACCESS B	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 11.31 (ON RIGHT)	TO HUBBARD LANE	N/A	0.130	0.000	0.130	1		0	AS	2
0109A	99203		PARKWAY DRIVE ACCESS ROAD A	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 11.90 (ON RIGHT)	TO PARKWAY DRIVE	N/A	0.100	0.000	0.100	1		0	AS	2
0109B	99204		PARKWAY DRIVE ACCESS ROAD B	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 12.09 (ON LEFT)	TO PARKWAY DRIVE	N/A	0.120	0.000	0.120	1		0	AS	2
0110	99205		TAZEWELL HALL ACCESS ROAD	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 21.81	TO GREENSPRINGS ROAD AT PAVEMENT CHANGE	N/A	0.060	0.000	0.060	2		0	CO	1
0111A	99206		STATE ROUTE 199 INTERCHANGE A	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 14.76	TO SOUTH HENRY STREET	N/A	0.110	0.000	0.110	1		0	AS	1
0111B	99207		STATE ROUTE 199 INTERCHANGE B	FROM STATE ROUTE 199	TO ROUTE 0001 (COLONIAL PARKWAY)	N/A	0.130	0.000	0.130	1		0	AS	1
0111C	99208		STATE ROUTE 199 INTERCHANGE C	FROM STATE ROUTE 199	TO ROUTE 0001 (COLONIAL PARKWAY)	N/A	0.110	0.000	0.110	1		0	AS	1

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COLO

COLONIAL NATIONAL HISTORICAL PARK

Rte. No.	FMSS No.	Concess Route	Route Name	Route Description From	Route Description To	Maint. District	Paved Miles	Un-Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0111D	99209		STATE ROUTE 199 INTERCHANGE D	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 14.93	TO STATE ROUTE 199	N/A	0.120	0.000	0.120	1		0	AS	1
0112A	102864		NEWPORT AVENUE ACCESS ROAD A	FROM NEWPORT AVENUE	TO ROUTE 0001 (COLONIAL PARKWAY) (TOWARDS YORKTOWN)	N/A	0.060	0.000	0.060	2		0	CO	2
0112B	102867		NEWPORT AVENUE ACCESS ROAD B	FROM NEWPORT AVENUE	TO ROUTE 0001 (COLONIAL PARKWAY) (TOWARDS JAMESTOWN)	N/A	0.090	0.000	0.090	2		0	CO	2
0204	99212		RINGFIELD PICNIC ACCESS ROAD	FROM ROUTE 0001 (COLONIAL PARKWAY)	TO END OF LOOP	N/A	0.000	1.245	1.245	2		0	GR	
0205	99213		GREAT NECK PICNIC ACCESS ROAD	FROM ROUTE 0001 (COLONIAL PARKWAY)	TO END OF LOOP	N/A	0.000	0.520	0.520	6		0	NV	1
0401	99102		YORKTOWN MAINTENANCE AREA RESIDENCE ROAD	FROM ROUTE 0999 (YORKTOWN MAINTENANCE PARKING)	TO DEAD END	N/A	0.000	0.000	0.000	6		7,467	AS	3
0402	102878		APVA ACCESS/SKIP'S DIRT ROAD	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 22.81 (ON RIGHT)	TO END	N/A	0.000	0.310	0.310	6		0	GR	
0411	99214		LACKEY FIRE ROAD	FROM STATE HIGHWAY 238	TO ROUTE 0500Z (BATTLEFIELD TOUR ROAD)	N/A	0.000	0.174	0.174	6		0	GR	
0412	99215		D'ADOUVILLE ACCESS ROAD	FROM ROUTE 0500Z (BATTLEFIELD TOUR ROAD)	TO CRAWFORD ROAD	N/A	0.000	0.309	0.309	6		0	GR	
0414	99216		BACK FIRE ROAD	FROM SIEGE LANE	TO PARK BOUNDARY	N/A	0.000	1.900	1.900	6		0	GR	
0415	99217		OLD HARRELLS ROAD	FROM ROUTE 0225Z (SURRENDER ROAD)	TO END OF LOOP	N/A	0.000	2.760	2.760	6		0	GR	
0500ZZ	54852		YORKTOWN WEST TOUR ROUTES	FROM ROUTE 0929 (SURRENDER FIELD ACCESS PARKING)	THROUGH TOUR BUS ROUTES	N/A	9.240	0.000	9.240	3		0	AS	3
0501ZZ	54573		ISLAND DRIVE ROUTES	FROM ROUTE 0001 (COLONIAL PARKWAY) AT END	TO END OF LOOP	N/A	4.820	0.000	4.820	3		0	AS	1
0503ZZ	54924		YORKTOWN EAST TOUR ROUTES	FROM STATE HIGHWAY 238	TO ROUTE 0225Z (SURRENDER ROAD)	N/A	2.780	0.000	2.780	3		0	AS	3
0901	54907		YORKTOWN VISITOR CENTER PARKING	FROM BEGINNING OF ROUTE 0001 (COLONIAL PARKWAY)	TO PARKING	N/A	0.000	0.000	0.000			129,963	AS	3
0902ZZ	54914		REDOUBT 9, 10 ACCESS ROAD PARKING AREAS	ADJACENT TO ROUTE 0103Z (REDOUBT ACCESS ROAD) ON LEFT AND RIGHT		N/A	0.000	0.000	0.000			2,484	AS	3

NPS/RIP Route ID Report

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COLO

COLONIAL NATIONAL HISTORICAL PARK

Rte. No.	FMSS No.	Concess Route	Route Name	Route Description From	Route Description To	Maint. District	Paved Miles	Un-Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0903	54916		UNTOUCHED REDOUBT LOOP/PARKING	FROM ROUTE 0100Z (UNTOUCHED REDOUBT ROAD) AT END	TO PARKING	N/A	0.000	0.000	0.000			10,364	AS	3
0904	54917		GLASSHOUSE ACCESS ROAD PARKING	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 22.03 (ON RIGHT)	TO PARKING	N/A	0.000	0.000	0.000			42,058	AS	1
0905	54918		FUSILIER'S PARKING	FROM ROUTE 0106 (FUSILIER'S ROAD) AT MP 0.16 (ON LEFT)	TO ROUTE 0106 (FUSILIER'S ROAD) AT MP 0.20 (ON LEFT)	N/A	0.000	0.000	0.000			14,173	AS	3
0906	54919		NAVAL WEAPONS STATION PARKING	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 2.98 (ON RIGHT)	TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 3.02 (ON RIGHT)	N/A	0.000	0.000	0.000			10,832	CO	2
0907	54920		YORKTOWN RIVER PARKING	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 3.43 (ON RIGHT)	TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 3.47 (ON RIGHT)	N/A	0.000	0.000	0.000			7,261	CO	2
0908	54921		POWHATAN PARKING	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 4.20 (ON RIGHT)	TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 4.24 (ON RIGHT)	N/A	0.000	0.000	0.000			10,048	CO	2
0909	54927		INDIAN FIELD CREEK PARKING	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 4.32 (ON LEFT)	TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 4.35 (ON LEFT)	N/A	0.000	0.000	0.000			10,005	CO	2
0910	54931		BELLFIELD PLANTATION PARKING	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 5.68 (ON RIGHT)	TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 5.72 (ON RIGHT)	N/A	0.000	0.000	0.000			9,653	CO	2
0911	54932		RINGFIELD PLANTATION PARKING	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 5.93 (ON RIGHT)	TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 5.98 (ON RIGHT)	N/A	0.000	0.000	0.000			15,026	CO	2
0912	56258		JAMES MILL PARKING	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 9.35 (ON LEFT)	TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 9.37 (ON LEFT)	N/A	0.000	0.000	0.000			8,305	CO	2
0913	56259		PALISADES GREAT OAKS PARKING	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 13.97 (ON LEFT)	TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 14.01 (ON LEFT)	N/A	0.000	0.000	0.000			11,481	CO	2
0914	56260		GREAT NECK PARKING	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 14.17 (ON LEFT)	TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 14.21 (ON LEFT)	N/A	0.000	0.000	0.000			9,817	CO	2
0915	56261		ATTEMPTED SETTLEMENT/COLLEGE CREEK PARKING	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 16.56 (ON RIGHT)	TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 16.65 (ON RIGHT)	N/A	0.000	0.000	0.000			22,688	CO	1
0916	56262		JAMES RIVER PARKING	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 16.93 (ON LEFT)	TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 16.96 (ON LEFT)	N/A	0.000	0.000	0.000			11,405	CO	1

NPS/RIP Route ID Report

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COLO

COLONIAL NATIONAL HISTORICAL PARK

Rte. No.	FMSS No.	Concess Route	Route Name	Route Description From	Route Description To	Maint. District	Paved Miles	Un-Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0917	56263		ARCHER'S HOPE PARKING	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 17.91 (ON LEFT)	TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 18.01 (ON LEFT)	N/A	0.000	0.000	0.000			20,519	CO	1
0918	56264		JAMESTOWN ISLAND/GLEBE LAND PARKING	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 19.37 (ON LEFT)	TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 19.46 (ON LEFT)	N/A	0.000	0.000	0.000			26,075	CO	1
0919	56265		REAL ESTATE PARKING	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 19.77 (ON LEFT)	TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 19.80 (ON LEFT)	N/A	0.000	0.000	0.000			10,473	CO	1
0920	56266		NECK OF LAND PARKING	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 20.24 (ON LEFT)	TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 20.31 (ON LEFT)	N/A	0.000	0.000	0.000			24,053	CO	1
0921	56267		JAMESTOWN ENTRANCE PARKING	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 21.81 (ON LEFT)	TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 21.93 (ON LEFT)	N/A	0.000	0.000	0.000			25,464	CO	1
0922	56269		YORKTOWN VISITOR PARKING	FROM CHURCH STREET	TO READ STREET	N/A	0.000	0.000	0.000			20,476	AS	3
0923	56272		YORKTOWN VICTORY MONUMENT PARKING	FROM BACON STREET	TO ZWEYBRUCKEN ROAD	N/A	0.000	0.000	0.000			10,624	AS	3
0924	56273		YORKTOWN BEACH PARKING	FROM WATER STREET	TO PARKING	N/A	0.000	0.000	0.000			47,830	AS	3
0925	56274		CORNWALLIS' CAVE PARKING	ADJACENT TO WATER STREET		N/A	0.000	0.000	0.000			1,124	AS	3
0926	56275		NATIONAL CEMETERY/SECOND SIEGE PARKING	FROM STATE ROUTE 238	TO STATE ROUTE 238	N/A	0.000	0.000	0.000			9,706	AS	3
0927	56276		GRAND FRENCH BATTERY PARKING	ADJACENT TO ROUTE 0101Z (GRAND FRENCH BATTERY ROAD) AT MP 0.05 (ON RIGHT)		N/A	0.000	0.000	0.000			2,235	AS	3
0928	56277		MOORE HOUSE PARKING	FROM ROUTE 0104Z (MOORE HOUSE ACCESS ROAD) AT END	TO MOORE HOUSE ROAD	N/A	0.000	0.000	0.000			7,892	AS	3
0929	56279		SURRENDER FIELD ACCESS PARKING	FROM ROUTE 0102Z (SURRENDER FIELD ROAD) AT END	TO ROUTE 0500Z (BATTLEFIELD TOUR ROAD) AT START	N/A	0.000	0.000	0.000			17,292	AS	3
0930	56280		WASHINGTON'S HEADQUARTERS PARKING	FROM ROUTE 0224Z (WASHINGTON'S HEADQUARTERS ROAD) AT END	TO PARKING	N/A	0.000	0.000	0.000			4,788	AS	3

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COLO

COLONIAL NATIONAL HISTORICAL PARK

Rte. No.	FMSS No.	Concess Route	Route Name	Route Description From	Route Description To	Maint. District	Paved Miles	Un-Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0931	56281		FRENCH CEMETERY PARKING	FROM ROUTE 0500Z (BATTLEFIELD TOUR ROAD) AT MP 1.90 (ON RIGHT)	TO ROUTE 0500Z (BATTLEFIELD TOUR ROAD) AT MP 1.91 (ON RIGHT)	N/A	0.000	0.000	0.000			1,726	AS	3
0932	99128		NECK O LAND VISITOR CONTACT PARKING	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 21.04 (ON LEFT)	TO PARKING	N/A	0.000	0.000	0.000			76,962	AS	1
0940	102877		CAPE HENRY MEMORIAL PARKING	FROM ATLANTIC AVENUE	TO PARKING	N/A	0.000	0.000	0.000			31,058	AS	4
0950	56282		JAMESTOWN VISITOR'S CENTER PARKING	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 22.88 (ON RIGHT)	TO ROUTE 0001 (COLONIAL PARKWAY) AND ROUTE 0501AZ (ISLAND DRIVE) AT START	N/A	0.000	0.000	0.000			132,987	AS	1
0990	56283		JAMESTOWN MAINTENANCE PARKING	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 20.88 (ON RIGHT)	TO PARKING	N/A	0.000	0.000	0.000			23,645	AS	1
0999	56284		YORKTOWN MAINTENANCE PARKING	FROM US ROUTE 17	TO STATE HIGHWAY 238	N/A	0.000	0.000	0.000			236,606	AS	3
5000	N/A		CENTERVILLE ROAD	FROM MONTICELLO AVENUE	JOHN TYLER MEMORIAL HIGHWAY	N/A	0.730	0.000	0.730	0		0	AS	2

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SUMMARY TOTALS FOR COLONIAL NATIONAL HISTORICAL PARK

ROUTE TOTALS

ARAN Driven Route Miles	41.990
All Paved Route Miles	58.830
All Unpaved Route Miles	7.218
TOTAL PARK ROUTE MILES	66.048
All Manually Rated Roads (SQFT)	7,467

PARKING AREA TOTALS

All Paved Parking (SQFT)	1,057,099
All Unpaved Parking (SQFT)	0
TOTAL ALL PARKING (SQFT)	1,057,099

LANE MILE TOTALS

ARAN Driven Lane Miles	94.284
Paved Parking Lane Miles	18.200
Paved MRR Lane Miles	0.129
TOTAL PAVED LANE MILES	112.613

CONCESSION TOTALS

Concession Paved Route Miles	0.000
Concession Unpaved Route Miles	0.000
Concession Paved Parking Area SQFT	0
Concession Unpaved Parking Area SQFT	0
Concession Paved MRR SQFT	0

WEIGHTED AVERAGE PARK VALUES

PCR (Rating)	SCR (Rating)	RCI (Rating)	RUT (Index)	AC (Index)	LC (Index)	TC (Index)	PATCH (Index)	PCR (Concession)
65.95	75.34	59.54	76.54	99.82	99.48	99.53	99.98	N/A

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General Park Road Functional Classification Table

Class 1 Principal Park Road/Rural Parkway (Public Roads) Roads which constitute the main access route, circulatory tour, or thoroughfare for park visitors. Route Numbers 1 - 99. Note: Rural parkways (e.g. Natchez Trace) are numbered 1 - 9. State Routes Inventoried for Park. Route Numbers 5000-5999

Class 2 Connector Park Road (Public Roads) - Roads which provide access within a park to areas of scenic, scientific, recreational or cultural interest, such as overlooks, campgrounds, etc. Route Numbers 100-199.

Class 3 Special Purpose Park Road (Public Roads) - Roads which provide circulation within public areas, such as campgrounds, picnic areas, visitor center complexes, concessionaire facilities, etc. These roads generally serve low-speed traffic and are often designed for one-way circulation. Route Numbers 200-299.

Class 4 Primitive Park Roads (Public Roads) - Roads which provide circulation through remote areas and/or access to primitive campgrounds and undeveloped areas. These roads frequently have no minimum design standards and their use may be limited to specially equipped vehicles. Route Numbers 200-299.
Note: Functional Classes 3 and 4 have the same route numbers because, historically, they were numbered similarly.

Class 5 Administrative Access Road (Administrative Roads) - All public roads intended for access to administrative developments or structures such as park offices, employee quarters, or utility areas. Route Numbers 400-499.

Class 6 Restricted Road (Administrative Roads) - All roads normally closed to the public, including patrol roads, truck trails, and other similar roads. Route Numbers 400-499.
Note: Functional Classes 5 and 6 have the same route numbers because historically they were numbered similarly and often there is little distinction between these routes. For example, because utility areas and employee housing are often closed to the public, this restriction would result in classification of FC 6 rather than FC 5.

Class 7 Urban Parkway (Urban Parkways and City Streets) - These facilities serve high volumes of park and non-park related traffic and are restricted, limited-access facilities in an urban area. This category of roads primarily encompasses the major parkways which serve as gateways to our nation's capital. Other major park roads or portions thereof, however, may be included in this category. Route Numbers 1-9.

Class 8 City Streets (Urban Parkways and City Streets) - City streets are usually extensions of the adjoining street system that are owned and maintained by the National Park Service. The construction and/or reconstruction should conform with accepted local engineering practice and local conditions. Route Numbers 600-699.

****

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

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

5000 route numbers are assigned to Non-NPS Routes that are State, County or City owned which border, traverse, or provide access to Park Facilities or Assets. 5000 Routes are driven for GPS, Video Log and Road Features only.

Surface Type Abbreviations:

AS - Asphaltic Concrete Pavement

CO - Portland Cement Concrete Pavement

BR - Brick or Pavers Road Bed

CB - Cobble Stone Road Bed

GR - Gravel Road Bed

SA - Sand Road Bed

NV - Native or Dirt Material Road Bed

OT - Other Materials Road Bed

NPS/RIP Subcomponent Details for COLO

Shading Color Key:
Red text denotes approx. mileage

White = Paved Routes, ARAN Driven
Yellow = Unpaved Routes, ARAN not Driven
Blue = All Paved Parking Areas
Green = All Unpaved Parking Areas
Grey = Paved Routes, ARAN not Driven
Black = Paved State, Local or Private non-NPS Routes, ARAN Driven
= Concession Route Flag ON
= Subcomponent Flag ON

** Unpaved Routes displayed on report were obtained from FMSS database and not inventoried by Road Inventory Program (RIP)

COLO

COLONIAL NATIONAL HISTORICAL PARK

Asset Entered in FMSS System

Rte. No.	FMSS No.	Sub Comp	Route Name	Route Description From	Route Description To	Concess Route	Func. Class	Paved Miles	Un-Paved Miles	Total Route Length	Manual Rated SQ/FT
0500ZZ	54852		YORKTOWN WEST TOUR ROUTES	FROM ROUTE 0929 (SURRENDER FIELD ACCESS PARKING)	THROUGH TOUR BUS ROUTES		3	9.24	0.00	9.24	0
0501ZZ	54573		ISLAND DRIVE ROUTES	FROM ROUTE 0001 (COLONIAL PARKWAY) AT END	TO END OF LOOP		3	4.82	0.00	4.82	0
0503ZZ	54924		YORKTOWN EAST TOUR ROUTES	FROM STATE HIGHWAY 238	TO ROUTE 0225Z (SURRENDER ROAD)		3	2.78	0.00	2.78	0
0902ZZ	54914		REDOUBT 9, 10 ACCESS ROAD PARKING AREAS	ADJACENT TO ROUTE 0103Z (REDOUBT ACCESS ROAD) ON LEFT AND RIGHT				0.00	0.00	0.00	2,484

Asset COLO-0500ZZ Subcomponent Breakdown

Rte. No.	FMSS No.	Sub Comp	Route Name	Route Description From	Route Description To	Concess Route	Func. Class	Paved Miles	Un-Paved Miles	Total Route Length	Manual Rated SQ/FT
0100Z	54852		UNTOUCHED REDOUBT ROAD	FROM INTERSECTION OF ROUTE 0500Z (BATTLEFIELD TOUR ROAD) AND GOOSELY ROAD	TO ROUTE 0903 (UNTOUCHED REDOUBT LOOP/PARKING)		3	0.30	0.00	0.30	0
0102Z	54852		SURRENDER FIELD ROAD	FROM ROUTE 0225Z (SURRENDER ROAD) AND 0502Z (SHORT LOOP ROAD)	TO ROUTE 0929 (SURRENDER FIELD ACCESS PARKING)		3	0.07	0.00	0.07	0
0224Z	54852		WASHINGTON'S HEADQUARTERS ROAD	FROM ROUTE 0500Z (BATTLEFIELD TOUR ROAD) AT MP 1.72	TO ROUTE 0930 (WASHINGTON'S HEADQUARTERS PARKING)		3	0.28	0.00	0.28	0
0225Z	54852		SURRENDER ROAD	FROM COOK ROAD (NORTH END)	TO COOK ROAD (SOUTH END)		3	1.27	0.00	1.27	0
0226Z	54852		FRENCH ENCAMPMENT TOUR ROAD	FROM ROUTE 0500Z (BATTLEFIELD TOUR ROAD)	TO END OF LOOP		3	2.49	0.00	2.49	0
0500Z	54852		BATTLEFIELD TOUR ROAD	FROM ROUTE 0929 (SURRENDER FIELD ACCESS PARKING)	TO INTERSECTION OF ROUTE 0100Z (UNTOUCHED REDOUBT ROAD) AND GOOSLEY ROAD		3	4.28	0.00	4.28	0
0502Z	54852		SHORT LOOP ROAD	FROM INTERSECTION OF ROUTE 0225Z (SURRENDER ROAD) AND ROUTE 0102Z (SURRENDER FIELD ROAD)	THROUGH TOUR BUS ROUTES		3	0.55	0.00	0.55	0

Asset COLO-0501ZZ Subcomponent Breakdown

Rte. No.	FMSS No.	Sub Comp	Route Name	Route Description From	Route Description To	Concess Route	Func. Class	Paved Miles	Un-Paved Miles	Total Route Length	Manual Rated SQ/FT

NPS/RIP Subcomponent Details for COLO

Shading Color Key:
Red text denotes approx. mileage

White = Paved Routes, ARAN Driven
Yellow = Unpaved Routes, ARAN not Driven
Blue = All Paved Parking Areas
Green = All Unpaved Parking Areas
Grey = Paved Routes, ARAN not Driven
Black = Paved State, Local or Private non-NPS Routes, ARAN Driven
= Concession Route Flag ON
= Subcomponent Flag ON

** Unpaved Routes displayed on report were obtained from FMSS database and not inventoried by Road Inventory Program (RIP)

COLO

COLONIAL NATIONAL HISTORICAL PARK

0501AZ	54573		ISLAND DRIVE	FROM ROUTE 0001 (COLONIAL PARKWAY) AT END	TO END OF LOOP		3	4.67	0.00	4.67	0
0501BZ	54573		ISLAND DRIVE CROSS ROAD	FROM ROUTE 0501AZ (SLAVE ISLAND) AT MP 1.40	TO ROUTE 0501AZ (SLAVE ISLAND) AT MP 3.70		3	0.15	0.00	0.15	0

Asset COLO-0503ZZ Subcomponent Breakdown

Rte. No.	FMSS No.	Sub Comp	Route Name	Route Description From	Route Description To	Concess Route	Func. Class	Paved Miles	Un-Paved Miles	Total Route Length	Manual Rated SQ/FT
0101Z	54924		GRAND FRENCH BATTERY ROAD	FROM COOK ROAD	TO END OF LOOP		3	0.20	0.00	0.20	0
0103Z	54924		REDOUBT ACCESS ROAD	FROM INTERSECTION OF ROUTE 0503Z (EAST YORKTOWN TOUR ROAD) AND MOORE HOUSE ROAD	TO END OF LOOP		3	0.22	0.00	0.22	0
0104Z	54924		MOORE HOUSE ACCESS ROAD	FROM ROUTE 0503Z (EAST YORKTOWN TOUR ROAD)	TO ROUTE 0928 (MOORE HOUSE PARKING)		3	0.53	0.00	0.53	0
0503Z	54924		EAST YORKTOWN TOUR ROAD	FROM INTERSECTION OF ROUTE 0103Z (REDOUBT ACCESS ROAD) AND MOORE HOUSE ROAD	TO ROUTE 0225Z (SURRENDER ROAD)		3	1.83	0.00	1.83	0

Asset COLO-0902ZZ Subcomponent Breakdown

Rte. No.	FMSS No.	Sub Comp	Route Name	Route Description From	Route Description To	Concess Route	Func. Class	Paved Miles	Un-Paved Miles	Total Route Length	Manual Rated SQ/FT
0902AZ	54914		REDOUBT 9, 10 ACCESS ROAD PARKING A	ADJACENT TO ROUTE 0103Z (REDOUBT ACCESS ROAD) AT MP 0.15 (ON RIGHT)				0.00	0.00	0.00	976
0902BZ	54914		REDOUBT 9, 10 ACCESS ROAD PARKING B	ADJACENT TO ROUTE 0103Z (REDOUBT ACCESS ROAD) AT MP 0.17 (ON LEFT)				0.00	0.00	0.00	827
0902CZ	54914		REDOUBT 9, 10 ACCESS ROAD PARKING C	ADJACENT TO ROUTE 0103Z (REDOUBT ACCESS ROAD) AT MP 0.17 (ON RIGHT)				0.00	0.00	0.00	681

Colonial National Historical Park

Section 5
Paved Route Condition Rating Sheets (CRS)

PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

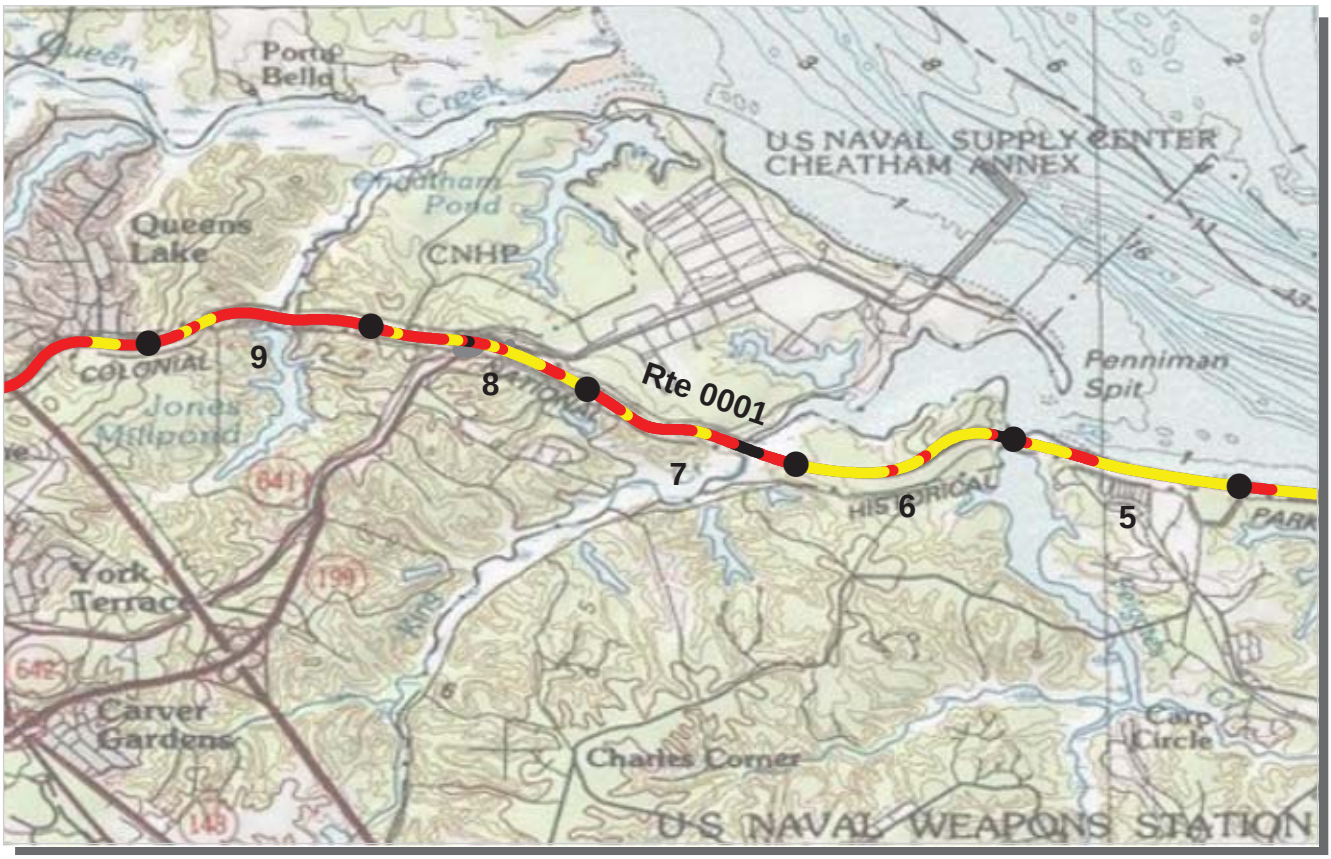
* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0001 COLONIAL PARKWAY
COLO : COLONIAL NATIONAL HISTORICAL PARK

COLLECTED: 4/16/2009
NORTHEAST REGION **TOTAL LENGTH: 23.11 Miles**

Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	28	33	34	32	34
Lane Width (ft)	14	17	17	16	17
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
Roadway Condition Information					
SCR (Surface Condition Rating)	75	NC	NC	NC	NC
PCR (Pavement Condition Rating)	45	75	53	42	57
Distress Index Values					
Alligator Cracking Index	100	NC	NC	NC	NC
Longitudinal Cracking Index	100	NC	NC	NC	NC
Tranverse Cracking Index	100	NC	NC	NC	NC
Patching Index	100	NC	NC	NC	NC
Rutting Index	75	NC	NC	NC	NC
Roughness Condition Index (RCI)	40	75	53	42	57

NC - Not Collected



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

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

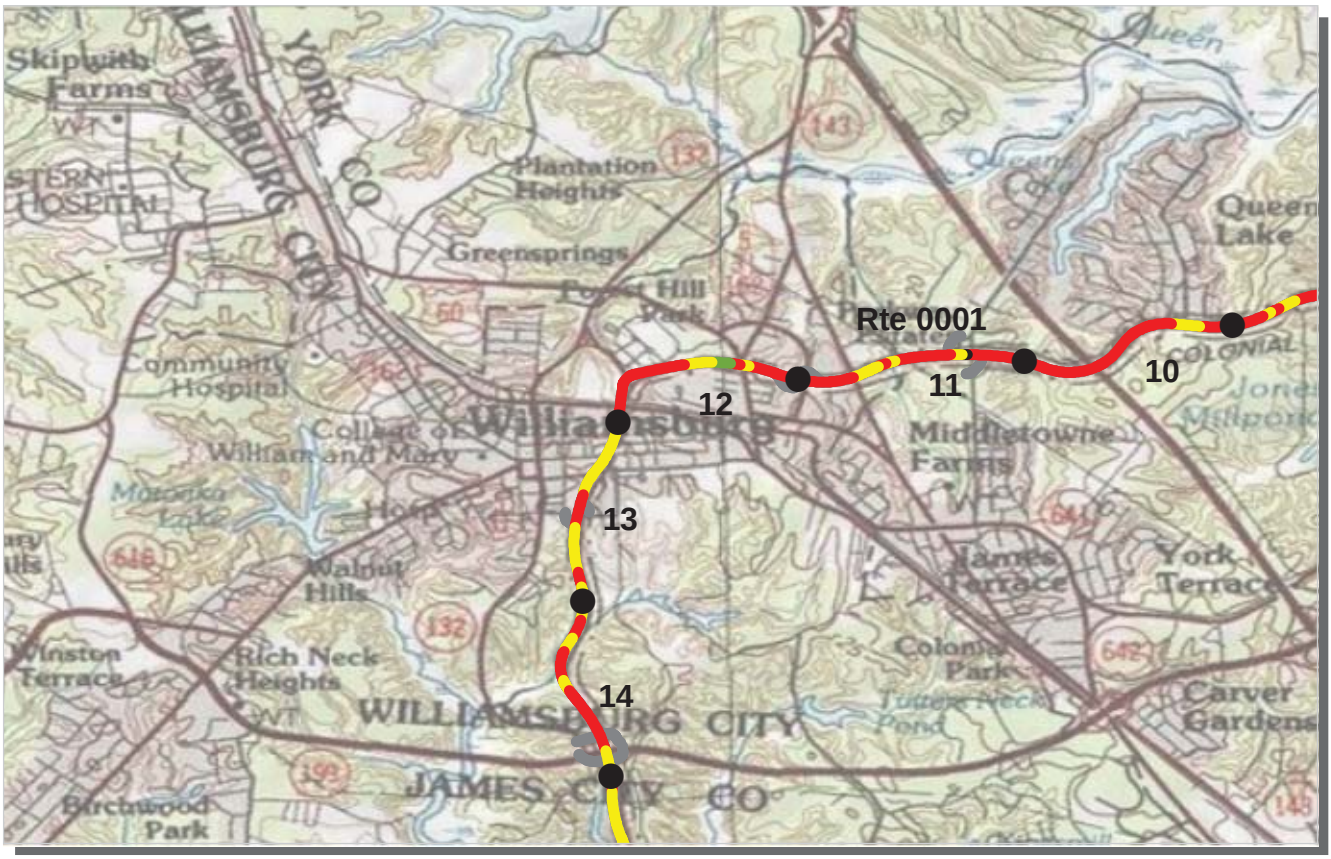
ROUTE: 0001 COLONIAL PARKWAY
COLO : COLONIAL NATIONAL HISTORICAL PARK

COLLECTED: 4/16/2009

NORTHEAST REGION **TOTAL LENGTH: 23.11 Miles**

Section Number	5	6	7	8	9
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov				
SADT	Click on PROGRAMS / NPS Traffic Data				
ADT Date	(Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	32	35	34	34	32
Lane Width (ft)	16	17	17	17	16
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
Roadway Condition Information					
SCR (Surface Condition Rating)	NC	NC	NC	NC	NC
PCR (Pavement Condition Rating)	64	64	52	55	42
Distress Index Values					
Alligator Cracking Index	NC	NC	NC	NC	NC
Longitudinal Cracking Index	NC	NC	NC	NC	NC
Tranverse Cracking Index	NC	NC	NC	NC	NC
Patching Index	NC	NC	NC	NC	NC
Rutting Index	NC	NC	NC	NC	NC
Roughness Condition Index (RCI)	64	64	52	55	42

NC - Not Collected



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

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

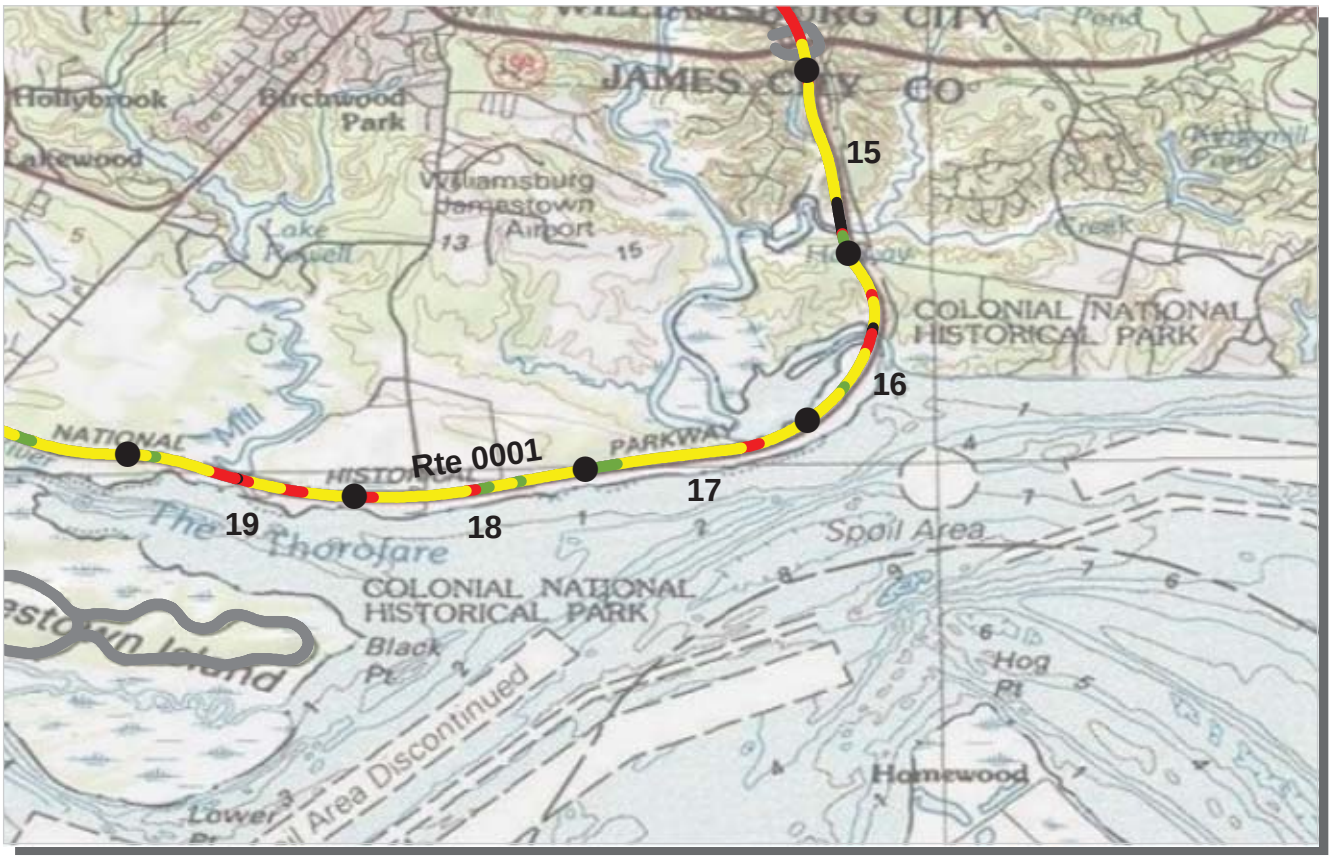
ROUTE: 0001 COLONIAL PARKWAY
COLO : COLONIAL NATIONAL HISTORICAL PARK

COLLECTED: 4/16/2009

NORTHEAST REGION **TOTAL LENGTH: 23.11 Miles**

Section Number	10	11	12	13	14
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
AADT					
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	33	34	38	30	35
Lane Width (ft)	16	17	20	15	17
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
Roadway Condition Information					
SCR (Surface Condition Rating)	NC	NC	NC	NC	NC
PCR (Pavement Condition Rating)	50	39	43	60	51
Distress Index Values					
Alligator Cracking Index	NC	NC	NC	NC	NC
Longitudinal Cracking Index	NC	NC	NC	NC	NC
Tranverse Cracking Index	NC	NC	NC	NC	NC
Patching Index	NC	NC	NC	NC	NC
Rutting Index	NC	NC	NC	NC	NC
Roughness Condition Index (RCI)	50	39	43	60	51

NC - Not Collected



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

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

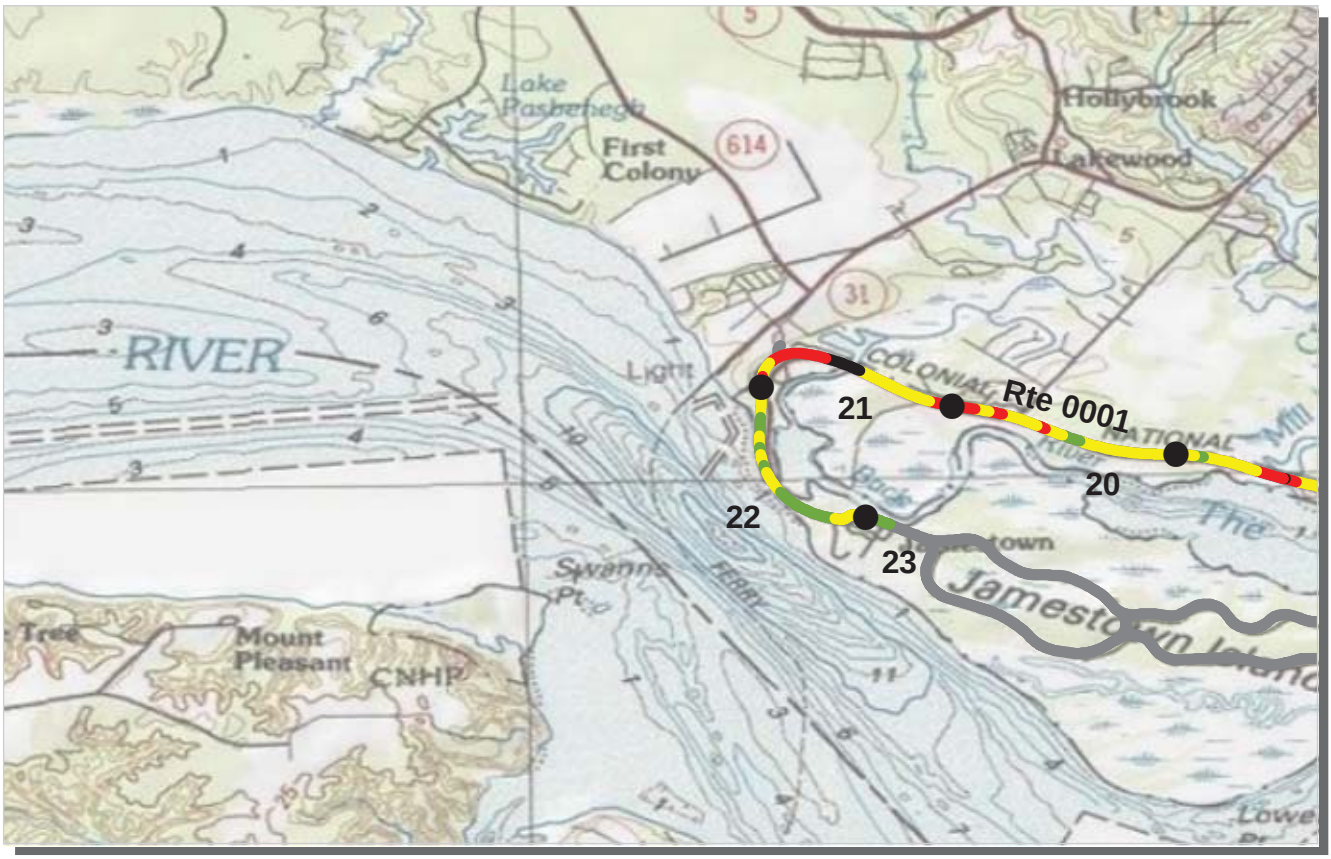
ROUTE: 0001 COLONIAL PARKWAY
COLO : COLONIAL NATIONAL HISTORICAL PARK

COLLECTED: 4/16/2009

NORTHEAST REGION **TOTAL LENGTH: 23.11 Miles**

Section Number	15	16	17	18	19
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
AADT					
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	32	34	32	32	33
Lane Width (ft)	16	17	16	16	16
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
Roadway Condition Information					
SCR (Surface Condition Rating)	NC	NC	NC	NC	NC
PCR (Pavement Condition Rating)	65	67	75	70	62
Distress Index Values					
Alligator Cracking Index	NC	NC	NC	NC	NC
Longitudinal Cracking Index	NC	NC	NC	NC	NC
Tranverse Cracking Index	NC	NC	NC	NC	NC
Patching Index	NC	NC	NC	NC	NC
Rutting Index	NC	NC	NC	NC	NC
Roughness Condition Index (RCI)	65	67	75	70	62

NC - Not Collected



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

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

ROUTE: 0001 COLONIAL PARKWAY
COLO : COLONIAL NATIONAL HISTORICAL PARK

COLLECTED: 4/16/2009
NORTHEAST REGION **TOTAL LENGTH: 23.11 Miles**

Section Number	20	21	22	23	
Section Length (mi)	1.00	1.00	1.00	0.11	
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
AADT					
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2	2	3	2	
Paved Width (ft)	33	39	27	23	
Lane Width (ft)	16	19	13	12	
Shoulder Width Right (ft)	NC	NC	NC	NC	
Shoulder Width Left (ft)	NC	NC	NC	NC	
Roadway Condition Information					
SCR (Surface Condition Rating)	NC	NC	77	86	
PCR (Pavement Condition Rating)	68	60	79	85	
Distress Index Values					
Alligator Cracking Index	NC	NC	100	100	
Longitudinal Cracking Index	NC	NC	100	100	
Tranverse Cracking Index	NC	NC	100	100	
Patching Index	NC	NC	100	100	
Rutting Index	NC	NC	78	87	
Roughness Condition Index (RCI)	68	60	85	83	

NC - Not Collected

PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

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

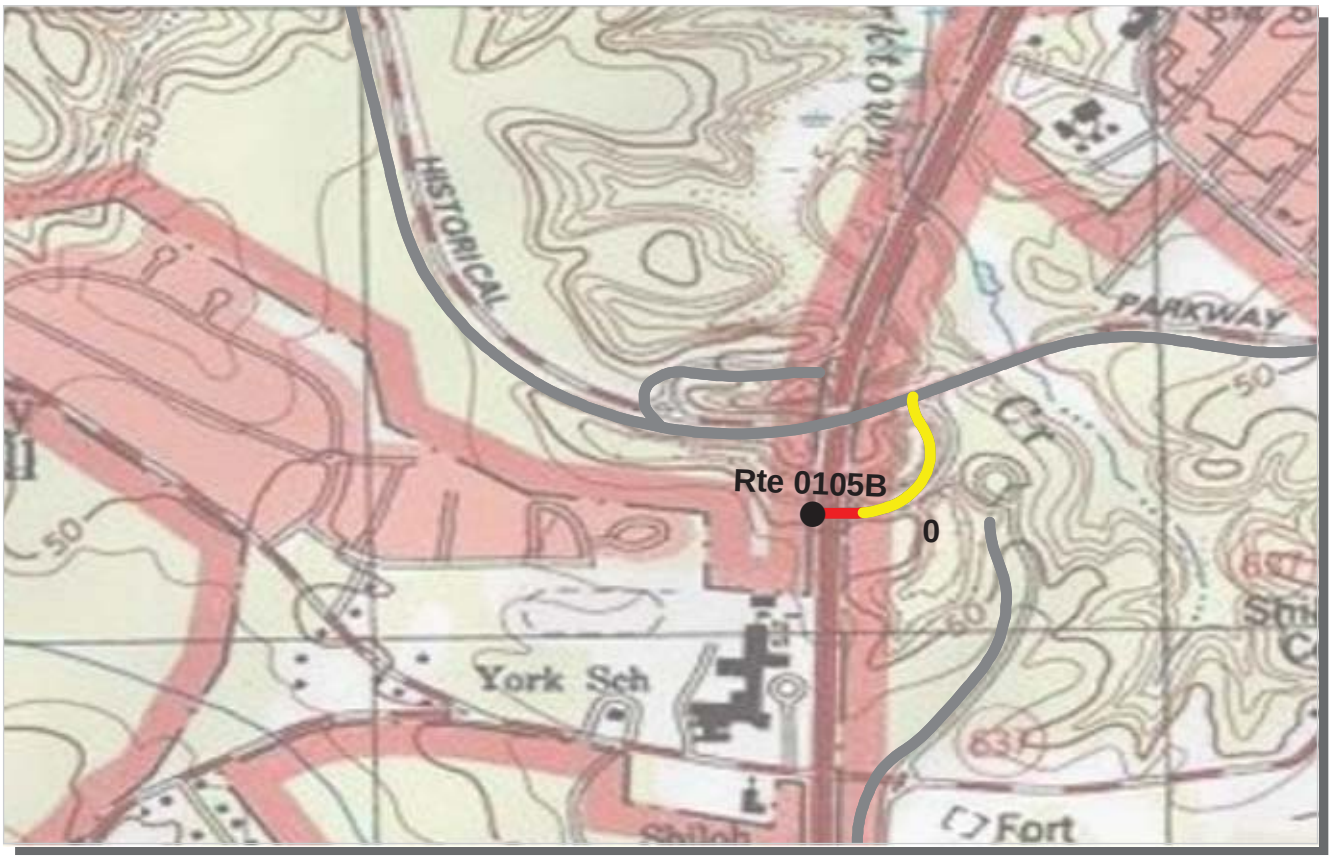
ROUTE: 0105A US ROUTE 17 ACCESS ROAD A
COLO : COLONIAL NATIONAL HISTORICAL PARK

COLLECTED: 4/16/2009
NORTHEAST REGION **TOTAL LENGTH: 0.18 Miles**

Section Number	0				
Section Length (mi)	0.18				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	28				
Lane Width (ft)	15				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	NC				
PCR (Pavement Condition Rating)	54				
Distress Index Values					
Alligator Cracking Index	NC				
Longitudinal Cracking Index	NC				
Tranverse Cracking Index	NC				
Patching Index	NC				
Rutting Index	NC				
Roughness Condition Index (RCI)	54				

NC - Not Collected

ROUTE: 0105A US ROUTE 17 ACCESS ROAD A



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

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

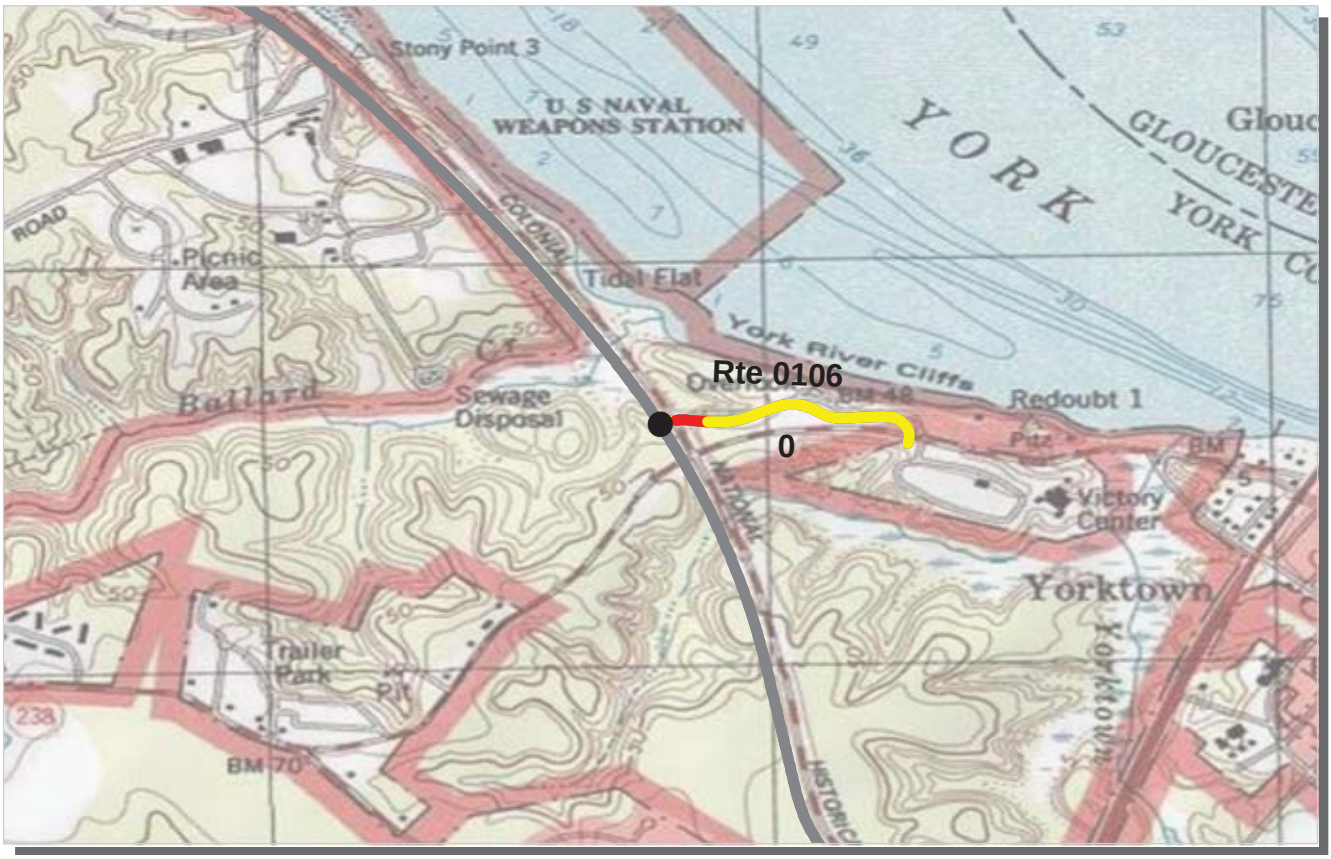
ROUTE: 0105B US ROUTE 17 ACCESS ROAD B
COLO : COLONIAL NATIONAL HISTORICAL PARK

COLLECTED: 4/16/2009
NORTHEAST REGION **TOTAL LENGTH: 0.18 Miles**

Section Number	0				
Section Length (mi)	0.18				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	26				
Lane Width (ft)	12				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	NC				
PCR (Pavement Condition Rating)	54				
Distress Index Values					
Alligator Cracking Index	NC				
Longitudinal Cracking Index	NC				
Tranverse Cracking Index	NC				
Patching Index	NC				
Rutting Index	NC				
Roughness Condition Index (RCI)	54				

NC - Not Collected

ROUTE: 0105B US ROUTE 17 ACCESS ROAD B



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

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

ROUTE: 0106 FUSILIER'S ROAD
COLO : COLONIAL NATIONAL HISTORICAL PARK

COLLECTED: 4/17/2009
NORTHEAST REGION **TOTAL LENGTH: 0.35 Miles**

Section Number	0				
Section Length (mi)	0.35				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	23				
Lane Width (ft)	11				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	61				
PCR (Pavement Condition Rating)	66				
Distress Index Values					
Alligator Cracking Index	94				
Longitudinal Cracking Index	95				
Tranverse Cracking Index	93				
Patching Index	100				
Rutting Index	80				
Roughness Condition Index (RCI)	79				

NC - Not Collected

PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

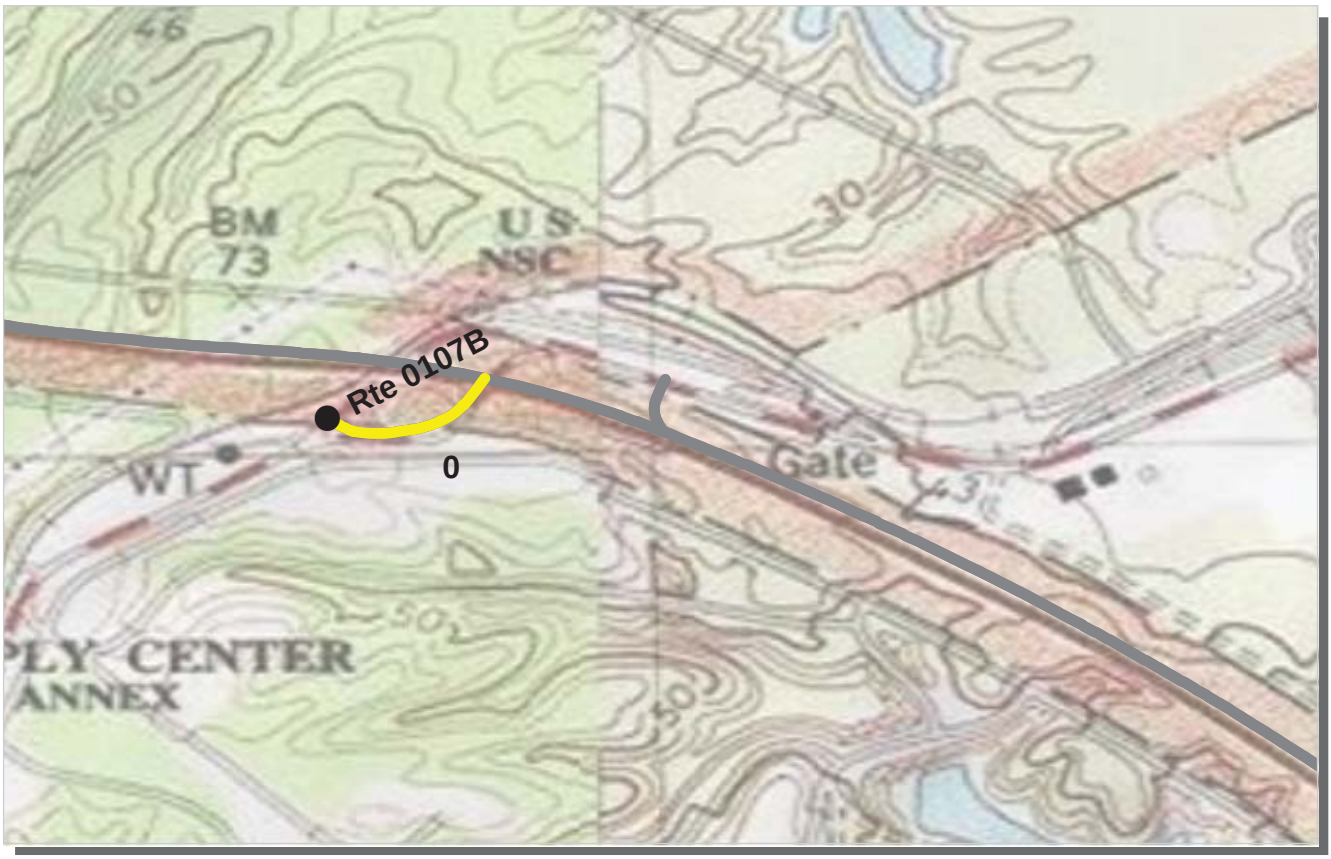
* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0107A CHEATHAM ANNEX ACCESS ROAD A
COLO : COLONIAL NATIONAL HISTORICAL PARK

COLLECTED: 4/15/2009
NORTHEAST REGION **TOTAL LENGTH: 0.04 Miles**

Section Number	0				
Section Length (mi)	0.04				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	36				
Lane Width (ft)	19				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	44				
PCR (Pavement Condition Rating)	47				
Distress Index Values					
Alligator Cracking Index	66				
Longitudinal Cracking Index	91				
Tranverse Cracking Index	97				
Patching Index	100				
Rutting Index	90				
Roughness Condition Index (RCI)	52				

NC - Not Collected



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

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

ROUTE: 0107B CHEATHAM ANNEX ACCESS ROAD B
COLO : COLONIAL NATIONAL HISTORICAL PARK

COLLECTED: 4/15/2009
NORTHEAST REGION **TOTAL LENGTH: 0.12 Miles**

Section Number	0				
Section Length (mi)	0.12				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	26				
Lane Width (ft)	13				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	76				
PCR (Pavement Condition Rating)	76				
Distress Index Values					
Alligator Cracking Index	95				
Longitudinal Cracking Index	93				
Tranverse Cracking Index	95				
Patching Index	100				
Rutting Index	94				
Roughness Condition Index (RCI)	NC				

NC - Not Collected

PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

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

ROUTE: 0108A QUEENS LAKE ACCESS A
COLO : COLONIAL NATIONAL HISTORICAL PARK

COLLECTED: 4/16/2009
NORTHEAST REGION **TOTAL LENGTH: 0.14 Miles**

Section Number	0				
Section Length (mi)	0.14				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	25				
Lane Width (ft)	12				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	74				
PCR (Pavement Condition Rating)	76				
Distress Index Values					
Alligator Cracking Index	98				
Longitudinal Cracking Index	95				
Tranverse Cracking Index	99				
Patching Index	100				
Rutting Index	82				
Roughness Condition Index (RCI)	77				

NC - Not Collected

ROUTE: 0108A QUEENS LAKE ACCESS A

PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

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

ROUTE: 0108B QUEENS LAKE ACCESS B
COLO : COLONIAL NATIONAL HISTORICAL PARK

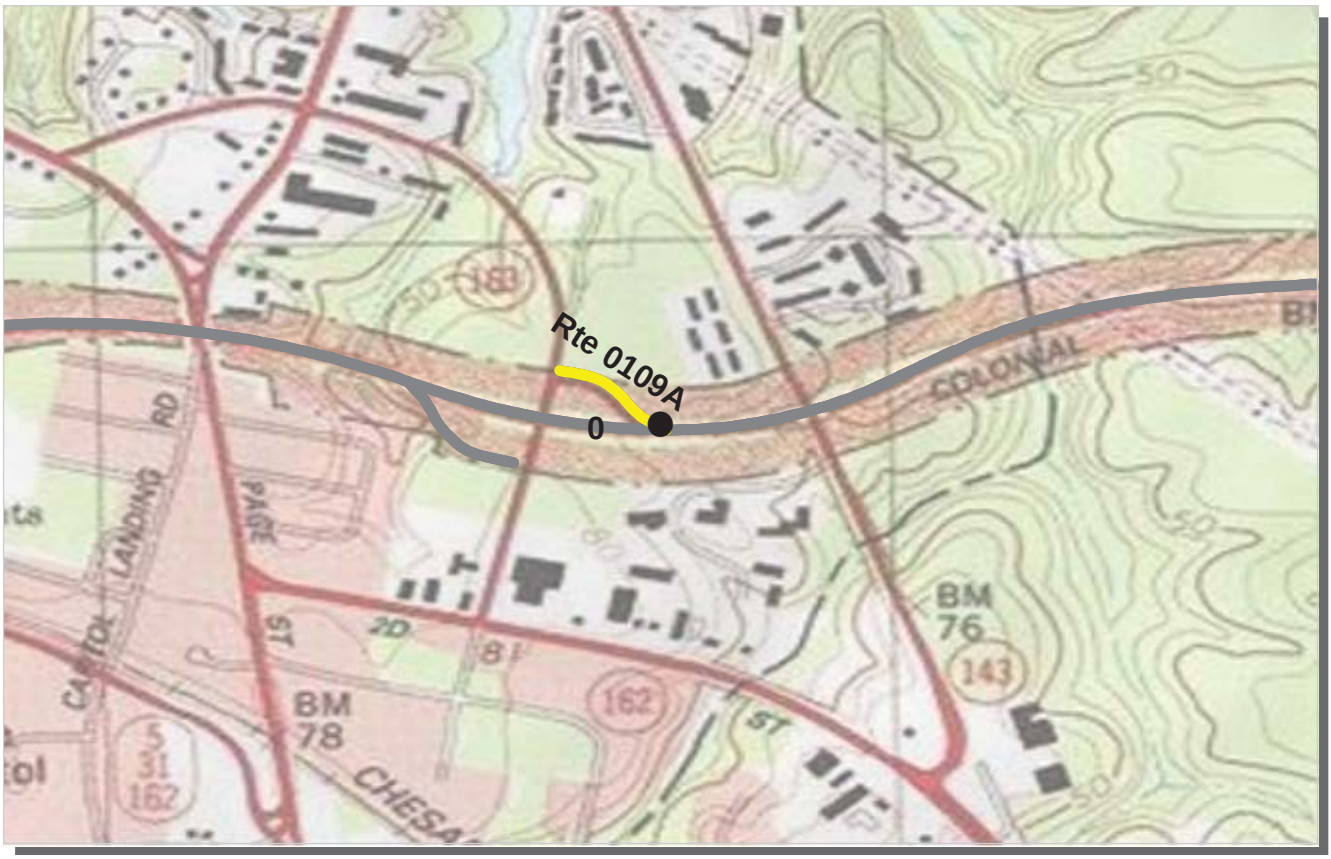
COLLECTED: 4/15/2009

NORTHEAST REGION **TOTAL LENGTH: 0.13 Miles**

Section Number	0				
Section Length (mi)	0.13				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	25				
Lane Width (ft)	13				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	92				
PCR (Pavement Condition Rating)	87				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	99				
Tranverse Cracking Index	99				
Patching Index	100				
Rutting Index	93				
Roughness Condition Index (RCI)	80				

NC - Not Collected

ROUTE: 0108B QUEENS LAKE ACCESS B



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

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

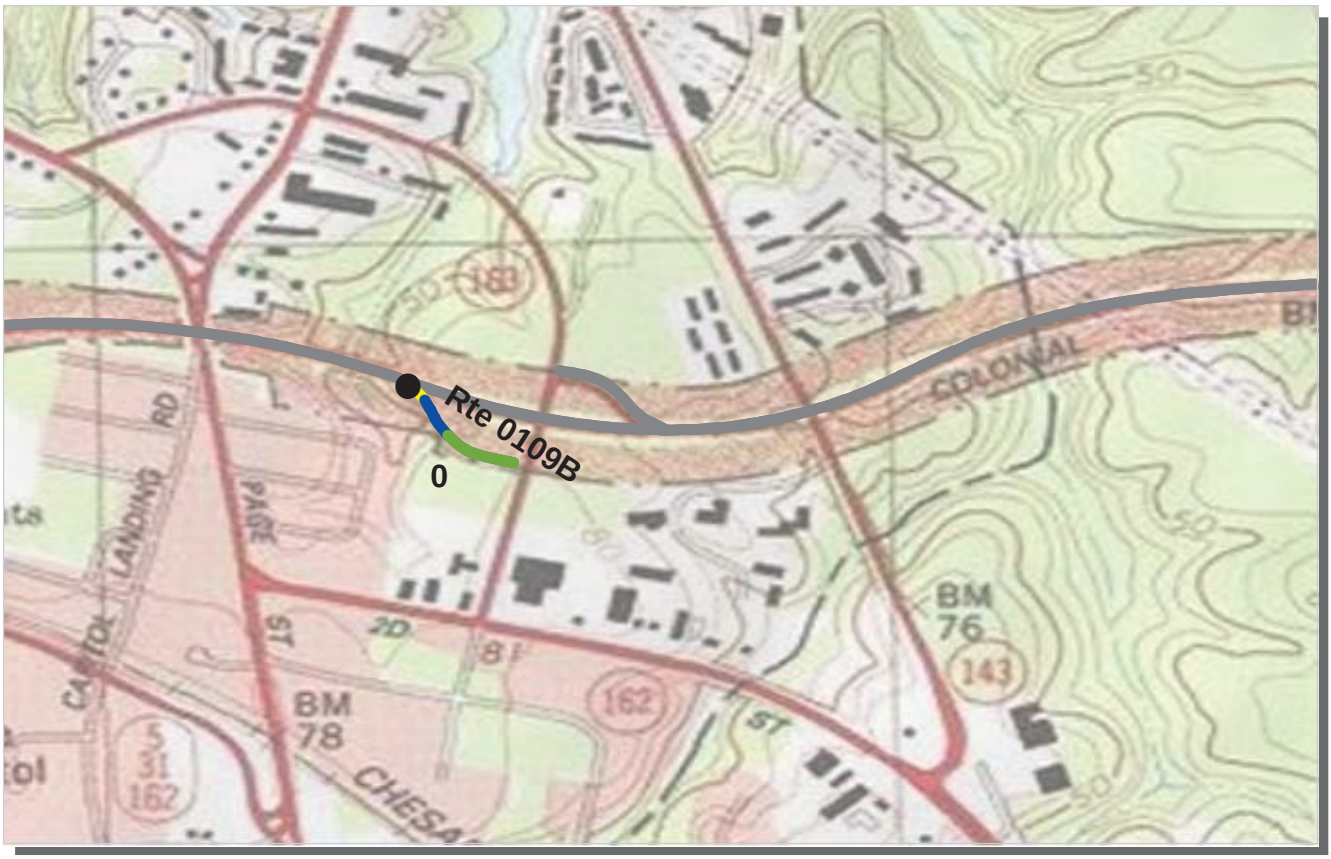
ROUTE: 0109A PARKWAY DRIVE ACCESS ROAD A
COLO : COLONIAL NATIONAL HISTORICAL PARK

COLLECTED: 4/16/2009
NORTHEAST REGION **TOTAL LENGTH: 0.10 Miles**

Section Number	0				
Section Length (mi)	0.10				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	25				
Lane Width (ft)	14				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	57				
PCR (Pavement Condition Rating)	68				
Distress Index Values					
Alligator Cracking Index	99				
Longitudinal Cracking Index	88				
Tranverse Cracking Index	97				
Patching Index	100				
Rutting Index	73				
Roughness Condition Index (RCI)	85				

NC - Not Collected

ROUTE: 0109A PARKWAY DRIVE ACCESS ROAD A



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

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

ROUTE: 0109B PARKWAY DRIVE ACCESS ROAD B
COLO : COLONIAL NATIONAL HISTORICAL PARK

COLLECTED: 4/16/2009
NORTHEAST REGION **TOTAL LENGTH: 0.12 Miles**

Section Number	0				
Section Length (mi)	0.12				
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
AADT					
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	25				
Lane Width (ft)	13				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	84				
PCR (Pavement Condition Rating)	85				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	99				
Tranverse Cracking Index	96				
Patching Index	100				
Rutting Index	89				
Roughness Condition Index (RCI)	86				

NC - Not Collected

ROUTE: 0109B PARKWAY DRIVE ACCESS ROAD B

PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

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

ROUTE: 0110 TAZEWELL HALL ACCESS ROAD
COLO : COLONIAL NATIONAL HISTORICAL PARK

COLLECTED: 4/16/2009

NORTHEAST REGION **TOTAL LENGTH: 0.06 Miles**

Section Number	0				
Section Length (mi)	0.06				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	29				
Lane Width (ft)	14				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	NC				
PCR (Pavement Condition Rating)	15				
Distress Index Values					
Alligator Cracking Index	NC				
Longitudinal Cracking Index	NC				
Tranverse Cracking Index	NC				
Patching Index	NC				
Rutting Index	NC				
Roughness Condition Index (RCI)	15				

NC - Not Collected

ROUTE: 0110 TAZEWELL HALL ACCESS ROAD

PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

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

ROUTE: 0111A STATE ROUTE 199 INTERCHANGE A
COLO : COLONIAL NATIONAL HISTORICAL PARK

COLLECTED: 4/15/2009
NORTHEAST REGION **TOTAL LENGTH: 0.11 Miles**

Section Number	0				
Section Length (mi)	0.11				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	25				
Lane Width (ft)	12				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	67				
PCR (Pavement Condition Rating)	68				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	90				
Tranverse Cracking Index	93				
Patching Index	100				
Rutting Index	84				
Roughness Condition Index (RCI)	62				

NC - Not Collected

ROUTE: 0111A STATE ROUTE 199 INTERCHANGE A

PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

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

ROUTE: 0111B STATE ROUTE 199 INTERCHANGE B
COLO : COLONIAL NATIONAL HISTORICAL PARK

COLLECTED: 4/15/2009
NORTHEAST REGION **TOTAL LENGTH: 0.13 Miles**

Section Number	0				
Section Length (mi)	0.13				
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
AADT					
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	25				
Lane Width (ft)	13				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	77				
PCR (Pavement Condition Rating)	74				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Tranverse Cracking Index	94				
Patching Index	100				
Rutting Index	83				
Roughness Condition Index (RCI)	54				

NC - Not Collected

ROUTE: 0111B STATE ROUTE 199 INTERCHANGE B

PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

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

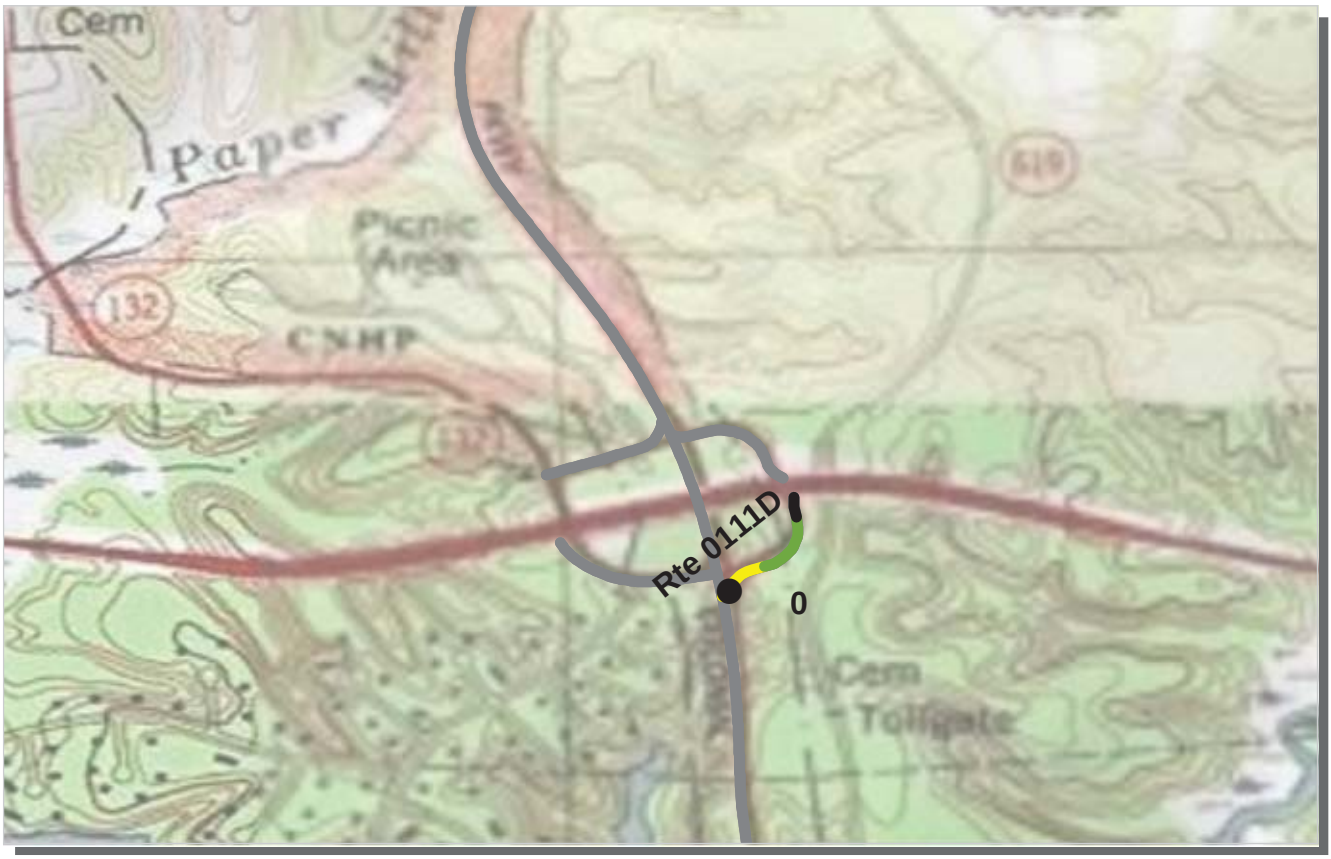
ROUTE: 0111C STATE ROUTE 199 INTERCHANGE C
COLO : COLONIAL NATIONAL HISTORICAL PARK

COLLECTED: 4/15/2009
NORTHEAST REGION **TOTAL LENGTH: 0.11 Miles**

Section Number	0				
Section Length (mi)	0.11				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	28				
Lane Width (ft)	14				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	87				
PCR (Pavement Condition Rating)	83				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	99				
Tranverse Cracking Index	100				
Patching Index	100				
Rutting Index	88				
Roughness Condition Index (RCI)	68				

NC - Not Collected

ROUTE: 0111C STATE ROUTE 199 INTERCHANGE C



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

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

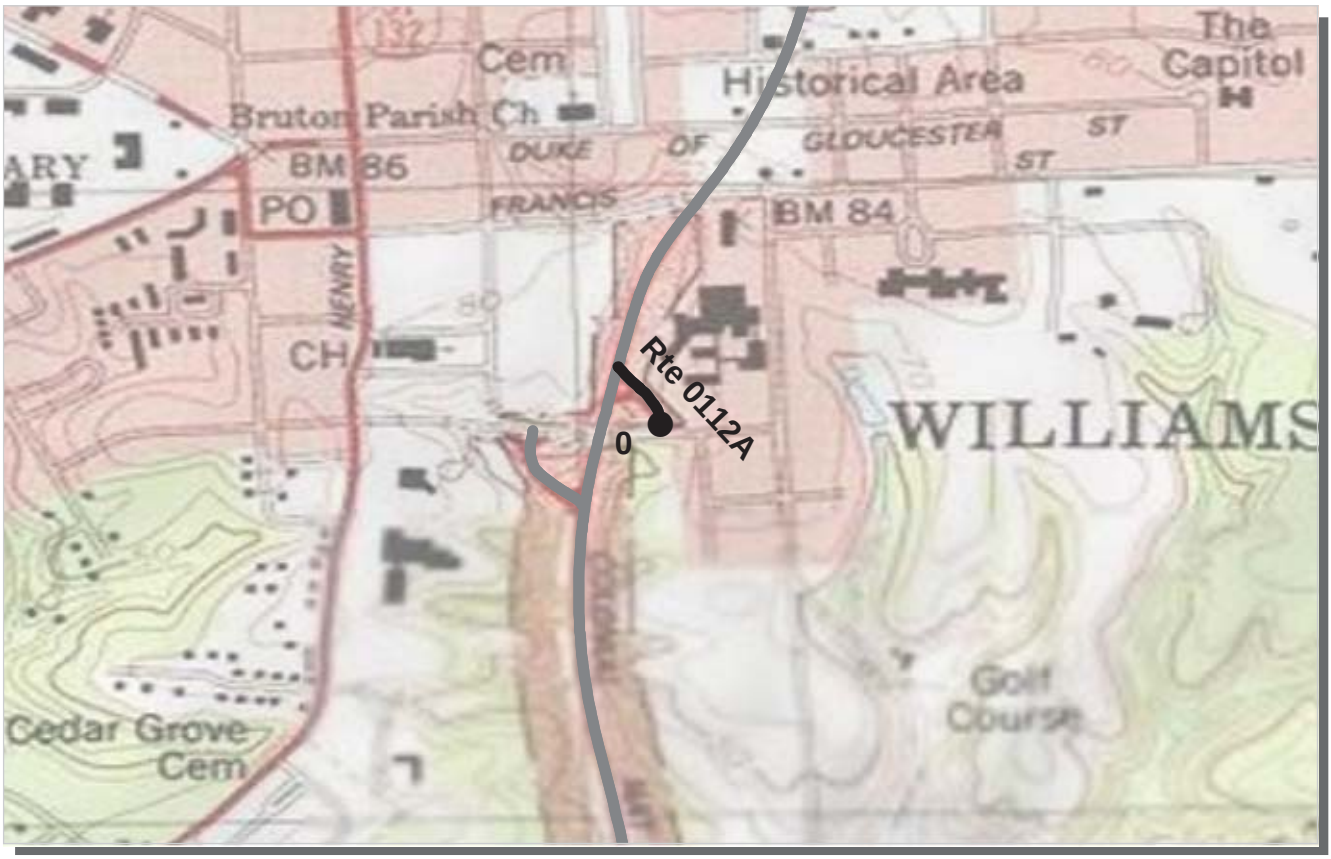
ROUTE: 0111D STATE ROUTE 199 INTERCHANGE D
COLO : COLONIAL NATIONAL HISTORICAL PARK

COLLECTED: 4/15/2009
NORTHEAST REGION **TOTAL LENGTH: 0.12 Miles**

Section Number	0				
Section Length (mi)	0.12				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	27				
Lane Width (ft)	13				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	79				
PCR (Pavement Condition Rating)	76				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	98				
Tranverse Cracking Index	96				
Patching Index	98				
Rutting Index	86				
Roughness Condition Index (RCI)	74				

NC - Not Collected

ROUTE: 0111D STATE ROUTE 199 INTERCHANGE D



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

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

ROUTE: 0112A NEWPORT AVENUE ACCESS ROAD A
COLO : COLONIAL NATIONAL HISTORICAL PARK

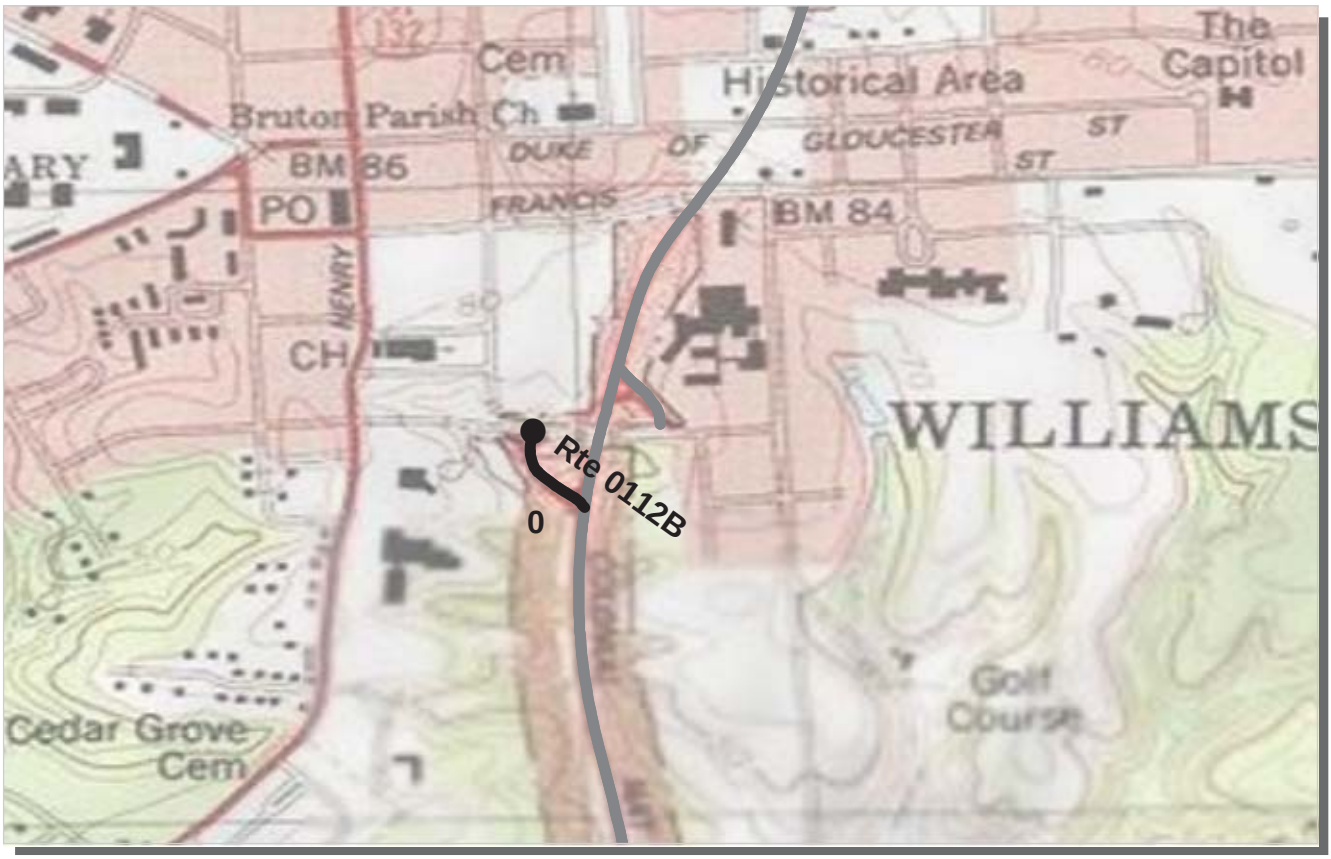
COLLECTED: 4/16/2009

NORTHEAST REGION **TOTAL LENGTH: 0.06 Miles**

Section Number	0				
Section Length (mi)	0.06				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	31				
Lane Width (ft)	15				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	NC				
PCR (Pavement Condition Rating)	NC				
Distress Index Values					
Alligator Cracking Index	NC				
Longitudinal Cracking Index	NC				
Tranverse Cracking Index	NC				
Patching Index	NC				
Rutting Index	NC				
Roughness Condition Index (RCI)	NC				

NC - Not Collected

ROUTE: 0112A NEWPORT AVENUE ACCESS ROAD A



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

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

ROUTE: 0112B NEWPORT AVENUE ACCESS ROAD B
COLO : COLONIAL NATIONAL HISTORICAL PARK

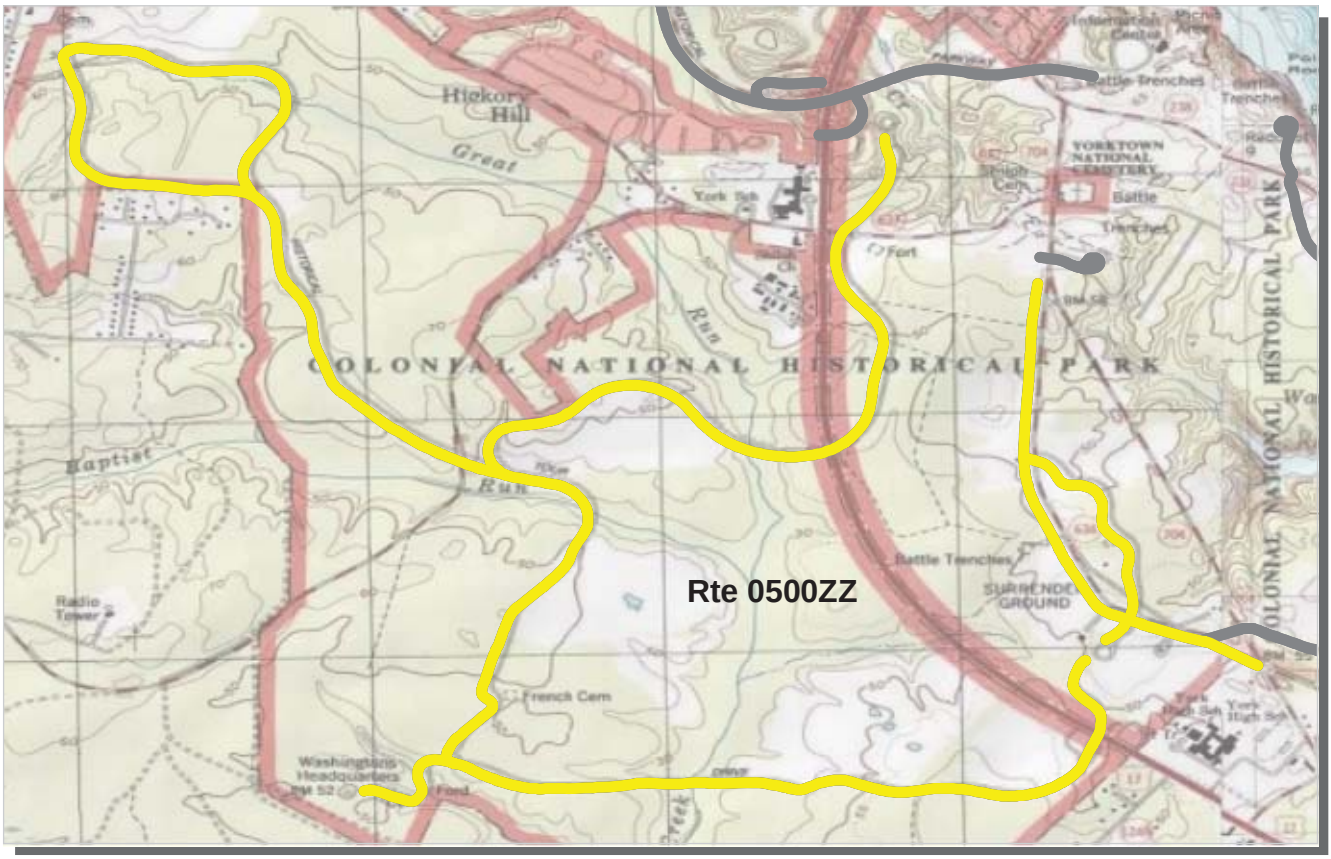
COLLECTED: 4/16/2009

NORTHEAST REGION **TOTAL LENGTH: 0.09 Miles**

Section Number	0				
Section Length (mi)	0.09				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	31				
Lane Width (ft)	16				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	NC				
PCR (Pavement Condition Rating)	NC				
Distress Index Values					
Alligator Cracking Index	NC				
Longitudinal Cracking Index	NC				
Tranverse Cracking Index	NC				
Patching Index	NC				
Rutting Index	NC				
Roughness Condition Index (RCI)	NC				

NC - Not Collected

ROUTE: 0112B NEWPORT AVENUE ACCESS ROAD B



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

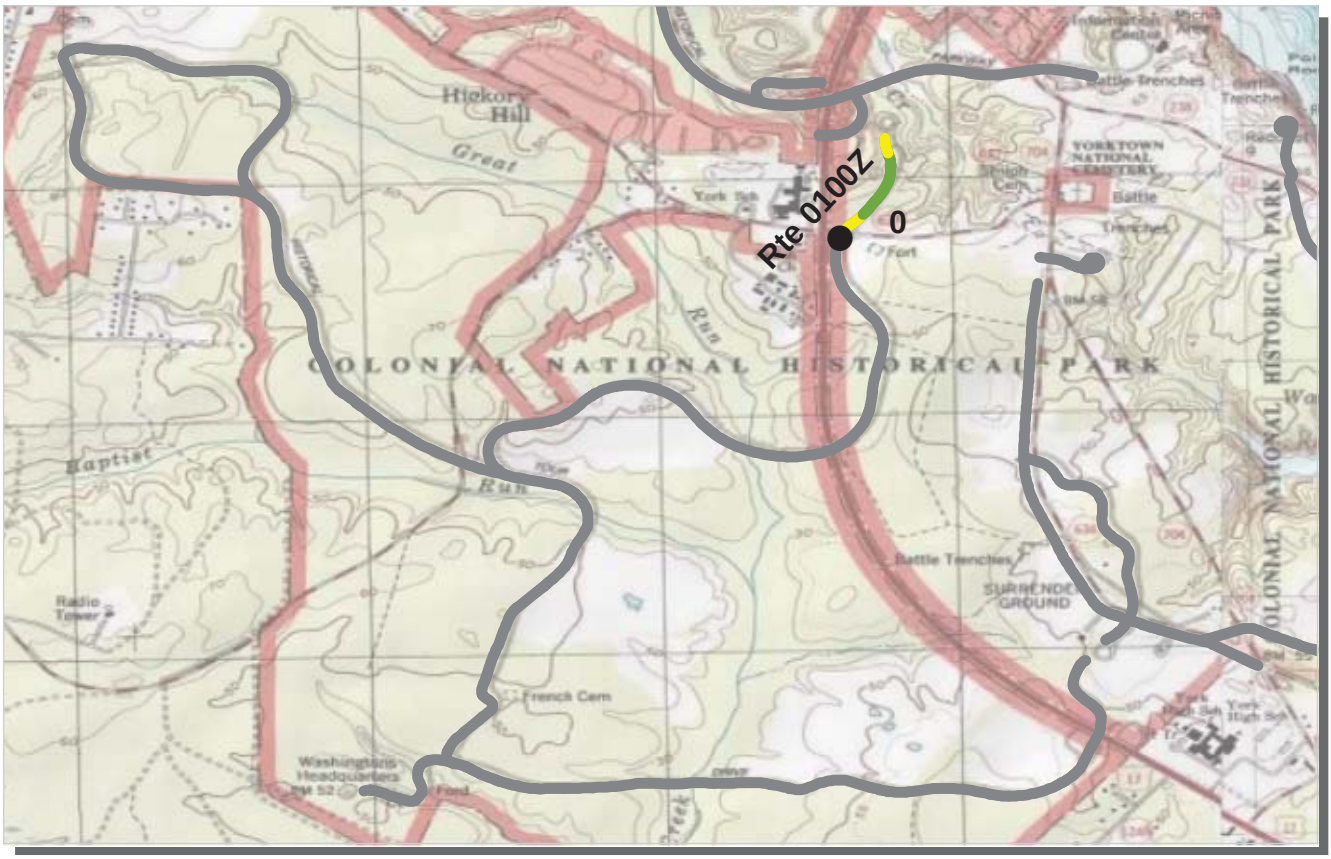
* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0500ZZ YORKTOWN WEST TOUR ROUTES
COLO : COLONIAL NATIONAL HISTORICAL PARK

Summary Record **COLLECTED: 4/17/2009**
NORTHEAST REGION **TOTAL LENGTH: 9.24 Miles**

Section Number					
Section Length (mi)					
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	N/A				
Paved Width (ft)	N/A				
Lane Width (ft)	N/A				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	73				
PCR (Pavement Condition Rating)	80				
Distress Index Values					
Alligator Cracking Index	N/A				
Longitudinal Cracking Index	N/A				
Tranverse Cracking Index	N/A				
Patching Index	N/A				
Rutting Index	N/A				
Roughness Condition Index (RCI)	N/A				

NC - Not Collected



PCR	Poor	Fair	Good	Excellent	No Data
	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)	

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

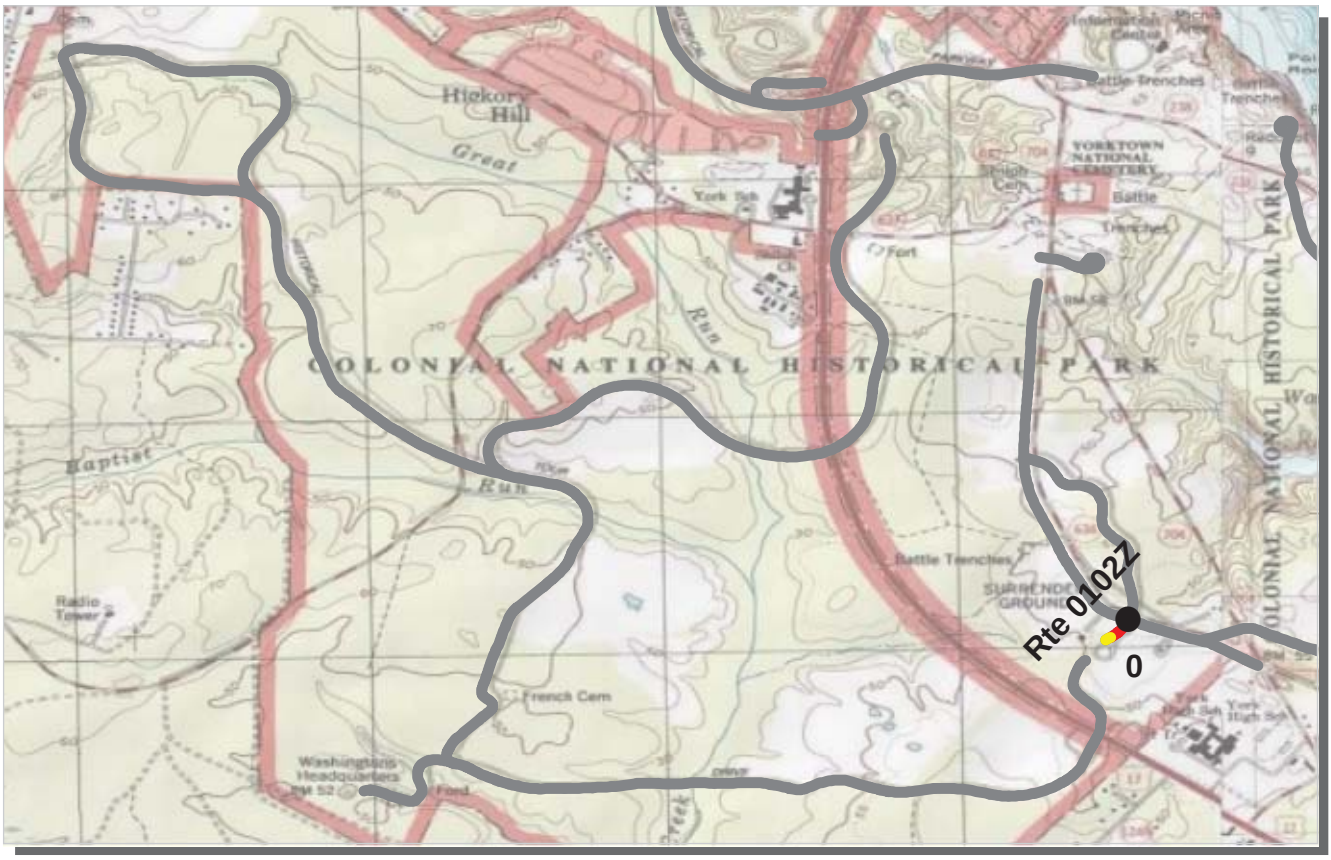
ROUTE: 0100Z UNTOUCHED REDOUBT ROAD
COLO : COLONIAL NATIONAL HISTORICAL PARK

Subcomponent Record **COLLECTED: 4/17/2009**
NORTHEAST REGION **TOTAL LENGTH: 0.30 Miles**

Section Number	0				
Section Length (mi)	0.30				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	21				
Lane Width (ft)	10				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	75				
PCR (Pavement Condition Rating)	81				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Tranverse Cracking Index	100				
Patching Index	100				
Rutting Index	76				
Roughness Condition Index (RCI)	99				

NC - Not Collected

ROUTE: 0100Z UNTOUCHED REDOUBT ROAD



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

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

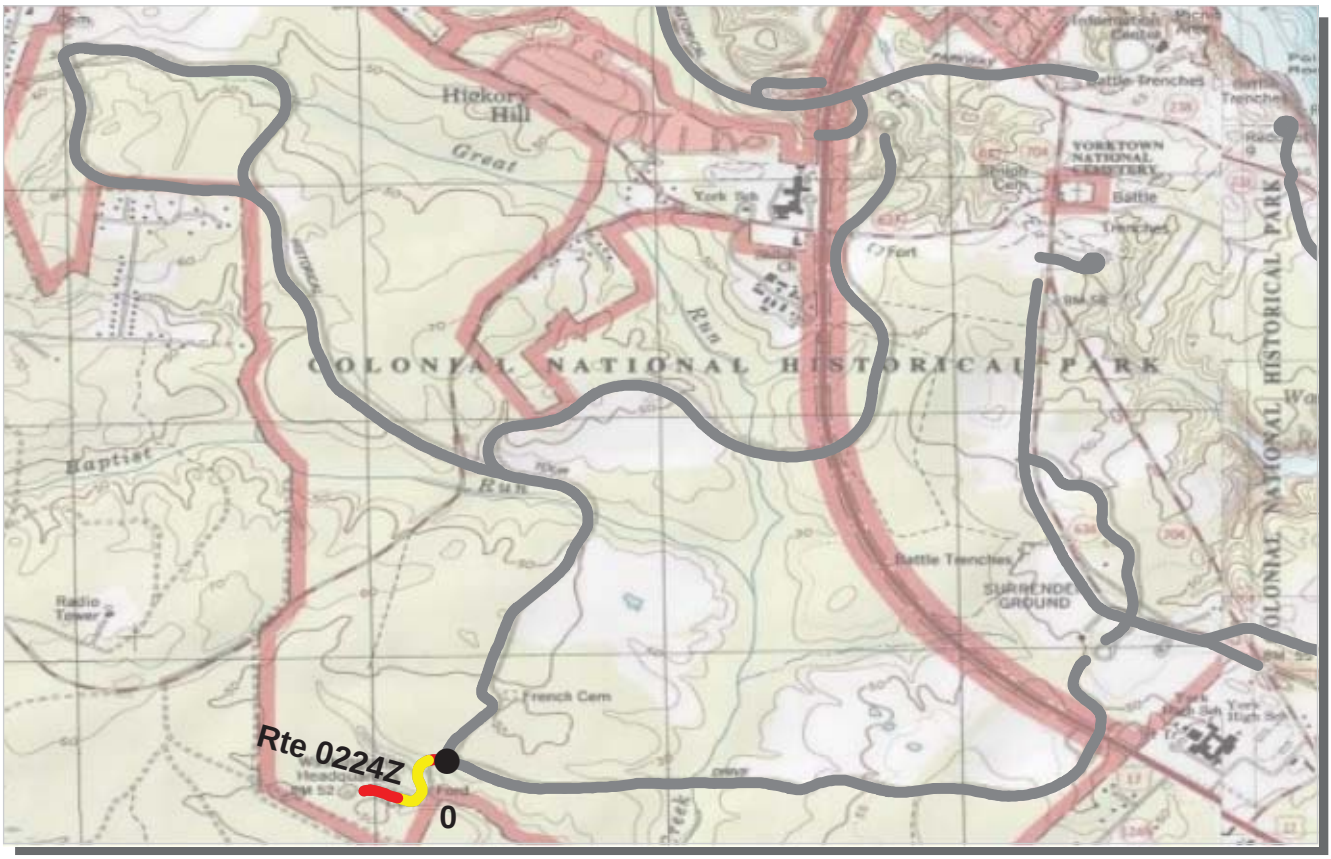
ROUTE: 0102Z SURRENDER FIELD ROAD
COLO : COLONIAL NATIONAL HISTORICAL PARK

Subcomponent Record **COLLECTED: 4/16/2009**
NORTHEAST REGION **TOTAL LENGTH: 0.07 Miles**

Section Number	0				
Section Length (mi)	0.07				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	19				
Lane Width (ft)	9				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	59				
PCR (Pavement Condition Rating)	60				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	98				
Tranverse Cracking Index	100				
Patching Index	100				
Rutting Index	62				
Roughness Condition Index (RCI)	97				

NC - Not Collected

ROUTE: 0102Z SURRENDER FIELD ROAD



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

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

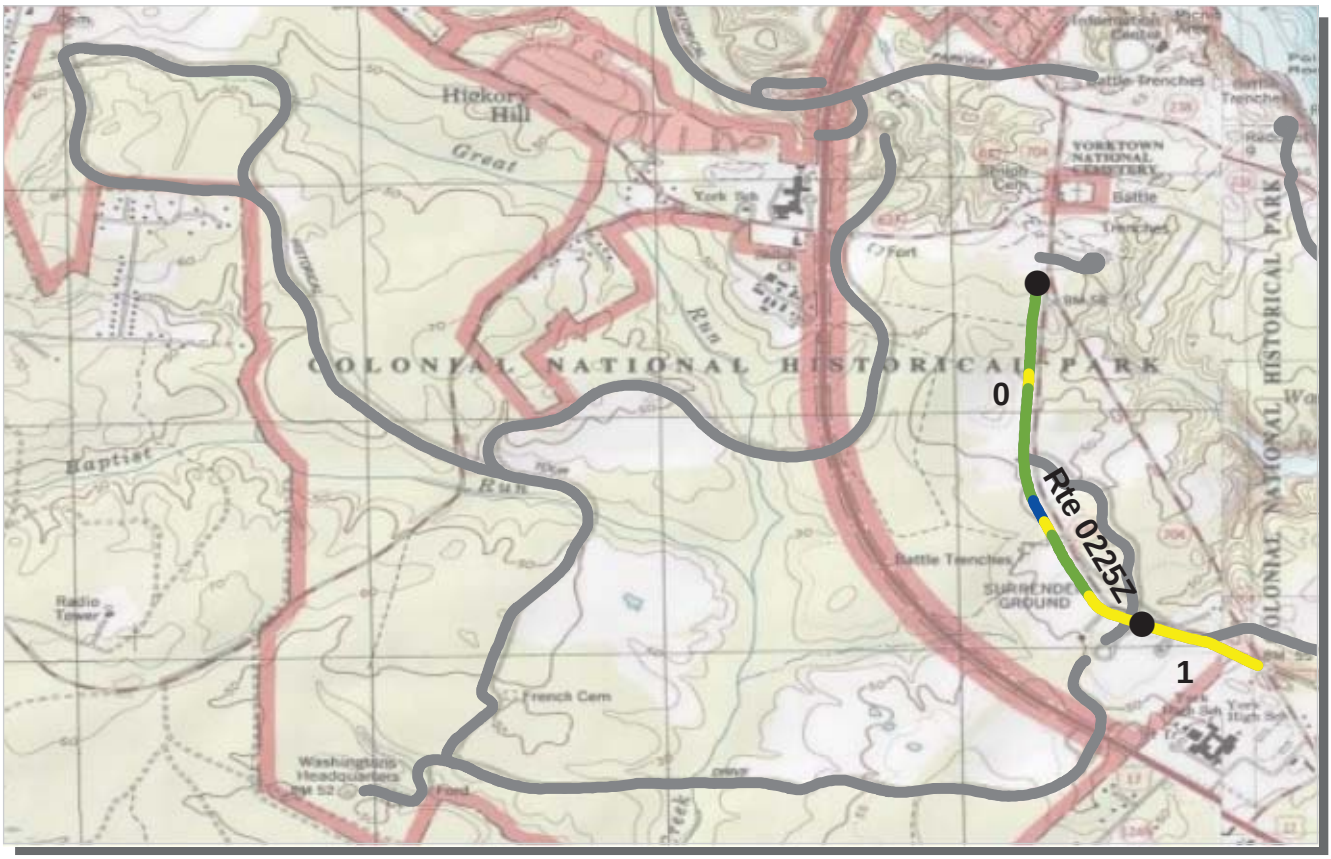
ROUTE: 0224Z WASHINGTON'S HEADQUARTERS ROAD
COLO : COLONIAL NATIONAL HISTORICAL PARK

Subcomponent Record **COLLECTED: 4/17/2009**
NORTHEAST REGION **TOTAL LENGTH: 0.28 Miles**

Section Number	0				
Section Length (mi)	0.28				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	18				
Lane Width (ft)	10				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	60				
PCR (Pavement Condition Rating)	62				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Tranverse Cracking Index	100				
Patching Index	100				
Rutting Index	60				
Roughness Condition Index (RCI)	84				

NC - Not Collected

ROUTE: 0224Z WASHINGTON'S HEADQUARTERS ROAD



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

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

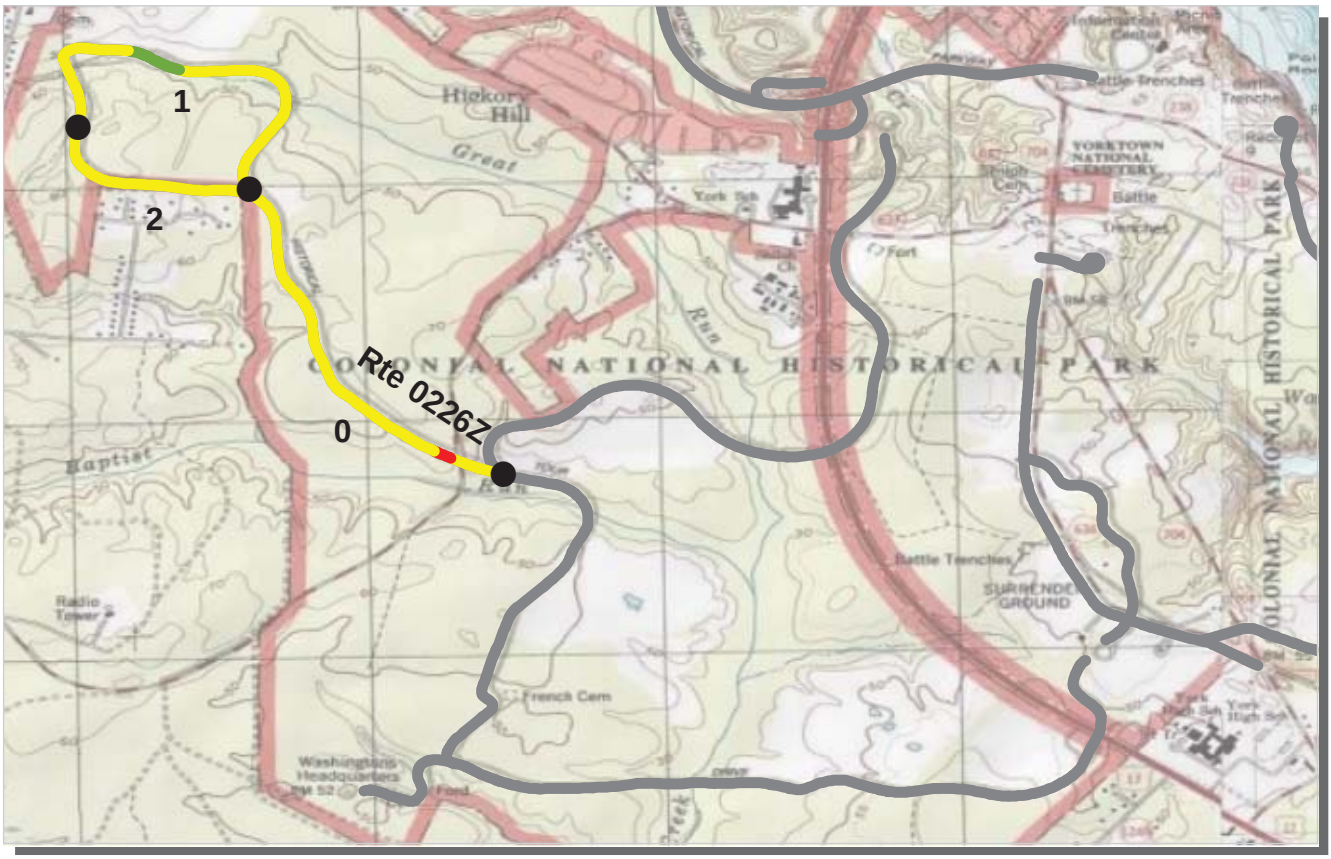
ROUTE: 0225Z SURRENDER ROAD
COLO : COLONIAL NATIONAL HISTORICAL PARK

Subcomponent Record **COLLECTED: 4/16/2009**
NORTHEAST REGION **TOTAL LENGTH: 1.27 Miles**

Section Number	0	1			
Section Length (mi)	1.00	0.27			
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov				
SADT	Click on PROGRAMS / NPS Traffic Data				
ADT Date	(Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	16	16			
Lane Width (ft)	8	8			
Shoulder Width Right (ft)	NC	NC			
Shoulder Width Left (ft)	NC	NC			
Roadway Condition Information					
SCR (Surface Condition Rating)	83	75			
PCR (Pavement Condition Rating)	86	82			
Distress Index Values					
Alligator Cracking Index	100	100			
Longitudinal Cracking Index	100	100			
Tranverse Cracking Index	100	100			
Patching Index	100	100			
Rutting Index	84	75			
Roughness Condition Index (RCI)	90	97			

NC - Not Collected

ROUTE: 0225Z SURRENDER ROAD



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

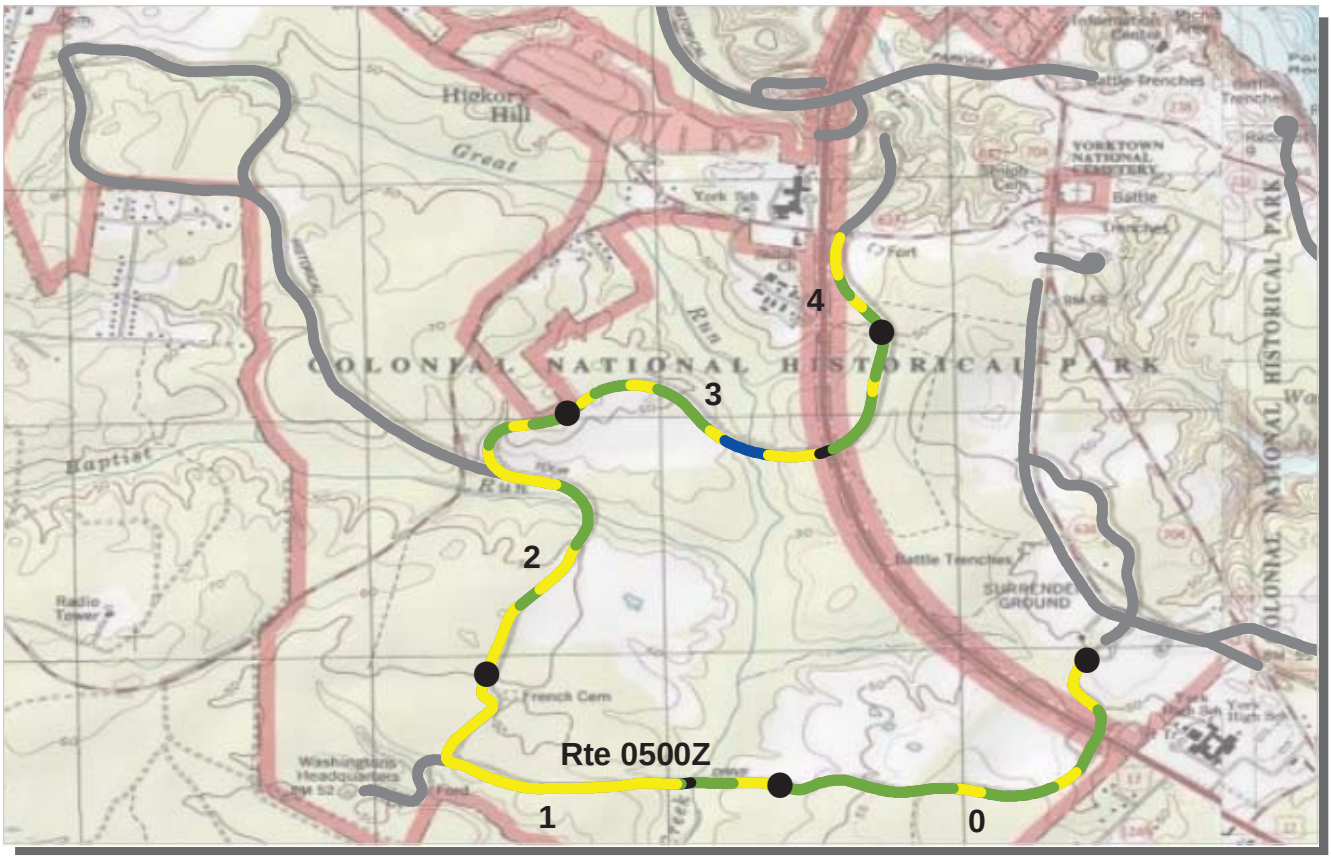
* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0226Z FRENCH ENCAMPMENT TOUR ROAD
COLO : COLONIAL NATIONAL HISTORICAL PARK

Subcomponent Record **COLLECTED: 4/17/2009**
NORTHEAST REGION **TOTAL LENGTH: 2.49 Miles**

Section Number	0	1	2		
Section Length (mi)	1.00	1.00	0.49		
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	1	1	1		
Paved Width (ft)	18	12	11		
Lane Width (ft)	10	12	11		
Shoulder Width Right (ft)	NC	NC	NC		
Shoulder Width Left (ft)	NC	NC	NC		
Roadway Condition Information					
SCR (Surface Condition Rating)	65	72	63		
PCR (Pavement Condition Rating)	76	81	76		
Distress Index Values					
Alligator Cracking Index	100	100	100		
Longitudinal Cracking Index	100	99	98		
Tranverse Cracking Index	100	100	100		
Patching Index	100	100	100		
Rutting Index	66	72	66		
Roughness Condition Index (RCI)	92	95	98		

NC - Not Collected



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

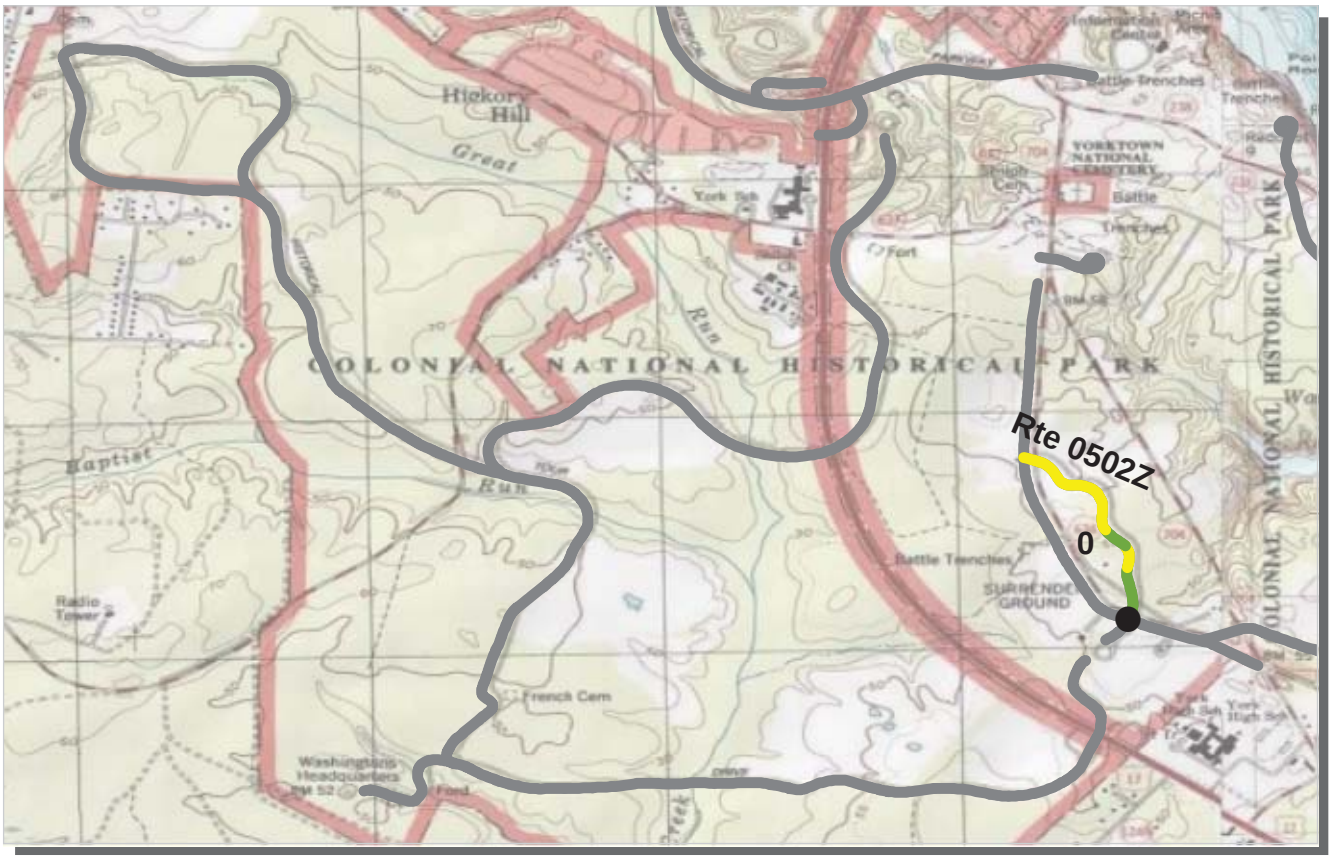
* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0500Z BATTLEFIELD TOUR ROAD
COLO : COLONIAL NATIONAL HISTORICAL PARK

Subcomponent Record **COLLECTED: 4/17/2009**
NORTHEAST REGION **TOTAL LENGTH: 4.28 Miles**

Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	0.28
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	1	1	1	1	1
Paved Width (ft)	12	12	12	12	12
Lane Width (ft)	12	12	12	12	12
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
Roadway Condition Information					
SCR (Surface Condition Rating)	81	67	77	80	76
PCR (Pavement Condition Rating)	85	77	83	86	81
Distress Index Values					
Alligator Cracking Index	100	100	100	100	100
Longitudinal Cracking Index	100	100	100	99	100
Tranverse Cracking Index	100	100	100	100	100
Patching Index	100	100	100	100	100
Rutting Index	81	67	77	81	76
Roughness Condition Index (RCI)	93	92	91	95	93

NC - Not Collected



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

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

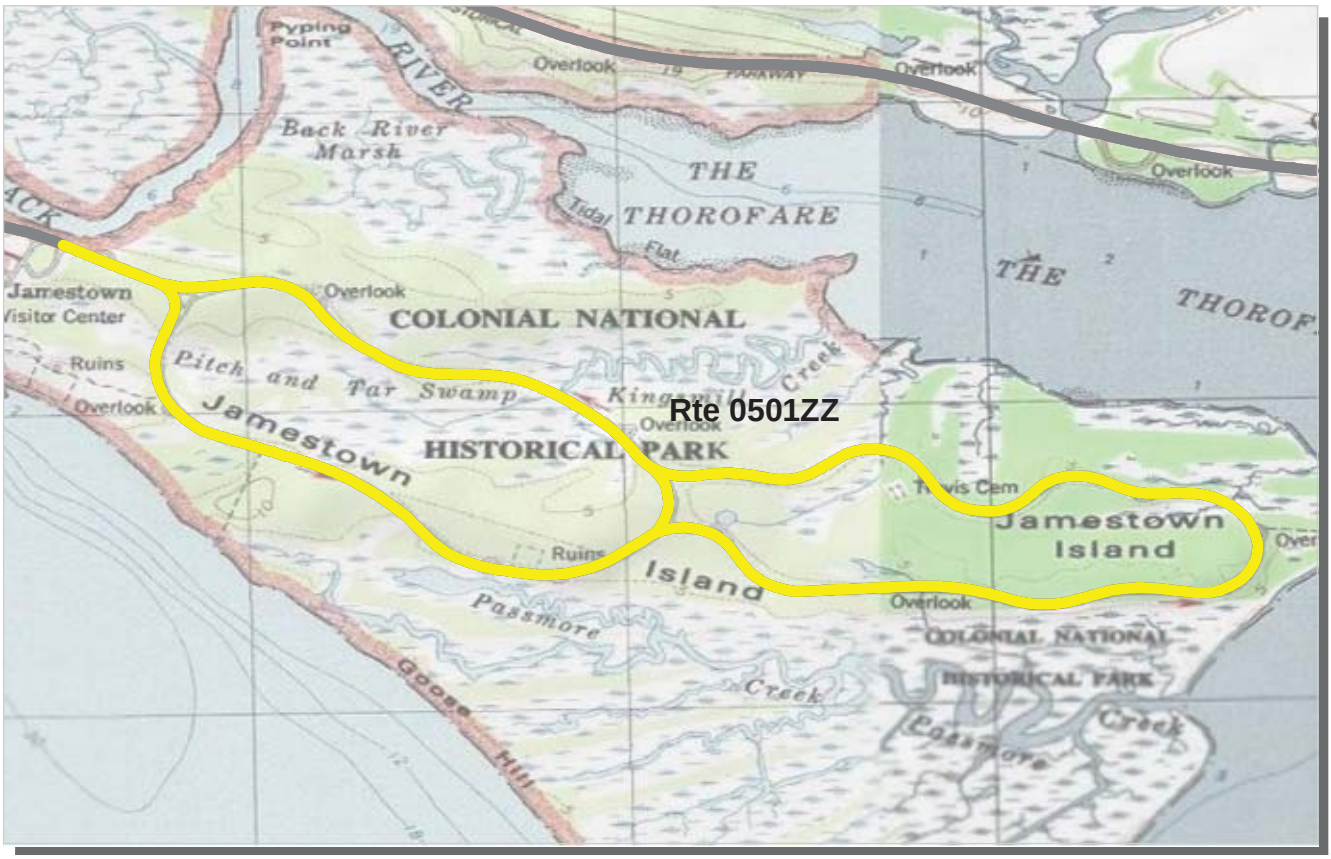
ROUTE: 0502Z SHORT LOOP ROAD
COLO : COLONIAL NATIONAL HISTORICAL PARK

Subcomponent Record **COLLECTED: 4/17/2009**
NORTHEAST REGION **TOTAL LENGTH: 0.55 Miles**

Section Number	0				
Section Length (mi)	0.55				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	12				
Lane Width (ft)	12				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	73				
PCR (Pavement Condition Rating)	80				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Tranverse Cracking Index	100				
Patching Index	100				
Rutting Index	73				
Roughness Condition Index (RCI)	93				

NC - Not Collected

ROUTE: 0502Z SHORT LOOP ROAD



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

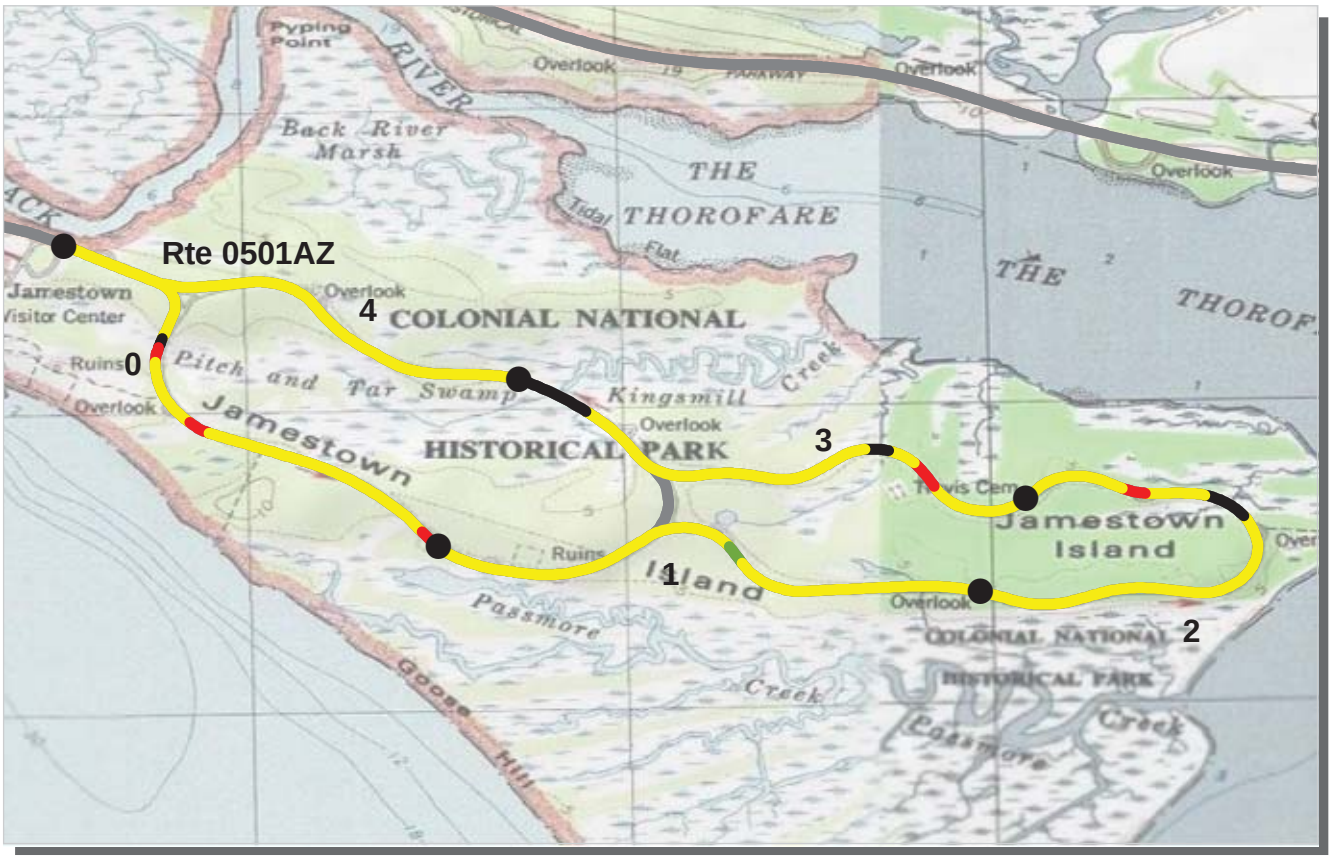
* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0501ZZ ISLAND DRIVE ROUTES
COLO : COLONIAL NATIONAL HISTORICAL PARK

Summary Record **COLLECTED: 4/16/2009**
NORTHEAST REGION **TOTAL LENGTH: 4.82 Miles**

Section Number					
Section Length (mi)					
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
AADT					
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	N/A				
Paved Width (ft)	N/A				
Lane Width (ft)	N/A				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	67				
PCR (Pavement Condition Rating)	72				
Distress Index Values					
Alligator Cracking Index	N/A				
Longitudinal Cracking Index	N/A				
Tranverse Cracking Index	N/A				
Patching Index	N/A				
Rutting Index	N/A				
Roughness Condition Index (RCI)	N/A				

NC - Not Collected



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

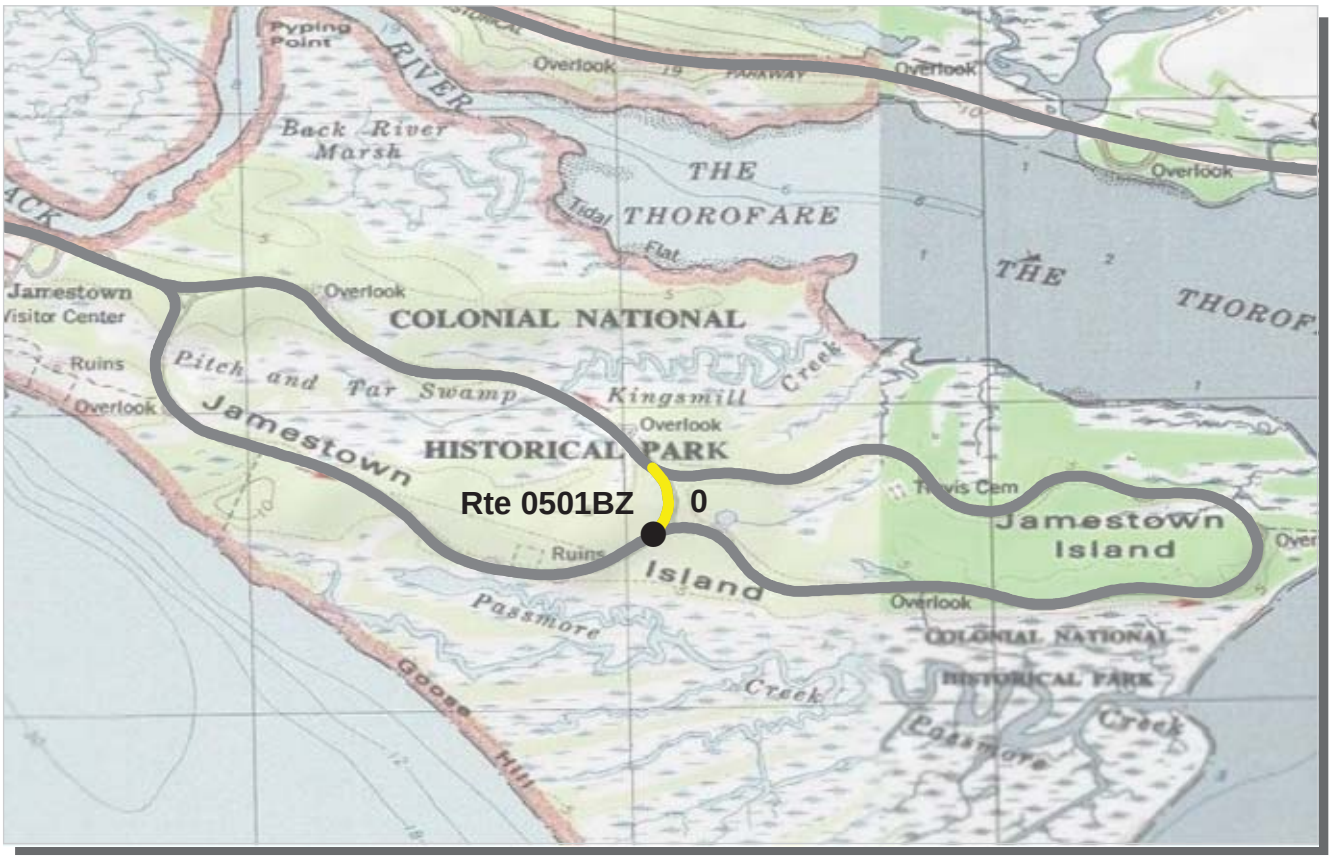
* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0501AZ ISLAND DRIVE
COLO : COLONIAL NATIONAL HISTORICAL PARK

Subcomponent Record **COLLECTED: 4/16/2009**
NORTHEAST REGION **TOTAL LENGTH: 4.67 Miles**

Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	0.67
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	1	1	1	1	1
Paved Width (ft)	14	12	12	12	12
Lane Width (ft)	12	12	12	12	12
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
Roadway Condition Information					
SCR (Surface Condition Rating)	65	69	66	67	67
PCR (Pavement Condition Rating)	71	73	72	71	74
Distress Index Values					
Alligator Cracking Index	99	100	100	99	100
Longitudinal Cracking Index	98	99	97	98	98
Tranverse Cracking Index	99	99	97	98	99
Patching Index	100	100	100	100	100
Rutting Index	69	71	72	72	71
Roughness Condition Index (RCI)	82	79	81	78	83

NC - Not Collected



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

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

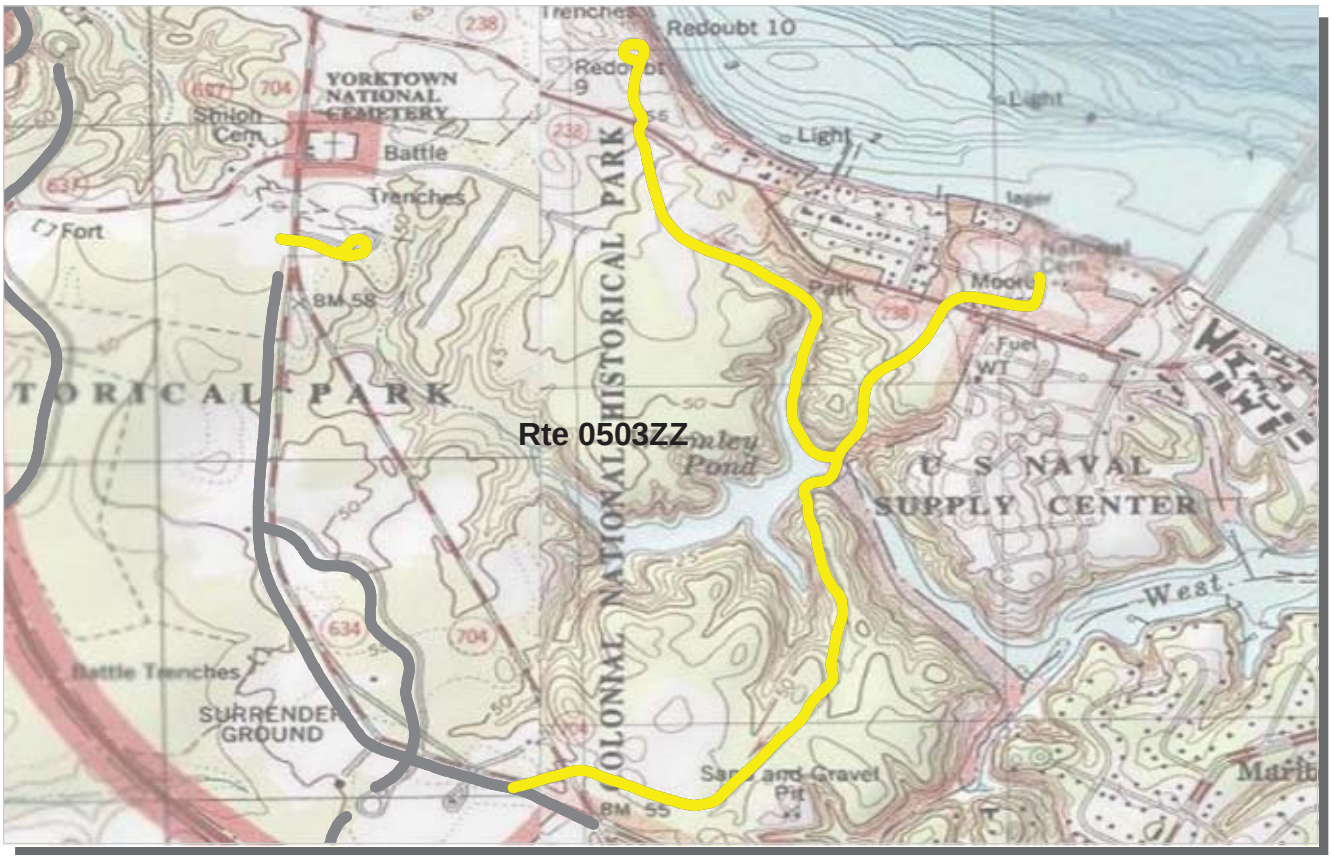
ROUTE: 0501BZ ISLAND DRIVE CROSS ROAD
COLO : COLONIAL NATIONAL HISTORICAL PARK

Subcomponent Record **COLLECTED: 4/16/2009**
NORTHEAST REGION **TOTAL LENGTH: 0.15 Miles**

Section Number	0				
Section Length (mi)	0.15				
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
AADT					
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	10				
Lane Width (ft)	10				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	76				
PCR (Pavement Condition Rating)	75				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	99				
Tranverse Cracking Index	99				
Patching Index	100				
Rutting Index	78				
Roughness Condition Index (RCI)	73				

NC - Not Collected

ROUTE: 0501BZ ISLAND DRIVE CROSS ROAD



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

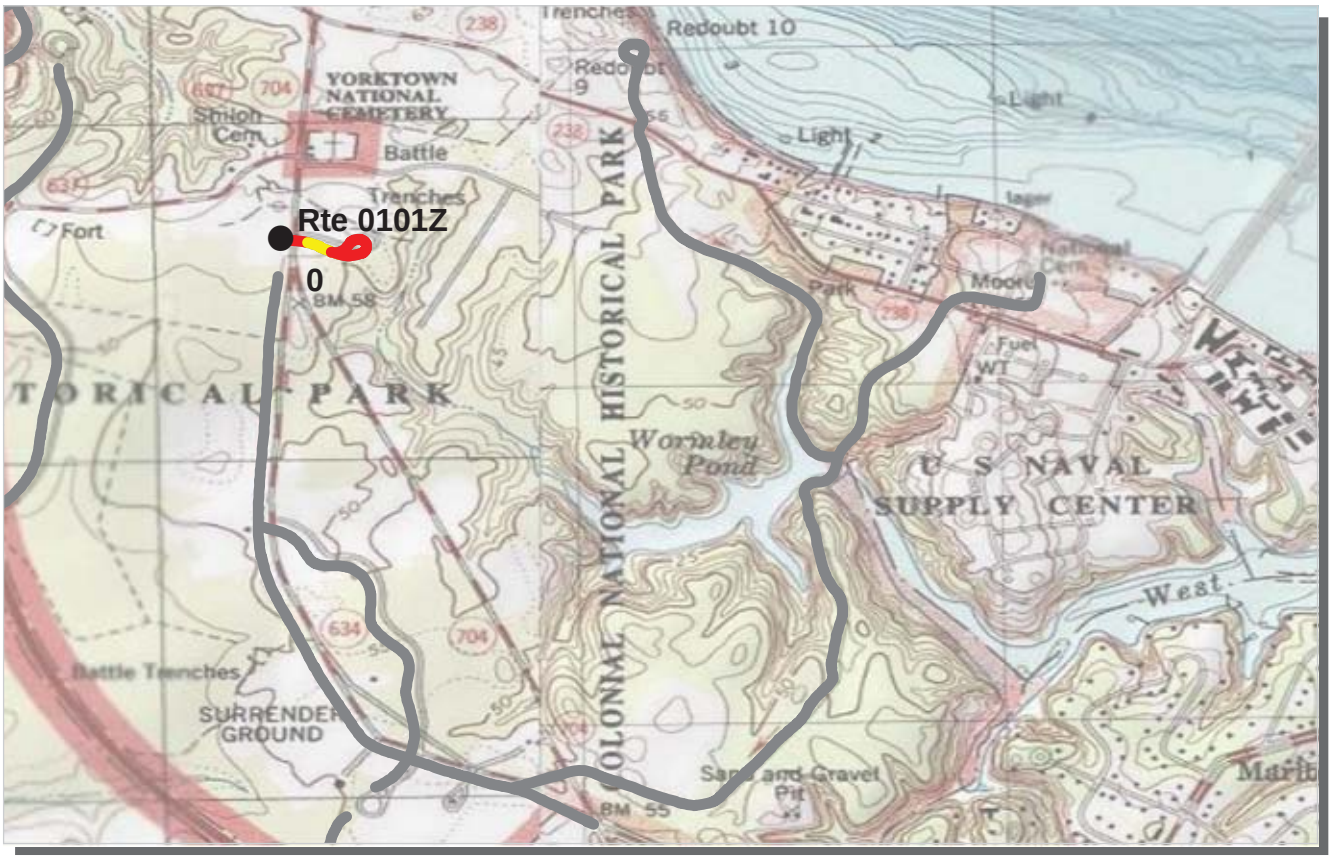
* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0503ZZ YORKTOWN EAST TOUR ROUTES
COLO : COLONIAL NATIONAL HISTORICAL PARK

Summary Record **COLLECTED: 4/17/2009**
NORTHEAST REGION **TOTAL LENGTH: 2.78 Miles**

Section Number					
Section Length (mi)					
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
AADT					
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	N/A				
Paved Width (ft)	N/A				
Lane Width (ft)	N/A				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	74				
PCR (Pavement Condition Rating)	77				
Distress Index Values					
Alligator Cracking Index	N/A				
Longitudinal Cracking Index	N/A				
Tranverse Cracking Index	N/A				
Patching Index	N/A				
Rutting Index	N/A				
Roughness Condition Index (RCI)	N/A				

NC - Not Collected



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

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

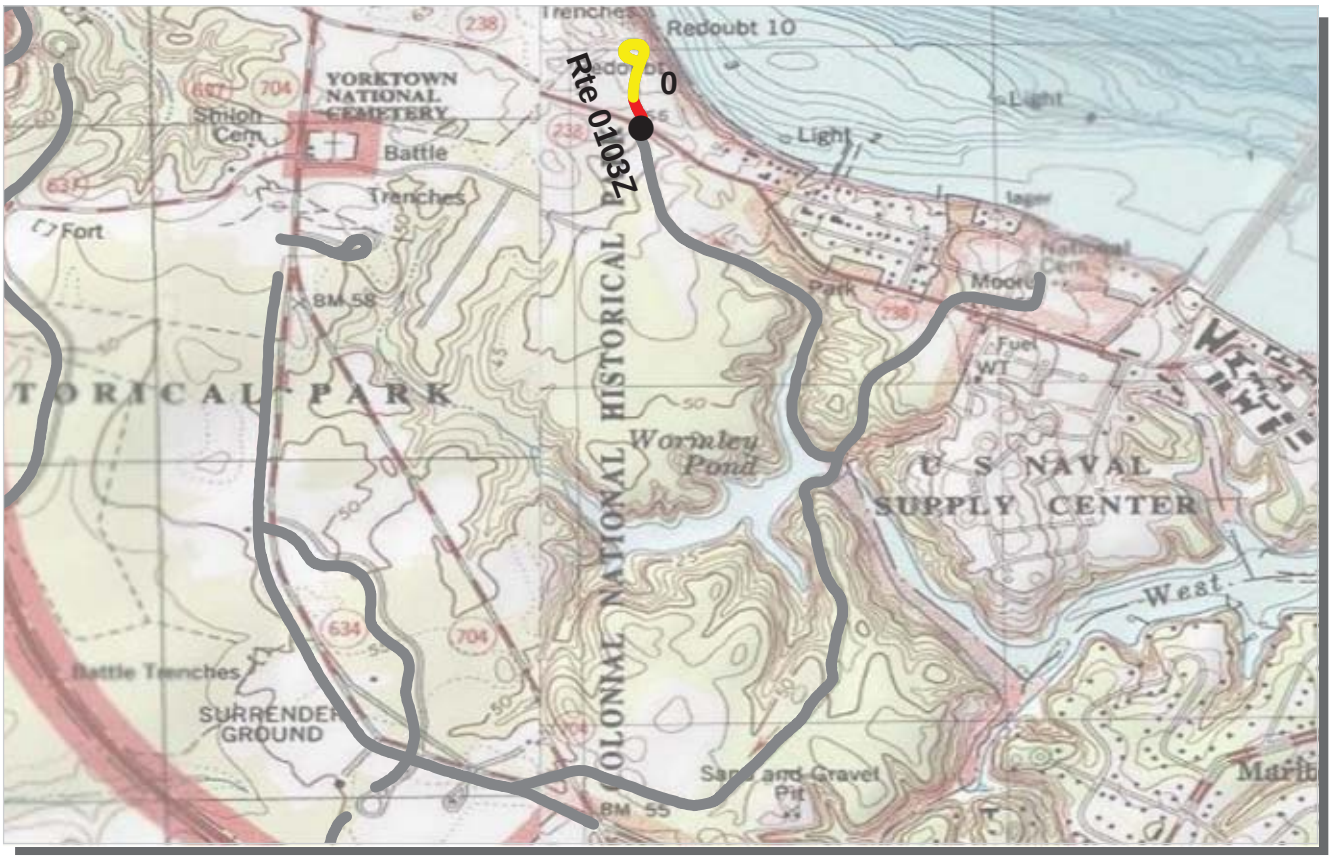
ROUTE: 0101Z GRAND FRENCH BATTERY ROAD
COLO : COLONIAL NATIONAL HISTORICAL PARK

Subcomponent Record **COLLECTED: 4/16/2009**
NORTHEAST REGION **TOTAL LENGTH: 0.20 Miles**

Section Number	0				
Section Length (mi)	0.20				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	19				
Lane Width (ft)	9				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	55				
PCR (Pavement Condition Rating)	56				
Distress Index Values					
Alligator Cracking Index	97				
Longitudinal Cracking Index	93				
Tranverse Cracking Index	95				
Patching Index	100				
Rutting Index	70				
Roughness Condition Index (RCI)	64				

NC - Not Collected

ROUTE: 0101Z GRAND FRENCH BATTERY ROAD



PCR	Poor	Fair	Good	Excellent	No Data
	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)	

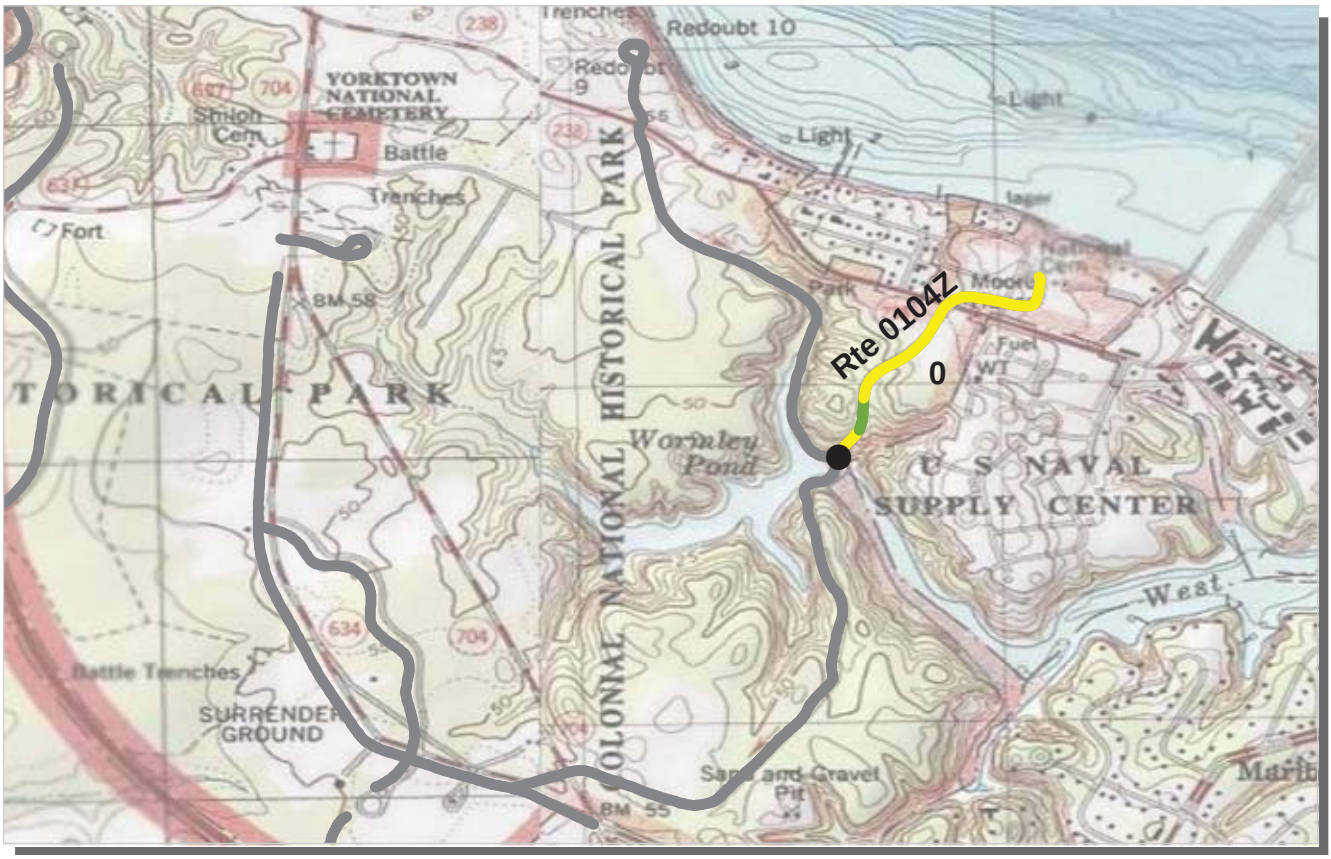
* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0103Z REDOUBT ACCESS ROAD
COLO : COLONIAL NATIONAL HISTORICAL PARK

Subcomponent Record **COLLECTED: 4/16/2009**
NORTHEAST REGION **TOTAL LENGTH: 0.22 Miles**

Section Number	0				
Section Length (mi)	0.22				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	18				
Lane Width (ft)	13				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	62				
PCR (Pavement Condition Rating)	66				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	99				
Tranverse Cracking Index	99				
Patching Index	100				
Rutting Index	63				
Roughness Condition Index (RCI)	100				

NC - Not Collected



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

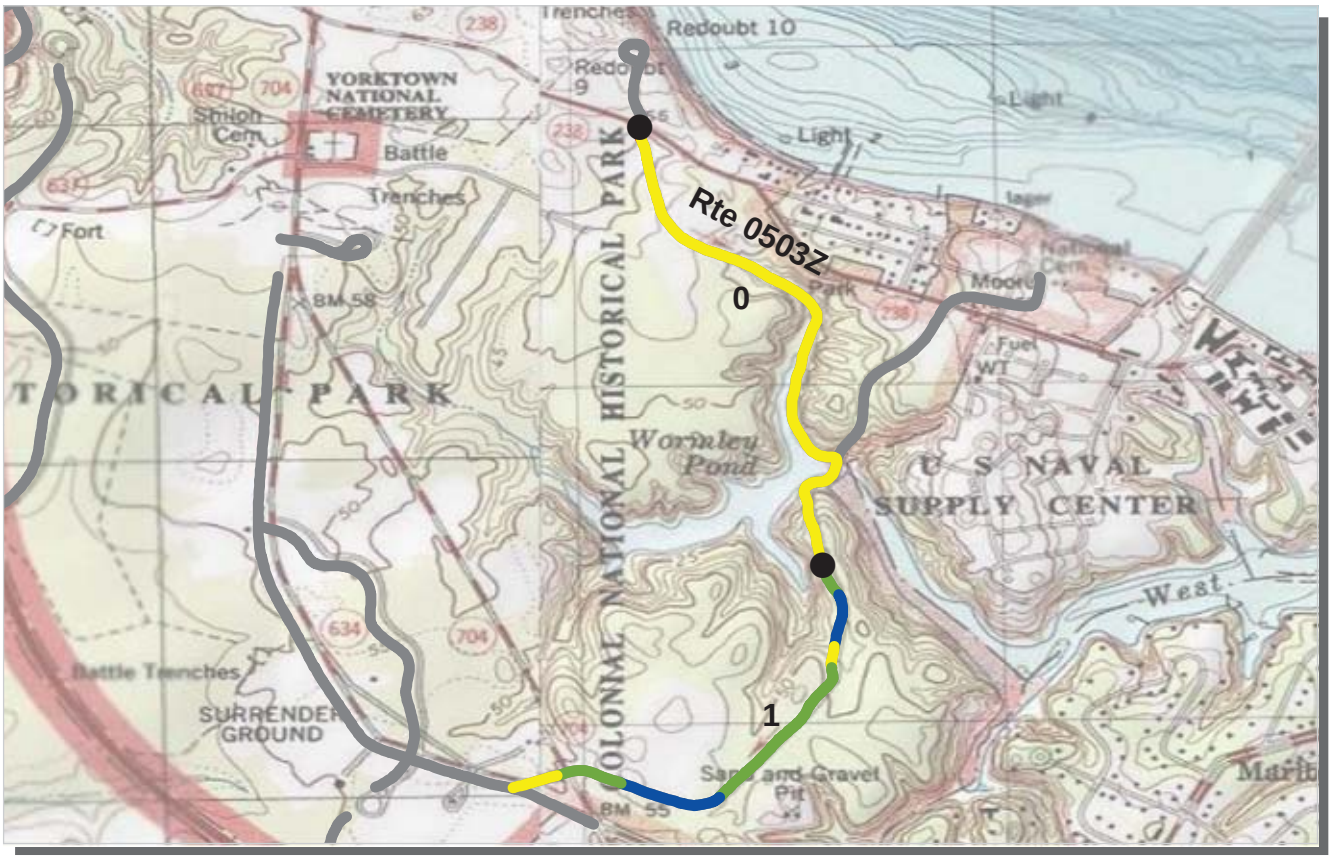
* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0104Z MOORE HOUSE ACCESS ROAD
COLO : COLONIAL NATIONAL HISTORICAL PARK

Subcomponent Record **COLLECTED: 4/16/2009**
NORTHEAST REGION **TOTAL LENGTH: 0.53 Miles**

Section Number	0				
Section Length (mi)	0.53				
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	20				
Lane Width (ft)	11				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	75				
PCR (Pavement Condition Rating)	78				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	100				
Tranverse Cracking Index	100				
Patching Index	100				
Rutting Index	75				
Roughness Condition Index (RCI)	97				

NC - Not Collected



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (95 - 100) No Data

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

ROUTE: 0503Z EAST YORKTOWN TOUR ROAD
COLO : COLONIAL NATIONAL HISTORICAL PARK

Subcomponent Record **COLLECTED: 4/17/2009**
NORTHEAST REGION **TOTAL LENGTH: 1.83 Miles**

Section Number	0	1			
Section Length (mi)	1.00	0.83			
Traffic					
AADT	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
SADT					
ADT Date					
Cross Section Information					
Number of Lanes	1	1			
Paved Width (ft)	12	12			
Lane Width (ft)	12	12			
Shoulder Width Right (ft)	NC	NC			
Shoulder Width Left (ft)	NC	NC			
Roadway Condition Information					
SCR (Surface Condition Rating)	72	90			
PCR (Pavement Condition Rating)	76	90			
Distress Index Values					
Alligator Cracking Index	100	100			
Longitudinal Cracking Index	98	100			
Tranverse Cracking Index	99	100			
Patching Index	100	100			
Rutting Index	74	90			
Roughness Condition Index (RCI)	84	92			

NC - Not Collected

Colonial National Historical Park

Section 6
Manually Rated Paved Route Condition Rating Sheets (MRR)

COLONIAL NATIONAL HISTORICAL PARK
Route 0401
YORKTOWN MAINTENANCE AREA RESIDENCE ROAD
FROM ROUTE 0999 (YORKTOWN MAINTENANCE PARKING)
TO DEAD END

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0401	NONPUBLIC	1/26/2009		7,467	0.13	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	0	0	0	NO CURB AND GUTTER	NO CURB	FAIR/73

* Lane miles are based on 11' lane widths

320 160 0 320
Feet

Colonial National Historical Park

Section 7
Parking Area Condition Rating Sheets

COLONIAL NATIONAL HISTORICAL PARK

Route 0901

YORKTOWN VISITOR CENTER PARKING

FROM BEGINNING OF ROUTE 0001 (COLONIAL PARKWAY)

TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0901	PUBLIC	1/26/2009		129,963	2.24	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	28	0	2	NO CURB AND GUTTER	CONCRETE CURB	FAIR/73

* Lane miles are based on 11' lane widths

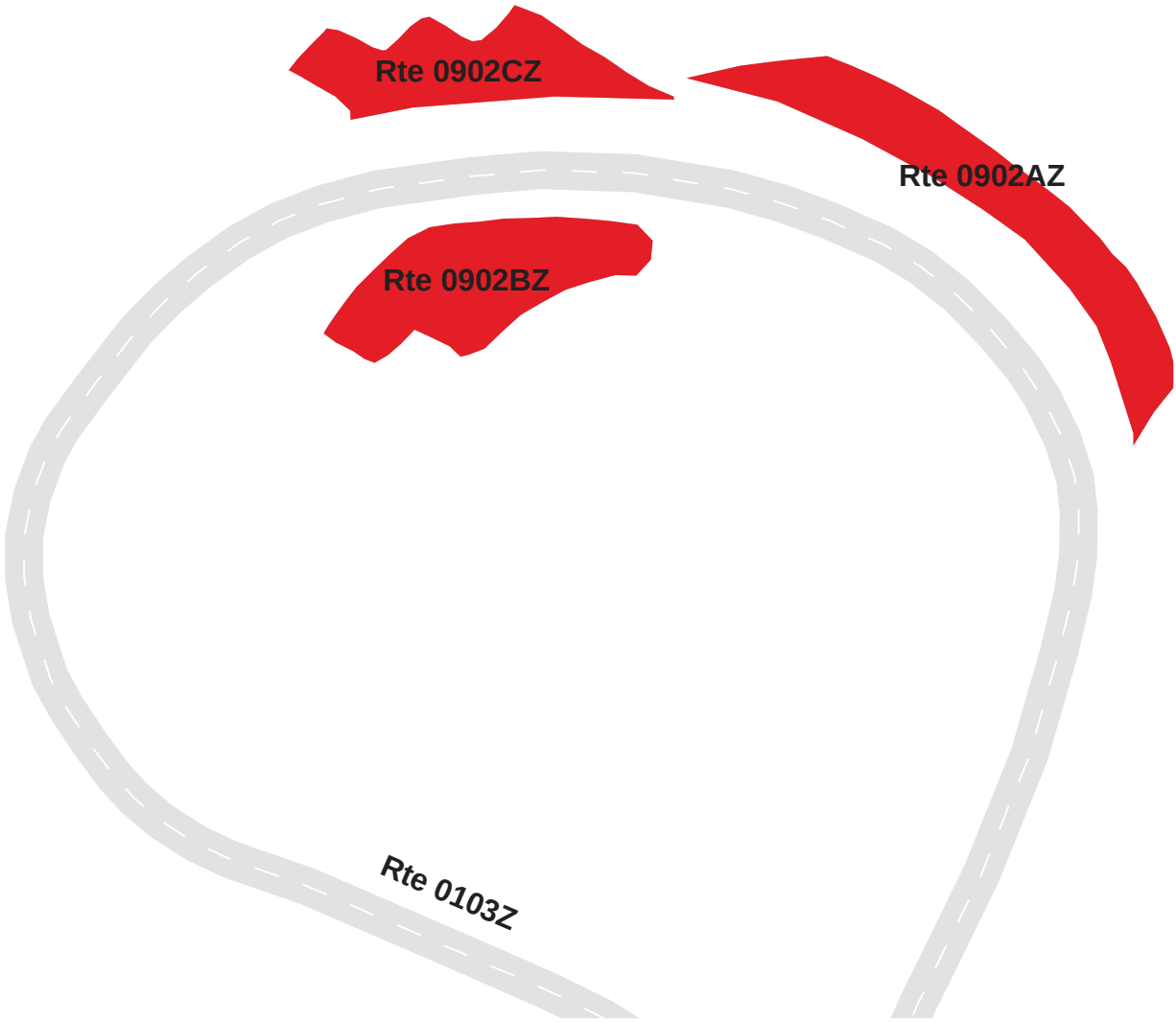
390 195 0 390 Feet

COLONIAL NATIONAL HISTORICAL PARK
Route 0902ZZ
REDOUBT 9, 10 ACCESS ROAD PARKING AREAS
ADJACENT TO ROUTE 0103Z (REDOUBT ACCESS ROAD) ON LEFT AND RIGHT

Summary Record

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0902ZZ	PUBLIC	1/27/2009		2,484	0.04	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	1	0	0	NO CURB AND GUTTER	CONCRETE CURB	SUMMARY/73

* Lane miles are based on 11' lane widths



COLONIAL NATIONAL HISTORICAL PARK
Route 0902AZ

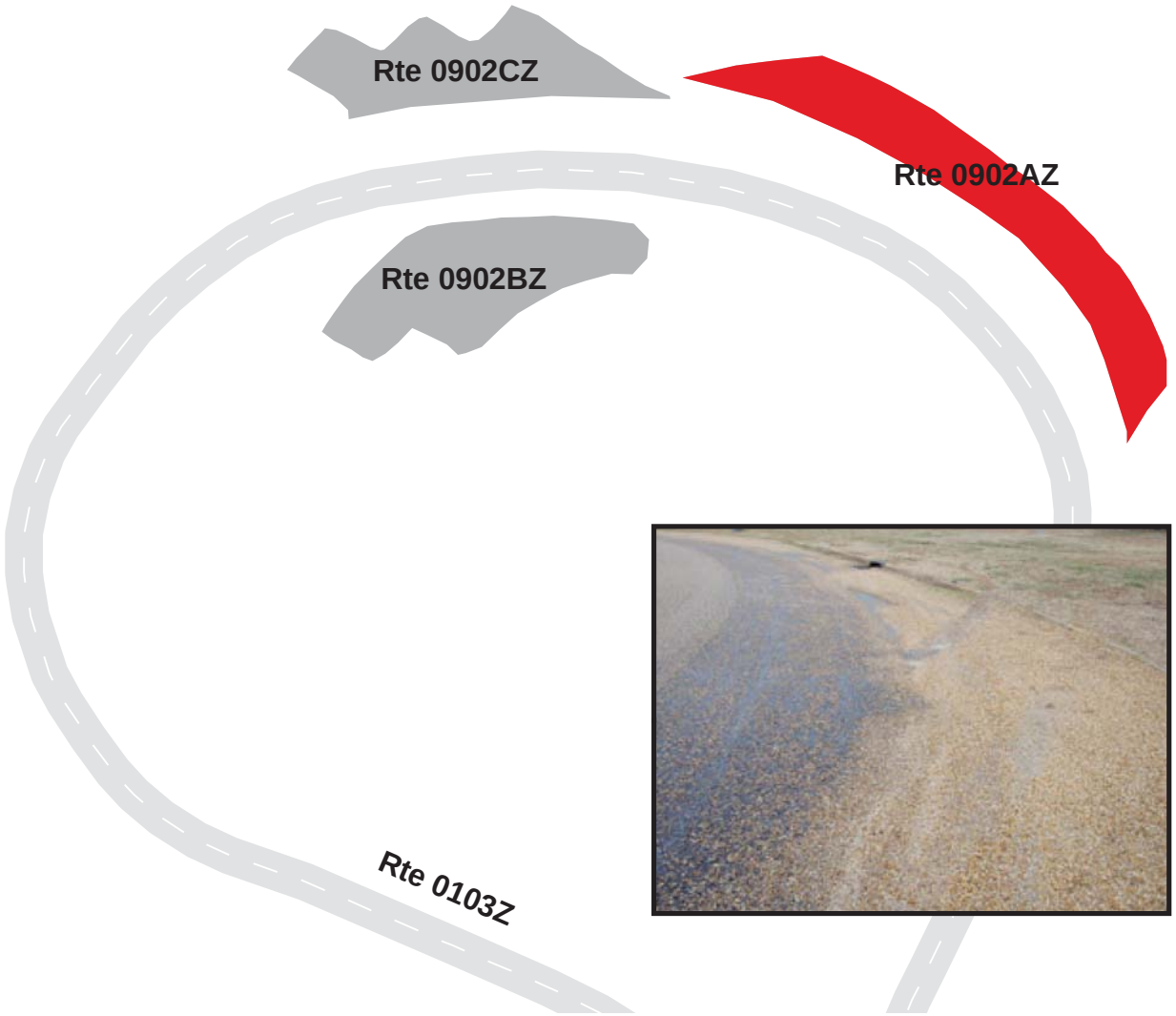
REDOUBT 9, 10 ACCESS ROAD PARKING A

ADJACENT TO ROUTE 0103Z (REDOUBT ACCESS ROAD) AT MP 0.15 (ON RIGHT)

Subcomponent Record

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0902AZ	PUBLIC	1/27/2009		976	0.02	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	1	0	0	NO CURB AND GUTTER	CONCRETE CURB	FAIR/73

* Lane miles are based on 11' lane widths



COLONIAL NATIONAL HISTORICAL PARK
Route 0902BZ

REDOUBT 9, 10 ACCESS ROAD PARKING B

ADJACENT TO ROUTE 0103Z (REDOUBT ACCESS ROAD) AT MP 0.17 (ON LEFT)

Subcomponent Record

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0902BZ	PUBLIC	1/27/2009		827	0.01	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	0	0	0	NO CURB AND GUTTER	CONCRETE CURB	FAIR/73

* Lane miles are based on 11' lane widths

COLONIAL NATIONAL HISTORICAL PARK
Route 0902CZ

REDOUBT 9, 10 ACCESS ROAD PARKING C

ADJACENT TO ROUTE 0103Z (REDOUBT ACCESS ROAD) AT MP 0.17 (ON RIGHT)

Subcomponent Record

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0902CZ	PUBLIC	1/27/2009		681	0.01	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	0	0	0	NO CURB AND GUTTER	CONCRETE CURB	FAIR/73

* Lane miles are based on 11' lane widths

COLONIAL NATIONAL HISTORICAL PARK
Route 0903
UNTOUCHED REDOUBT LOOP/PARKING
FROM ROUTE 0100Z (UNTOUCHED REDOUBT ROAD) AT END
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0903	PUBLIC	1/27/2009		10,364	0.18	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
2	0	0	0	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

* Lane miles are based on 11' lane widths

210 105 0 210
Feet

COLONIAL NATIONAL HISTORICAL PARK

Route 0904

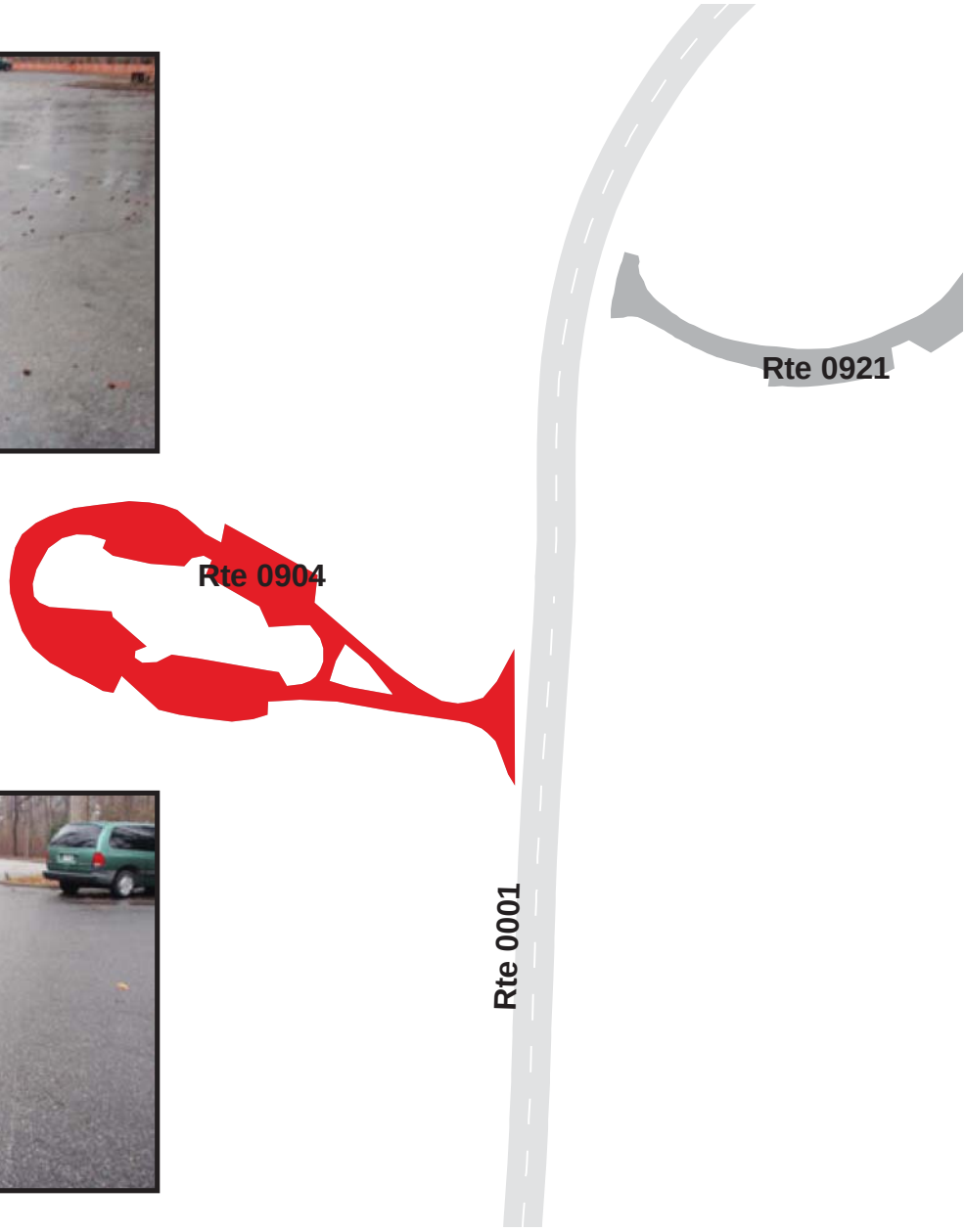
GLASSHOUSE ACCESS ROAD PARKING

FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 22.03 (ON RIGHT)

TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0904	PUBLIC	1/27/2009		42,058	0.72	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	1	0	1	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

* Lane miles are based on 11' lane widths



300 150 0 300

Feet

N

COLONIAL NATIONAL HISTORICAL PARK
Route 0905
FUSILIER'S PARKING

FROM ROUTE 0106 (FUSILIER'S ROAD) AT MP 0.16 (ON LEFT)
TO ROUTE 0106 (FUSILIER'S ROAD) AT MP 0.20 (ON LEFT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0905	PUBLIC	1/27/2009		14,173	0.24	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	2	0	0	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

* Lane miles are based on 11' lane widths

200 100 0 200
Feet

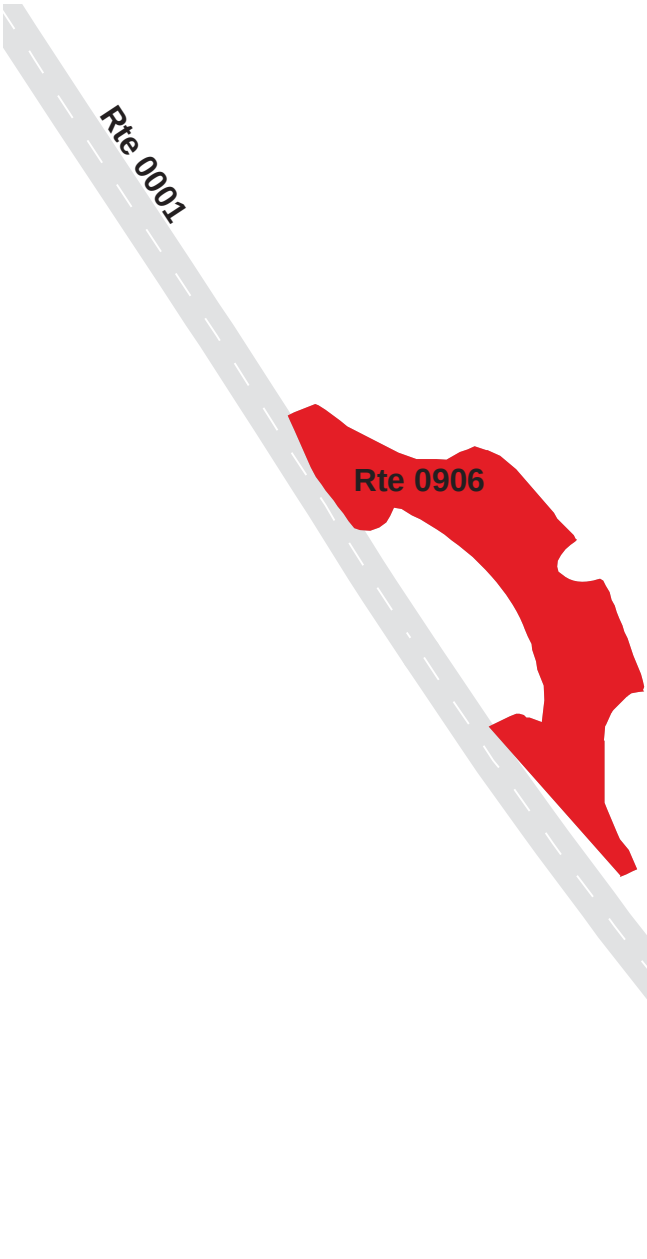
COLONIAL NATIONAL HISTORICAL PARK
Route 0906

NAVAL WEAPONS STATION PARKING

FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 2.98 (ON RIGHT)
TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 3.02 (ON RIGHT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0906	PUBLIC	1/27/2009		10,832	0.19	CO
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	0	0	0	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

* Lane miles are based on 11' lane widths



125 62.5 0 125
Feet

COLONIAL NATIONAL HISTORICAL PARK

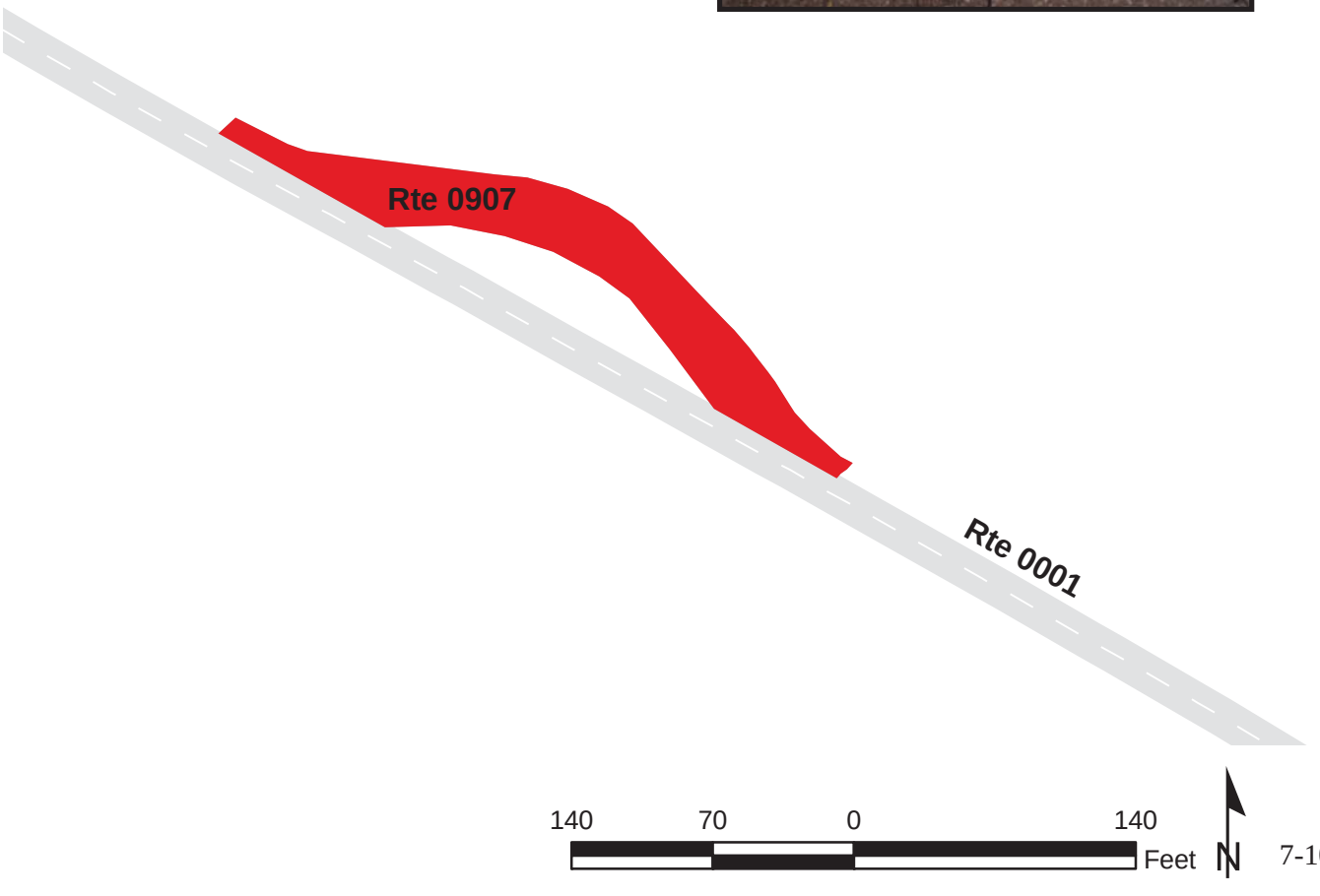
Route 0907

YORKTOWN RIVER PARKING

FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 3.43 (ON RIGHT)
TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 3.47 (ON RIGHT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0907	PUBLIC	1/27/2009		7,261	0.13	CO
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	0	0	0	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

* Lane miles are based on 11' lane widths

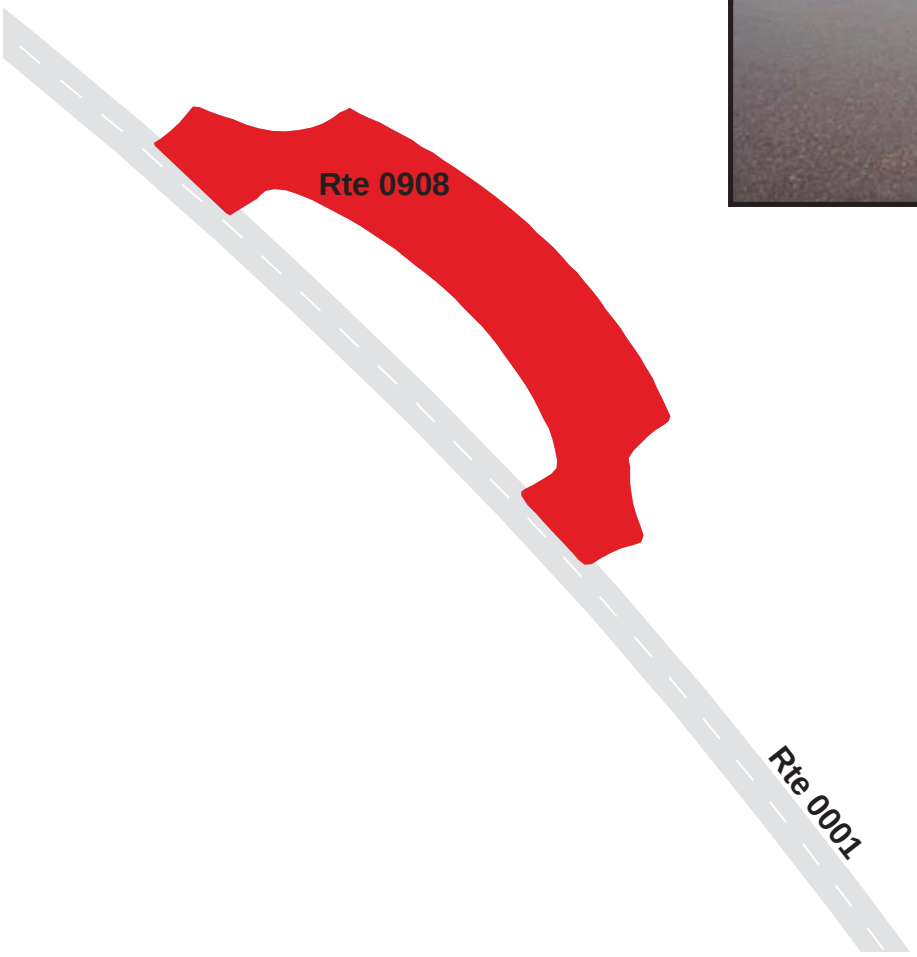


COLONIAL NATIONAL HISTORICAL PARK
Route 0908
POWHATAN PARKING

FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 4.20 (ON RIGHT)
TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 4.24 (ON RIGHT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0908	PUBLIC	1/27/2009		10,048	0.17	CO
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	2	0	0	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

* Lane miles are based on 11' lane widths



130 65 0 130 Feet

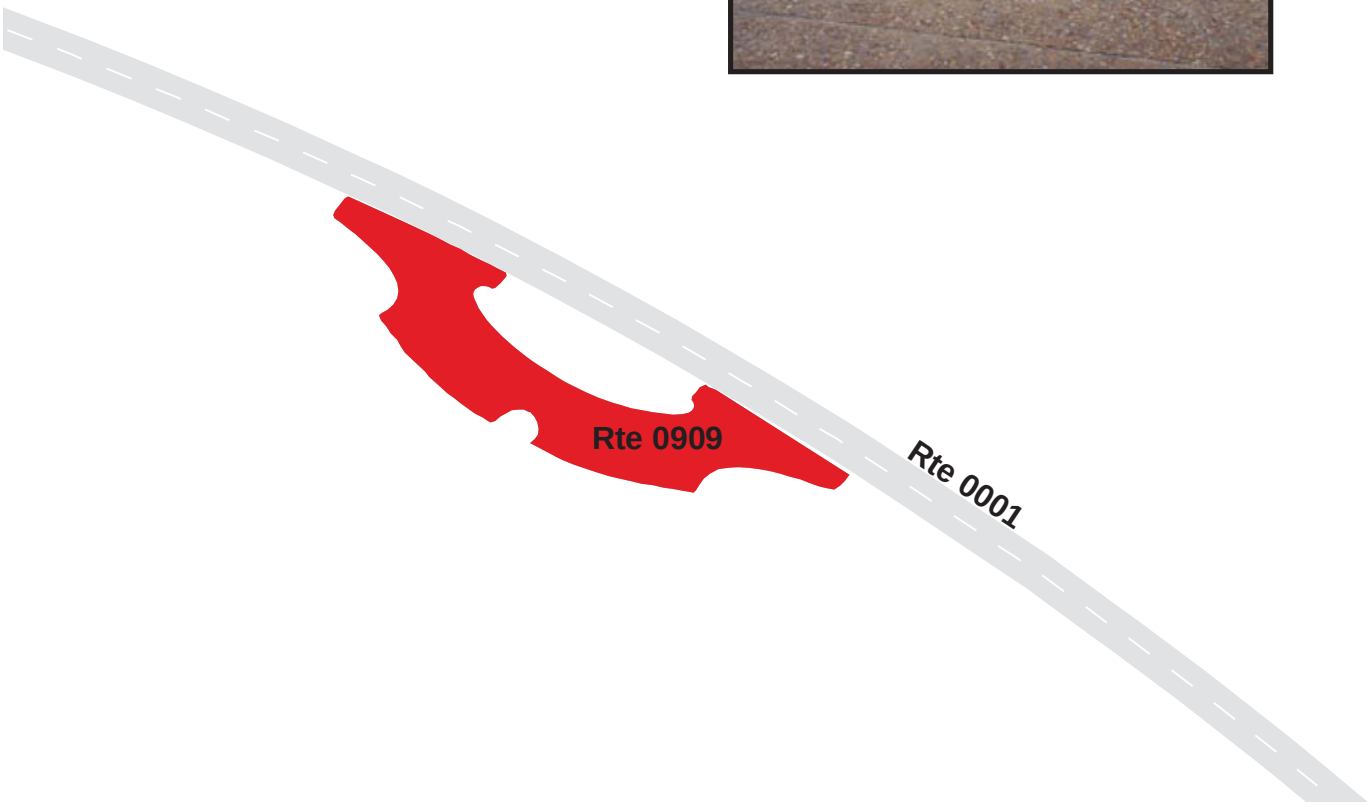
COLONIAL NATIONAL HISTORICAL PARK
Route 0909

INDIAN FIELD CREEK PARKING

FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 4.32 (ON LEFT)
TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 4.35 (ON LEFT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0909	PUBLIC	1/27/2009		10,005	0.17	CO
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	1	0	0	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

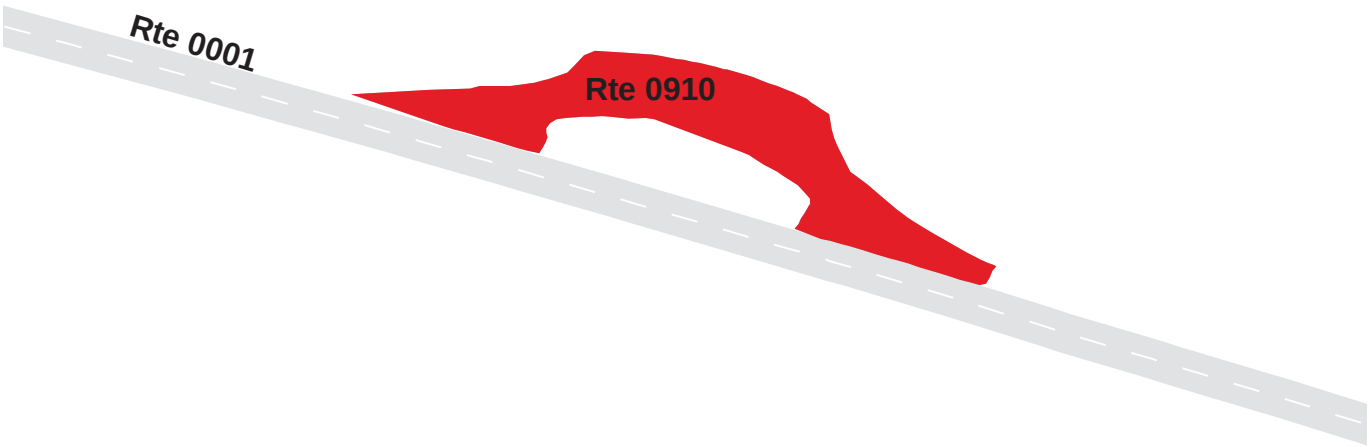
* Lane miles are based on 11' lane widths



COLONIAL NATIONAL HISTORICAL PARK
Route 0910
BELLFIELD PLANTATION PARKING
FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 5.68 (ON RIGHT)
TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 5.72 (ON RIGHT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0910	PUBLIC	1/27/2009		9,653	0.17	CO
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	0	0	0	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

* Lane miles are based on 11' lane widths



180 90 0 180
Feet

COLONIAL NATIONAL HISTORICAL PARK

Route 0911

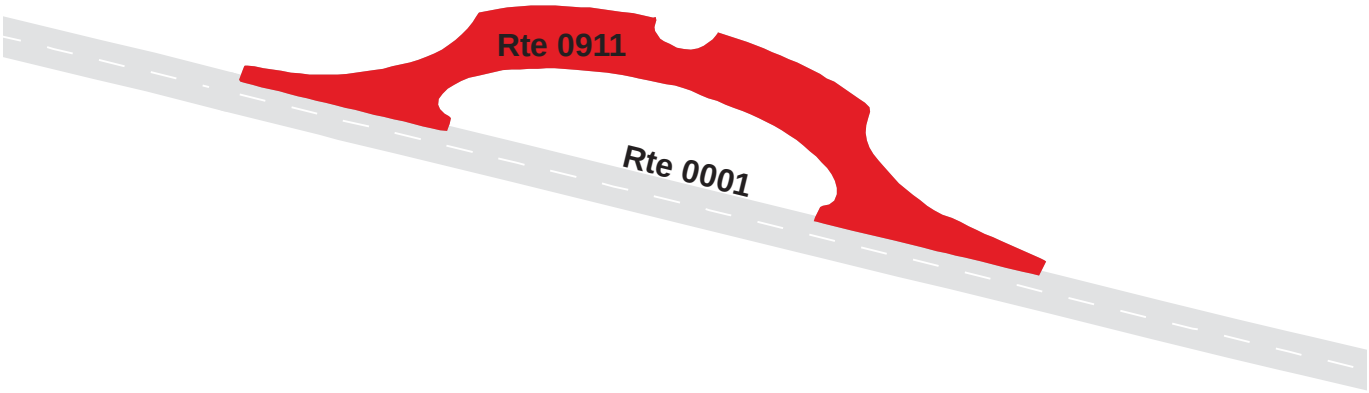
RINGFIELD PLANTATION PARKING

FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 5.93 (ON RIGHT)

TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 5.98 (ON RIGHT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0911	PUBLIC	1/27/2009		15,026	0.26	CO
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	2	0	0	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

* Lane miles are based on 11' lane widths



200 100 0 200

Feet

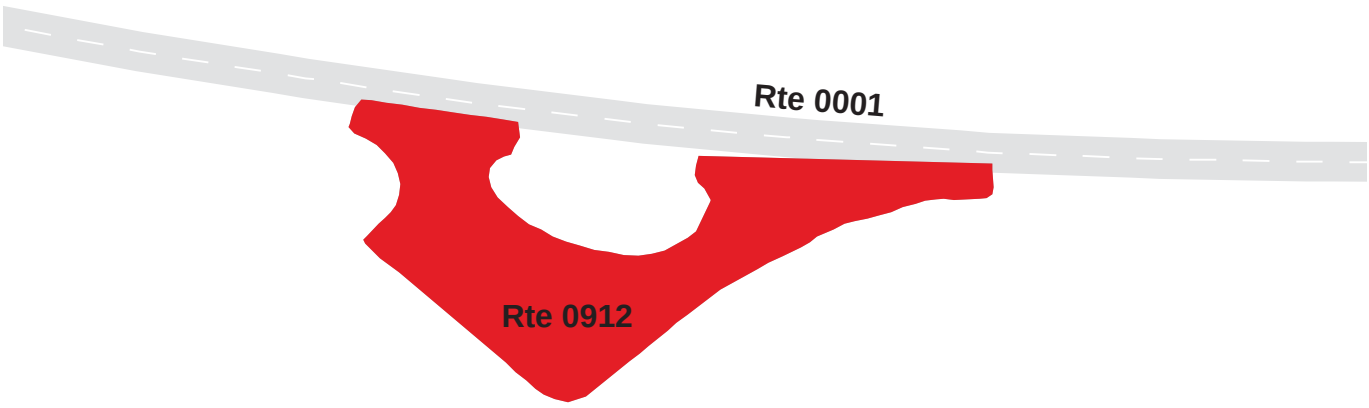
N

COLONIAL NATIONAL HISTORICAL PARK
Route 0912
JAMES MILL PARKING

FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 9.35 (ON LEFT)
TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 9.37 (ON LEFT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0912	PUBLIC	1/27/2009		8,305	0.14	CO
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	2	0	0	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

* Lane miles are based on 11' lane widths



COLONIAL NATIONAL HISTORICAL PARK
Route 0913
PALISADES GREAT OAKS PARKING

FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 13.97 (ON LEFT)
TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 14.01 (ON LEFT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0913	PUBLIC	1/27/2009		11,481	0.20	CO
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	1	0	0	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

* Lane miles are based on 11' lane widths

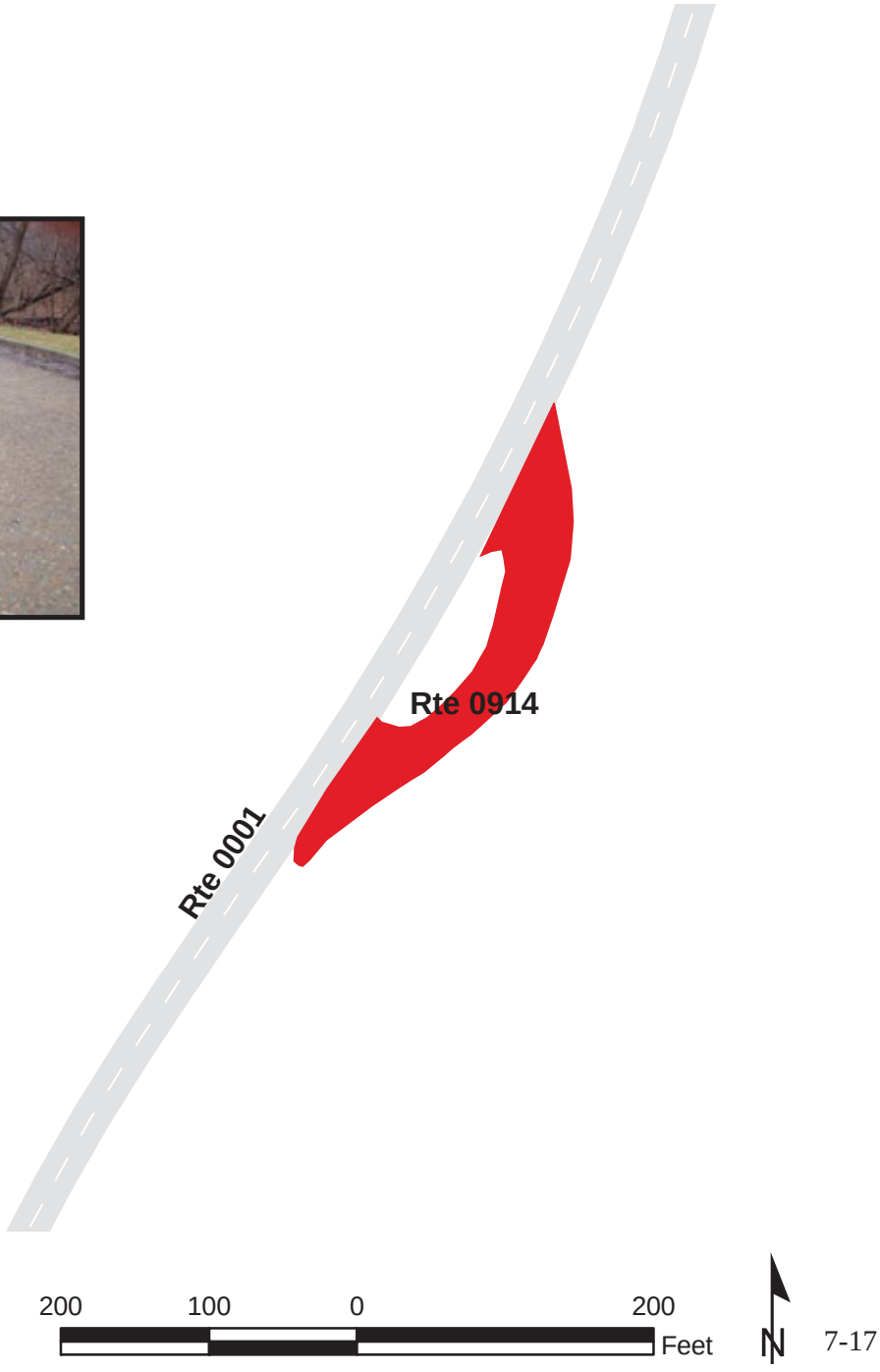
160 80 0 160
Feet

COLONIAL NATIONAL HISTORICAL PARK
Route 0914
GREAT NECK PARKING

FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 14.17 (ON LEFT)
TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 14.21 (ON LEFT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0914	PUBLIC	1/27/2009		9,817	0.17	CO
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	2	0	0	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

* Lane miles are based on 11' lane widths



COLONIAL NATIONAL HISTORICAL PARK
Route 0915
ATTEMPTED SETTLEMENT/COLLEGE CREEK PARKING
FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 16.56 (ON RIGHT)
TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 16.65 (ON RIGHT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0915	PUBLIC	1/27/2009		22,688	0.39	CO
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	3	0	0	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

* Lane miles are based on 11' lane widths

250 125 0 250
Feet

COLONIAL NATIONAL HISTORICAL PARK
Route 0916
JAMES RIVER PARKING

FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 16.93 (ON LEFT)
TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 16.96 (ON LEFT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0916	PUBLIC	1/27/2009		11,405	0.20	CO
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	1	0	0	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

* Lane miles are based on 11' lane widths

COLONIAL NATIONAL HISTORICAL PARK

Route 0917

ARCHER'S HOPE PARKING

FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 17.91 (ON LEFT)
TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 18.01 (ON LEFT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0917	PUBLIC	1/27/2009		20,519	0.35	CO
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	3	0	0	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

* Lane miles are based on 11' lane widths

250 125 0 250
Feet

N

COLONIAL NATIONAL HISTORICAL PARK
Route 0918

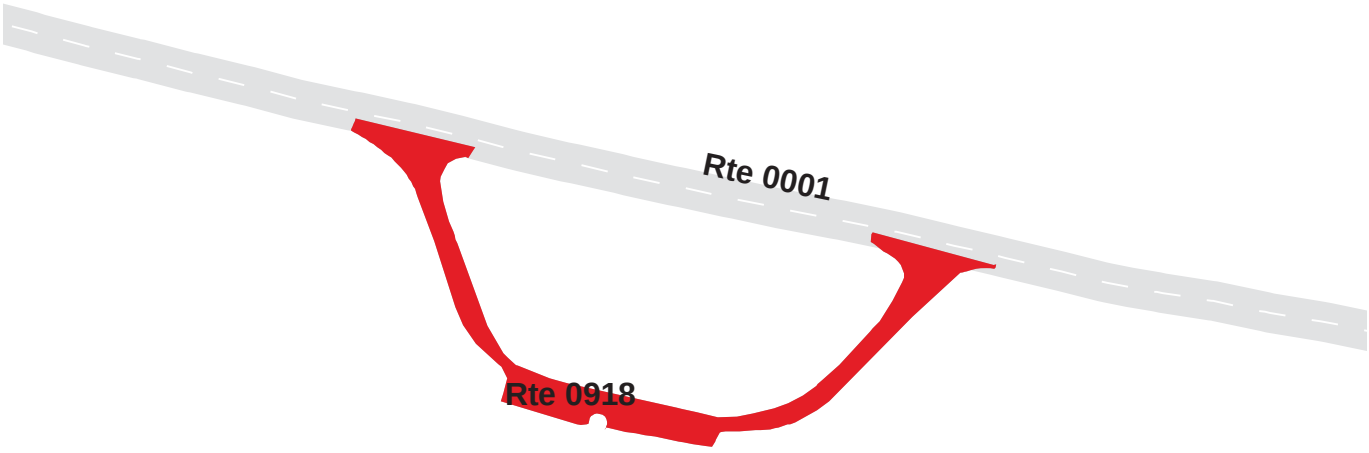
JAMESTOWN ISLAND/GLEBE LAND PARKING

FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 19.37 (ON LEFT)

TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 19.46 (ON LEFT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0918	PUBLIC	1/27/2009		26,075	0.45	CO
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	0	0	0	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

* Lane miles are based on 11' lane widths



350 175 0 350

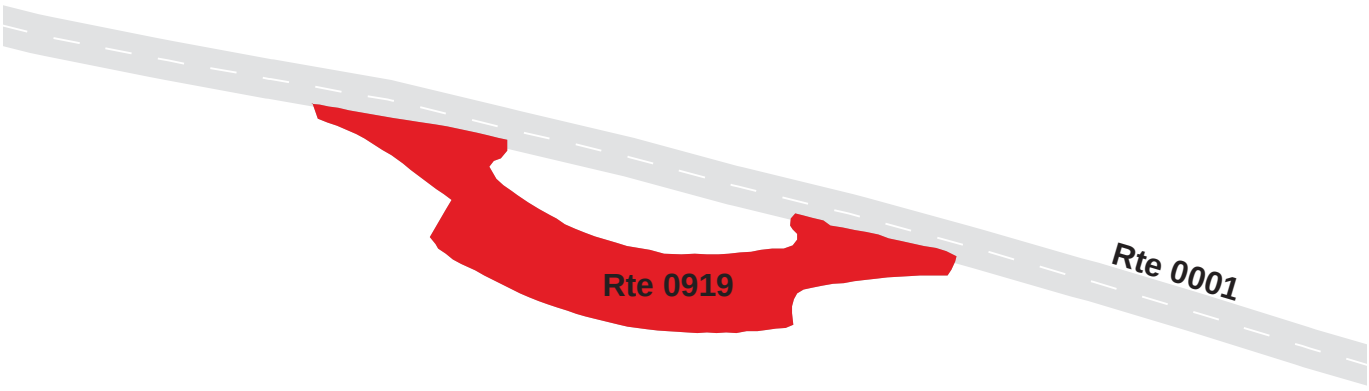
Feet

N

COLONIAL NATIONAL HISTORICAL PARK
Route 0919
REAL ESTATE PARKING
FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 19.77 (ON LEFT)
TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 19.80 (ON LEFT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0919	PUBLIC	1/27/2009		10,473	0.18	CO
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	1	0	0	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

* Lane miles are based on 11' lane widths



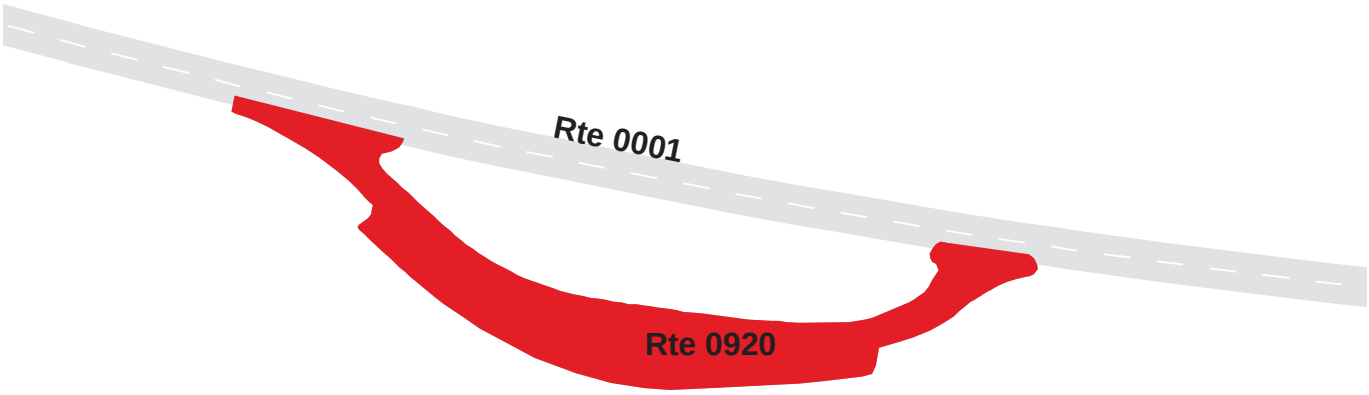
COLONIAL NATIONAL HISTORICAL PARK
Route 0920

NECK OF LAND PARKING

FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 20.24 (ON LEFT)
TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 20.31 (ON LEFT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0920	PUBLIC	1/27/2009		24,053	0.41	CO
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
1	1	0	0	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

* Lane miles are based on 11' lane widths



250 125 0 250
Feet

N

COLONIAL NATIONAL HISTORICAL PARK

Route 0921

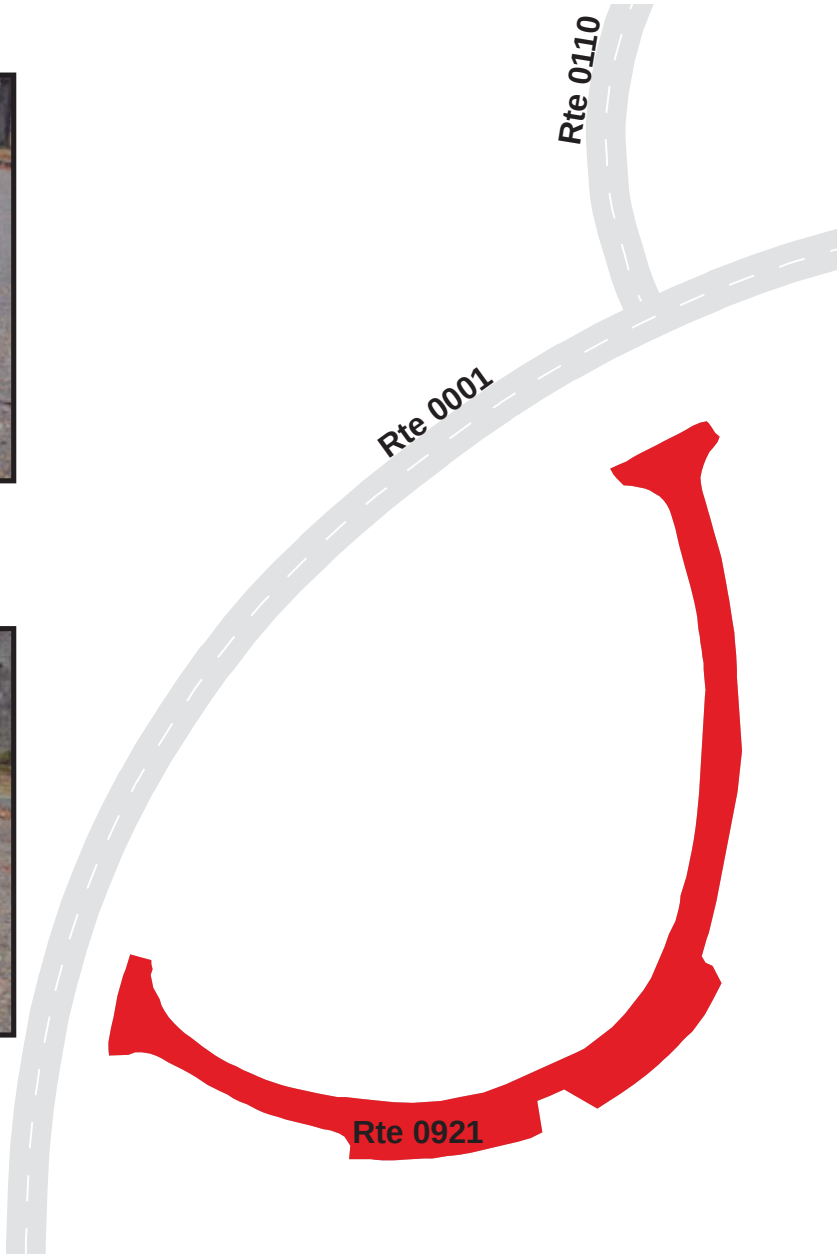
JAMESTOWN ENTRANCE PARKING

FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 21.81 (ON LEFT)

TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 21.93 (ON LEFT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0921	PUBLIC	1/27/2009		25,464	0.44	CO
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	6	0	0	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

* Lane miles are based on 11' lane widths



250 125 0 250

Feet

N

COLONIAL NATIONAL HISTORICAL PARK

Route 0922

YORKTOWN VISITOR PARKING

FROM CHURCH STREET

TO READ STREET

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0922	PUBLIC	1/27/2009		20,476	0.35	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	1	0	0	CONCRETE CURB AND GUTTER	CONCRETE CURB	FAIR/73

* Lane miles are based on 11' lane widths

200 100 0 200

Feet

N

COLONIAL NATIONAL HISTORICAL PARK
Route 0923
YORKTOWN VICTORY MONUMENT PARKING
FROM BACON STREET
TO ZWEYBRUCKEN ROAD

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0923	PUBLIC	1/27/2009		10,624	0.18	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	0	0	0	NO CURB AND GUTTER	CONCRETE CURB	FAIR/73

* Lane miles are based on 11' lane widths

COLONIAL NATIONAL HISTORICAL PARK

Route 0924

YORKTOWN BEACH PARKING

FROM WATER STREET

TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0924	PUBLIC	1/27/2009		47,830	0.82	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	4	1	0	NO CURB AND GUTTER	NO CURB	GOOD/90

* Lane miles are based on 11' lane widths

540 270 0 540 Feet

N

7-27

COLONIAL NATIONAL HISTORICAL PARK
Route 0925
CORNWALLIS' CAVE PARKING
ADJACENT TO WATER STREET

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0925	PUBLIC	1/27/2009		1,124	0.02	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	0	0	0	NO CURB AND GUTTER	NO CURB	GOOD/90

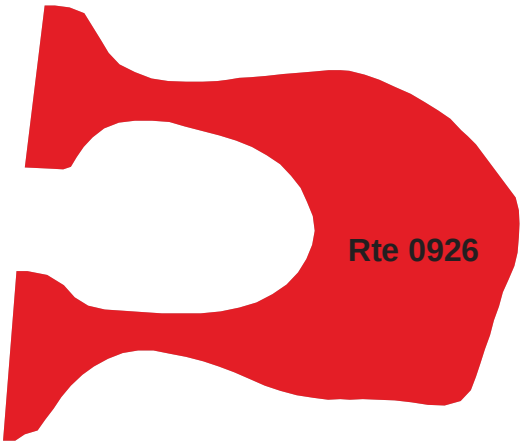
* Lane miles are based on 11' lane widths

40 20 0 40
Feet

COLONIAL NATIONAL HISTORICAL PARK
Route 0926
NATIONAL CEMETERY/SECOND SIEGE PARKING
FROM STATE ROUTE 238
TO STATE ROUTE 238

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0926	PUBLIC	1/27/2009		9,706	0.17	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
2	0	0	0	NO CURB AND GUTTER	CONCRETE CURB	FAIR/73

* Lane miles are based on 11' lane widths



90 45 0 90
Feet

COLONIAL NATIONAL HISTORICAL PARK
Route 0927
GRAND FRENCH BATTERY PARKING
ADJACENT TO ROUTE 0101Z (GRAND FRENCH BATTERY ROAD) AT MP 0.05 (ON RIGHT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0927	PUBLIC	1/27/2009		2,235	0.04	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	0	0	0	NO CURB AND GUTTER	CONCRETE CURB	FAIR/73

* Lane miles are based on 11' lane widths

50 25 0 50
Feet

N

COLONIAL NATIONAL HISTORICAL PARK
Route 0928
MOORE HOUSE PARKING
FROM ROUTE 0104Z (MOORE HOUSE ACCESS ROAD) AT END
TO MOORE HOUSE ROAD

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0928	PUBLIC	1/27/2009		7,892	0.14	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	0	0	0	NO CURB AND GUTTER	CONCRETE CURB	FAIR/73

* Lane miles are based on 11' lane widths

COLONIAL NATIONAL HISTORICAL PARK
Route 0929
SURRENDER FIELD ACCESS PARKING
FROM ROUTE 0102Z (SURRENDER FIELD ROAD) AT END
TO ROUTE 0500Z (BATTLEFIELD TOUR ROAD) AT START

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0929	PUBLIC	1/27/2009		17,292	0.30	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	0	0	0	NO CURB AND GUTTER	CONCRETE CURB	FAIR/73

* Lane miles are based on 11' lane widths

220 110 0 220 Feet

COLONIAL NATIONAL HISTORICAL PARK
Route 0930
WASHINGTON'S HEADQUARTERS PARKING
FROM ROUTE 0224Z (WASHINGTON'S HEADQUARTERS ROAD) AT END
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0930	PUBLIC	1/27/2009		4,788	0.08	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	0	0	0	NO CURB AND GUTTER	CONCRETE & WOOD CURB	FAIR/73

* Lane miles are based on 11' lane widths

COLONIAL NATIONAL HISTORICAL PARK

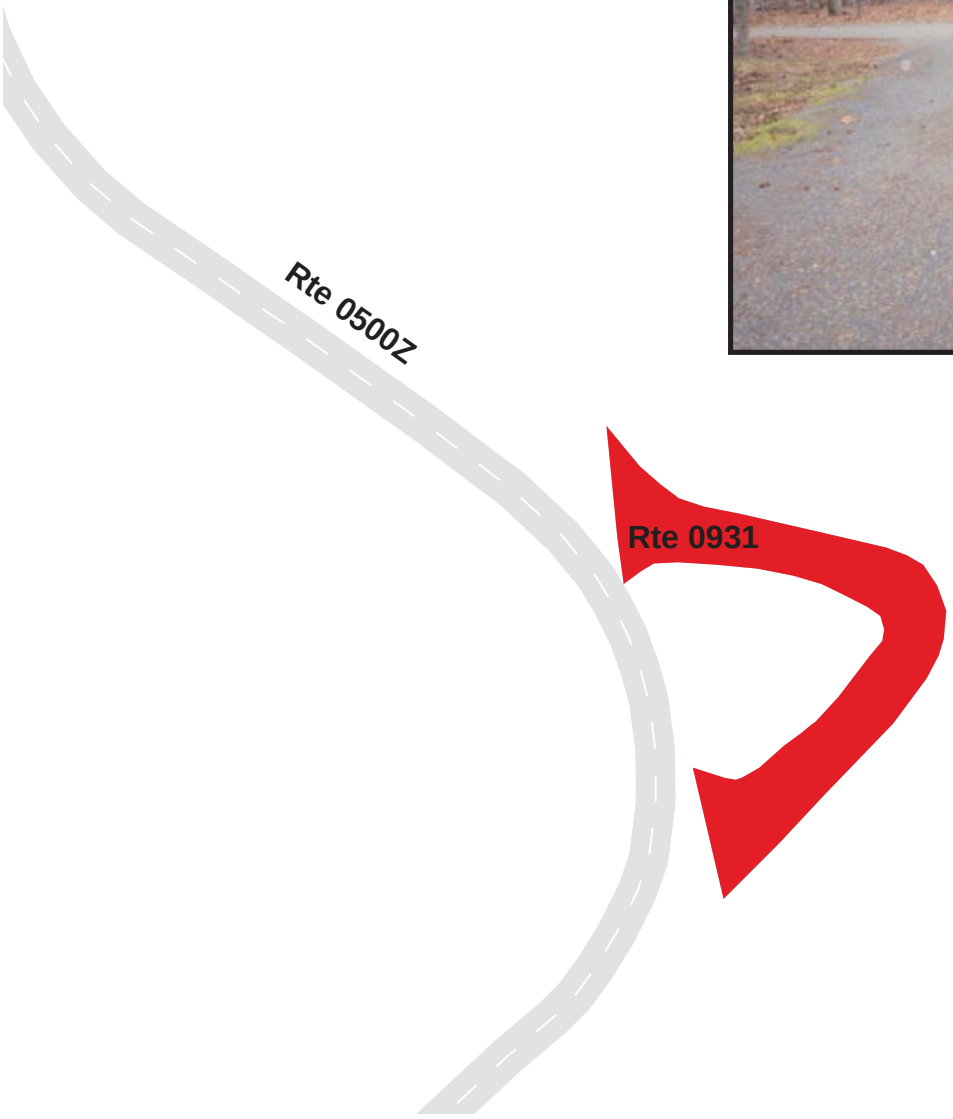
Route 0931

FRENCH CEMETERY PARKING

FROM ROUTE 0500Z (BATTLEFIELD TOUR ROAD) AT MP 1.90 (ON RIGHT)
TO ROUTE 0500Z (BATTLEFIELD TOUR ROAD) AT MP 1.91 (ON RIGHT)

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0931	PUBLIC	1/27/2009		1,726	0.03	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	0	0	0	NO CURB AND GUTTER	CONCRETE CURB	FAIR/73

* Lane miles are based on 11' lane widths



80 40 0 80 Feet

COLONIAL NATIONAL HISTORICAL PARK

Route 0932

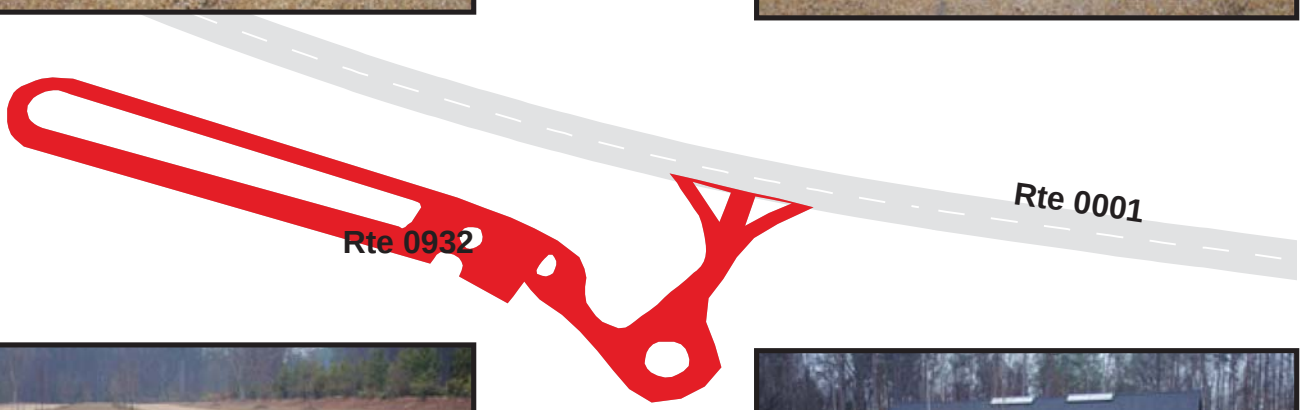
NECK O LAND VISITOR CONTACT PARKING

FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 21.04 (ON LEFT)

TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0932	PUBLIC	1/27/2009		76,962	1.33	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	2	1	1	NO CURB AND GUTTER	CONCRETE CURB	FAIR/73

* Lane miles are based on 11' lane widths



370 185 0 370

Feet

N

COLONIAL NATIONAL HISTORICAL PARK

Route 0940

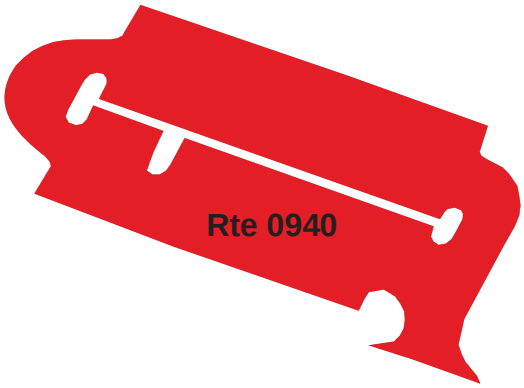
CAPE HENRY MEMORIAL PARKING

FROM ATLANTIC AVENUE

TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0940	PUBLIC	1/26/2009		31,058	0.54	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	1	0	0	NO CURB AND GUTTER	CONCRETE CURB	POOR/45

* Lane miles are based on 11' lane widths



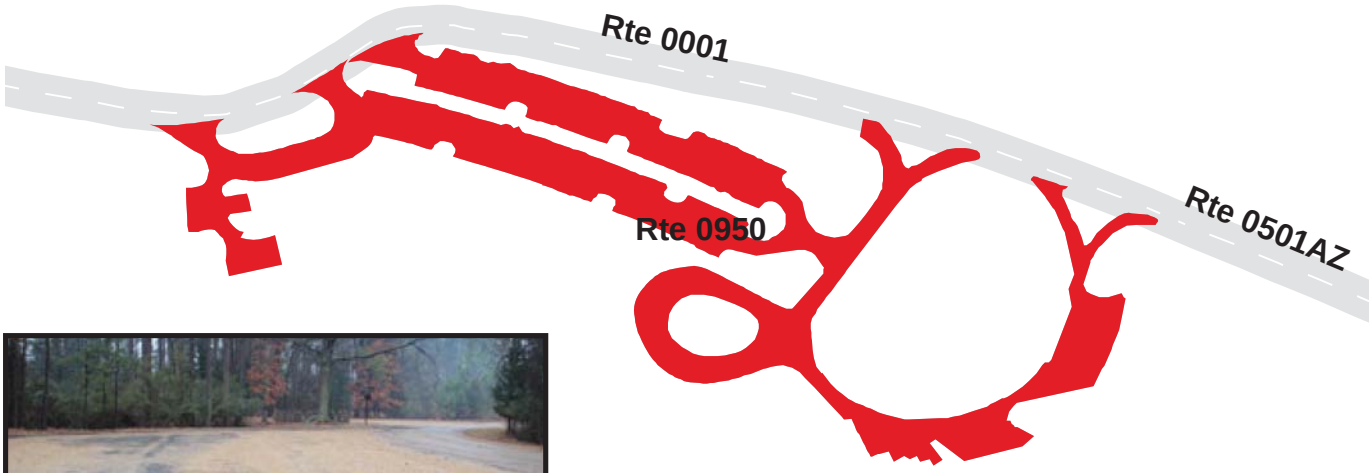
210 105 0 210

Feet

COLONIAL NATIONAL HISTORICAL PARK
Route 0950
JAMESTOWN VISITOR'S CENTER PARKING
FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 22.88 (ON RIGHT)
TO ROUTE 0001 (COLONIAL PARKWAY) AND ROUTE 0501AZ (ISLAND DRIVE) AT START

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0950	PUBLIC	1/27/2009		132,987	2.29	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
1	20	0	3	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

* Lane miles are based on 11' lane widths



440 220 0 440
Feet

COLONIAL NATIONAL HISTORICAL PARK
Route 0990
JAMESTOWN MAINTENANCE PARKING
FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 20.88 (ON RIGHT)
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0990	PUBLIC	1/27/2009		23,645	0.41	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
1	3	2	0	NO CURB AND GUTTER	CONCRETE CURB	FAIR/73

* Lane miles are based on 11' lane widths

320 160 0 320 Feet

COLONIAL NATIONAL HISTORICAL PARK
Route 0999
YORKTOWN MAINTENANCE PARKING
FROM US ROUTE 17
TO STATE HIGHWAY 238

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0999	PUBLIC	1/26/2009		236,606	4.07	AS
Culverts	**Drop Inlets**	**Gates**	**Fire Hydrants**	**Curb & Gutter**	**Curb**	**PCR**
0	0	0	1	NO CURB AND GUTTER	NO CURB	FAIR/73

* Lane miles are based on 11' lane widths

560 280 0 560
Feet

Colonial National Historical Park

Section 8
Parkwide / Route Maintenance Features Summaries

COLO: PARKWIDE MAINTENANCE FEATURES SUMMARY

Notice: Culverts and drop inlets were marked by NPS and inventoried by RIP in Cycle 4, therefore the culvert and drop inlet count below includes those on ARAN-driven routes, Manually Rated Routes and in Paved Parking Areas.

FEATURE	LINEAR FEET	COUNT
BARRIER	29,109	--
BOLLARD	206	--
BRIDGE	--	22
CABLE	0	--
CATTLE GUARD	--	0
CULVERT	--	155
CURB	26,796	--
DROP INLET	--	168
FIRE HYDRANT	--	10
GATE	--	18
GUARD/GUIDE RAIL	23,633	--
GUARD/GUIDE WALL	5,475	--
INTERSECTION	--	298
LOW WATER CROSSING	53	1
MILE MARKER	--	0
OVERPASS	--	13
OVERHEAD SIGN	--	11
PARK BOUNDARY	--	0
PAVED DITCH	17,255	--
PULLOUT	--	44
RAILROAD CROSSING	--	0
RETAINING WALL	539	12
SIGN	--	729
STATE BOUNDARY	--	0
TEMPORARY BARRIER	0	--
TRAFFIC LIGHT	--	2
TUNNEL	1,188	1
TURNOUT	0	--

COLO: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0001 COLONIAL PARKWAY	ROUTE 0105A US ROUTE 17 ACCESS ROAD A	ROUTE 0105B US ROUTE 17 ACCESS ROAD B	ROUTE 0106 FUSILIER'S ROAD	ROUTE 0107A CHEATHAM ANNEX ACCESS ROAD A	ROUTE 0107B CHEATHAM ANNEX ACCESS ROAD B	UNIT
BARRIER	23,670	380	523	185	0	0	LINEAR FEET
BOLLARD	169	0	0	0	0	0	LINEAR FEET
BRIDGE	14	0	0	0	0	0	EACH
CABLE	0	0	0	0	0	0	LINEAR FEET
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	79	1	1	1	1	0	EACH
CURB	20,085	90	143	359	222	375	LINEAR FEET
DROP INLET	65	0	0	1	0	1	EACH
FIRE HYDRANT	2	0	0	0	0	0	EACH
GATE	3	0	0	0	0	0	EACH
GUARD/GUIDE RAIL	21,220	380	523	185	0	0	LINEAR FEET
GUARD/GUIDE WALL	2,450	0	0	0	0	0	LINEAR FEET
INTERSECTION	102	7	7	9	7	7	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
LOW WATER CROSSING	0	0	0	0	0	0	LINEAR FEET
MILE MARKER	0	0	0	0	0	0	EACH
OVERHEAD SIGN	11	0	0	0	0	0	EACH
OVERPASS	11	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	13,358	649	248	977	0	0	LINEAR FEET
PULLOUT	3	0	0	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	12	0	0	0	0	0	EACH
RETAINING WALL	539	0	0	0	0	0	LINEAR FEET
SIGN	457	7	11	15	6	6	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TEMPORARY BARRIER	0	0	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	1	0	0	0	0	0	EACH
TUNNEL	1	0	0	0	0	0	EACH
TUNNEL	1,188	0	0	0	0	0	LINEAR FEET
TURNOUT	0	0	0	0	0	0	LINEAR FEET

Notice: Culverts and drop inlets were marked by NPS and inventoried by RIP in Cycle 4, therefore the culvert and drop inlet count above includes those on ARAN-driven routes, Manually Rated Routes and in Paved Parking Areas.

COLO: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0108A QUEENS LAKE ACCESS A	ROUTE 0108B QUEENS LAKE ACCESS B	ROUTE 0109A PARKWAY DRIVE ACCESS ROAD A	ROUTE 0109B PARKWAY DRIVE ACCESS ROAD B	ROUTE 0110 TAZEWELL HALL ACCESS ROAD	ROUTE 0111A STATE ROUTE 199 INTERCHANGE A	UNIT
BARRIER	0	0	0	0	0	26	LINEAR FEET
BOLLARD	0	0	0	0	0	0	LINEAR FEET
BRIDGE	0	0	0	0	0	0	EACH
CABLE	0	0	0	0	0	0	LINEAR FEET
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	0	0	0	0	0	2	EACH
CURB	433	290	243	180	539	90	LINEAR FEET
DROP INLET	1	1	1	1	2	0	EACH
FIRE HYDRANT	0	0	0	0	0	0	EACH
GATE	0	0	0	0	0	0	EACH
GUARD/GUIDE RAIL	0	0	0	0	0	26	LINEAR FEET
GUARD/GUIDE WALL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	6	6	5	5	5	6	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
LOW WATER CROSSING	0	0	0	0	0	0	LINEAR FEET
MILE MARKER	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
OVERPASS	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	0	0	0	0	0	0	LINEAR FEET
PULLOUT	0	0	0	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	LINEAR FEET
SIGN	8	8	6	6	9	7	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TEMPORARY BARRIER	0	0	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	LINEAR FEET
TURNOUT	0	0	0	0	0	0	LINEAR FEET

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COLO: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0111B STATE ROUTE 199 INTERCHANGE B	ROUTE 0111C STATE ROUTE 199 INTERCHANGE C	ROUTE 0111D STATE ROUTE 199 INTERCHANGE D	ROUTE 0112A NEWPORT AVENUE ACCESS ROAD A	ROUTE 0112B NEWPORT AVENUE ACCESS ROAD B	ROUTE 0500ZZ YORKTOWN WEST TOUR ROUTES	UNIT
BARRIER	0	58	0	0	0	834	LINEAR FEET
BOLLARD	0	0	0	0	0	37	LINEAR FEET
BRIDGE	0	0	0	0	0	3	EACH
CABLE	0	0	0	0	0	0	LINEAR FEET
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	1	1	0	0	1	39	EACH
CURB	0	132	127	533	787	607	LINEAR FEET
DROP INLET	0	0	0	4	3	0	EACH
FIRE HYDRANT	0	0	0	0	0	0	EACH
GATE	0	0	0	0	0	5	EACH
GUARD/GUIDE RAIL	0	58	0	0	0	655	LINEAR FEET
GUARD/GUIDE WALL	0	0	0	0	0	180	LINEAR FEET
INTERSECTION	6	6	6	6	6	51	EACH
LOW WATER CROSSING	0	0	0	0	0	1	EACH
LOW WATER CROSSING	0	0	0	0	0	53	LINEAR FEET
MILE MARKER	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
OVERPASS	0	0	0	0	0	2	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	491	253	692	0	0	375	LINEAR FEET
PULLOUT	0	0	0	0	0	17	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	LINEAR FEET
SIGN	15	8	8	8	8	73	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TEMPORARY BARRIER	0	0	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	LINEAR FEET
TURNOUT	0	0	0	0	0	0	LINEAR FEET

Notice: Culverts and drop inlets were marked by NPS and inventoried by RIP in Cycle 4, therefore the culvert and drop inlet count above includes those on ARAN-driven routes, Manually Rated Routes and in Paved Parking Areas.

COLO: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0501ZZ ISLAND DRIVE ROUTES	ROUTE 0503ZZ YORKTOWN EAST TOUR ROUTES		UNIT
BARRIER	2,846	586		LINEAR FEET
BOLLARD	0	0		LINEAR FEET
BRIDGE	4	1		EACH
CABLE	0	0		LINEAR FEET
CATTLE GUARD	0	0		EACH
CULVERT	9	12		EACH
CURB	0	1,563		LINEAR FEET
DROP INLET	0	0		EACH
FIRE HYDRANT	0	0		EACH
GATE	1	5		EACH
GUARD/GUIDE RAIL	0	586		LINEAR FEET
GUARD/GUIDE WALL	2,846	0		LINEAR FEET
INTERSECTION	13	32		EACH
LOW WATER CROSSING	0	0		EACH
LOW WATER CROSSING	0	0		LINEAR FEET
MILE MARKER	0	0		EACH
OVERHEAD SIGN	0	0		EACH
OVERPASS	0	0		EACH
PARK BOUNDARY	0	0		EACH
PAVED DITCH	0	211		LINEAR FEET
PULLOUT	13	11		EACH
RAILROAD CROSSING	0	0		EACH
RETAINING WALL	0	0		EACH
RETAINING WALL	0	0		LINEAR FEET
SIGN	12	51		EACH
STATE BOUNDARY	0	0		EACH
TEMPORARY BARRIER	0	0		LINEAR FEET
TRAFFIC LIGHT	0	1		EACH
TUNNEL	0	0		EACH
TUNNEL	0	0		LINEAR FEET
TURNOUT	0	0		LINEAR FEET

Notice: Culverts and drop inlets were marked by NPS and inventoried by RIP in Cycle 4, therefore the culvert and drop inlet count above includes those on ARAN-driven routes, Manually Rated Routes and in Paved Parking Areas.

COLO: STRUCTURE LIST

ROUTE NUMBER	FUNCTIONAL CLASS	MILEPOST START	MILEPOST END	FEATURE	STRUCTURE NUMBER
0001	1	0.45	0.495	BRIDGE	4290-005
0001	1	0.609	0.63	BRIDGE	4290-006
0001	1	1.593	1.593	OVERPASS	4290-007
0001	1	2.448	2.466	BRIDGE	4290-009
0001	1	3.076	3.094	BRIDGE	4290-008
0001	1	4.398	4.428	BRIDGE	4290-010
0001	1	6.034	6.09	BRIDGE	4290-011
0001	1	7.168	7.286	BRIDGE	4290-012
0001	1	8.569	8.6	BRIDGE	4290-013
0001	1	11.251	11.269	BRIDGE	4290-014
0001	1	11.991	11.991	OVERPASS	4290-016
0001	1	12.277	12.277	OVERPASS	4290-018
0001	1	12.879	12.879	OVERPASS	4290-034
0001	1	12.892	12.892	OVERPASS	4290-019
0001	1	13.06	13.285	TUNNEL	4290-033
0001	1	13.516	13.516	OVERPASS	4290-020
0001	1	14.148	14.148	CULVERT	4290-040
0001	1	15.74	15.892	BRIDGE	4290-022
0001	1	16.431	16.451	BRIDGE	4290-023
0001	1	19.512	19.522	BRIDGE	4290-024
0001	1	21.465	21.602	BRIDGE	4290-025
0001	1	22.516	22.527	BRIDGE	4290-026
0226Z	3	0.121	0.126	BRIDGE	4290-003
0500Z	3	1.192	1.205	BRIDGE	4290-002
0500Z	3	3.626	3.654	BRIDGE	4290-004
0501AZ	3	0.314	0.333	BRIDGE	4290-028
0501AZ	3	2.595	2.671	BRIDGE	4290-029
0501AZ	3	3.286	3.327	BRIDGE	4290-030
0501AZ	3	3.874	4.005	BRIDGE	4290-031
0503Z	3	0.777	0.78	BRIDGE	4290-038

Colonial National Historical Park

Section 9
Park Route Maintenance Features
Road Logs

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0901 (YORKTOWN VISITOR CENTER PARKING)
0.000	0.000	INTERSECTION	N/A	ROUTE 0901 (YORKTOWN VISITOR CENTER PARKING)
0.005	0.005	INTERSECTION	RIGHT	ROUTE 0901 (YORKTOWN VISITOR CENTER PARKING)
0.067	0.067	SIGN	RIGHT	GUIDE, ENTRANCE FEE ADULTS: $10.00 YORKTOWN JAMESTOWN ANNUAL PASS $40.00 PAY IN VISITOR CENTER
0.074	0.103	PULLOUT	LEFT	
0.117	0.117	SIGN	RIGHT	GUIDE, HISTORIC YORKTOWN HISTORIC MAIN STREET RIVERWALK LANDING COLONIAL PARKWAY 17 & 64
0.119	0.119	GATE	N/A	
0.123	0.123	SIGN	LEFT	GUIDE, AREA CLOSED SUNSET - 6 AM.
0.130	0.130	INTERSECTION	RIGHT	ROUTE 0001 (COLONIAL PARKWAY) SPUR
0.135	0.135	SIGN	RIGHT	GUIDE, VICTORY MONUMENT
0.136	0.136	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.144	0.144	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.160	0.160	SIGN	RIGHT	GUIDE, YORKTOWN VISITOR CENTER PARK HEADQUARTERS
0.164	0.164	SIGN	RIGHT	GUIDE, HISTORICAL TOUR
0.164	0.164	SIGN	RIGHT	REGULATORY, A
0.166	0.166	SIGN	RIGHT	REGULATORY, STOP
0.170	0.170	INTERSECTION	RIGHT	PAVED ROUTE (ZWEYBRUCKEN ROAD / NON NPS)
0.171	0.171	SIGN	RIGHT	GUIDE, YORKTOWN VISITOR CENTER PARK HEADQUARTERS
0.179	0.179	INTERSECTION	LEFT	PAVED ROUTE (MOORE HOUSE ROAD / NON NPS)
0.179	0.179	INTERSECTION	RIGHT	PAVED ROUTE (BALLARD STREET / NON NPS)
0.188	0.188	SIGN	RIGHT	REGULATORY, STOP
0.194	0.261	PAVED DITCH	RIGHT	
0.194	0.268	CURB	RIGHT	
0.200	0.200	SIGN	RIGHT	REGULATORY, COMMERCIAL VEHICLES EXCLUDED
0.205	0.205	SIGN	RIGHT	GUIDE, HISTORIC YORKTOWN BATTLEFIELD VISITOR CENTER MAIN STREET & WATERFRONT COAST GUARD TRAINING CENTER
0.214	0.214	SIGN	RIGHT	GUIDE, COLONIAL PARKWAY WILLIAMSBURG JAMESTOWN
0.275	0.275	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.282	0.282	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
0.313	0.313	SIGN	RIGHT	REGULATORY, DO NOT PASS
0.335	0.391	PAVED DITCH	LEFT	
0.339	0.339	SIGN	RIGHT	WARNING, SINGLE FILE
0.370	0.441	CURB	LEFT	

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.417	0.417	SIGN	RIGHT	GUIDE, ENTERING YORKTOWN BATTLEFIELD
0.424	0.442	GUARD/GUIDE RAIL	LEFT	
0.433	0.443	GUARD/GUIDE RAIL	RIGHT	
0.442	0.500	GUARD/GUIDE WALL	LEFT	BRICKS
0.443	0.501	GUARD/GUIDE WALL	RIGHT	BRICKS
0.450	0.495	BRIDGE	N/A	4290-005 (YORKTOWN CREEK BRIDGE)
0.500	0.510	GUARD/GUIDE RAIL	LEFT	
0.501	0.511	GUARD/GUIDE RAIL	RIGHT	
0.516	0.516	SIGN	RIGHT	REGULATORY, DO NOT PASS
0.516	0.516	SIGN	RIGHT	REGULATORY, DO NOT PASS
0.527	0.527	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
0.527	0.527	SIGN	RIGHT	GUIDE, U.S. ROUTE 17 NORTH-SOUTH NEXT RIGHT
0.535	0.535	SIGN	LEFT	REGULATORY, DO NOT ENTER
0.537	0.537	INTERSECTION	LEFT	ROUTE 0105B (US ROUTE 17 ACCESS ROAD B)
0.540	0.599	GUARD/GUIDE RAIL	RIGHT	
0.541	0.555	CURB	LEFT	
0.543	0.543	SIGN	LEFT	REGULATORY, DO NOT ENTER
0.549	0.549	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.559	0.559	INTERSECTION	LEFT	ROUTE 0105B (US ROUTE 17 ACCESS ROAD B) OPPOSITE LANE
0.566	0.566	CULVERT	N/A	
0.567	0.602	GUARD/GUIDE RAIL	LEFT	
0.598	0.598	DROP INLET	RIGHT	
0.599	0.637	GUARD/GUIDE WALL	RIGHT	BRICKS
0.600	0.600	SIGN	RIGHT	GUIDE, U.S. ROUTE 17 NORTH-SOUTH
0.602	0.640	GUARD/GUIDE WALL	LEFT	BRICKS
0.609	0.630	BRIDGE	N/A	4290-006 (U.S. ROUTE 17 PARKWAY BRIDGE)
0.637	0.747	GUARD/GUIDE RAIL	RIGHT	
0.640	0.727	GUARD/GUIDE RAIL	LEFT	
0.748	0.748	INTERSECTION	RIGHT	ROUTE 0105A (US ROUTE 17 ACCESS ROAD A)
0.754	0.771	CURB	RIGHT	
0.756	0.756	SIGN	RIGHT	GUIDE, U.S. ROUTE 17 NORTH-SOUTH
0.760	0.760	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.762	0.762	SIGN	LEFT	GUIDE, K1
0.762	0.762	SIGN	RIGHT	GUIDE, K1

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.770	0.770	SIGN	LEFT	REGULATORY, DO NOT ENTER
0.772	0.772	INTERSECTION	RIGHT	ROUTE 0105A (US ROUTE 17 ACCESS ROAD A) OPPOSITE LANE
0.776	0.776	SIGN	LEFT	REGULATORY, DO NOT ENTER
0.788	0.788	SIGN	RIGHT	GUIDE, US ROUTE 17 NORTH-SOUTH NEXT RIGHT
0.812	0.812	SIGN	RIGHT	REGULATORY, DO NOT PASS
0.839	0.839	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
0.842	0.842	SIGN	RIGHT	GUIDE, ENTERING COLONIAL PARKWAY
0.847	0.847	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
0.953	0.953	SIGN	RIGHT	REGULATORY, REDUCED SPEED AHEAD
1.013	1.013	CULVERT	N/A	
1.066	1.066	SIGN	RIGHT	REGULATORY, DO NOT PASS
1.066	1.066	SIGN	RIGHT	REGULATORY, PASS WITH CARE
1.245	1.453	PAVED DITCH	LEFT	
1.254	1.470	PAVED DITCH	RIGHT	
1.338	1.338	SIGN	RIGHT	REGULATORY, DO NOT PASS
1.348	1.348	DROP INLET	RIGHT	
1.348	1.348	DROP INLET	LEFT	
1.407	1.407	SIGN	RIGHT	GUIDE, K2
1.407	1.407	SIGN	LEFT	GUIDE, K2
1.450	1.536	GUARD/GUIDE RAIL	LEFT	
1.464	1.540	GUARD/GUIDE RAIL	RIGHT	
1.496	1.496	CULVERT	N/A	
1.501	1.501	SIGN	RIGHT	REGULATORY, PASS WITH CARE
1.555	1.555	SIGN	RIGHT	GUIDE, HISTORIC JAMESTOWNE VICTORY CENTER
1.557	1.689	PAVED DITCH	LEFT	
1.568	1.652	PAVED DITCH	RIGHT	
1.581	1.581	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
1.586	1.586	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.593	1.593	OVERPASS	N/A	4290-007 (OLD WILLIAMSBURG ROAD BRIDGE)
1.659	1.659	INTERSECTION	RIGHT	ROUTE 0106 (FUSILIER'S ROAD)
1.696	1.696	CULVERT	N/A	
1.697	1.697	SIGN	RIGHT	REGULATORY, DO NOT PASS
1.716	1.716	SIGN	RIGHT	GUIDE, YORKTOWN BATTLEFIELD
1.716	1.716	SIGN	RIGHT	GUIDE, VICTORY CENTER VISITOR CENTER

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
1.722	1.722	SIGN	RIGHT	GUIDE, COLONIAL PARKWAY WILLIAMSBURG 11 MI. 18 KM. JAMESTOWN 21 MI. 34 KM.
1.743	1.743	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
1.797	1.797	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.804	1.804	CULVERT	N/A	
1.835	1.835	SIGN	RIGHT	REGULATORY, DO NOT PASS
1.836	1.836	SIGN	RIGHT	REGULATORY, DO NOT PASS
1.933	1.933	CULVERT	N/A	
1.936	1.994	CURB	LEFT	
1.979	1.979	CULVERT	N/A	
1.988	2.021	PAVED DITCH	LEFT	
1.996	1.996	SIGN	LEFT	REGULATORY, DO NOT PASS
1.996	1.996	SIGN	RIGHT	REGULATORY, DO NOT PASS
1.998	1.998	SIGN	LEFT	REGULATORY, DO NOT PASS
1.998	1.998	SIGN	RIGHT	REGULATORY, DO NOT PASS
2.026	2.026	SIGN	LEFT	GUIDE, K3
2.026	2.026	SIGN	RIGHT	GUIDE, K3
2.029	2.029	CULVERT	N/A	
2.053	2.053	INTERSECTION	LEFT	PAVED ROUTE (YORKTOWN NAVAL WEAPONS STATION / NON NPS)
2.061	2.061	INTERSECTION	LEFT	PAVED ROUTE (YORKTOWN NAVAL WEAPONS STATION / NON NPS)
2.069	2.074	CURB-AND-GUTTER	LEFT	
2.166	2.166	DROP INLET	LEFT	
2.166	2.166	DROP INLET	RIGHT	
2.225	2.367	GUARD/GUIDE RAIL	RIGHT	
2.283	2.283	SIGN	RIGHT	REGULATORY, DO NOT PASS
2.283	2.283	SIGN	LEFT	REGULATORY, DO NOT PASS
2.285	2.285	SIGN	LEFT	REGULATORY, DO NOT PASS
2.285	2.285	SIGN	RIGHT	REGULATORY, DO NOT PASS
2.288	2.342	GUARD/GUIDE RAIL	LEFT	
2.309	2.309	CULVERT	N/A	
2.422	2.445	GUARD/GUIDE RAIL	RIGHT	
2.422	2.452	GUARD/GUIDE RAIL	LEFT	
2.445	2.467	GUARD/GUIDE WALL	RIGHT	BRICKS

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
2.448	2.466	BRIDGE	N/A	4290-009 (MINE DEPOT OVERPASS)
2.452	2.470	GUARD/GUIDE WALL	LEFT	BRICKS
2.467	2.487	GUARD/GUIDE RAIL	RIGHT	
2.468	2.468	DROP INLET	LEFT	
2.470	2.528	GUARD/GUIDE RAIL	LEFT	
2.649	2.649	SIGN	RIGHT	GUIDE, K4
2.649	2.649	SIGN	LEFT	GUIDE, K4
2.694	2.694	SIGN	RIGHT	REGULATORY, DO NOT PASS
2.695	2.695	SIGN	RIGHT	REGULATORY, DO NOT PASS
2.840	2.840	CULVERT	N/A	
2.881	2.920	GUARD/GUIDE RAIL	LEFT	
2.908	2.919	GUARD/GUIDE RAIL	RIGHT	
2.916	2.916	SIGN	RIGHT	GUIDE, BRACKENS POND
2.919	2.926	GUARD/GUIDE WALL	RIGHT	BRICKS
2.920	2.920	CULVERT	N/A	
2.920	2.928	GUARD/GUIDE WALL	LEFT	BRICKS
2.926	2.954	GUARD/GUIDE RAIL	RIGHT	
2.928	2.960	GUARD/GUIDE RAIL	LEFT	
2.931	2.931	SIGN	RIGHT	GUIDE, BRACKENS POND
2.953	2.953	SIGN	RIGHT	REGULATORY, DO NOT PASS
2.954	2.954	SIGN	LEFT	REGULATORY, DO NOT PASS
2.955	2.955	SIGN	LEFT	REGULATORY, DO NOT PASS
2.956	2.956	SIGN	RIGHT	REGULATORY, DO NOT PASS
2.977	2.977	INTERSECTION	RIGHT	ROUTE 0906 (NAVAL WEAPONS STATION PARKING)
3.016	3.016	INTERSECTION	RIGHT	ROUTE 0906 (NAVAL WEAPONS STATION PARKING)
3.021	3.074	GUARD/GUIDE RAIL	LEFT	
3.024	3.072	GUARD/GUIDE RAIL	RIGHT	
3.072	3.098	GUARD/GUIDE WALL	RIGHT	BRICKS
3.074	3.099	GUARD/GUIDE WALL	LEFT	BRICKS
3.076	3.094	BRIDGE	N/A	4290-008 (NORTH PIER NAVAL ACCESS ROAD BRIDGE)
3.098	3.127	GUARD/GUIDE RAIL	RIGHT	
3.099	3.109	GUARD/GUIDE RAIL	LEFT	
3.122	3.122	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
3.171	3.343	GUARD/GUIDE RAIL	RIGHT	

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
3.193	3.325	CURB	LEFT	
3.269	3.269	SIGN	RIGHT	GUIDE, K5
3.269	3.269	SIGN	LEFT	GUIDE, K5
3.271	3.271	CULVERT	N/A	
3.373	3.373	SIGN	RIGHT	REGULATORY, DO NOT PASS
3.376	3.376	SIGN	RIGHT	REGULATORY, DO NOT PASS
3.380	3.380	DROP INLET	LEFT	
3.380	3.380	DROP INLET	RIGHT	
3.417	3.417	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
3.434	3.434	INTERSECTION	RIGHT	ROUTE 0907 (YORKTOWN RIVER PARKING)
3.468	3.468	INTERSECTION	RIGHT	ROUTE 0907 (YORKTOWN RIVER PARKING)
3.584	3.584	DROP INLET	LEFT	
3.584	3.584	DROP INLET	RIGHT	
3.697	3.697	SIGN	RIGHT	REGULATORY, PASS WITH CARE
3.700	3.700	SIGN	RIGHT	REGULATORY, DO NOT PASS
3.706	3.706	CULVERT	N/A	
3.946	3.946	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
4.144	4.144	SIGN	RIGHT	REGULATORY, DO NOT PASS
4.146	4.146	SIGN	RIGHT	REGULATORY, PASS WITH CARE
4.197	4.197	INTERSECTION	RIGHT	ROUTE 0908 (POWHATAN PARKING)
4.219	4.219	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
4.219	4.219	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
4.239	4.239	INTERSECTION	RIGHT	ROUTE 0908 (POWHATAN PARKING)
4.316	4.316	INTERSECTION	LEFT	ROUTE 0909 (INDIAN FIELD CREEK PARKING)
4.335	4.335	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
4.335	4.335	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
4.348	4.348	INTERSECTION	LEFT	ROUTE 0909 (INDIAN FIELD CREEK PARKING)
4.362	4.395	CURB	LEFT	
4.384	4.398	GUARD/GUIDE RAIL	RIGHT	
4.385	4.399	GUARD/GUIDE RAIL	LEFT	
4.393	4.393	SIGN	RIGHT	GUIDE, INDIAN FIELD CREEK
4.393	4.393	SIGN	RIGHT	REGULATORY, NO FISHING FROM BRIDGE
4.398	4.428	BRIDGE	N/A	4290-010 (INDIAN FIELD CREEK BRIDGE)
4.398	4.432	GUARD/GUIDE RAIL	RIGHT	

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
4.399	4.433	GUARD/GUIDE RAIL	LEFT	
4.432	4.445	GUARD/GUIDE RAIL	RIGHT	
4.433	4.447	GUARD/GUIDE RAIL	LEFT	
4.437	4.437	SIGN	RIGHT	GUIDE, INDIAN FIELD CREEK
4.437	4.437	SIGN	RIGHT	REGULATORY, NO FISHING FROM BRIDGE
4.453	4.453	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
4.453	4.453	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
4.511	4.511	SIGN	RIGHT	GUIDE, K7
4.511	4.511	SIGN	LEFT	GUIDE, K7
4.525	4.525	SIGN	RIGHT	REGULATORY, PASS WITH CARE
4.526	4.526	SIGN	RIGHT	REGULATORY, DO NOT PASS
4.565	4.565	DROP INLET	RIGHT	
4.594	4.594	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
4.666	4.666	DROP INLET	RIGHT	
4.913	4.913	DROP INLET	RIGHT	
5.132	5.132	SIGN	LEFT	GUIDE, K8
5.133	5.133	SIGN	RIGHT	GUIDE, K8
5.285	5.285	INTERSECTION	LEFT	PAVED ROUTE (GATED)
5.314	5.314	DROP INLET	RIGHT	
5.406	5.406	CULVERT	N/A	
5.602	5.602	SIGN	RIGHT	REGULATORY, DO NOT PASS
5.603	5.603	SIGN	RIGHT	REGULATORY, PASS WITH CARE
5.682	5.682	INTERSECTION	RIGHT	ROUTE 0910 (BELLFIELD PLANTATION PARKING)
5.719	5.719	INTERSECTION	RIGHT	ROUTE 0910 (BELLFIELD PLANTATION PARKING)
5.748	5.748	SIGN	LEFT	GUIDE, K9
5.748	5.748	SIGN	RIGHT	GUIDE, K9
5.762	5.762	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
5.892	5.892	SIGN	RIGHT	REGULATORY, DO NOT PASS
5.893	5.893	SIGN	RIGHT	REGULATORY, DO NOT PASS
5.907	5.907	SIGN	RIGHT	GUIDE, PARK IN DESIGNATED AREAS ONLY
5.933	5.933	INTERSECTION	RIGHT	ROUTE 0911 (RINGFIELD PLANTATION PARKING)
5.957	5.957	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.983	5.983	INTERSECTION	RIGHT	ROUTE 0911 (RINGFIELD PLANTATION PARKING)
6.018	6.033	GUARD/GUIDE RAIL	RIGHT	

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
6.021	6.034	GUARD/GUIDE RAIL	LEFT	
6.025	6.025	SIGN	RIGHT	REGULATORY, NO FISHING FROM BRIDGE
6.025	6.025	SIGN	RIGHT	GUIDE, FELGATES CREEK
6.033	6.090	GUARD/GUIDE RAIL	RIGHT	
6.034	6.091	GUARD/GUIDE RAIL	LEFT	
6.034	6.090	BRIDGE	N/A	4290-011 (FELGATE'S CREEK BRIDGE)
6.041	6.041	SIGN	RIGHT	WARNING, UNABLE TO READ FROM VIDEO
6.084	6.084	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
6.090	6.104	GUARD/GUIDE RAIL	RIGHT	
6.091	6.105	GUARD/GUIDE RAIL	LEFT	
6.092	6.092	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
6.092	6.092	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
6.096	6.342	CURB	LEFT	
6.098	6.098	SIGN	RIGHT	GUIDE, FELGATES CREEK
6.098	6.098	SIGN	RIGHT	REGULATORY, NO FISHING FROM BRIDGE
6.127	6.129	PAVED DITCH	LEFT	
6.154	6.154	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
6.170	6.174	PAVED DITCH	LEFT	
6.197	6.197	SIGN	RIGHT	REGULATORY, DO NOT PASS
6.198	6.198	SIGN	RIGHT	REGULATORY, DO NOT PASS
6.239	6.242	PAVED DITCH	LEFT	
6.241	6.241	INTERSECTION	RIGHT	UNPAVED ROUTE (GATED / ABANDONED BY PARK)
6.289	6.292	PAVED DITCH	LEFT	
6.367	6.367	SIGN	LEFT	REGULATORY, DO NOT PASS
6.367	6.367	SIGN	RIGHT	REGULATORY, DO NOT PASS
6.369	6.369	SIGN	LEFT	REGULATORY, DO NOT PASS
6.369	6.369	SIGN	RIGHT	REGULATORY, DO NOT PASS
6.374	6.374	SIGN	LEFT	GUIDE, K10
6.374	6.374	SIGN	RIGHT	GUIDE, K10
6.380	6.380	CULVERT	N/A	
6.419	6.575	CURB	RIGHT	
6.573	6.579	PAVED DITCH	RIGHT	
6.582	6.582	CULVERT	N/A	
6.602	6.602	CULVERT	N/A	

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
6.651	6.676	GUARD/GUIDE RAIL	LEFT	
6.656	6.656	CULVERT	N/A	
6.734	6.734	DROP INLET	RIGHT	
6.874	6.874	INTERSECTION	RIGHT	UNPAVED ROUTE (ABANDONED BY PARK)
6.929	6.929	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
7.032	7.071	GUARD/GUIDE RAIL	LEFT	
7.055	7.055	CULVERT	N/A	
7.102	7.102	SIGN	RIGHT	REGULATORY, DO NOT PASS
7.103	7.103	SIGN	LEFT	REGULATORY, DO NOT PASS
7.103	7.103	SIGN	LEFT	REGULATORY, DO NOT PASS
7.104	7.104	SIGN	RIGHT	REGULATORY, DO NOT PASS
7.108	7.108	CULVERT	N/A	
7.147	7.164	GUARD/GUIDE RAIL	RIGHT	
7.152	7.165	GUARD/GUIDE RAIL	LEFT	
7.158	7.158	SIGN	RIGHT	GUIDE, KINGS CREEK
7.164	7.290	GUARD/GUIDE RAIL	RIGHT	
7.165	7.291	GUARD/GUIDE RAIL	LEFT	
7.168	7.286	BRIDGE	N/A	4290-012 (KINGS CREEK BRIDGE)
7.290	7.308	GUARD/GUIDE RAIL	RIGHT	
7.291	7.308	GUARD/GUIDE RAIL	LEFT	
7.298	7.298	SIGN	RIGHT	GUIDE, KINGS CREEK
7.321	7.321	SIGN	RIGHT	GUIDE, NO PARKING
7.352	7.352	SIGN	RIGHT	REGULATORY, DO NOT PASS
7.354	7.354	SIGN	RIGHT	REGULATORY, DO NOT PASS
7.443	7.443	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
7.444	7.553	CURB	LEFT	
7.551	7.551	CULVERT	N/A	
7.603	7.606	PAVED DITCH	RIGHT	
7.604	7.711	CURB	RIGHT	
7.618	7.618	SIGN	RIGHT	GUIDE, K12
7.619	7.619	SIGN	LEFT	GUIDE, K12
7.781	7.781	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
7.871	7.871	SIGN	RIGHT	REGULATORY, PASS WITH CARE
7.874	7.874	SIGN	RIGHT	REGULATORY, DO NOT PASS

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
8.047	8.047	CULVERT	N/A	
8.178	8.178	CULVERT	N/A	
8.239	8.239	SIGN	RIGHT	GUIDE, K13
8.240	8.240	SIGN	LEFT	GUIDE, K13
8.244	8.318	PAVED DITCH	LEFT	
8.324	8.324	SIGN	RIGHT	REGULATORY, DO NOT PASS
8.328	8.328	SIGN	RIGHT	REGULATORY, PASS WITH CARE
8.347	8.393	CURB	RIGHT	
8.353	8.353	SIGN	RIGHT	GUIDE, RT: 199 WEST
8.353	8.353	SIGN	RIGHT	GUIDE, U S. NAVY CHEATHAM ANNEX
8.388	8.388	INTERSECTION	RIGHT	ROUTE 0107A (CHEATHAM ANNEX ACCESS ROAD A)
8.397	8.414	CURB	RIGHT	
8.400	8.400	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
8.414	8.414	SIGN	LEFT	REGULATORY, DO NOT ENTER
8.417	8.417	INTERSECTION	RIGHT	ROUTE 0107A (CHEATHAM ANNEX ACCESS ROAD A) OPPOSITE LANE
8.418	8.418	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
8.435	8.435	CULVERT	N/A	
8.506	8.512	CURB	LEFT	
8.512	8.512	INTERSECTION	LEFT	ROUTE 0107B (CHEATHAM ANNEX ACCESS ROAD B)
8.517	8.534	CURB	LEFT	
8.519	8.519	SIGN	LEFT	REGULATORY, DO NOT ENTER
8.526	8.526	DROP INLET	LEFT	
8.532	8.532	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
8.537	8.537	INTERSECTION	LEFT	ROUTE 0107B (CHEATHAM ANNEX ACCESS ROAD B) OPPOSITE LANE
8.538	8.545	CURB	LEFT	
8.553	8.553	SIGN	RIGHT	GUIDE, PARK IN DESIGNATED AREAS ONLY
8.554	8.565	GUARD/GUIDE RAIL	RIGHT	
8.558	8.569	GUARD/GUIDE RAIL	LEFT	
8.565	8.603	GUARD/GUIDE WALL	RIGHT	BRICKS
8.569	8.600	BRIDGE	N/A	4290-013 (PENNIMAN ROAD BRIDGE)
8.569	8.608	GUARD/GUIDE WALL	LEFT	BRICKS
8.603	8.613	GUARD/GUIDE RAIL	RIGHT	
8.608	8.618	GUARD/GUIDE RAIL	LEFT	

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
8.662	8.662	SIGN	RIGHT	REGULATORY, DO NOT PASS
8.681	8.681	SIGN	RIGHT	GUIDE, RT. 199 WEST
8.681	8.681	SIGN	RIGHT	GUIDE, US. NAVY CHEATHAM ANNEX
8.705	8.705	SIGN	RIGHT	REGULATORY, DO NOT PASS
8.711	8.711	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
8.726	8.726	CULVERT	N/A	
8.750	8.750	CULVERT	N/A	
8.860	8.860	SIGN	RIGHT	GUIDE, K14
8.862	8.862	SIGN	LEFT	GUIDE, K14
8.905	8.905	SIGN	RIGHT	REGULATORY, DO NOT PASS
8.908	8.908	SIGN	RIGHT	REGULATORY, DO NOT PASS
8.940	8.940	CULVERT	N/A	
9.065	9.065	DROP INLET	RIGHT	
9.154	9.154	CULVERT	N/A	
9.191	9.191	SIGN	RIGHT	REGULATORY, DO NOT PASS
9.191	9.191	SIGN	RIGHT	REGULATORY, DO NOT PASS
9.230	9.230	CULVERT	N/A	
9.290	9.370	CURB	RIGHT	
9.327	9.327	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
9.346	9.346	INTERSECTION	LEFT	ROUTE 0912 (JAMES MILL PARKING)
9.366	9.391	PAVED DITCH	RIGHT	
9.368	9.368	INTERSECTION	LEFT	ROUTE 0912 (JAMES MILL PARKING)
9.370	9.478	GUARD/GUIDE RAIL	RIGHT	
9.379	9.409	GUARD/GUIDE RAIL	LEFT	
9.409	9.419	GUARD/GUIDE WALL	LEFT	BRICKS
9.413	9.413	CULVERT	N/A	
9.419	9.480	GUARD/GUIDE RAIL	LEFT	
9.422	9.422	SIGN	RIGHT	REGULATORY, NO TRESPASSING GOVERNMENT PROPERTY
9.422	9.422	SIGN	RIGHT	REGULATORY, NO TRESPASSING GOVERNMENT PROPERTY SWIMMING LAUNCHING OF BOATS AND BANK FISHING PROHIBITED
9.480	9.564	PAVED DITCH	LEFT	
9.567	9.567	CULVERT	N/A	
9.589	9.589	CULVERT	N/A	
9.597	9.705	CURB	LEFT	

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
9.759	9.759	SIGN	RIGHT	REGULATORY, DO NOT PASS
9.760	9.760	SIGN	RIGHT	REGULATORY, DO NOT PASS
9.802	9.802	CULVERT	N/A	
9.916	9.916	CULVERT	N/A	
9.987	9.987	CULVERT	N/A	
10.063	10.063	CULVERT	N/A	
10.101	10.101	SIGN	RIGHT	GUIDE, K16
10.102	10.102	SIGN	LEFT	GUIDE, K16
10.197	10.197	SIGN	RIGHT	REGULATORY, DO NOT PASS
10.199	10.199	SIGN	RIGHT	REGULATORY, DO NOT PASS
10.233	10.465	CURB	LEFT	
10.234	10.245	CURB	RIGHT	
10.278	10.280	PAVED DITCH	LEFT	
10.281	10.281	DROP INLET	LEFT	
10.284	10.284	DROP INLET	RIGHT	
10.382	10.385	PAVED DITCH	LEFT	
10.384	10.384	DROP INLET	LEFT	
10.461	10.467	PAVED DITCH	LEFT	
10.502	10.502	CULVERT	N/A	
10.533	10.582	PAVED DITCH	RIGHT	
10.539	10.539	CULVERT	N/A	
10.558	10.655	CURB	RIGHT	
10.670	10.670	CULVERT	N/A	
10.678	10.691	PAVED DITCH	RIGHT	
10.687	10.687	OVERPASS	N/A	A BIP STRUCTURE NUMBER HAS NOT BEEN ASSIGNED TO THIS BRIDGE (INTERSTATE 64 EASTBOUND / NON NPS)
10.687	10.785	CURB	RIGHT	
10.714	10.714	OVERPASS	N/A	A BIP STRUCTURE NUMBER HAS NOT BEEN ASSIGNED TO THIS BRIDGE (INTERSTATE 64 WESTBOUND / NON NPS)
10.722	10.722	SIGN	RIGHT	GUIDE, K17
10.723	10.723	SIGN	LEFT	GUIDE, K17
10.829	10.829	SIGN	RIGHT	REGULATORY, DO NOT PASS
10.842	10.842	DROP INLET	LEFT	
10.842	10.842	DROP INLET	RIGHT	
10.977	10.977	CULVERT	N/A	

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
11.059	11.059	CULVERT	N/A	
11.084	11.084	SIGN	RIGHT	REGULATORY, DO NOT PASS
11.088	11.088	SIGN	RIGHT	REGULATORY, DO NOT PASS
11.118	11.118	CULVERT	N/A	
11.182	11.182	INTERSECTION	LEFT	ROUTE 0108A (QUEENS LAKE ACCESS A) OPPOSITE LANE
11.186	11.204	CURB	LEFT	
11.186	11.186	SIGN	LEFT	REGULATORY, DO NOT ENTER
11.203	11.203	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
11.207	11.207	INTERSECTION	LEFT	ROUTE 0108A (QUEENS LAKE ACCESS A)
11.209	11.215	CURB	LEFT	
11.229	11.229	SIGN	RIGHT	GUIDE, QUEENS LAKE
11.237	11.248	GUARD/GUIDE RAIL	LEFT	
11.238	11.248	GUARD/GUIDE RAIL	RIGHT	
11.248	11.271	GUARD/GUIDE WALL	LEFT	BRICKS
11.248	11.272	GUARD/GUIDE WALL	RIGHT	BRICKS
11.251	11.269	BRIDGE	N/A	4290-014 (HUBBARD'S LANE BRIDGE)
11.271	11.281	GUARD/GUIDE RAIL	LEFT	
11.272	11.282	GUARD/GUIDE RAIL	RIGHT	
11.289	11.289	SIGN	RIGHT	GUIDE, QUEENS LAKE
11.307	11.316	CURB	RIGHT	
11.312	11.312	INTERSECTION	RIGHT	ROUTE 0108B (QUEENS LAKE ACCESS B)
11.318	11.338	CURB	RIGHT	
11.323	11.323	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
11.339	11.339	SIGN	LEFT	REGULATORY, DO NOT ENTER
11.340	11.340	INTERSECTION	RIGHT	ROUTE 0108B (QUEENS LAKE ACCESS B) OPPOSITE LANE
11.345	11.345	SIGN	RIGHT	GUIDE, QUEENS LAKE NEXT RIGHT
11.349	11.349	SIGN	RIGHT	GUIDE, K18
11.351	11.351	SIGN	LEFT	GUIDE, K18
11.391	11.391	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
11.404	11.404	DROP INLET	LEFT	
11.436	11.436	CULVERT	N/A	
11.453	11.453	SIGN	RIGHT	REGULATORY, DO NOT PASS
11.454	11.454	SIGN	RIGHT	REGULATORY, DO NOT PASS
11.496	11.496	CULVERT	N/A	

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
11.545	11.591	CURB	LEFT	
11.589	11.594	PAVED DITCH	LEFT	
11.624	11.624	CULVERT	N/A	
11.686	11.686	CULVERT	N/A	
11.730	11.771	CURB	RIGHT	
11.733	11.733	SIGN	LEFT	REGULATORY, DO NOT PASS
11.734	11.734	SIGN	RIGHT	REGULATORY, DO NOT PASS
11.734	11.734	SIGN	RIGHT	REGULATORY, DO NOT PASS
11.735	11.735	SIGN	LEFT	REGULATORY, DO NOT PASS
11.753	11.753	CULVERT	N/A	
11.763	11.772	PAVED DITCH	RIGHT	
11.771	11.777	RETAINING WALL	LEFT	
11.772	11.778	RETAINING WALL	RIGHT	
11.776	11.776	OVERPASS	N/A	A BIP STRUCTURE NUMBER HAS NOT BEEN ASSIGNED TO THIS BRIDGE (STATE HIGHWAY 143 / NON NPS)
11.784	11.789	RETAINING WALL	LEFT	
11.786	11.791	RETAINING WALL	RIGHT	
11.793	11.844	CURB	RIGHT	
11.805	11.810	PAVED DITCH	RIGHT	
11.843	11.843	SIGN	RIGHT	GUIDE, PARKWAY DRIVE
11.896	11.896	INTERSECTION	RIGHT	ROUTE 0109A (PARKWAY DRIVE ACCESS ROAD A)
11.897	11.897	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
11.906	11.928	CURB	RIGHT	
11.908	11.908	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
11.927	11.927	SIGN	LEFT	REGULATORY, DO NOT ENTER
11.931	11.931	INTERSECTION	RIGHT	ROUTE 0109A (PARKWAY DRIVE ACCESS ROAD A) OPPOSITE LANE
11.962	11.962	SIGN	LEFT	GUIDE, K19
11.962	11.962	SIGN	RIGHT	GUIDE, K19
11.985	11.985	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
11.991	11.991	OVERPASS	N/A	4290-016 (PARKWAY DRIVE BRIDGE)
12.064	12.064	INTERSECTION	LEFT	ROUTE 0109B (PARKWAY DRIVE ACCESS ROAD B) OPPOSITE LANE
12.070	12.092	CURB	LEFT	
12.073	12.073	SIGN	LEFT	REGULATORY, DO NOT ENTER

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
12.090	12.090	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
12.094	12.094	INTERSECTION	LEFT	ROUTE 0109B (PARKWAY DRIVE ACCESS ROAD B)
12.142	12.142	CULVERT	N/A	
12.148	12.148	SIGN	RIGHT	GUIDE, PARKWAY DRIVE
12.168	12.168	SIGN	RIGHT	REGULATORY, REDUCED SPEED AHEAD
12.193	12.193	CULVERT	N/A	
12.216	12.216	SIGN	RIGHT	REGULATORY, DO NOT PASS
12.217	12.217	SIGN	RIGHT	REGULATORY, DO NOT PASS
12.263	12.263	DROP INLET	RIGHT	
12.264	12.269	RETAINING WALL	LEFT	
12.265	12.274	RETAINING WALL	RIGHT	
12.273	12.273	SIGN	N/A	WARNING, 13' - 0"
12.277	12.277	OVERPASS	N/A	4290-018 (PAGE STREET BRIDGE)
12.283	12.283	SIGN	N/A	WARNING, 13' - 6"
12.286	12.295	RETAINING WALL	LEFT	
12.287	12.296	RETAINING WALL	RIGHT	
12.365	12.386	PULLOUT	LEFT	
12.369	12.384	CURB	LEFT	
12.375	12.375	SIGN	RIGHT	REGULATORY, SLOW CONGESTED AREA SPEED LIMIT 35
12.499	12.499	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
12.507	12.507	CULVERT	N/A	
12.517	12.517	SIGN	RIGHT	REGULATORY, DO NOT PASS
12.564	12.564	CULVERT	N/A	
12.578	12.578	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
12.583	12.583	SIGN	LEFT	GUIDE, K20
12.583	12.583	SIGN	RIGHT	GUIDE, K20
12.625	12.625	SIGN	RIGHT	GUIDE, YORKTOWN 13 MILES 21 KILOMETERS
12.650	12.650	SIGN	RIGHT	GUIDE, 60 31 5
12.650	12.650	SIGN	RIGHT	GUIDE, INTERSTATE 64
12.651	12.667	CURB	LEFT	
12.651	12.742	CURB	RIGHT	
12.661	12.661	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY) OPPOSITE LANE
12.677	12.729	CURB	LEFT	
12.679	12.679	SIGN	LEFT	REGULATORY, KEEP RIGHT

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
12.694	12.694	DROP INLET	LEFT	OPPOSITE LANE
12.711	12.711	SIGN	RIGHT	GUIDE, JAMESTOWN VISITOR CENTER
12.726	12.726	DROP INLET	LEFT	
12.731	12.731	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY) CUT-THRU
12.735	12.783	CURB-AND-GUTTER	LEFT	
12.738	12.738	INTERSECTION	RIGHT	PAVED ROUTE (STATE ROUTE 132 / NON NPS)
12.745	12.781	CURB	RIGHT	
12.748	12.748	SIGN	RIGHT	GUIDE, VISITOR CENTER DR
12.750	12.750	SIGN	RIGHT	GUIDE, YORKTOWN
12.772	12.772	DROP INLET	LEFT	OPPOSITE LANE
12.776	12.776	SIGN	LEFT	REGULATORY, ONE WAY
12.778	12.778	SIGN	LEFT	REGULATORY, ONE WAY
12.782	12.782	INTERSECTION	RIGHT	PAVED ROUTE (STATE ROUTE 132 / NON NPS)
12.782	12.782	DROP INLET	LEFT	CUT-THRU
12.782	12.782	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY) CUT-THRU
12.785	12.792	CURB	RIGHT	
12.788	12.834	CURB	LEFT	
12.790	12.790	DROP INLET	LEFT	
12.795	12.795	INTERSECTION	RIGHT	PAVED ROUTE (STATE ROUTE 132 / NON NPS) SPUR
12.795	12.951	CURB	RIGHT	
12.803	12.803	CULVERT	N/A	
12.806	12.806	SIGN	RIGHT	GUIDE, INTERSTATE 64 5 31 60
12.820	12.820	DROP INLET	LEFT	
12.820	12.820	DROP INLET	RIGHT	
12.820	12.820	DROP INLET	RIGHT	
12.823	12.823	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
12.826	12.826	DROP INLET	LEFT	OPPOSITE LANE
12.831	12.831	SIGN	LEFT	REGULATORY, KEEP RIGHT
12.840	12.840	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY) OPPOSITE LANE
12.840	12.840	SIGN	RIGHT	GUIDE, WILLIAMSBURG JAMESTOWN
12.841	12.876	CURB	LEFT	
12.867	12.867	SIGN	RIGHT	REGULATORY, DO NOT PASS
12.877	12.877	SIGN	N/A	WARNING, 12' - 6"
12.879	12.879	OVERPASS	N/A	4290-034 (C&O RAILROAD BRIDGE)

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
12.886	12.886	SIGN	N/A	WARNING, 13' - 5"
12.888	12.888	CULVERT	N/A	
12.889	12.891	PAVED DITCH	RIGHT	
12.891	12.891	SIGN	N/A	WARNING, 13' - 4"
12.892	12.892	OVERPASS	N/A	4290-019 (LAFAYETTE STREET BRIDGE)
12.899	12.899	SIGN	N/A	WARNING, 12' - 6"
12.913	12.913	DROP INLET	RIGHT	
12.918	12.918	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
12.935	12.935	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
12.946	12.946	INTERSECTION	RIGHT	ROUTE 0001 (COLONIAL PARKWAY) SPUR
12.946	12.946	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
12.955	12.966	CURB	RIGHT	
12.961	12.961	SIGN	RIGHT	WARNING, MERGE RIGHT SINGLE LANE AHEAD
12.968	12.968	INTERSECTION	RIGHT	PAVED ROUTE (LAFAYETTE STREET RAMP / NON NPS)
12.980	12.980	DROP INLET	RIGHT	
12.983	12.983	SIGN	RIGHT	GUIDE, NO BICYCLES NO PEDESTRIANS IN TUNNEL
12.988	12.988	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
12.991	12.991	SIGN	RIGHT	GUIDE, USE LIGHTS
13.025	13.025	SIGN	RIGHT	GUIDE, CHECK LIGHTS
13.042	13.059	RETAINING WALL	LEFT	
13.043	13.060	RETAINING WALL	RIGHT	
13.054	13.058	CURB	LEFT	
13.055	13.060	CURB	RIGHT	
13.058	13.058	DROP INLET	RIGHT	
13.058	13.058	DROP INLET	LEFT	
13.060	13.060	SIGN	N/A	WARNING, 11' - 0"
13.060	13.060	SIGN	N/A	WARNING, 14' - 8"
13.060	13.285	TUNNEL	N/A	4290-033 (WILLIAMSBURG TUNNEL)
13.283	13.290	CURB	LEFT	
13.284	13.291	CURB	RIGHT	
13.285	13.292	RETAINING WALL	LEFT	
13.286	13.293	RETAINING WALL	RIGHT	
13.288	13.288	DROP INLET	LEFT	
13.288	13.288	DROP INLET	RIGHT	

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
13.289	13.289	SIGN	N/A	WARNING, 11' - 0"
13.289	13.289	SIGN	N/A	WARNING, 14' - 8"
13.294	13.322	GUARD/GUIDE WALL	RIGHT	
13.314	13.314	DROP INLET	LEFT	
13.314	13.314	DROP INLET	RIGHT	
13.331	13.331	SIGN	RIGHT	GUIDE, CHECK LIGHTS
13.333	13.337	PAVED DITCH	LEFT	
13.333	13.372	CURB	LEFT	
13.339	13.339	DROP INLET	LEFT	
13.353	13.353	SIGN	RIGHT	GUIDE, USE LIGHTS
13.365	13.365	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
13.421	13.421	SIGN	RIGHT	GUIDE, NO BICYCLES NO PEDESTRIANS IN TUNNEL
13.438	13.438	SIGN	RIGHT	GUIDE, YORKTOWN 14 MI. 23 KM.
13.448	13.455	CURB	LEFT	
13.452	13.452	SIGN	RIGHT	GUIDE, WILLIAMSBURG JAMESTOWN
13.454	13.454	INTERSECTION	LEFT	ROUTE 0112A (NEWPORT AVENUE ACCESS ROAD A)
13.458	13.477	CURB	LEFT	
13.462	13.462	SIGN	LEFT	REGULATORY, DO NOT ENTER
13.476	13.476	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
13.478	13.478	INTERSECTION	LEFT	ROUTE 0112A (NEWPORT AVENUE ACCESS ROAD A) OPPOSITE LANE
13.483	13.487	CURB	LEFT	
13.484	13.577	PAVED DITCH	RIGHT	
13.496	13.496	SIGN	RIGHT	GUIDE, NEWPORT AVE.
13.516	13.516	OVERPASS	N/A	4290-020 (NEWPORT AVENUE BRIDGE)
13.524	13.524	SIGN	N/A	WARNING, 13' - 6"
13.538	13.538	SIGN	RIGHT	GUIDE, YORKTOWN WILLIAMSBURG
13.548	13.548	CULVERT	N/A	
13.559	13.559	SIGN	RIGHT	GUIDE, NEWPORT AVE.
13.565	13.569	GUARD/GUIDE WALL	RIGHT	
13.572	13.572	INTERSECTION	RIGHT	ROUTE 0112B (NEWPORT AVENUE ACCESS ROAD B) OPPOSITE LANE
13.578	13.590	CURB	RIGHT	
13.582	13.582	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
13.591	13.591	SIGN	LEFT	REGULATORY, DO NOT ENTER

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
13.592	13.592	INTERSECTION	RIGHT	ROUTE 0112B (NEWPORT AVENUE ACCESS ROAD B)
13.662	13.662	SIGN	RIGHT	WARNING, SINGLE FILE
13.679	13.679	SIGN	RIGHT	REGULATORY, DO NOT PASS
13.679	13.728	PAVED DITCH	LEFT	
13.694	13.694	SIGN	RIGHT	GUIDE, JAMESTOWNE 9 MILES 14 KILOMETERS
13.700	13.700	SIGN	RIGHT	REGULATORY, DO NOT PASS
13.708	13.708	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
13.771	13.771	CULVERT	N/A	
13.807	13.807	SIGN	RIGHT	REGULATORY, SLOW CONGESTED AREA SPEED LIMIT 35
13.810	13.810	SIGN	RIGHT	GUIDE, K22
13.811	13.811	SIGN	LEFT	GUIDE, K22
13.867	13.867	CULVERT	N/A	
13.875	13.882	PAVED DITCH	LEFT	
13.924	13.924	SIGN	RIGHT	REGULATORY, REDUCED SPEED AHEAD
13.951	14.044	PAVED DITCH	RIGHT	
13.971	13.971	INTERSECTION	LEFT	ROUTE 0913 (PALISADES GREAT OAKS PARKING)
13.972	14.016	CURB	RIGHT	
14.006	14.006	INTERSECTION	LEFT	ROUTE 0913 (PALISADES GREAT OAKS PARKING)
14.101	14.101	CULVERT	N/A	
14.146	14.146	SIGN	RIGHT	GUIDE, PAPER MILL CREEK
14.148	14.148	CULVERT	N/A	4290-040 (PAPERMILL CREEK CULVERT #1)
14.156	14.156	SIGN	RIGHT	GUIDE, PAPER MILL CREEK
14.167	14.167	INTERSECTION	LEFT	ROUTE 0914 (GREAT NECK PARKING)
14.205	14.205	INTERSECTION	LEFT	ROUTE 0914 (GREAT NECK PARKING)
14.312	14.457	CURB	LEFT	
14.410	14.410	CULVERT	N/A	
14.428	14.446	PAVED DITCH	LEFT	
14.429	14.429	SIGN	RIGHT	GUIDE, K23
14.430	14.430	SIGN	LEFT	GUIDE, K23
14.496	14.496	CULVERT	N/A	
14.511	14.606	PAVED DITCH	RIGHT	
14.618	14.716	PAVED DITCH	RIGHT	
14.620	14.620	DROP INLET	RIGHT	
14.652	14.652	SIGN	RIGHT	REGULATORY, DO NOT PASS

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
14.680	14.713	CURB	RIGHT	
14.685	14.685	SIGN	RIGHT	REGULATORY, DO NOT PASS
14.685	14.772	PAVED DITCH	LEFT	
14.688	14.688	SIGN	RIGHT	GUIDE, ROUTE 199 WEST WILLIAMSBURG
14.720	14.720	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
14.755	14.755	INTERSECTION	RIGHT	ROUTE 0111A (STATE ROUTE 199 INTERCHANGE A)
14.761	14.776	CURB	RIGHT	
14.764	14.764	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
14.771	14.771	INTERSECTION	LEFT	ROUTE 0111C (STATE ROUTE 199 INTERCHANGE C)
14.775	14.775	SIGN	LEFT	REGULATORY, DO NOT ENTER
14.778	14.794	CURB	LEFT	
14.779	14.779	INTERSECTION	RIGHT	ROUTE 0111A (STATE ROUTE 199 INTERCHANGE A) OPPOSITE LANE
14.784	14.784	SIGN	LEFT	REGULATORY, DO NOT ENTER
14.793	14.793	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
14.795	14.795	INTERSECTION	LEFT	ROUTE 0111C (STATE ROUTE 199 INTERCHANGE C) OPPOSITE LANE
14.797	14.797	SIGN	RIGHT	GUIDE, NEWPORT NEWS RICHMOND
14.822	14.822	SIGN	RIGHT	GUIDE, ROUTE 199 EAST KINGSPOINT
14.830	14.830	OVERPASS	N/A	A BIP STRUCTURE NUMBER HAS NOT BEEN ASSIGNED TO THIS BRIDGE (STATE HIGHWAY 199 NORTHBOUND / NON NPS)
14.844	14.844	OVERPASS	N/A	A BIP STRUCTURE NUMBER HAS NOT BEEN ASSIGNED TO THIS BRIDGE (STATE HIGHWAY 199 SOUTHBOUND / NON NPS)
14.850	14.893	PAVED DITCH	RIGHT	
14.851	14.900	PAVED DITCH	LEFT	
14.883	14.883	SIGN	RIGHT	GUIDE, ROUTE 199 WEST KINGSPOINT
14.887	14.887	INTERSECTION	RIGHT	ROUTE 0111B (STATE ROUTE 199 INTERCHANGE B) OPPOSITE LANE
14.894	14.911	CURB	RIGHT	
14.896	14.896	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
14.905	14.905	SIGN	LEFT	REGULATORY, DO NOT ENTER
14.906	14.906	INTERSECTION	LEFT	ROUTE 0111D (STATE ROUTE 199 INTERCHANGE D) OPPOSITE LANE
14.911	14.911	INTERSECTION	RIGHT	ROUTE 0111B (STATE ROUTE 199 INTERCHANGE B)
14.912	14.927	CURB	LEFT	
14.916	14.916	SIGN	LEFT	REGULATORY, DO NOT ENTER

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
14.926	14.926	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
14.930	14.930	INTERSECTION	LEFT	ROUTE 0111D (STATE ROUTE 199 INTERCHANGE D)
14.938	14.976	PAVED DITCH	LEFT	
15.011	15.011	CULVERT	N/A	
15.011	15.011	SIGN	RIGHT	GUIDE, NEWPORT NEWS RICHMOND ROUTE 199 EAST
15.018	15.018	SIGN	RIGHT	WARNING, SINGLE FILE
15.019	15.054	PAVED DITCH	RIGHT	
15.020	15.111	PAVED DITCH	LEFT	
15.051	15.051	SIGN	LEFT	GUIDE, K24
15.051	15.051	SIGN	RIGHT	GUIDE, K24
15.059	15.059	SIGN	RIGHT	REGULATORY, DO NOT PASS
15.071	15.071	DROP INLET	LEFT	
15.124	15.124	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
15.179	15.179	SIGN	RIGHT	REGULATORY, DO NOT PASS
15.182	15.296	PAVED DITCH	LEFT	
15.191	15.305	PAVED DITCH	RIGHT	
15.290	15.411	GUARD/GUIDE RAIL	LEFT	
15.297	15.529	GUARD/GUIDE RAIL	RIGHT	
15.360	15.360	CULVERT	N/A	
15.464	15.524	GUARD/GUIDE RAIL	LEFT	
15.496	15.496	CULVERT	N/A	
15.595	15.690	PAVED DITCH	LEFT	
15.599	15.710	PAVED DITCH	RIGHT	
15.673	15.673	SIGN	RIGHT	GUIDE, K25
15.674	15.674	SIGN	LEFT	GUIDE, K25
15.713	15.734	GUARD/GUIDE RAIL	LEFT	
15.714	15.733	GUARD/GUIDE RAIL	RIGHT	
15.731	15.731	SIGN	RIGHT	GUIDE, HALFWAY CREEK
15.733	15.892	GUARD/GUIDE RAIL	RIGHT	
15.734	15.893	GUARD/GUIDE RAIL	LEFT	
15.740	15.892	BRIDGE	N/A	4290-022 (HALFWAY CREEK BRIDGE)
15.891	15.965	PAVED DITCH	RIGHT	
15.892	15.922	GUARD/GUIDE RAIL	RIGHT	
15.893	15.919	GUARD/GUIDE RAIL	LEFT	

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
15.898	15.898	SIGN	RIGHT	GUIDE, HALFWAY CREEK
15.914	15.963	PAVED DITCH	LEFT	
15.916	15.988	CURB	LEFT	
16.005	16.005	SIGN	RIGHT	GUIDE, PARK ONLY IN PAVED PULLOUTS
16.026	16.026	INTERSECTION	LEFT	UNPAVED ROUTE
16.026	16.026	INTERSECTION	RIGHT	UNPAVED ROUTE (GATED)
16.103	16.103	SIGN	RIGHT	REGULATORY, REDUCED SPEED AHEAD
16.125	16.170	CURB	RIGHT	
16.138	16.217	PAVED DITCH	RIGHT	
16.225	16.360	GUARD/GUIDE RAIL	LEFT	
16.238	16.238	CULVERT	N/A	
16.267	16.315	CURB	RIGHT	
16.293	16.293	CULVERT	N/A	
16.294	16.294	SIGN	RIGHT	GUIDE, K26
16.294	16.294	SIGN	LEFT	GUIDE, K26
16.348	16.348	CULVERT	N/A	
16.364	16.364	SIGN	RIGHT	REGULATORY, SLOW CONGESTED AREA REDUCED SPEED 35 M.P.H.
16.383	16.383	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
16.383	16.425	GUARD/GUIDE RAIL	RIGHT	
16.389	16.429	GUARD/GUIDE RAIL	LEFT	
16.418	16.418	SIGN	RIGHT	GUIDE, COLLEGE CREEK
16.425	16.451	GUARD/GUIDE RAIL	RIGHT	
16.429	16.454	GUARD/GUIDE RAIL	LEFT	
16.431	16.451	BRIDGE	N/A	4290-023 (COLLEGE CREEK BRIDGE)
16.451	16.474	GUARD/GUIDE RAIL	RIGHT	
16.454	16.499	GUARD/GUIDE RAIL	LEFT	
16.461	16.461	SIGN	RIGHT	GUIDE, COLLEGE CREEK
16.486	16.486	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
16.486	16.486	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
16.516	16.516	SIGN	LEFT	REGULATORY, NO PARKING ANY TIME
16.516	16.516	SIGN	LEFT	REGULATORY, TOW-AWAY ZONE
16.528	16.528	SIGN	RIGHT	REGULATORY, DO NOT PASS
16.529	16.529	SIGN	RIGHT	REGULATORY, DO NOT PASS

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
16.533	16.533	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
16.533	16.533	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
16.560	16.560	INTERSECTION	RIGHT	ROUTE 0915 (ATTEMPTED SETTLEMENT/COLLEGE CREEK PARKING)
16.582	16.582	DROP INLET	RIGHT	
16.597	16.597	SIGN	LEFT	REGULATORY, NO PARKING ANY TIME
16.597	16.597	SIGN	LEFT	REGULATORY, TOW-AWAY ZONE
16.606	16.606	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
16.606	16.606	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
16.648	16.648	INTERSECTION	RIGHT	ROUTE 0915 (ATTEMPTED SETTLEMENT/COLLEGE CREEK PARKING)
16.653	16.653	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
16.653	16.653	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
16.757	16.757	SIGN	LEFT	REGULATORY, NO PARKING ANY TIME
16.757	16.757	SIGN	LEFT	REGULATORY, TOW-AWAY ZONE
16.759	16.759	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
16.759	16.759	SIGN	RIGHT	REGULATORY, TOW-AWAY ZONE
16.916	16.916	SIGN	LEFT	GUIDE, K27
16.917	16.917	SIGN	RIGHT	GUIDE, K27
16.918	16.918	SIGN	LEFT	REGULATORY, NO PARKING ANY TIME
16.918	16.918	SIGN	LEFT	REGULATORY, TOW-AWAY ZONE
16.927	16.927	INTERSECTION	LEFT	ROUTE 0916 (JAMES RIVER PARKING)
16.963	16.963	INTERSECTION	LEFT	ROUTE 0916 (JAMES RIVER PARKING)
16.972	16.972	SIGN	LEFT	REGULATORY, TOW-AWAY ZONE
16.972	16.972	SIGN	LEFT	REGULATORY, NO PARKING ANY TIME
17.042	17.042	SIGN	RIGHT	REGULATORY, SLOW CONGESTED AREA REDUCED SPEED 35 M.P.H.
17.044	17.044	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
17.079	17.079	CULVERT	N/A	
17.159	17.159	SIGN	RIGHT	REGULATORY, REDUCED SPEED AHEAD
17.413	17.413	SIGN	RIGHT	REGULATORY, DO NOT PASS
17.414	17.414	SIGN	RIGHT	REGULATORY, PASS WITH CARE
17.537	17.537	SIGN	LEFT	GUIDE, K28
17.539	17.539	SIGN	RIGHT	GUIDE, K28
17.669	17.669	CULVERT	N/A	

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
17.775	17.775	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
17.777	17.777	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
17.854	17.854	SIGN	LEFT	REGULATORY, NO PARKING ANY TIME
17.854	17.854	SIGN	LEFT	REGULATORY, TOW-AWAY ZONE
17.906	17.906	SIGN	LEFT	REGULATORY, TOW-AWAY ZONE
17.906	17.906	SIGN	LEFT	REGULATORY, NO PARKING ANY TIME
17.914	17.914	INTERSECTION	LEFT	ROUTE 0917 (ARCHER'S HOPE PARKING)
18.013	18.013	INTERSECTION	LEFT	ROUTE 0917 (ARCHER'S HOPE PARKING)
18.023	18.023	SIGN	LEFT	REGULATORY, NO PARKING ANY TIME
18.023	18.023	SIGN	LEFT	REGULATORY, TOW-AWAY ZONE
18.071	18.071	SIGN	LEFT	REGULATORY, NO PARKING ANY TIME
18.071	18.071	SIGN	LEFT	REGULATORY, TOW-AWAY ZONE
18.108	18.108	SIGN	LEFT	REGULATORY, NO PARKING ANY TIME
18.108	18.108	SIGN	LEFT	REGULATORY, TOW-AWAY ZONE
18.194	18.194	CULVERT	N/A	
18.396	18.396	INTERSECTION	RIGHT	UNPAVED ROUTE (NON NPS)
18.402	18.402	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
18.632	18.632	CULVERT	N/A	
18.689	18.689	SIGN	RIGHT	GUIDE, BIKE ROUTE
18.689	18.689	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
18.765	18.765	SIGN	RIGHT	GUIDE, BIKE ROUTE
18.765	18.765	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
18.782	18.782	SIGN	LEFT	GUIDE, K30
18.783	18.783	SIGN	RIGHT	GUIDE, K30
18.794	18.794	CULVERT	N/A	
18.870	18.870	CULVERT	N/A	
19.165	19.165	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
19.180	19.180	CULVERT	N/A	
19.188	19.188	SIGN	RIGHT	GUIDE, GLEBE GUT
19.243	19.243	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
19.244	19.244	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
19.309	19.309	SIGN	RIGHT	REGULATORY, DO NOT PASS
19.309	19.309	SIGN	RIGHT	REGULATORY, PASS WITH CARE
19.367	19.367	INTERSECTION	LEFT	ROUTE 0918 (JAMESTOWN ISLAND/GLEBE LAND PARKING)

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
19.404	19.404	SIGN	LEFT	GUIDE, K31
19.404	19.404	SIGN	RIGHT	GUIDE, K31
19.463	19.463	INTERSECTION	LEFT	ROUTE 0918 (JAMESTOWN ISLAND/GLEBE LAND PARKING)
19.466	19.507	GUARD/GUIDE RAIL	RIGHT	
19.485	19.508	GUARD/GUIDE RAIL	LEFT	
19.500	19.500	SIGN	RIGHT	GUIDE, MILL CREEK
19.507	19.526	GUARD/GUIDE RAIL	RIGHT	
19.508	19.527	GUARD/GUIDE RAIL	LEFT	
19.512	19.522	BRIDGE	N/A	4290-024 (MILL CREEK BRIDGE)
19.526	19.576	GUARD/GUIDE RAIL	RIGHT	
19.527	19.595	GUARD/GUIDE RAIL	LEFT	
19.534	19.534	SIGN	RIGHT	GUIDE, MILL CREEK
19.769	19.769	INTERSECTION	LEFT	ROUTE 0919 (REAL ESTATE PARKING)
19.803	19.803	INTERSECTION	LEFT	ROUTE 0919 (REAL ESTATE PARKING)
20.026	20.026	SIGN	LEFT	GUIDE, K32
20.026	20.026	SIGN	RIGHT	GUIDE, K32
20.070	20.070	CULVERT	N/A	
20.222	20.222	DROP INLET	RIGHT	
20.235	20.235	INTERSECTION	LEFT	ROUTE 0920 (NECK OF LAND PARKING)
20.310	20.310	INTERSECTION	LEFT	ROUTE 0920 (NECK OF LAND PARKING)
20.363	20.363	SIGN	RIGHT	REGULATORY, DO NOT PASS
20.365	20.365	SIGN	RIGHT	REGULATORY, DO NOT PASS
20.421	20.421	CULVERT	N/A	
20.443	20.443	SIGN	RIGHT	GUIDE, PARK ONLY IN PAVED PULLOUTS
20.554	20.554	SIGN	RIGHT	REGULATORY, REDUCED SPEED AHEAD
20.556	20.556	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
20.623	20.623	CULVERT	N/A	
20.647	20.647	SIGN	RIGHT	GUIDE, K33
20.649	20.649	SIGN	LEFT	GUIDE, K33
20.668	20.668	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
20.697	20.697	SIGN	RIGHT	GUIDE, BIKE ROUTE
20.697	20.697	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
20.779	20.779	SIGN	RIGHT	GUIDE, BIKE ROUTE
20.779	20.779	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
20.832	20.832	CULVERT	N/A	
20.851	20.851	SIGN	RIGHT	GUIDE, FREE SHUTTLE BUS
20.851	20.851	SIGN	RIGHT	GUIDE, PARKING LOTS HISTORIC JAMESTOWNE VISITOR CENTER OPEN JAMESTOWN SETTLEMENT OPEN GLASSHOUSE OPEN INFOR
20.879	20.879	INTERSECTION	RIGHT	ROUTE 0990 (JAMESTOWN MAINTENANCE PARKING)
20.898	20.898	DROP INLET	RIGHT	
20.954	20.954	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY) OPPOSITE LANE
20.959	21.034	CURB	LEFT	
20.960	20.960	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
20.960	20.960	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
20.970	20.970	DROP INLET	LEFT	OPPOSITE LANE
20.990	20.990	DROP INLET	LEFT	OPPOSITE LANE
21.000	21.000	DROP INLET	LEFT	OPPOSITE LANE
21.018	21.018	DROP INLET	LEFT	OPPOSITE LANE
21.031	21.038	CURB	LEFT	
21.034	21.034	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
21.040	21.040	INTERSECTION	LEFT	ROUTE 0932 (NECK O LAND VISITOR CONTACT PARKING)
21.045	21.054	CURB	LEFT	
21.050	21.127	CURB	LEFT	
21.051	21.051	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
21.054	21.054	SIGN	RIGHT	REGULATORY, YIELD
21.056	21.056	DROP INLET	LEFT	OPPOSITE LANE
21.094	21.094	DROP INLET	LEFT	OPPOSITE LANE
21.114	21.114	DROP INLET	LEFT	OPPOSITE LANE
21.127	21.127	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
21.133	21.133	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY) OPPOSITE LANE
21.134	21.134	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
21.201	21.201	CULVERT	N/A	
21.241	21.241	SIGN	RIGHT	REGULATORY, DO NOT PASS
21.243	21.243	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
21.268	21.268	SIGN	RIGHT	GUIDE, K34
21.269	21.269	SIGN	LEFT	GUIDE, K34
21.298	21.298	SIGN	RIGHT	GUIDE, HISTORIC JAMESTOWNE ARCHEOLOGICAL EXCAVATIONS

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
21.405	21.405	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
21.442	21.460	GUARD/GUIDE RAIL	RIGHT	
21.443	21.443	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
21.444	21.444	SIGN	RIGHT	REGULATORY, DO NOT PASS
21.448	21.448	SIGN	RIGHT	GUIDE, POWHATAN CREEK
21.451	21.465	GUARD/GUIDE RAIL	LEFT	
21.460	21.607	GUARD/GUIDE RAIL	RIGHT	
21.465	21.602	BRIDGE	N/A	4290-025 (POWHATAN CREEK BRIDGE)
21.465	21.608	GUARD/GUIDE RAIL	LEFT	
21.607	21.634	GUARD/GUIDE RAIL	RIGHT	
21.608	21.634	GUARD/GUIDE RAIL	LEFT	
21.615	21.615	SIGN	RIGHT	GUIDE, POWHATAN CREEK
21.637	21.637	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
21.677	21.677	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY) OPPOSITE LANE
21.703	21.806	CURB	LEFT	
21.704	21.704	SIGN	LEFT	REGULATORY, KEEP RIGHT
21.719	21.719	SIGN	RIGHT	REGULATORY, DO NOT PASS
21.732	21.732	SIGN	RIGHT	GUIDE, HISTORIC JAMESTOWNE JAMESTOWN SETTLEMENT
21.733	21.775	CURB	RIGHT	
21.744	21.744	DROP INLET	LEFT	
21.744	21.744	DROP INLET	LEFT	
21.744	21.744	DROP INLET	LEFT	OPPOSITE LANE
21.766	21.766	INTERSECTION	RIGHT	ROUTE 0001 (COLONIAL PARKWAY) SPUR
21.775	21.775	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
21.775	21.805	CURB	RIGHT	
21.776	21.776	SIGN	LEFT	GUIDE, HISTORIC JAMESTOWNE ENTRANCE
21.802	21.802	DROP INLET	LEFT	OPPOSITE LANE
21.802	21.802	DROP INLET	RIGHT	
21.805	21.805	SIGN	LEFT	REGULATORY, ONE WAY
21.808	21.808	INTERSECTION	LEFT	ROUTE 0921 (JAMESTOWN ENTRANCE PARKING)
21.808	21.808	INTERSECTION	RIGHT	ROUTE 0110 (TAZEWELL HALL ACCESS ROAD)
21.814	21.926	CURB	LEFT	
21.816	21.821	CURB	RIGHT	
21.818	21.818	DROP INLET	LEFT	

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
21.818	21.818	DROP INLET	LEFT	OPPOSITE LANE
21.829	21.829	SIGN	RIGHT	GUIDE, JAMESTOWN SETTLEMENT WILLIAMSBURG YORKTOWN
21.844	21.844	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
21.876	21.876	DROP INLET	LEFT	
21.876	21.876	DROP INLET	LEFT	OPPOSITE LANE
21.889	21.889	SIGN	RIGHT	GUIDE, K35
21.896	21.896	SIGN	RIGHT	GUIDE, HISTORIC JAMESTOWNE GLASSHOUSE VISITOR CENTER TOUR ROAD
21.896	21.896	TRAFFIC LIGHT	RIGHT	
21.919	21.919	SIGN	RIGHT	GUIDE, U.S. FEE AREA ENTRANCE FEE
21.924	21.924	DROP INLET	LEFT	OPPOSITE LANE
21.928	21.928	INTERSECTION	LEFT	ROUTE 0921 (JAMESTOWN ENTRANCE PARKING)
21.936	21.985	CURB	LEFT	
21.946	21.946	DROP INLET	LEFT	OPPOSITE LANE
21.953	21.953	SIGN	LEFT	GUIDE, JAMESTOWN
21.953	21.953	SIGN	RIGHT	WARNING, BICYCLIST BEWARE
21.954	21.954	GATE	N/A	
21.954	21.954	SIGN	N/A	REGULATORY, CLOSED
21.954	21.954	SIGN	N/A	REGULATORY, CLOSED
21.954	21.954	SIGN	N/A	REGULATORY, STOP
21.954	21.954	SIGN	N/A	REGULATORY, STOP
21.961	22.026	CURB	RIGHT	
21.982	21.982	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
21.982	21.982	SIGN	RIGHT	GUIDE, JAMESTOWN SETTLEMENT WILLIAMSBURG YORKTOWN
21.985	21.999	CURB-AND-GUTTER	LEFT	
21.986	21.999	CURB-AND-GUTTER	RIGHT	
22.001	22.008	CURB-AND-GUTTER	RIGHT	
22.001	22.026	CURB	LEFT	
22.003	22.003	SIGN	RIGHT	GUIDE, VISITOR CENTER OPEN 9:00 AM.-5:00 PM. ONE MILE AHEAD GLASSHOUSE OPEN 8:30 AM.- 5:00 PM. TURN NEXT RI
22.008	22.008	CULVERT	N/A	
22.030	22.030	INTERSECTION	RIGHT	ROUTE 0904 (GLASSHOUSE ACCESS ROAD PARKING)
22.036	22.036	FIRE HYDRANT	RIGHT	
22.037	22.042	CURB	RIGHT	

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
22.037	22.095	CURB	LEFT	
22.038	22.038	SIGN	RIGHT	GUIDE, THE GLASSHOUSE OF 1808
22.046	22.046	SIGN	LEFT	GUIDE, GLASSHOUSE OF 1608
22.094	22.094	SIGN	LEFT	REGULATORY, KEEP RIGHT
22.111	22.111	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
22.112	22.112	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY) OPPOSITE LANE
22.123	22.123	SIGN	RIGHT	GUIDE, GLASSBLOWING THE GLASSHOUSE OF 1608
22.188	22.188	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
22.383	22.399	CURB	RIGHT	
22.506	22.506	SIGN	LEFT	GUIDE, K36
22.506	22.506	SIGN	RIGHT	GUIDE, K36
22.507	22.534	GUARD/GUIDE RAIL	RIGHT	
22.508	22.536	GUARD/GUIDE RAIL	LEFT	
22.516	22.527	BRIDGE	N/A	4290-026 (ISTHMUS BRIDGE)
22.726	22.726	SIGN	RIGHT	GUIDE, THIS IS JAMESTOWN ISLAND
22.803	22.803	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
22.806	22.806	INTERSECTION	RIGHT	ROUTE 0402 (APVA ACCESS/SKIP'S DIRT ROAD)
22.812	22.812	SIGN	RIGHT	REGULATORY, SPEED 8 LIMIT
22.812	22.812	SIGN	RIGHT	GUIDE, PRIVATE ROAD
22.813	22.813	FIRE HYDRANT	RIGHT	
22.837	22.866	PULLOUT	LEFT	
22.843	22.843	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
22.870	22.870	SIGN	RIGHT	GUIDE, CARS & RVS GROUP & SCHOOL BUSES HANDICAPPED DROP-OFF SHUTTLE BUS STOP
22.882	22.882	INTERSECTION	RIGHT	ROUTE 0950 (JAMESTOWN VISITOR'S CENTER PARKING)
22.891	22.910	CURB	RIGHT	
22.911	22.911	SIGN	RIGHT	REGULATORY, DO NOT ENTER
22.914	22.914	INTERSECTION	RIGHT	ROUTE 0950 (JAMESTOWN VISITOR'S CENTER PARKING)
22.922	22.930	CURB	RIGHT	
22.924	22.924	SIGN	RIGHT	GUIDE, CARS BUSES & RVS
22.929	22.929	SIGN	LEFT	GUIDE, ISLAND DRIVE COLONIAL PARKWAY GLASSHOUSE JAMESTOWN SETTLEMENT
22.934	22.934	INTERSECTION	RIGHT	ROUTE 0950 (JAMESTOWN VISITOR'S CENTER PARKING)
22.940	22.949	CURB	RIGHT	
22.957	22.957	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0001: COLONIAL PARKWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
22.958	22.958	SIGN	LEFT	REGULATORY, NO PARKING ANY TIME
22.978	22.978	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
22.979	22.979	SIGN	LEFT	REGULATORY, NO PARKING ANY TIME
23.001	23.001	SIGN	LEFT	REGULATORY, NO PARKING ANY TIME
23.001	23.001	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
23.022	23.022	SIGN	LEFT	REGULATORY, NO PARKING ANY TIME
23.022	23.022	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
23.028	23.041	CURB	RIGHT	
23.031	23.031	SIGN	RIGHT	GUIDE, BUSES & RVS CAR PARKING
23.044	23.044	INTERSECTION	RIGHT	ROUTE 0950 (JAMESTOWN VISITOR'S CENTER PARKING)
23.062	23.062	INTERSECTION	RIGHT	ROUTE 0950 (JAMESTOWN VISITOR'S CENTER PARKING)
23.075	23.075	SIGN	RIGHT	GUIDE, WEIGHT LIMIT 5 TONS
23.084	23.084	INTERSECTION	RIGHT	ROUTE 0950 (JAMESTOWN VISITOR'S CENTER PARKING)
23.092	23.092	SIGN	RIGHT	REGULATORY, DO NOT ENTER
23.104	23.104	SIGN	LEFT	REGULATORY, DO NOT ENTER
23.106	23.106	INTERSECTION	RIGHT	ROUTE 0950 (JAMESTOWN VISITOR'S CENTER PARKING)
23.110	23.110	GATE	N/A	
23.110	23.110	INTERSECTION	N/A	ROUTE 0501AZ (ISLAND DRIVE)
23.110	23.110	SIGN	N/A	REGULATORY, CLOSED
23.110	23.110	SIGN	N/A	REGULATORY, CLOSED
23.110	23.110	ROUTE END	N/A	TO JAMESTOWN AT ROUTE 0501AZ (ISLAND DRIVE) AND ROUTE 0950 (JAMESTOWN VISITOR'S CENTER PARKING) ON RIGHT

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0100Z: UNTOUCHED REDOUBT ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM INTERSECTION OF ROUTE 0500Z (BATTLEFIELD TOUR ROAD) AND GOOSELY ROAD
0.000	0.000	INTERSECTION	LEFT	PAVED ROUTE (GOOSELY ROAD / NON NPS)
0.000	0.000	INTERSECTION	N/A	ROUTE 0500Z (BATTLEFIELD TOUR ROAD)
0.000	0.000	INTERSECTION	RIGHT	PAVED ROUTE (GOOSELY ROAD / NON NPS)
0.001	0.001	SIGN	RIGHT	REGULATORY, STOP
0.002	0.002	CULVERT	N/A	
0.010	0.010	SIGN	RIGHT	GUIDE, END OF TOUR YORKTOWN US. ROUTE 17
0.012	0.012	SIGN	RIGHT	GUIDE, PAY PARK ENTRANCE FEE AT VISITOR CENTER
0.012	0.012	SIGN	RIGHT	GUIDE, UNTOUCHED REDOUBT
0.019	0.019	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.026	0.026	GATE	N/A	
0.026	0.026	SIGN	N/A	GUIDE, GRAPHIC SIGN, NO TEXT
0.051	0.051	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.164	0.164	CULVERT	N/A	
0.299	0.299	CULVERT	N/A	
0.300	0.300	INTERSECTION	LEFT	ROUTE 0903 (UNTOUCHED REDOUBT LOOP/PARKING)
0.300	0.300	INTERSECTION	N/A	ROUTE 0903 (UNTOUCHED REDOUBT LOOP/PARKING)
0.300	0.300	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.300	0.300	ROUTE END	N/A	TO ROUTE 0903 (UNTOUCHED REDOUBT LOOP/PARKING)

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0101Z: GRAND FRENCH BATTERY ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM COOK ROAD
0.000	0.000	INTERSECTION	RIGHT	PAVED ROUTE (COOK ROAD / NON NPS)
0.000	0.000	INTERSECTION	LEFT	PAVED ROUTE (COOK ROAD / NON NPS)
0.002	0.002	SIGN	RIGHT	REGULATORY, STOP
0.002	0.002	SIGN	RIGHT	REGULATORY, STOP
0.002	0.002	SIGN	RIGHT	REGULATORY, HISTORICAL TOUR
0.003	0.005	CURB	RIGHT	
0.005	0.005	INTERSECTION	LEFT	ROUTE 0101Z (GRAND FRENCH BATTERY ROAD) SPUR
0.008	0.008	SIGN	RIGHT	GUIDE, AREA CLOSED SUNSET - 6 AM.
0.009	0.035	PULLOUT	RIGHT	
0.009	0.063	CURB	LEFT	
0.014	0.014	SIGN	RIGHT	GUIDE, PAY PARK ENTRANCE FEE AT VISITOR CENTER
0.022	0.038	CURB	RIGHT	
0.051	0.051	INTERSECTION	RIGHT	ROUTE 0927 (GRAND FRENCH BATTERY PARKING)
0.057	0.062	CURB	RIGHT	
0.085	0.085	INTERSECTION	LEFT	ROUTE 0101Z (GRAND FRENCH BATTERY ROAD)
0.129	0.133	CURB	LEFT	
0.130	0.130	CULVERT	N/A	
0.145	0.163	CURB	LEFT	
0.197	0.200	CURB	RIGHT	
0.200	0.200	INTERSECTION	LEFT	ROUTE 0101Z (GRAND FRENCH BATTERY ROAD)
0.200	0.200	INTERSECTION	N/A	ROUTE 0101Z (GRAND FRENCH BATTERY ROAD)
0.200	0.200	ROUTE END	N/A	TO END OF LOOP

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0102Z: SURRENDER FIELD ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0225Z (SURRENDER ROAD) AND 0502Z (SHORT LOOP ROAD)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0225Z (SURRENDER ROAD)
0.000	0.000	INTERSECTION	N/A	ROUTE 0502Z (SHORT LOOP ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0225Z (SURRENDER ROAD)
0.004	0.004	CULVERT	N/A	
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.011	0.011	GATE	N/A	
0.011	0.011	SIGN	N/A	GUIDE, GRAPHIC SIGN, NO TEXT
0.018	0.018	SIGN	RIGHT	GUIDE, YORKTOWN VISITOR CENTER
0.019	0.019	SIGN	RIGHT	GUIDE, PAY PARK ENTRANCE FEE AT VISITOR CENTER
0.070	0.070	INTERSECTION	N/A	ROUTE 0929 (SURRENDER FIELD ACCESS PARKING)
0.070	0.070	ROUTE END	N/A	TO ROUTE 0929 (SURRENDER FIELD ACCESS PARKING)

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0103Z: REDOUBT ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM INTERSECTION OF ROUTE 0503Z (EAST YORKTOWN TOUR ROAD) AND MOORE HOUSE ROAD
0.000	0.000	INTERSECTION	LEFT	PAVED ROUTE (MOORE HOUSE ROAD / NON NPS)
0.000	0.000	INTERSECTION	N/A	ROUTE 0503Z (EAST YORKTOWN TOUR ROAD)
0.000	0.000	INTERSECTION	RIGHT	PAVED ROUTE (MOORE HOUSE ROAD / NON NPS)
0.004	0.004	CULVERT	N/A	
0.007	0.007	SIGN	RIGHT	REGULATORY, STOP
0.009	0.009	GATE	N/A	
0.009	0.009	SIGN	N/A	GUIDE, GRAPHIC SIGN, NO TEXT
0.028	0.028	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.118	0.118	CULVERT	N/A	
0.122	0.220	ONE-WAY	N/A	
0.122	0.122	INTERSECTION	LEFT	ROUTE 0103Z (REDOUBT ACCESS ROAD)
0.127	0.127	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.140	0.165	CURB	LEFT	
0.154	0.154	INTERSECTION	RIGHT	ROUTE 0902AZ (REDOUBT 9, 10 ACCESS ROAD PARKING A)
0.171	0.171	INTERSECTION	LEFT	ROUTE 0902BZ (REDOUBT 9, 10 ACCESS ROAD PARKING B)
0.171	0.171	INTERSECTION	RIGHT	ROUTE 0902CZ (REDOUBT 9, 10 ACCESS ROAD PARKING C)
0.174	0.179	CURB	LEFT	
0.175	0.180	CURB	RIGHT	
0.190	0.201	CURB	LEFT	
0.192	0.192	INTERSECTION	RIGHT	UNPAVED PARKING
0.210	0.220	CURB	RIGHT	
0.220	0.220	INTERSECTION	LEFT	ROUTE 0103Z (REDOUBT ACCESS ROAD)
0.220	0.220	INTERSECTION	RIGHT	ROUTE 0103Z (REDOUBT ACCESS ROAD)
0.220	0.220	ROUTE END	N/A	TO END OF LOOP

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0104Z: MOORE HOUSE ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0503Z (EAST YORKTOWN TOUR ROAD)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0503Z (EAST YORKTOWN TOUR ROAD)
0.000	0.000	INTERSECTION	N/A	ROUTE 0503Z (EAST YORKTOWN TOUR ROAD)
0.000	0.000	SIGN	N/A	WARNING, ROAD NARROWS
0.000	0.000	SIGN	N/A	GUIDE, UNABLE TO READ FROM VIDEO
0.016	0.016	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.092	0.092	CULVERT	N/A	
0.295	0.295	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.307	0.307	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.321	0.321	SIGN	RIGHT	GUIDE, PAY PARK ENTRANCE FEE AT VISITOR CENTER
0.326	0.326	GATE	N/A	
0.327	0.327	SIGN	RIGHT	GUIDE, HISTORICAL TOUR
0.330	0.330	SIGN	RIGHT	REGULATORY, WEIGHT LIMIT 5 TONS
0.331	0.331	SIGN	RIGHT	REGULATORY, STOP
0.332	0.332	CULVERT	N/A	
0.337	0.337	INTERSECTION	LEFT	PAVED ROUTE (WASHINGTON ROAD / NON NPS)
0.337	0.337	INTERSECTION	RIGHT	PAVED ROUTE (WASHINGTON ROAD / NON NPS)
0.340	0.340	SIGN	RIGHT	REGULATORY, STOP
0.347	0.347	SIGN	RIGHT	REGULATORY, HISTORICAL TOUR
0.350	0.350	SIGN	RIGHT	GUIDE, SURRENDER FIELD
0.421	0.421	SIGN	RIGHT	REGULATORY, STOP
0.424	0.424	INTERSECTION	LEFT	PAVED ROUTE (MOORE HOUSE ROAD / NON NPS)
0.424	0.424	INTERSECTION	RIGHT	PAVED ROUTE (MOORE HOUSE ROAD / NON NPS)
0.424	0.530	ONE-WAY	N/A	
0.434	0.434	SIGN	RIGHT	GUIDE, HISTORICAL TOUR
0.437	0.437	SIGN	RIGHT	GUIDE, AREA CLOSED SUNSET - 6 AM.
0.437	0.437	SIGN	RIGHT	GUIDE, U.S. FEE AREA PAY PARK ENTRANCE FEE AT VISITOR CENTER
0.465	0.483	CURB	LEFT	
0.471	0.471	SIGN	RIGHT	REGULATORY, DO NOT ENTER
0.471	0.471	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.518	0.528	CURB	LEFT	
0.530	0.530	INTERSECTION	N/A	ROUTE 0928 (MOORE HOUSE PARKING)
0.530	0.530	ROUTE END	N/A	TO ROUTE 0928 (MOORE HOUSE PARKING)

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0105A: US ROUTE 17 ACCESS ROAD A

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 0.75 (ON RIGHT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY)
0.000	0.000	INTERSECTION	N/A	ROUTE 0001 (COLONIAL PARKWAY)
0.004	0.050	GUARD/GUIDE RAIL	RIGHT	
0.008	0.021	CURB	LEFT	
0.010	0.010	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.010	0.010	SIGN	LEFT	GUIDE, WILLIAMSBURG JAMESTOWN
0.021	0.021	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.021	0.021	SIGN	RIGHT	REGULATORY, YIELD
0.024	0.024	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY) OPPOSITE LANE
0.026	0.034	PAVED DITCH	LEFT	
0.036	0.036	CULVERT	N/A	
0.058	0.100	PAVED DITCH	RIGHT	
0.089	0.162	PAVED DITCH	LEFT	
0.141	0.167	GUARD/GUIDE RAIL	RIGHT	
0.156	0.156	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.163	0.167	CURB	RIGHT	
0.166	0.166	INTERSECTION	LEFT	ROUTE 0105A (US ROUTE 17 ACCESS ROAD A) SPUR
0.166	0.166	INTERSECTION	RIGHT	PAVED ROUTE (US HIGHWAY 17 / NON NPS) SPUR
0.175	0.175	SIGN	RIGHT	REGULATORY, NO COMMERCIAL VEHICLES
0.180	0.180	SIGN	LEFT	REGULATORY, STOP
0.180	0.180	INTERSECTION	RIGHT	PAVED ROUTE (US HIGHWAY 17 / NON NPS)
0.180	0.180	INTERSECTION	LEFT	PAVED ROUTE (US HIGHWAY 17 / NON NPS)
0.180	0.180	ROUTE END	N/A	TO US ROUTE 17

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0105B: US ROUTE 17 ACCESS ROAD B

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM US ROUTE 17
0.000	0.000	INTERSECTION	LEFT	PAVED ROUTE (US HIGHWAY 17 / NON NPS)
0.000	0.000	INTERSECTION	RIGHT	PAVED ROUTE (US HIGHWAY 17 / NON NPS)
0.000	0.000	SIGN	N/A	REGULATORY, ONE WAY
0.003	0.003	SIGN	RIGHT	REGULATORY, ONE WAY
0.003	0.018	CURB	RIGHT	
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.007	0.007	SIGN	RIGHT	REGULATORY, COMMERCIAL VEHICLES EXCLUDED
0.007	0.011	CURB	LEFT	
0.011	0.011	SIGN	RIGHT	REGULATORY, 17
0.011	0.011	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.011	0.011	SIGN	RIGHT	REGULATORY, NORTH
0.017	0.025	GUARD/GUIDE RAIL	LEFT	
0.018	0.018	INTERSECTION	LEFT	ROUTE 0105B (US ROUTE 17 ACCESS ROAD B) SPUR
0.018	0.018	INTERSECTION	RIGHT	PAVED ROUTE (US HIGHWAY 17 / NON NPS) SPUR
0.028	0.062	PAVED DITCH	RIGHT	
0.050	0.092	GUARD/GUIDE RAIL	RIGHT	
0.062	0.065	PAVED DITCH	LEFT	
0.067	0.106	GUARD/GUIDE RAIL	LEFT	
0.068	0.068	CULVERT	N/A	
0.107	0.117	PAVED DITCH	LEFT	
0.122	0.122	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.155	0.165	GUARD/GUIDE RAIL	LEFT	
0.168	0.168	INTERSECTION	LEFT	ROUTE 0105B (US ROUTE 17 ACCESS ROAD B) OPPOSITE LANE
0.171	0.179	CURB	LEFT	
0.172	0.172	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.177	0.177	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.180	0.180	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY)
0.180	0.180	INTERSECTION	RIGHT	ROUTE 0001 (COLONIAL PARKWAY)
0.180	0.180	SIGN	RIGHT	REGULATORY, YIELD
0.180	0.180	ROUTE END	N/A	TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 0.54 (ON LEFT)

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0106: FUSILIER'S ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 1.66 (ON RIGHT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0001 (COLONIAL PARKWAY)
0.000	0.000	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.007	0.009	CURB	LEFT	
0.008	0.008	DROP INLET	RIGHT	
0.010	0.152	PAVED DITCH	RIGHT	
0.025	0.025	SIGN	RIGHT	GUIDE, BATTLEFIELD WILLIAMSBURG JAMESTOWN
0.027	0.027	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.077	0.077	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.097	0.140	PAVED DITCH	LEFT	
0.116	0.116	SIGN	RIGHT	GUIDE, ENTERING COLONIAL PARKWAY
0.152	0.159	CURB	LEFT	
0.162	0.162	INTERSECTION	LEFT	ROUTE 0905 (FUSILIER'S PARKING)
0.167	0.167	SIGN	LEFT	GUIDE, AREA CLOSED SUNSET - 6 AM.
0.167	0.203	CURB	LEFT	
0.203	0.203	SIGN	RIGHT	GUIDE, AREA CLOSED SUNSET - 6 AM.
0.204	0.204	INTERSECTION	LEFT	ROUTE 0905 (FUSILIER'S PARKING)
0.210	0.213	CURB	LEFT	
0.224	0.224	CULVERT	N/A	
0.297	0.332	GUARD/GUIDE RAIL	LEFT	
0.312	0.312	SIGN	RIGHT	REGULATORY, 17
0.312	0.312	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.330	0.330	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.331	0.339	CURB	LEFT	
0.332	0.332	INTERSECTION	RIGHT	ROUTE 0106 (FUSILIER'S ROAD) SPUR
0.340	0.340	INTERSECTION	LEFT	PAVED ROUTE (WATER STREET / STATE ROUTE 238 / NON NPS) SPUR
0.340	0.347	CURB	RIGHT	
0.341	0.346	CURB	LEFT	
0.344	0.344	SIGN	LEFT	GUIDE, HISTORIC YORKTOWN RIVERWALK LANDING WATERMEN'S MUSEUM HISTORIC MAIN STREET BATTLEFIELD VISITOR CENTE

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0106: FUSILIER'S ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.345	0.345	SIGN	RIGHT	GUIDE, HISTORIC YORKTOWN RIVERWALK LANDING WATERMEN'S MUSEUM HISTORIC MAIN STREET BATTLEFIELD VISITOR CENTE
0.346	0.346	SIGN	RIGHT	REGULATORY, NO COMMERCIAL VEHICLES
0.346	0.346	SIGN	RIGHT	REGULATORY, STOP
0.350	0.350	INTERSECTION	LEFT	PAVED ROUTE (WATER STREET / STATE ROUTE 238 / NON NPS)
0.350	0.350	INTERSECTION	N/A	PAVED PARKING (YORKTOWN VICTORY CENTER / NON NPS)
0.350	0.350	INTERSECTION	RIGHT	PAVED ROUTE (WATER STREET / STATE ROUTE 238 / NON NPS)
0.350	0.350	ROUTE END	N/A	TO WATER STREET

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0107A: CHEATHAM ANNEX ACCESS ROAD A

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 8.39 (ON RIGHT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY)
0.000	0.000	INTERSECTION	N/A	ROUTE 0001 (COLONIAL PARKWAY)
0.004	0.018	CURB	LEFT	
0.005	0.026	CURB	RIGHT	
0.006	0.006	SIGN	RIGHT	REGULATORY, YIELD
0.014	0.014	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.017	0.017	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.023	0.023	INTERSECTION	LEFT	ROUTE 0107A (CHEATHAM ANNEX ACCESS ROAD A) OPPOSITE LANE
0.024	0.024	SIGN	RIGHT	GUIDE, US. NAVY CHEATHAM ANNEX TO ROUTE 199
0.031	0.031	INTERSECTION	LEFT	PAVED ROUTE (STATE ROUTE 641 / PENNIMAN ROAD / NON NPS) SPUR
0.034	0.040	CURB	LEFT	
0.034	0.034	CULVERT	N/A	
0.036	0.036	INTERSECTION	RIGHT	ROUTE 0107A (CHEATHAM ANNEX ACCESS ROAD A) SPUR
0.039	0.040	CURB	RIGHT	
0.040	0.040	INTERSECTION	LEFT	PAVED ROUTE (STATE ROUTE 641 / PENNIMAN ROAD / NON NPS)
0.040	0.040	INTERSECTION	RIGHT	PAVED ROUTE (STATE ROUTE 641 / PENNIMAN ROAD / NON NPS)
0.040	0.040	SIGN	RIGHT	REGULATORY, STOP
0.040	0.040	SIGN	RIGHT	REGULATORY, STOP
0.040	0.040	ROUTE END	N/A	TO PENNIMAN ROAD

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0107B: CHEATHAM ANNEX ACCESS ROAD B

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM PENNIMAN ROAD
0.000	0.000	INTERSECTION	LEFT	PAVED ROUTE (STATE ROUTE 641 / PENNIMAN ROAD / NON NPS)
0.000	0.000	INTERSECTION	RIGHT	PAVED ROUTE (STATE ROUTE 641 / PENNIMAN ROAD / NON NPS)
0.002	0.002	SIGN	RIGHT	REGULATORY, STOP
0.004	0.004	DROP INLET	RIGHT	
0.006	0.038	CURB	LEFT	
0.008	0.011	CURB	RIGHT	
0.009	0.009	INTERSECTION	RIGHT	PAVED ROUTE (STATE ROUTE 641 / PENNIMAN ROAD / NON NPS) SPUR
0.040	0.040	INTERSECTION	LEFT	ROUTE 0107B (CHEATHAM ANNEX ACCESS ROAD B) SPUR
0.054	0.054	SIGN	RIGHT	GUIDE, U.S. NAVY CHEATHAM ANNEX ROUTE 199
0.087	0.098	CURB	LEFT	
0.093	0.093	SIGN	RIGHT	GUIDE, YORKTOWN
0.096	0.096	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY) OPPOSITE LANE
0.101	0.120	CURB	LEFT	
0.103	0.103	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.114	0.114	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.114	0.120	CURB	RIGHT	
0.120	0.120	INTERSECTION	RIGHT	ROUTE 0001 (COLONIAL PARKWAY)
0.120	0.120	SIGN	RIGHT	REGULATORY, STOP
0.120	0.120	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY)
0.120	0.120	ROUTE END	N/A	TO ROUTE 0001 (COLONIAL PARKWAY) AT MP 8.51 (ON LEFT)

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0108A: QUEENS LAKE ACCESS A

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 11.21 (ON LEFT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY)
0.000	0.000	INTERSECTION	N/A	ROUTE 0001 (COLONIAL PARKWAY)
0.006	0.036	CURB	LEFT	
0.007	0.050	CURB	RIGHT	
0.010	0.010	SIGN	RIGHT	REGULATORY, YIELD
0.014	0.014	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.021	0.021	DROP INLET	RIGHT	
0.036	0.036	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.040	0.040	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY) OPPOSITE LANE
0.113	0.113	SIGN	RIGHT	REGULATORY, COMMERCIAL VEHICLES EXCLUDED
0.127	0.127	INTERSECTION	LEFT	PAVED ROUTE (HUBBARD LANE / NON NPS) SPUR
0.127	0.136	CURB	LEFT	
0.128	0.128	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.130	0.130	SIGN	RIGHT	REGULATORY, YIELD
0.136	0.136	SIGN	RIGHT	REGULATORY, STOP
0.140	0.140	INTERSECTION	LEFT	PAVED ROUTE (HUBBARD LANE / NON NPS)
0.140	0.140	INTERSECTION	RIGHT	PAVED ROUTE (HUBBARD LANE / NON NPS)
0.140	0.140	SIGN	N/A	GUIDE, QUEENS LAKE ROUTE 143
0.140	0.140	ROUTE END	N/A	TO HUBBARD LANE

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0108B: QUEENS LAKE ACCESS B

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 11.31 (ON RIGHT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY)
0.000	0.000	INTERSECTION	N/A	ROUTE 0001 (COLONIAL PARKWAY)
0.003	0.028	CURB	LEFT	
0.005	0.035	CURB	RIGHT	
0.006	0.006	SIGN	RIGHT	REGULATORY, YIELD
0.012	0.012	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.024	0.024	DROP INLET	RIGHT	
0.028	0.028	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.029	0.029	INTERSECTION	LEFT	ROUTE 0108B (QUEENS LAKE ACCESS B) OPPOSITE LANE
0.122	0.122	INTERSECTION	LEFT	PAVED ROUTE (HUBBARD LANE / NON NPS) SPUR
0.122	0.122	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.122	0.122	SIGN	RIGHT	GUIDE, VIRGINIA CIVIL WAR TRAILS
0.124	0.124	SIGN	RIGHT	REGULATORY, YIELD
0.125	0.125	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.130	0.130	INTERSECTION	LEFT	PAVED ROUTE (HUBBARD LANE / NON NPS)
0.130	0.130	INTERSECTION	RIGHT	PAVED ROUTE (HUBBARD LANE / NON NPS)
0.130	0.130	SIGN	RIGHT	REGULATORY, STOP
0.130	0.130	ROUTE END	N/A	TO HUBBARD LANE

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0109A: PARKWAY DRIVE ACCESS ROAD A

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 11.90 (ON RIGHT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY)
0.000	0.000	INTERSECTION	N/A	ROUTE 0001 (COLONIAL PARKWAY)
0.002	0.002	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.008	0.008	SIGN	RIGHT	REGULATORY, YIELD
0.009	0.027	CURB	LEFT	
0.022	0.022	DROP INLET	LEFT	OPPOSITE LANE
0.027	0.027	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.029	0.029	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY) OPPOSITE LANE
0.031	0.047	CURB	LEFT	
0.052	0.052	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.062	0.062	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.094	0.100	CURB-AND-GUTTER	LEFT	
0.094	0.100	CURB-AND-GUTTER	RIGHT	
0.100	0.100	INTERSECTION	LEFT	PAVED ROUTE (STATE ROUTE 163 / PARKWAY DRIVE / NON NPS)
0.100	0.100	SIGN	RIGHT	REGULATORY, STOP
0.100	0.100	INTERSECTION	RIGHT	PAVED ROUTE (STATE ROUTE 163 / PARKWAY DRIVE / NON NPS)
0.100	0.100	ROUTE END	N/A	TO PARKWAY DRIVE

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0109B: PARKWAY DRIVE ACCESS ROAD B

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 12.09 (ON LEFT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY)
0.000	0.000	INTERSECTION	N/A	ROUTE 0001 (COLONIAL PARKWAY)
0.008	0.008	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.010	0.010	SIGN	RIGHT	REGULATORY, YIELD
0.011	0.031	CURB	LEFT	
0.028	0.028	DROP INLET	LEFT	OPPOSITE LANE
0.031	0.031	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.032	0.032	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY) OPPOSITE LANE
0.033	0.042	CURB	LEFT	
0.069	0.069	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.108	0.108	SIGN	RIGHT	REGULATORY, NO COMMERCIAL VEHICLES
0.111	0.115	CURB-AND-GUTTER	LEFT	
0.111	0.112	CURB-AND-GUTTER	RIGHT	
0.116	0.116	SIGN	RIGHT	REGULATORY, STOP
0.120	0.120	INTERSECTION	LEFT	PAVED ROUTE (STATE ROUTE 163 / PARKWAY DRIVE / NON NPS)
0.120	0.120	INTERSECTION	RIGHT	PAVED ROUTE (STATE ROUTE 163 / PARKWAY DRIVE / NON NPS)
0.120	0.120	ROUTE END	N/A	TO PARKWAY DRIVE

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0110: TAZEWELL HALL ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 21.81
0.000	0.000	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY)
0.000	0.000	INTERSECTION	N/A	ROUTE 0921 (JAMESTOWN ENTRANCE PARKING)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0001 (COLONIAL PARKWAY)
0.003	0.023	CURB	RIGHT	
0.003	0.003	SIGN	RIGHT	REGULATORY, ONE WAY
0.003	0.003	SIGN	RIGHT	REGULATORY, STOP
0.004	0.053	CURB	LEFT	
0.006	0.006	DROP INLET	LEFT	
0.006	0.006	DROP INLET	RIGHT	
0.021	0.021	SIGN	LEFT	REGULATORY, DO NOT ENTER
0.025	0.025	SIGN	RIGHT	GUIDE, HISTORIC JAMESTOWNE PARKING APVA
0.027	0.027	INTERSECTION	RIGHT	ROUTE 0001 (COLONIAL PARKWAY) SPUR
0.032	0.032	SIGN	LEFT	REGULATORY, DO NOT ENTER
0.034	0.054	CURB	RIGHT	
0.036	0.036	SIGN	RIGHT	GUIDE, TO WILLIAMSBURG VIA PARKWAY TO YORKTOWN VIA PARKWAY HISTORIC JAMESTOWNE
0.051	0.051	SIGN	RIGHT	REGULATORY, NO COMMERCIAL VEHICLES
0.053	0.060	CURB-AND-GUTTER	LEFT	
0.054	0.060	CURB-AND-GUTTER	RIGHT	
0.060	0.060	SIGN	RIGHT	REGULATORY, BUSES CARS
0.060	0.060	SIGN	RIGHT	REGULATORY, JAMESTOWN SETTLEMENT
0.060	0.060	INTERSECTION	N/A	PAVED ROUTE (GREENSPRINGS ROAD / NON NPS)
0.060	0.060	ROUTE END	N/A	TO GREENSPRINGS ROAD AT PAVEMENT CHANGE

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0111A: STATE ROUTE 199 INTERCHANGE A

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 14.76
0.000	0.000	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY)
0.000	0.000	INTERSECTION	N/A	ROUTE 0001 (COLONIAL PARKWAY)
0.003	0.020	CURB	LEFT	
0.004	0.004	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.019	0.019	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.020	0.020	SIGN	RIGHT	GUIDE, NEWPORT NEWS JAMESTOWN
0.025	0.025	INTERSECTION	LEFT	ROUTE 0111A (STATE ROUTE 199 INTERCHANGE A) OPPOSITE LANE
0.038	0.043	GUARD/GUIDE RAIL	RIGHT	
0.040	0.040	CULVERT	N/A	
0.045	0.045	INTERSECTION	RIGHT	PAVED ROUTE (VISTA COURT / NON NPS)
0.091	0.091	SIGN	RIGHT	REGULATORY, COMMERCIAL VEHICLES EXCLUDED
0.099	0.099	SIGN	RIGHT	GUIDE, NEWPORT NEWS RICHMOND
0.105	0.105	SIGN	RIGHT	REGULATORY, STOP
0.109	0.109	INTERSECTION	LEFT	PAVED ROUTE (STATE ROUTE 132 / NON NPS)
0.109	0.109	INTERSECTION	RIGHT	PAVED ROUTE (STATE ROUTE 132 / NON NPS)
0.110	0.110	CULVERT	N/A	
0.110	0.110	ROUTE END	N/A	TO SOUTH HENRY STREET

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0111B: STATE ROUTE 199 INTERCHANGE B

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM STATE ROUTE 199
0.000	0.000	SIGN	N/A	REGULATORY, ONE WAY
0.000	0.000	SIGN	N/A	REGULATORY, UNABLE TO READ FROM VIDEO
0.000	0.000	SIGN	N/A	REGULATORY, WEST
0.000	0.000	SIGN	N/A	REGULATORY, GRAPHIC SIGN, NO TEXT
0.000	0.000	SIGN	N/A	REGULATORY, 199
0.000	0.000	INTERSECTION	RIGHT	PAVED ROUTE (STATE ROUTE 199 / NON NPS)
0.000	0.000	INTERSECTION	LEFT	PAVED ROUTE (STATE ROUTE 199 / NON NPS)
0.000	0.000	SIGN	N/A	REGULATORY, GRAPHIC SIGN, NO TEXT
0.059	0.119	PAVED DITCH	LEFT	
0.062	0.062	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.066	0.066	INTERSECTION	RIGHT	PAVED ROUTE (KINGS POINT DRIVE / NON NPS)
0.073	0.073	SIGN	RIGHT	GUIDE, KINGPOINT DC.
0.079	0.112	PAVED DITCH	RIGHT	
0.084	0.084	SIGN	RIGHT	GUIDE, ROUTE 199 KINGSPOINT
0.084	0.084	SIGN	RIGHT	REGULATORY, NO COMMERCIAL VEHICLES
0.114	0.114	CULVERT	N/A	
0.117	0.117	INTERSECTION	LEFT	ROUTE 0111B (STATE ROUTE 199 INTERCHANGE B) OPPOSITE LANE
0.120	0.120	SIGN	LEFT	REGULATORY, DO NOT ENTER
0.121	0.121	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.123	0.123	SIGN	RIGHT	GUIDE, JAMESTOWN
0.130	0.130	SIGN	RIGHT	REGULATORY, STOP
0.130	0.130	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.130	0.130	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY)
0.130	0.130	INTERSECTION	RIGHT	ROUTE 0001 (COLONIAL PARKWAY)
0.130	0.130	ROUTE END	N/A	TO ROUTE 0001 (COLONIAL PARKWAY)

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0111C: STATE ROUTE 199 INTERCHANGE C

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM STATE ROUTE 199
0.000	0.000	INTERSECTION	LEFT	PAVED ROUTE (STATE ROUTE 199 / NON NPS)
0.000	0.000	INTERSECTION	N/A	PAVED ROUTE (STATE ROUTE 199 / NON NPS)
0.000	0.000	SIGN	N/A	REGULATORY, ONE WAY
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.004	0.015	CURB	LEFT	
0.016	0.016	INTERSECTION	LEFT	ROUTE 0111C (STATE ROUTE 199 INTERCHANGE C) OPPOSITE LANE
0.016	0.027	GUARD/GUIDE RAIL	LEFT	
0.031	0.031	SIGN	RIGHT	REGULATORY, NO COMMERCIAL VEHICLES
0.062	0.090	PAVED DITCH	LEFT	
0.084	0.104	PAVED DITCH	RIGHT	
0.086	0.086	INTERSECTION	LEFT	ROUTE 0111C (STATE ROUTE 199 INTERCHANGE C) OPPOSITE LANE
0.087	0.087	SIGN	LEFT	REGULATORY, DO NOT ENTER
0.090	0.090	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.090	0.090	SIGN	RIGHT	GUIDE, WILLIAMSBURG YORKTOWN
0.090	0.104	CURB	LEFT	
0.102	0.102	CULVERT	N/A	
0.102	0.102	SIGN	RIGHT	REGULATORY, STOP
0.103	0.103	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.110	0.110	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY)
0.110	0.110	INTERSECTION	RIGHT	ROUTE 0001 (COLONIAL PARKWAY)
0.110	0.110	ROUTE END	N/A	TO ROUTE 0001 (COLONIAL PARKWAY)

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0111D: STATE ROUTE 199 INTERCHANGE D

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0001 (COLONIAL PARKWAY) AT MP 14.93
0.000	0.000	INTERSECTION	N/A	ROUTE 0001 (COLONIAL PARKWAY)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY)
0.002	0.002	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.002	0.021	CURB	LEFT	
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.010	0.079	PAVED DITCH	RIGHT	
0.021	0.021	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.023	0.023	INTERSECTION	LEFT	ROUTE 0111D (STATE ROUTE 199 INTERCHANGE D) OPPOSITE LANE
0.023	0.023	SIGN	RIGHT	GUIDE, WILLIAMSBURG YORKTOWN
0.023	0.085	PAVED DITCH	LEFT	
0.024	0.024	SIGN	LEFT	REGULATORY, DO NOT ENTER
0.094	0.094	SIGN	RIGHT	GUIDE, INTERSTATE 64 199 RICHMOND NEWPORT NEWS
0.094	0.094	SIGN	RIGHT	REGULATORY, NO COMMERCIAL VEHICLES
0.106	0.106	INTERSECTION	LEFT	ROUTE 0111D (STATE ROUTE 199 INTERCHANGE D) OPPOSITE LANE
0.112	0.117	CURB	LEFT	
0.120	0.120	INTERSECTION	RIGHT	PAVED ROUTE (STATE ROUTE 199 / NON NPS)
0.120	0.120	SIGN	RIGHT	REGULATORY, STOP
0.120	0.120	INTERSECTION	LEFT	PAVED ROUTE (STATE ROUTE 199 / NON NPS)
0.120	0.120	ROUTE END	N/A	TO STATE ROUTE 199

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0112A: NEWPORT AVENUE ACCESS ROAD A

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM NEWPORT AVENUE
0.000	0.000	INTERSECTION	LEFT	PAVED ROUTE (NEWPORT AVENUE / NON NPS)
0.000	0.000	INTERSECTION	RIGHT	PAVED ROUTE (NEWPORT AVENUE / NON NPS)
0.002	0.002	DROP INLET	RIGHT	
0.002	0.002	SIGN	RIGHT	REGULATORY, STOP
0.006	0.006	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.007	0.007	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.008	0.041	CURB	LEFT	
0.008	0.008	INTERSECTION	RIGHT	PAVED ROUTE (NEWPORT AVENUE / NON NPS) SPUR
0.009	0.060	CURB	RIGHT	
0.013	0.013	SIGN	RIGHT	REGULATORY, NO COMMERCIAL VEHICLES
0.021	0.021	SIGN	RIGHT	GUIDE, WILLIAMSBURG
0.028	0.028	DROP INLET	LEFT	
0.039	0.039	INTERSECTION	LEFT	ROUTE 0112A (NEWPORT AVENUE ACCESS ROAD A) OPPOSITE LANE
0.043	0.060	CURB	LEFT	
0.044	0.044	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.056	0.056	DROP INLET	LEFT	OPPOSITE LANE
0.056	0.056	DROP INLET	RIGHT	
0.058	0.058	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.060	0.060	SIGN	RIGHT	REGULATORY, STOP
0.060	0.060	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY)
0.060	0.060	INTERSECTION	N/A	ROUTE 0001 (COLONIAL PARKWAY)
0.060	0.060	ROUTE END	N/A	TO ROUTE 0001 (COLONIAL PARKWAY) (TOWARDS YORKTOWN)

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0112B: NEWPORT AVENUE ACCESS ROAD B

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM NEWPORT AVENUE
0.000	0.000	INTERSECTION	LEFT	PAVED ROUTE (NEWPORT AVENUE / NON NPS)
0.000	0.000	INTERSECTION	RIGHT	PAVED ROUTE (NEWPORT AVENUE / NON NPS)
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.006	0.006	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.006	0.006	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.007	0.064	CURB	LEFT	
0.009	0.009	INTERSECTION	RIGHT	PAVED ROUTE (NEWPORT AVENUE / NON NPS) SPUR
0.009	0.090	CURB	RIGHT	
0.010	0.010	SIGN	RIGHT	GUIDE, WILLIAMSBURG
0.014	0.014	SIGN	RIGHT	REGULATORY, COMMERCIAL VEHICLES EXCLUDED
0.046	0.046	DROP INLET	LEFT	
0.066	0.066	CULVERT	N/A	
0.070	0.070	INTERSECTION	LEFT	ROUTE 0112B (NEWPORT AVENUE ACCESS ROAD B) SPUR
0.073	0.084	CURB	LEFT	
0.074	0.074	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.076	0.076	DROP INLET	LEFT	OPPOSITE LANE
0.084	0.084	DROP INLET	RIGHT	
0.084	0.084	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
0.086	0.086	SIGN	RIGHT	REGULATORY, STOP
0.090	0.090	INTERSECTION	LEFT	ROUTE 0001 (COLONIAL PARKWAY)
0.090	0.090	INTERSECTION	N/A	ROUTE 0001 (COLONIAL PARKWAY)
0.090	0.090	ROUTE END	N/A	TO ROUTE 0001 (COLONIAL PARKWAY) (TOWARDS JAMESTOWN)

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0224Z: WASHINGTON'S HEADQUARTERS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0500Z (BATTLEFIELD TOUR ROAD) AT MP 1.72
0.000	0.000	INTERSECTION	N/A	ROUTE 0500Z (BATTLEFIELD TOUR ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0500Z (BATTLEFIELD TOUR ROAD)
0.000	0.028	ONE-WAY	N/A	
0.023	0.023	SIGN	LEFT	REGULATORY, YIELD
0.023	0.023	SIGN	RIGHT	REGULATORY, DO NOT ENTER
0.024	0.024	SIGN	LEFT	REGULATORY, KEEP LEFT
0.028	0.028	INTERSECTION	RIGHT	ROUTE 0224Z (WASHINGTON'S HEADQUARTERS ROAD) SPUR
0.028	0.090	PAVED DITCH	LEFT	
0.036	0.036	SIGN	RIGHT	REGULATORY, H
0.036	0.036	SIGN	RIGHT	REGULATORY, HISTORICAL TOUR
0.042	0.042	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.121	0.121	SIGN	RIGHT	WARNING, SLIPPERY XING
0.136	0.146	LOW WATER CROSSING	N/A	
0.159	0.168	PAVED DITCH	LEFT	
0.168	0.168	SIGN	RIGHT	WARNING, SLIPPERY X-ING
0.266	0.275	CURB	LEFT	
0.266	0.280	CURB	RIGHT	
0.278	0.278	SIGN	LEFT	REGULATORY, KEEP RIGHT
0.278	0.280	CURB	LEFT	
0.280	0.280	INTERSECTION	N/A	ROUTE 0930 (WASHINGTON'S HEADQUARTERS PARKING)
0.280	0.280	ROUTE END	N/A	TO ROUTE 0930 (WASHINGTON'S HEADQUARTERS PARKING)

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0225Z: SURRENDER ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM COOK ROAD (NORTH END)
0.000	0.000	INTERSECTION	LEFT	PAVED ROUTE (COOK ROAD / NON NPS)
0.000	0.000	INTERSECTION	N/A	PAVED ROUTE (COOK ROAD / NON NPS)
0.008	0.008	SIGN	RIGHT	REGULATORY, STOP
0.024	0.024	SIGN	LEFT	GUIDE, COOK RD
0.024	0.024	SIGN	LEFT	GUIDE, SURRENDER RD
0.034	0.034	INTERSECTION	LEFT	ROUTE 0225Z (SURRENDER ROAD) CUT-THRU
0.062	0.062	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.392	0.392	SIGN	RIGHT	GUIDE, BICYCLE AND WALKING TRAIL NO VEHICLES
0.462	0.462	INTERSECTION	LEFT	ROUTE 0502Z (SHORT LOOP ROAD)
0.466	0.466	SIGN	LEFT	REGULATORY, DO NOT ENTER
0.658	0.658	INTERSECTION	LEFT	UNPAVED PARKING (HORSE TRAILER PARKING)
0.663	0.663	SIGN	LEFT	GUIDE, HORSE TRAILER PARKING
0.880	0.909	PULLOUT	RIGHT	
0.959	0.959	SIGN	LEFT	GUIDE, SURRENDER FIELD
0.959	0.959	SIGN	RIGHT	GUIDE, SURRENDER FIELD
0.964	0.964	SIGN	LEFT	GUIDE, HISTORICAL TOUR
0.964	0.964	SIGN	LEFT	REGULATORY, UNABLE TO READ FROM VIDEO
0.966	0.966	INTERSECTION	LEFT	ROUTE 0502Z (SHORT LOOP ROAD)
0.966	0.966	INTERSECTION	RIGHT	ROUTE 0102Z (SURRENDER FIELD ROAD)
1.047	1.047	INTERSECTION	LEFT	UNPAVED ROUTE (GATED)
1.122	1.122	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
1.128	1.128	SIGN	LEFT	GUIDE, HISTORICAL TOUR
1.132	1.132	INTERSECTION	LEFT	ROUTE 0503Z (EAST YORKTOWN TOUR ROAD)
1.140	1.140	SIGN	LEFT	REGULATORY, DO NOT ENTER
1.221	1.221	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
1.266	1.266	SIGN	LEFT	GUIDE, COOK RD
1.270	1.270	INTERSECTION	LEFT	PAVED ROUTE (COOK ROAD / NON NPS)
1.270	1.270	INTERSECTION	RIGHT	PAVED ROUTE (COOK ROAD / NON NPS)
1.270	1.270	SIGN	RIGHT	REGULATORY, STOP
1.270	1.270	ROUTE END	N/A	TO COOK ROAD (SOUTH END)

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0226Z: FRENCH ENCAMPMENT TOUR ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0500Z (BATTLEFIELD TOUR ROAD)
0.000	0.000	INTERSECTION	N/A	ROUTE 0500Z (BATTLEFIELD TOUR ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0500Z (BATTLEFIELD TOUR ROAD)
0.000	0.068	ONE-WAY	N/A	
0.028	0.028	CULVERT	N/A	
0.062	0.062	SIGN	LEFT	REGULATORY, KEEP LEFT
0.068	0.068	SIGN	RIGHT	REGULATORY, DO NOT ENTER
0.068	0.068	INTERSECTION	RIGHT	ROUTE 0226Z (FRENCH ENCAMPMENT TOUR ROAD) SPUR
0.076	0.076	SIGN	RIGHT	REGULATORY, YIELD
0.105	0.105	SIGN	RIGHT	REGULATORY, KEEP RIGHT
0.110	0.135	GUARD/GUIDE RAIL	LEFT	
0.113	0.137	GUARD/GUIDE RAIL	RIGHT	
0.121	0.126	BRIDGE	N/A	4290-003 (CRAWFORD ROAD BRIDGE)
0.149	0.149	CULVERT	N/A	
0.464	0.464	CULVERT	N/A	
0.607	0.607	CULVERT	N/A	
0.752	0.752	CULVERT	N/A	
0.974	0.974	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.978	0.978	INTERSECTION	LEFT	ROUTE 0226Z (FRENCH ENCAMPMENT TOUR ROAD)
0.978	2.490	ONE-WAY	N/A	
0.987	0.987	SIGN	LEFT	REGULATORY, KEEP RIGHT
1.072	1.096	PULLOUT	RIGHT	
1.257	1.257	CULVERT	N/A	
1.389	1.389	CULVERT	N/A	
1.491	1.491	CULVERT	N/A	
1.540	1.540	CULVERT	N/A	
1.597	1.597	CULVERT	N/A	
1.726	1.726	CULVERT	N/A	
1.834	1.834	CULVERT	N/A	
1.926	1.926	CULVERT	N/A	
1.954	1.954	CULVERT	N/A	
2.060	2.060	CULVERT	N/A	
2.086	2.110	PULLOUT	RIGHT	
2.490	2.490	INTERSECTION	LEFT	ROUTE 0226Z (FRENCH ENCAMPMENT TOUR ROAD)

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0226Z: FRENCH ENCAMPMENT TOUR ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
2.490	2.490	INTERSECTION	N/A	ROUTE 0226Z (FRENCH ENCAMPMENT TOUR ROAD)
2.490	2.490	ROUTE END	N/A	TO END OF LOOP

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0500Z: BATTLEFIELD TOUR ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0929 (SURRENDER FIELD ACCESS PARKING)
0.000	4.280	ONE-WAY	N/A	
0.000	0.000	INTERSECTION	N/A	ROUTE 0929 (SURRENDER FIELD ACCESS PARKING)
0.007	0.007	SIGN	LEFT	GUIDE, BATTLEFIELD TOUR ROAD OF ENCAMPMENT AREAS HISTORICAL TOUR FOLLOW THESE ARROWS
0.008	0.008	SIGN	RIGHT	REGULATORY, WEIGHT LIMIT 5 TONS
0.021	0.021	GATE	N/A	
0.021	0.021	SIGN	RIGHT	GUIDE, KEEP ALL VEHICLES AND BICYCLES ON PAVED ROADS
0.039	0.039	SIGN	RIGHT	REGULATORY, ONE WAY
0.063	0.063	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.102	0.102	CULVERT	N/A	
0.202	0.202	CULVERT	N/A	
0.216	0.216	INTERSECTION	LEFT	PAVED ROUTE (FROM STATE HIGHWAY 17 / NON NPS)
0.218	0.218	SIGN	RIGHT	GUIDE, HISTORICAL TOUR
0.232	0.232	CULVERT	N/A	
0.240	0.240	OVERPASS	N/A	A BIP STRUCTURE NUMBER HAS NOT BEEN ASSIGNED TO THIS BRIDGE (STATE HIGHWAY 17 NORTHBOUND / NON NPS)
0.250	0.250	OVERPASS	N/A	A BIP STRUCTURE NUMBER HAS NOT BEEN ASSIGNED TO THIS BRIDGE (STATE HIGHWAY 17 SOUTHBOUND / NON NPS)
0.262	0.262	CULVERT	N/A	
0.321	0.321	CULVERT	N/A	
0.340	0.340	INTERSECTION	RIGHT	PAVED ROUTE (FROM STATE HIGHWAY 17 / NON NPS)
0.367	0.367	SIGN	LEFT	GUIDE, HISTORICAL TOUR
0.376	0.395	PULLOUT	LEFT	
0.481	0.500	PULLOUT	LEFT	
0.559	0.578	PULLOUT	LEFT	
0.690	0.690	CULVERT	N/A	
0.709	0.712	GUARD/GUIDE WALL	LEFT	
0.714	0.714	INTERSECTION	LEFT	UNPAVED ROUTE (WARWICK ROAD / GATED)
0.714	0.714	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.717	0.720	GUARD/GUIDE WALL	LEFT	
0.729	0.729	CULVERT	N/A	
0.760	0.786	PULLOUT	LEFT	
0.829	0.850	PULLOUT	LEFT	
0.944	0.944	INTERSECTION	LEFT	UNPAVED ROUTE (GATED / FIRE ROAD)

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0500Z: BATTLEFIELD TOUR ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.947	0.947	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
1.033	1.033	CULVERT	N/A	
1.043	1.062	PULLOUT	LEFT	
1.191	1.205	GUARD/GUIDE WALL	LEFT	
1.192	1.205	BRIDGE	N/A	4290-002 (BEAVERDAM CREEK BRIDGE)
1.192	1.205	GUARD/GUIDE WALL	RIGHT	
1.432	1.432	CULVERT	N/A	
1.694	1.712	PULLOUT	LEFT	
1.704	1.704	SIGN	RIGHT	GUIDE, WASHINGTONS HEADQUARTERS FRENCH ENCAMPMENT YORKTOWN
1.722	1.722	INTERSECTION	LEFT	ROUTE 0224Z (WASHINGTON'S HEADQUARTERS ROAD)
1.739	1.739	SIGN	RIGHT	REGULATORY, YIELD
1.742	1.742	INTERSECTION	LEFT	ROUTE 0224Z (WASHINGTON'S HEADQUARTERS ROAD) SPUR
1.756	1.756	SIGN	RIGHT	REGULATORY, ONE WAY
1.771	1.788	PULLOUT	LEFT	
1.772	1.772	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
1.805	1.805	CULVERT	N/A	
1.890	1.890	SIGN	RIGHT	GUIDE, HISTORICAL TOUR
1.890	1.890	SIGN	RIGHT	REGULATORY, I
1.893	1.925	CURB	LEFT	
1.900	1.900	INTERSECTION	RIGHT	ROUTE 0931 (FRENCH CEMETERY PARKING)
1.914	1.914	INTERSECTION	RIGHT	ROUTE 0931 (FRENCH CEMETERY PARKING)
1.936	1.936	INTERSECTION	LEFT	UNPAVED ROUTE (GATED)
1.943	1.943	SIGN	LEFT	REGULATORY, J
1.943	1.943	SIGN	LEFT	GUIDE, HISTORICAL TOUR
2.040	2.041	GUARD/GUIDE WALL	RIGHT	
2.071	2.102	PULLOUT	RIGHT	
2.071	2.102	CURB	RIGHT	
2.323	2.341	CURB	RIGHT	
2.323	2.341	PULLOUT	RIGHT	
2.334	2.334	INTERSECTION	LEFT	UNPAVED ROUTE (GATED)
2.486	2.486	CULVERT	N/A	
2.606	2.630	PULLOUT	RIGHT	
2.606	2.631	PULLOUT	LEFT	

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0500Z: BATTLEFIELD TOUR ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
2.693	2.693	SIGN	RIGHT	GUIDE, FRENCH ENCAMPMENT LOOP YORKTOWN
2.714	2.714	INTERSECTION	LEFT	ROUTE 0226Z (FRENCH ENCAMPMENT TOUR ROAD)
2.730	2.730	CULVERT	N/A	
2.774	2.774	SIGN	RIGHT	REGULATORY, YIELD
2.779	2.779	INTERSECTION	LEFT	ROUTE 0226Z (FRENCH ENCAMPMENT TOUR ROAD) SPUR
2.790	2.790	SIGN	RIGHT	REGULATORY, ONE WAY
2.847	2.847	CULVERT	N/A	
3.005	3.005	CULVERT	N/A	
3.152	3.152	CULVERT	N/A	
3.336	3.336	CULVERT	N/A	
3.452	3.452	CULVERT	N/A	
3.621	3.658	GUARD/GUIDE RAIL	RIGHT	
3.621	3.659	GUARD/GUIDE RAIL	LEFT	
3.626	3.654	BRIDGE	N/A	4290-004 (U.S. ROUTE 17 BRIDGE)
3.956	3.956	SIGN	LEFT	GUIDE, BIKE & WALKING PATH BACK TO SURRENDER ROAD
3.958	3.958	SIGN	RIGHT	GUIDE, BICYCLE AND WALKING TRAIL NO VEHICLES NO HORSES
4.131	4.131	GATE	N/A	WOOD WITH CABLE
4.189	4.209	PULLOUT	RIGHT	
4.254	4.254	GATE	N/A	
4.268	4.268	SIGN	RIGHT	GUIDE, YORKTOWN US. ROUTE 17
4.270	4.270	SIGN	LEFT	REGULATORY, DO NOT ENTER
4.271	4.271	SIGN	RIGHT	REGULATORY, DO NOT ENTER
4.275	4.275	SIGN	RIGHT	REGULATORY, STOP
4.279	4.279	INTERSECTION	LEFT	PAVED ROUTE (GOOSELY ROAD / NON NPS)
4.279	4.279	INTERSECTION	RIGHT	PAVED ROUTE (GOOSELY ROAD / NON NPS)
4.280	4.280	INTERSECTION	N/A	ROUTE 0100Z (UNTOUCHED REDOUBT ROAD)
4.280	4.280	ROUTE END	N/A	TO INTERSECTION OF ROUTE 0100Z (UNTOUCHED REDOUBT ROAD) AND GOOSLEY ROAD

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0501AZ: ISLAND DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0001 (COLONIAL PARKWAY) AT END
0.000	0.000	INTERSECTION	N/A	ROUTE 0001 (COLONIAL PARKWAY)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0950 (JAMESTOWN VISITOR'S CENTER PARKING)
0.003	0.003	SIGN	N/A	REGULATORY, CLOSED
0.003	0.003	GATE	N/A	
0.003	0.003	SIGN	N/A	REGULATORY, CLOSED
0.006	0.006	SIGN	RIGHT	GUIDE, NO BUSES OR CAMPERS ALLOWED
0.029	0.029	SIGN	RIGHT	GUIDE, ISLAND LOOP ROAD SHORT TOUR 3MI. 5KM. COMPLETE TOUR 5MI. 8KM.
0.051	0.051	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.182	0.182	INTERSECTION	LEFT	ROUTE 0501AZ (ISLAND DRIVE)
0.182	4.670	ONE-WAY	N/A	
0.188	0.188	SIGN	LEFT	REGULATORY, ONE WAY
0.239	0.239	INTERSECTION	LEFT	ROUTE 0501AZ (ISLAND DRIVE) SPUR
0.287	0.310	PULLOUT	RIGHT	
0.314	0.333	BRIDGE	N/A	4290-028 (PITCH AND TAR BRIDGE)
0.314	0.333	GUARD/GUIDE WALL	LEFT	
0.314	0.333	GUARD/GUIDE WALL	RIGHT	
0.505	0.505	CULVERT	N/A	
0.510	0.535	PULLOUT	RIGHT	
1.132	1.155	PULLOUT	LEFT	
1.321	1.342	PULLOUT	RIGHT	
1.360	1.379	PULLOUT	RIGHT	
1.400	1.400	INTERSECTION	LEFT	ROUTE 0501BZ (ISLAND DRIVE CROSS ROAD)
1.514	1.514	CULVERT	N/A	
1.804	1.817	PULLOUT	RIGHT	
1.899	1.899	CULVERT	N/A	
2.488	2.505	PULLOUT	RIGHT	
2.534	2.534	CULVERT	N/A	
2.570	2.570	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
2.594	2.671	GUARD/GUIDE WALL	RIGHT	
2.595	2.671	BRIDGE	N/A	4290-029 (BLACKS POINT BRIDGE)
2.595	2.673	GUARD/GUIDE WALL	LEFT	
2.696	2.716	PULLOUT	RIGHT	

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0501AZ: ISLAND DRIVE

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
3.079	3.079	CULVERT	N/A	
3.286	3.327	GUARD/GUIDE WALL	RIGHT	
3.286	3.327	GUARD/GUIDE WALL	LEFT	
3.286	3.327	BRIDGE	N/A	4290-030 (TRAVIS GRAVEYARD BRIDGE)
3.335	3.353	PULLOUT	RIGHT	
3.692	3.708	PULLOUT	RIGHT	
3.704	3.704	INTERSECTION	LEFT	ROUTE 0501BZ (ISLAND DRIVE CROSS ROAD)
3.711	3.711	SIGN	LEFT	REGULATORY, ONE WAY
3.798	3.798	CULVERT	N/A	
3.809	3.809	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
3.873	4.005	GUARD/GUIDE WALL	RIGHT	
3.874	4.005	BRIDGE	N/A	4290-031 (LONG BRIDGE)
3.874	4.006	GUARD/GUIDE WALL	LEFT	
4.225	4.254	PULLOUT	RIGHT	
4.228	4.228	CULVERT	N/A	
4.294	4.317	PULLOUT	RIGHT	
4.548	4.548	CULVERT	N/A	
4.578	4.578	SIGN	RIGHT	GUIDE, REPEAT TOUR END OF TOUR
4.591	4.591	INTERSECTION	LEFT	ROUTE 0501AZ (ISLAND DRIVE) SPUR
4.594	4.614	PULLOUT	RIGHT	
4.622	4.622	CULVERT	N/A	
4.670	4.670	INTERSECTION	LEFT	ROUTE 0501AZ (ISLAND DRIVE)
4.670	4.670	INTERSECTION	N/A	ROUTE 0501AZ (ISLAND DRIVE)
4.670	4.670	ROUTE END	N/A	TO END OF LOOP

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0501BZ: ISLAND DRIVE CROSS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0501AZ (SLAVE ISLAND) AT MP 1.40
0.000	0.000	INTERSECTION	N/A	ROUTE 0501AZ (ISLAND DRIVE)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0501AZ (ISLAND DRIVE)
0.000	0.150	ONE-WAY	N/A	
0.016	0.016	SIGN	RIGHT	GUIDE, SHORT TOUR COMPLETE TOUR
0.132	0.132	SIGN	RIGHT	REGULATORY, YIELD
0.150	0.150	INTERSECTION	N/A	ROUTE 0501AZ (ISLAND DRIVE)
0.150	0.150	INTERSECTION	RIGHT	ROUTE 0501AZ (ISLAND DRIVE)
0.150	0.150	ROUTE END	N/A	TO ROUTE 0501AZ (SLAVE ISLAND) AT MP 3.70

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0502Z: SHORT LOOP ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM INTERSECTION OF ROUTE 0225Z (SURRENDER ROAD) AND ROUTE 0102Z (SURRENDER FIELD ROAD)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0225Z (SURRENDER ROAD)
0.000	0.000	INTERSECTION	N/A	ROUTE 0102Z (SURRENDER FIELD ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0225Z (SURRENDER ROAD)
0.000	0.550	ONE-WAY	N/A	
0.002	0.002	CULVERT	N/A	
0.017	0.017	SIGN	LEFT	REGULATORY, SPEED LIMIT 15
0.146	0.166	PULLOUT	RIGHT	
0.266	0.275	CURB	RIGHT	
0.360	0.360	CULVERT	N/A	
0.539	0.539	SIGN	RIGHT	REGULATORY, HISTORICAL TOUR
0.550	0.550	INTERSECTION	LEFT	ROUTE 0225Z (SURRENDER ROAD)
0.550	0.550	INTERSECTION	RIGHT	ROUTE 0225Z (SURRENDER ROAD)
0.550	0.550	SIGN	RIGHT	REGULATORY, STOP
0.550	0.550	CULVERT	N/A	
0.550	0.550	ROUTE END	N/A	THROUGH TOUR BUS ROUTES

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0503Z: EAST YORKTOWN TOUR ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM INTERSECTION OF ROUTE 0103Z (REDOUBT ACCESS ROAD) AND MOORE HOUSE ROAD
0.000	0.000	INTERSECTION	LEFT	PAVED ROUTE (MOORE HOUSE ROAD / NON NPS)
0.000	0.000	INTERSECTION	N/A	ROUTE 0103Z (REDOUBT ACCESS ROAD)
0.000	0.000	INTERSECTION	RIGHT	PAVED ROUTE (MOORE HOUSE ROAD / NON NPS)
0.000	1.830	ONE-WAY	N/A	
0.003	0.040	PAVED DITCH	RIGHT	
0.004	0.004	SIGN	RIGHT	REGULATORY, WEIGHT LIMIT 5 TONS
0.004	0.004	SIGN	RIGHT	GUIDE, HISTORICAL TOUR
0.008	0.008	GATE	N/A	
0.014	0.014	SIGN	RIGHT	GUIDE, PAY PARK ENTRANCE FEE AT VISITOR CENTER
0.015	0.015	SIGN	LEFT	REGULATORY, ONE WAY
0.043	0.043	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.052	0.052	CULVERT	N/A	
0.207	0.224	PULLOUT	RIGHT	
0.434	0.434	CULVERT	N/A	
0.479	0.479	CULVERT	N/A	
0.489	0.511	PULLOUT	RIGHT	
0.519	0.519	CULVERT	N/A	
0.566	0.566	CULVERT	N/A	
0.617	0.703	CURB	RIGHT	
0.719	0.731	PULLOUT	RIGHT	
0.737	0.747	CURB	RIGHT	
0.759	0.759	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.759	0.759	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.763	0.763	SIGN	RIGHT	GUIDE, KEEP OFF
0.763	0.825	GUARD/GUIDE RAIL	RIGHT	
0.767	0.767	SIGN	RIGHT	REGULATORY, STOP
0.770	0.770	INTERSECTION	LEFT	ROUTE 0104Z (MOORE HOUSE ACCESS ROAD)
0.772	0.772	SIGN	LEFT	GUIDE, HISTORICAL TOUR
0.773	0.773	SIGN	LEFT	GUIDE, SURRENDER FIELD MOORE HOUSE
0.774	0.823	GUARD/GUIDE RAIL	LEFT	
0.775	0.775	SIGN	RIGHT	WARNING, ROAD NARROWS
0.776	0.776	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT

COLO: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0503Z: EAST YORKTOWN TOUR ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.777	0.780	BRIDGE	N/A	4290-038 (WORMLEY POND BRIDGE)
0.785	0.785	SIGN	RIGHT	GUIDE, KEEP OFF
0.824	0.824	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.851	0.854	PAVED DITCH	LEFT	
0.970	0.991	PULLOUT	RIGHT	
1.032	1.049	PULLOUT	RIGHT	
1.178	1.201	PULLOUT	RIGHT	
1.306	1.306	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
1.430	1.461	PULLOUT	RIGHT	
1.536	1.550	CURB	RIGHT	
1.590	1.610	PULLOUT	LEFT	
1.667	1.686	PULLOUT	RIGHT	
1.693	1.693	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.705	1.705	GATE	N/A	
1.705	1.705	SIGN	N/A	REGULATORY, GRAPHIC SIGN, NO TEXT
1.705	1.705	SIGN	N/A	REGULATORY, UNABLE TO READ FROM VIDEO
1.736	1.736	GATE	N/A	
1.736	1.736	SIGN	N/A	GUIDE, UNABLE TO READ FROM VIDEO
1.740	1.740	SIGN	RIGHT	REGULATORY, STOP
1.740	1.740	TRAFFIC LIGHT	RIGHT	
1.740	1.740	CULVERT	N/A	
1.747	1.747	INTERSECTION	LEFT	PAVED ROUTE (COOK ROAD / NON NPS)
1.747	1.747	INTERSECTION	RIGHT	PAVED ROUTE (COOK ROAD / NON NPS)
1.749	1.749	SIGN	LEFT	REGULATORY, 704
1.759	1.759	CULVERT	N/A	
1.760	1.760	SIGN	RIGHT	GUIDE, HISTORICAL TOUR
1.767	1.791	PULLOUT	RIGHT	
1.828	1.828	SIGN	RIGHT	REGULATORY, STOP
1.830	1.830	INTERSECTION	LEFT	ROUTE 0225Z (SURRENDER ROAD)
1.830	1.830	INTERSECTION	RIGHT	ROUTE 0225Z (SURRENDER ROAD)
1.830	1.830	ROUTE END	N/A	TO ROUTE 0225Z (SURRENDER ROAD)

Colonial National Historical Park

Section 10
Appendix

APPENDIX A: GLOSSARY OF TERMS AND ABBREVIATIONS

TERM OR ABBREVIATION	DESCRIPTION OR DEFINITION
AADT	(Annual Average Daily Traffic) The estimate of typical daily traffic on a road segment for all days of the week over the period of one year.
CRS	Condition Rating Sheets. (Section 5)
Excellent	Excellent rating with an index value of 95 or greater
Fair	Fair rating with an index value from 61 to 84
Func. Class	Funtional Classification (see Route ID, Section 4)
Good	Good rating with an index value from 85 to 94
IRI	International Roughness Index
Lane Width	Width from road centerline to fogline, or from centerline to edge-of-pavement when no fogline exists
MRR	Manually Rated Route
N/A	Not Applicable
NC	Not Collected
Paved Width	Width from edge-of-pavement to edge-of-pavement
PCR	Pavement Condition Rating (Appendix B, Section 10)
Poor	Poor Rating with an index value of 60 or less
RCI	Roughness Condition Index
SADT	(Seasonal Annual Daily Traffic) The AADT adjusted to represent just the period of the year containing 80 percent of the total annual traffic.
SCR	Surface Condition Rating (Appendix B, Section 10)
Shoulder Width	Distance from fogline to hinge point, or if no fogline, from edge-of-pavement to hinge point.

APPENDIX B: DESCRIPTION OF RATING SYSTEM

A numerical roadway rating system is used to describe the overall condition of the paved roadways and paved parking areas. In this system, a numerical rating between 0 and 100 is ascribed to each 0.02 miles of road. This numerical rating is called a Pavement Condition Rating (PCR). A "perfect" road, newly constructed with no surface distresses and a smooth surface, would be assigned a PCR rating of 100. Based on the type, severity, and extent of surface distresses points are deducted from 100 to arrive at the final PCR.

Data is collected on the following distresses and conditions:

- **Alligator Cracking** - a series of interconnecting cracks resembling alligator skin or chicken wire, which can occur anywhere in the lane.
- **Longitudinal Cracking** - cracks which are parallel to the pavement centerline or asphalt lay-down direction.
- **Transverse Cracking** - cracks perpendicular to the pavement centerline.
- **Pothole (patch)** - a bowl-shaped hole in the pavement surface. May be patched or not.
- **Rutting** - surface depressions in the wheel paths.
- **Roughness** is collected as International Roughness Index (IRI) and is used in the PCR formula. Roughness is measured in inches of vertical displacement of the vehicle per mile traveled.

A Distress Rating Index value is calculated for each of the individual distresses at the 0.02 mile, or every 105.6 feet.

Calculation of Index Values

Note: Index values < 0 default to 0. Index values > 100 default to 100.
For all indices, a higher value indicates a better road condition, and a lower value indicates a poorer road condition.
All severity protocols are taken from the SHRP Distress Identification Manual.

Condition Ranges for all Indices

Excellent	>=95
Good	>=85 and <95
Fair	>60 and <85
Poor	<=60

Alligator Crack Index

AC_INDEX = 100 – 40 * [(%LOW / 70) + (%MED / 30) + (%HI / 10)]

Where :

The values %LOW, %MED and %HI describe the percent of the total WX measured area that is affected by alligator cracking of each severity level. These values range from ≥ 0 to ≤ 100.

%LOW = (Total square area WX measured low severity alligator cracking) / (Section length * WX measured lane width)

%MED = (Total square area WX measured medium severity alligator cracking) / (Section length * WX measured lane width)
%HI = (Total square area WX measured high severity alligator cracking) / (Section length * WX measured lane width)

The denominators 70, 30, and 10 are the maximum allowable extents for the numerator value in the same units. For example, low severity alligator cracking totaling 70% of the measured section area would alone fail that section of road for this index.

The threshold for failure for this index is AC_INDEX = 60.

Severity Levels:

Low severity alligator cracking describes an area of cracks with no or only a few connecting cracks; cracks are not spalled (cracked, broken, chipped, frayed along the cracks); pumping (water seepage from beneath the pavement through the cracks) is not evident. Any sealed alligator cracks are low severity alligator cracks, as long as the sealant is still in good condition. If the sealant has reopened, and the crack is visible and can be measured, the crack severity is assigned according to that measurement.

Medium severity alligator cracking describes an area of interconnected cracks forming a complete pattern; cracks may be slightly spalled; pumping is not evident.

High severity alligator cracking describes an area of moderately or severely spalled interconnected cracks forming a complete pattern; pieces may move when subjected to traffic; pumping may be evident.

Longitudinal Crack Index

LC_INDEX = 100 – 40 * [(%LOW / 350) + (%MED / 200) + (%HI / 75)]

Where:

The values %LOW, %MED and %HI describe the length of longitudinal cracking of each severity as a percent of the section length. These values are ≥ 0 and can exceed 100.

%LOW = (Total linear feet WX measured low severity longitudinal cracking) / (Section length in linear feet)
%MED = (Total linear feet WX measured medium severity longitudinal cracking) / (Section length in linear feet)
%HI = (Total linear feet WX measured high severity longitudinal cracking) / (Section length in linear feet)

The denominators 350, 200, and 75 are the maximum allowable extents for the numerator value in the same units. For example, medium severity longitudinal cracking with a total length that is 200% of the length of the section would alone fail that section of road for this index.

The threshold for failure for this index is LC_INDEX = 60.

Severity Levels:

Low severity longitudinal cracks have a mean width ≤ ¼”, or are sealed cracks of indeterminate width whose sealant material is in good condition.

Medium severity longitudinal cracks have a mean width > ¼” and ≤ ¾”.

High severity longitudinal cracks have a mean width > ¾”.

Transverse Crack Index

TC_INDEX = 100 – {[20 * ((LOW / 15.1) + (MED / 7.5))] + [40 * (HI / 1.9)]}

Where:

The values LOW, MED and HI describe a count of the total number of transverse cracks of each severity level, where one transverse crack unit is equal to the WX measured lane width. These values are ≥ 0.

LOW = (Total linear feet WX measured low severity transverse cracking) / (WX measured lane width)
MED = (Total linear feet WX measured medium severity transverse cracking) / (WX measured lane width)
HI = (Total linear feet WX measured high severity transverse cracking) / (WX measured lane width)

The denominators 15.1, 7.5, and 1.9 are the maximum allowable extents for the numerator value in the same units. For example, high severity transverse cracking with a total length that amounts to 1.9 times the WX measured lane width would alone fail that section of road for this index.

The threshold for failure for this index is TC_INDEX = 60.

Severity Levels:

Low severity transverse cracks have a mean width ≤ ¼", or are sealed cracks of indeterminate width whose sealant material is in good condition.

Medium severity transverse cracks have a mean width > ¼" and ≤ ¾".

High severity transverse cracks have a mean width > ¾".

Patching Index

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

Where:

The value %PATCHING describes the percent of the total WX measured area that is affected by patching. This value ranges from ≥ 0 to ≤ 100.

%PATCHING = (Total area WX measured patching) / (Section length * WX measured lane width)

The denominator 80 is the maximum allowable extent for the numerator value in the same units. Patching totaling 80% or more of the measured section area fails a section of road for this index.

The threshold for failure for this index is PATCH_INDEX = 60.

There are no severity levels for patching.

Rutting Index

RUT_INDEX = 100 – 40 * [(%LOW / 160) + (%MED / 80) + (%HI / 40)]

Where:

10 ARAN rut depth measurements are taken per full .02 section for each of 2 wheel paths (left and right), resulting in a total of 20 measurements taken for both wheel paths. The values %LOW, %MED and %HI describe the number of ARAN rut depth measurements of both wheel paths in the section whose values are of each severity level, calculated as a percentage of the total number of ARAN rut depth measurements taken for a single wheel path in the section. These values range from ≥ 0 to ≤ 200.

%LOW = (Total number of ARAN measured low severity ruts in section for both wheel paths) / (Total number of ARAN rut measurements in section for a single wheel path)
%MED = (Total number of ARAN measured medium severity ruts in section for both wheel paths) / (Total number of ARAN rut measurements in section for a single wheel path)
%HI = (Total number of ARAN measured high severity ruts in section for both wheel paths) / (Total number of ARAN rut measurements in section for a single wheel path)

The denominators 160, 80, and 40 are the maximum allowable extents for the numerator value in the same units. For example, low severity ruts recorded in 16 of the 20 total readings (or 160% of a full wheel path's worth of readings) for a full .02 section would fail that section for this index.

The threshold for failure for this index is RUT_INDEX = 60.

Severity Levels:

Ruts with an ARAN measured depth < 0.20" are not included in the distress calculations.

Low severity ruts have an ARAN measured depth ≥ 0.20" and ≤ 0.49".

Medium severity ruts have an ARAN measured depth ≥ 0.50" and ≤ 0.99".

High severity ruts have an ARAN measured depth ≥ 1.00".

Roughness Condition Index

RCI **= 32 * [5 * (2.718282 ^ (-0.0041 * AVG IRI))]**

Where:

The value AVG IRI describes the average value of the Left IRI and Right IRI measurements for the section. This value can range from approximately 40 to over 1000.

AVG IRI = (ARAN measured Left IRI + ARAN measured Right IRI) / 2

There is no applicable threshold for failure for this index.

NOTE: Collection of roughness data is dependent on the data collection vehicle traveling at a minimum speed of 12 mph. In the event that a route cannot be safely traveled at this minimum speed, and results in no roughness data, the SCR only will be calculated.

Surface Condition Rating Index

SCR = 100 - [(100 - AC_INDEX) + (100 - LC_INDEX) + (100 - TC_INDEX) + (100 - PATCH_INDEX) + (100 - RUT_INDEX)]

Where:

See above for determinations of AC_INDEX, LC_INDEX, TC_INDEX, PATCH_INDEX and RUT_INDEX.

The threshold for failure for this index is SCR = 60.

Pavement Condition Rating Index Asphaltic Concrete Pavement (AS)

PCR = (0.60 * SCR) + (0.40 * RCI)

Where:

See above for determinations of SCR and RCI.

The values 0.60 and 0.40 function as weights within the formula.

If SCR equals zero (which means that the road surface condition is very poor), then the formula simply reduces to: PCR = 0.40 * RCI.

If RCI equals zero (which means that this value was not available for some reason), then the formula becomes: PCR = SCR.

The threshold for failure for this index is PCR = 60.

Pavement Condition Rating Index Portland Cement Concrete Pavement (CO)

Concrete PCR = -0.0012(IRI^2)+0.0499(IRI)+99.542

Where:

The threshold for failure for this index is PCR = 60.

Parking Lot and Manually Rated Road Condition Rating

Surface Condition Distresses- Chip Seal:

Raveling – loss of surface rock chips revealing previous surface
Bleeding – asphalt or tar is bleeding through to the surface where surface looks slick with asphalt
Rutting
Potholes/Patching

Ratings - Chip Seal:

Excellent – None of the surface affected by the above (recently constructed)
Good – Less than 10% of surface affected by the above
Fair – Between 10% and 40% of surface affected by the above
Poor – More than 40% of surface affected by the above

Surface Condition - Asphalt:

Cracking of any type
Rutting
Potholes/Patching

Ratings - Asphalt:

Excellent – None of the surface affected by the above (recently constructed)
Good – Less than 10% of surface affected by the above
Fair – Between 10% and 40% of surface affected by the above
Poor – More than 40% of surface affected by the above

Index Values of Visual Ratings on Parking Lots and Manually Rated Roads

Under Construction 100

Excellent 97

Good 90

Fair 73

Poor 45

APPENDIX C: GENERAL INFORMATION ON RIP SYSTEMS

DMI (Distance Measuring Instrument)

The DMI (Distance Measuring Instrument) obtains road length measurements that are highly accurate (to 0.001 miles). The DMI is connected to the outside of the rear wheel on the driver's side, and is wired into the antilock braking system (ABS). The number of pulses recorded for each wheel rotation by the ABS is registered by the DMI, which transmits a measurement of distance traveled to the processing computers in the ARAN. The DMI distance measurements are the foundation to which all the other subsystems are tied.

Digital Image Information

All images collected in Cycle 4 are digital images in .jpg format. These images provide adequate resolution for identifying sign and feature inventories and pavement evaluations. The images can be viewed with an interactive software program called VisiData. Each park will receive a copy of the VisiData program. Cycle 4 data, as well as Cycle 3 data, can be viewed using the Visi-Data software program. This program is a data presentation and analysis tool that can be accessed either at the individual park, park region or at NPS headquarters. The data is organized in a hierarchical manner and presented in tabular and graphical formats. The user is able to perform queries and drill down through the data to find the particular information they are looking for. Associated digital right-of-way images from either the LAN, USB port, individual DVD can be presented along with GPS locations.

Right-of-way (ROW) Video

Three digital cameras are mounted above the vehicle's windshield that point directly forward and slightly to the left and right. These cameras each collect one image every 0.002 miles (10.56 feet) in the primary-direction lane, to give a panoramic field-of-view of about 160 degrees. (Forward-facing video from the center camera only is collected in the opposite-direction lane of travel.)

If data collection speed exceeds 35-40 mph, the network and storage computers may become overwhelmed and may begin to drop individual video frames. Occasional common video quality issues include sun glare and rapid changes between sunlight and shadow. The camera system is equipped with auto risers that sometimes cannot adjust quickly enough to collect optimal video images.

FHWA ARAN CAMERA SPECIFICATIONS **Forward-Facing Cameras (ROW)**	
Focal length	10 mm
Chip size	8.71mm X 6.90mm
Naming convention of each image	chainage.jpg
Image resolution	1300 X 1030
Image pixel size	depends on distance
Relative position of the GPS unit to each camera	2.104 meters from front-center rutbar to camera
The ARAN has a lever arm setting which tells the POS system where the center of the rutbar is with respect to the GPS antennas.	

Pavement Video

Pavement video images are collected by the data collection vehicle to use in later analysis to determine extents and severities of different types of pavement distress. The pavement in the primary-direction road lane is filmed continuously by two analog cameras attached to booms extended from the rear of the ARAN on the left and right sides. Strobe lights fire synchronously with the opening of the camera shutters to eliminate shadows and motion blur. The images from the two cameras overlap, and are stitched together in real time to create a continuous strip image of the pavement in the primary direction lane. This strip has a maximum width of 3.0 meters (actual width depends on pavement camera calibration) and is sectioned for ease of file management every 0.010 miles (52.8 feet).

The cameras both have a resolution of 640 x 480, making the threshold of visible pavement cracks about 3 mm. Because the cameras are triggered by time and not distance traveled, this subsystem requires a minimum operating speed of 6 mph, otherwise images are taken on top of one another and result in checkered or black pavement video.

FHWA ARAN CAMERA SPECIFICATIONS **Pavement Cameras**	
Image Pixel size	3.135 mm /side
Image Resolution	640 X 480
Area that images cover	1.5 m X 1.2 m
Full color or grayscale	grayscale
Vehicle speed limitations	80km/h
Aperture setting	Auto-iris
Exposure setting	1/50000

FHWA ARAN GPS & Inertial System

GPS is collected by a NovAtel MiLLenium, 12 channel, dual frequency L1/L2, DGPS ready receiver with a MiLLennium 502 GPS antenna. An OmniStar 3000 LR provides real-time differential correction. An Applanix POS/LV is the inertial system that fills in when GPS is unavailable. The antenna is mounted in the center of the roof, slightly toward the rear of the vehicle, but a lever arm is applied to place the operational location of GPS recording at the center of the rutbar on the front bumper of the vehicle. Expected accuracy under ideal conditions is sub meter.

GPS Collected on Manually Rated Routes

Parking areas and roads that are not fully drivable with the ARAN data collection vehicle are collected manually by field technicians. GPS is collected for these routes using GPS field data collection utilizes Trimble ProXRS or ProXH Receivers matched with Trimble TSC1 or Ranger handheld Data Loggers, connected to Trimble Hurricane Antennas giving sub meter accuracy in ideal conditions. This collection equipment has varied as technology has improved over the years of RIP data collection. Some GPS files collected as early as 1998 have been verified for accuracy and perpetuated through the current cycle of data collection.

GPS SHAPEFILES

Type of Route and Collection Shape Filename		
Roads driven by ARAN	Line	park_road_04.dbf/.shp/.shx
Parking Areas	Polygon	park_pkg_04.dbf/.shp/.shx
Roads Manually Rated as Lines (not in every park)	Line	park_mrl_04.dbf/.shp/.shx
Roads Manually Rated as Polygons (not in every park)	Polygon	park_mrp_04.dbf/.shp/.shx

• Datum for all GPS shapefiles is LL_WGS84_DD (Latitude Longitude _World Geodetic Survey 1984_Decimal Degrees)
• In filename, “park” is NPS four-letter alphabetic code.
• The source for route data required for data processing and report production is the PARK_RouteInfo.mdb.

Condition Photos Taken of Manually Rated Roads

One or more digital photos are taken by Canon Power Shot G2 4.0 Mega Pixel digital camera for each manually rated route in a National Park. They are stored in .jpg format named with the four-letter NPS park alphabetic code, route number, and the photo number assigned by the camera. For example, YOSE_0900_4434.jpg is the filename of the photo named 4434 by the camera that was taken of Yosemite National Park route 0900.

Scenic Photos

Scenic photos are taken by Canon Power Shot G2 4.0 Mega Pixel digital camera throughout each park and are named with the four-letter NPS park alphabetic code and the count of the photo taken in that park. For example, GRCA003.jpg is the filename of the third scenic photo taken in Grand Canyon National Park. The number of scenic photos provided will vary between parks.

APPENDIX D: METADATA

FHWA – NPS Road Inventory Program Cycle 4 Metadata

The purpose of these sheets is to provide users of the Road Inventory Program's data with data accuracies and tolerances to help users define ways in which the RIP data can and cannot be used. For further information on specifics of data collection equipment, data collection procedures, equipment calibrations, or quality control/quality assurance procedures, please contact Jim Kennedy, Project Manager, Data Quality Assurance, at 720-963-3560 or jim.kennedy@fhwa.dot.gov.

All Road Inventory Program data undergoes quality control and quality assurance testing. This document represents the known data accuracies and tolerances for the data collection equipment, data collection procedures, and data processing procedures currently in use. Many additional tests conducted on the park databases during the quality assurance phase to ensure data integrity are not listed as a part of this document. Before it is delivered, a park database undergoes a large set of table design consistency, field data format consistency, data completeness, uniqueness of key fields, data reasonableness, acceptable data range, within-field data consistency, between-field data consistency, and between-table data consistency tests. Additional data sampling checks are conducted to ensure proper data upload from raw files into the park database and to quality check the pavement crack analysis. Further information is detailed in the FHWA – NPS RIP Quality Assurance Manual, available upon request.

This description of metadata includes only the known accuracies with which a data field matches its expected value. The tables that follow this page show each database field's:

- Field – field name
- Format – data type and number of characters of field
- Expected Value – meaning of value assigned to field
- Source – when in process field value obtained
- Validation – how field value obtained
- Expected Accuracy – accuracy with which contents of field match Expected Value

Verifying and continually improving the accuracy of Road Inventory Program data is an ongoing goal of the Federal Highway Administration and the National Park Service. Field testing and post-collection analysis of ARAN (Automatic Road ANalyzer) -collected data will continue in Cycle 4. Data quality is expected to improve as the FHWA – NPS Road Inventory Program continues to operate, due to the fact that future data collection cycles will consist in large part of data updates. Also, technological improvements are expected to render the data increasingly consistent with actual roadway conditions as data collection cycles progress.

Specific Caveats

- MUTCD based on contents & colors of sign, not on size
- Database records that show a Portland Cement Concrete (CO) surface type sometimes include distress index values that seem to show a perfect roadway. Condition assessments on concrete pavements are not conducted for Alligator Cracking, Transverse or Longitudinal Cracking, Patching, or Rutting. Perfect values for concrete road sections for these indexes are default values and do not represent a condition assessment of the concrete surfaces.
- On the USB drive, in the Database folder, parks are provided with intersection lists and exceptions lists. These documents should be treated as raw files and are not accurate. Refer to the final database for accurately post-processed intersection data.
- Most roadway data is collected in the primary direction lane of a roadway. To save data storage space and to reduce data analysis efforts, the assumption was made that the paved surface condition of a route's primary lane adequately represents the surface condition of the full roadway. Therefore, in the database, opposite-direction records in the PMS_Tenth table do not include assessed values for roadway surface distresses. Values such as 0, N/A, -1, or a repeat of the primary-direction assessed value indicate that no assessment was performed. The PMS_20 and PMS_Mile tables simply exclude all opposite routes.

- Roadway Data is collected in intervals of 0.010 miles (52.8feet) constituting a "station".
- Most roadway features are collected relative to the primary direction lane of a roadway, using the primary-direction video and mileage. Signs and Mile Markers are the only features collected using the opposite-direction video with mileage location referenced to the primary direction lane of the roadway.
- Route_GPS table contains GPS positional information collected by the ARAN and post processed with Applanix POSPac Land 5.0 post-processing software. No manual adjustments have occurred on this table.
- Modifications to the Park_ROAD_04.dbf/.shp/.shx files may have been necessary for report esthetics.
- Modifications to the Park_PKG_04. dbf/.shp/.shx files may have been necessary for report esthetics.
- Cycle 4 utilizes the Microsoft Office 2003 suite of products and Crystal Reports XI for document and data file generation and reporting.
- All PDF files are in Adobe Acrobat 7.0 Professional format.
- All ArcGIS files are created using ESRI Version 9.x software.
- Thumbnail images are created at 1/10 original image size for Right-of-Way and Pavement Images.
- FHWA is investigating the rutting methodology and calculated values it currently reports. Equipment limitations and analysis methods may be over reporting, low severity rutting.

Key to Notes in Tables

(1): Note that only one value fits in field, so even if this value varies throughout the route, only predominant value is recorded here.
(2): Shoulder width is measured at route start and every half-mile along the route in the primary direction. Width is the entire width of the drivable shoulder, regardless of the presence or absence of pavement, from the fog line to the shoulder hinge point, or if no fog line exists, from the edge of pavement to the hinge point. Identification of shoulder hinge point can be problematic using video analysis. Some paved ditches may be mistakenly recorded as shoulders where the shoulder hinge point and change in slope are not easily distinguished from the video.
(3): Mileage is measured by the ARAN (Automatic Road ANalyzer) data collection vehicle out to the 0.001 decimal place. The DMI (distance measuring instrument) is very accurate, with extremely slight variations in measurement due to air temperature, tire inflation, curves, hills, and equipment calibration.
(4): Features are measured differently depending on whether they are visible in the forward-facing video of the roadway, but every feature milepost measurement depends on the baseline measurement of the data collection vehicle's mileage. The ARAN (Automatic Road ANalyzer) data collection vehicle's mileage is measured by the DMI (distance measuring instrument) out to the 0.001 decimal place. The DMI is very accurate, with extremely slight variations in measurement due to air temperature, tire inflation, curves, hills, and equipment calibration. If a feature will not be visible in the forward-facing video, its milepost is determined by the data collectors' key press tagging the milepost when the ARAN passes the feature. Key presses are entered into the ARAN software when the vehicle travels typically between 15 and 45 miles/hour, so a delay of a single second as the vehicle passes a feature would result in an inaccuracy of 0.004 miles (22 feet) to 0.012 miles (66 feet). If a feature is visible in the video, its milepost is determined during post-processing using a video measurement software called Surveyor.
(5): Condition assessments on concrete (PCC) pavements are not conducted for Alligator Cracking, Transverse or Longitudinal Cracking, Patching, or Rutting. Perfect values for concrete road sections for these indexes are default values and do not represent a condition assessment of the concrete surfaces.
(6): Roadway cracking presence, type, severity, and extent are determined by filming the roadway in the primary lane continuously with two overlapping analog cameras of 640 x 480 resolutions. The images from both cameras are stitched together in real time to create a continuous strip image of the roadway pavement in the primary lane. Cracks 3 mm or greater in width are visible in this video. A semi-automatic process running the WiseCrax software with additional input by human operators provides the cracking quantities recorded in these database fields. Quality checks have determined that a consistent 80% or better of the visible cracks are recorded.

Access Database Metadata

MASTER Table Metadata:

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
1	RIP_CYCLE	XX	4, for data collection cycle 4	Route ID Meeting	FHWA Determination	100% Referenced to other tables
2	STATE	XX	State where route is located	Route ID Meeting	Park Input / FHWA Determination	100%, Referenced to other tables (1)
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	100%, Referenced to other tables
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	100%, Referenced to other tables
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Park Input / FHWA Classification	100%, Referenced to other tables
6	RTE_NAME	(Text)	Route name	Route ID Meeting	Park Input	100%, Referenced to other tables. 100 characters fit in field
7	FUNCT_CLASS	X	Route functional classification	Route ID Meeting	Park Input / FHWA Classification	100%, Referenced to other tables
8	DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input / FHWA Determination	100%,
9	BEG_MP_EST	999.999 (miles)	Estimated starting MP	Route ID Meeting	Park Input / FHWA Determination	Estimated before data collected
10	END_MP_EST	999.999 (miles)	Estimated ending MP	Route ID Meeting	Park Input / FHWA Determination	Estimated before data collected
11	RTE_LENGTH	999.999 (miles)	Collected route length	ARAN Data Collection	Automatic Output	100%
12	FROM_DESC	(Text)	Beginning terminus of route	Route ID Meeting	Park Input / FHWA Determination	100% Referenced to other tables
13	TO_DESC	(Text)	Ending terminus of route	Route ID Meeting	Park Input / FHWA Determination	100% Referenced to other tables
14	NO_LANES	X	Number of lanes in route	ARAN Data Collection	Survey Crew Input	Untested. (1)
15	SURF_TYPE	XX	Surface type of route	ARAN Data Collection	Survey Crew Input	100%, Referenced to other tables (1)
16	COMP_DIR	XX	Compass direction of route's primary lane (nearest cardinal direction)	Route ID Meeting	Park Input / FHWA Determination	Untested
17	COMMENTS	(Text)	Special information, if any	Contractor Post-processing	Contractor Input	Untested
18	FILENAME	(Text)	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
19	SECTION	(Text)	Route section ID	Route ID Meeting/ARAN Data Collection	Survey Crew Input/Automatic Output	100%

20	FKEY	9999999	Unique record ID	Contractor Post-processing	Database Processing	100%
21	DATE	MM/DD/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
22	BEG_MP	999.999 (miles)	Beginning MP collected	ARAN Data Collection	Automatic Output	100% (3)
23	END_MP	999.999 (miles)	Ending MP collected	ARAN Data Collection	Automatic Output	100% (3)

PMS_FEATURE Table Metadata:

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
1	RIP_CYCLE	XX	4, for data collection cycle 4	Route ID Meeting	FHWA Determination	100% Referenced to other tables
2	STATE	XX	State where route is located	Route ID Meeting	Park Input / FHWA Determination	Untested (1)
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	100% Referenced to other tables
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	100% Referenced to other tables
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Park Input / FHWA Classification	100% Referenced to other tables
6	FMSS_EQUIP	XXXXXXX	Facility Management Software System Equipment number	NPS FMSS application	NPS References	Untested
7	FUNCT_CLASS	X	Route functional class	Route ID Meeting	Park Input / FHWA Classification	100% Referenced to other tables
8	DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input / FHWA Determination	100%
9	MP	999.999 (miles)	Feature location along route	ARAN Data Collection/Contractor Post-processing	Video Analysis	<=0.001 mile
10	BEG_MP	999.999 (miles)	Feature Beginning location along route	Contractor Post-processing	Video Analysis	<=0.001 mile
11	END_MP	999.999 (miles)	Feature Ending location along route	Contractor Post-processing	Video Analysis	<=0.001 mile
12	FEATURE_LENGTH	999.99 (Feet)	Linear Feature Length	Contractor Post-processing	Database Processing	100%
13	EVENT	XXXX	Event category of feature	Contractor Post-processing	Video Analysis	Untested
14	EVENT_CODE	XXXX	Event sub-category of feature	Contractor Post-processing	Video Analysis	Untested
15	FEATURE_TYPE	(Text)	Feature designation: LINEAR or POINT	Contractor Post-processing	Video Analysis	Untested
16	EVENT_DESC	(Text)	Description of feature/contents of sign	Contractor Post-processing	Video Analysis	Untested
17	MUTCD	(Text)	MUTCD Code of Sign	Contractor Post-processing	Database Processing	95%
18	CONDITION	“N/A”	Sign condition. N/A. Not to be populated	Contractor Post-processing	Video Analysis	Values inaccurate, defaulted to “N/A”
19	COMMENT	(Text)	Sign label, intersecting route, etc.	Contractor Post-processing	Database Processing	Untested
20	OFFSET	“N/A”	Offset from Road Edge. N/A. Not to be populated	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to “N/A”

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
21	SIDE	(Text)	Side of route relative to lane driven	Contractor Post-processing	Video Analysis	95%
22	STR_NUMBER	(Text)	FHWA bridge structure number	FHWA Post-processing	Database Processing	Untested
23	BARR_MAT	(Text)	Barrier Material Type	Contractor Post-processing	Video Analysis	Untested
24	BARR_TYPE	(Text)	Barrier Type	Contractor Post-processing	Video Analysis	Untested
25	BARR_POST_MAT	(Text)	Barrier Post Materials	Contractor Post-processing	Video Analysis	Untested
26	BARR_BEG_TERM	(Text)	Barrier Approach Treatment	Contractor Post-processing	Video Analysis	Untested
27	BARR_END_TERM	(Text)	Barrier End Treatment	Contractor Post-processing	Video Analysis	Untested
28	CURB_MAT	(Text)	Curb Material Type	Contractor Post-processing	Video Analysis	Untested
29	PAVED_DITCH_MAT	(Text)	Paved Ditch Material Type	Contractor Post-processing	Video Analysis	Untested (2)
30	GATE_MAT	(Text)	Gate Material Type	Contractor Post-processing	Video Analysis	Untested
31	GATE_STYLE	(Text)	Gate Style	Contractor Post-processing	Video Analysis	Untested
32	BEG_GPS_LAT	999.999999	GPS Latitude Co-ordinate (decimal degrees)	Contractor Post-processing	Video Analysis	<= 3.00 feet
33	BEG_GPS_LON	-999.999999	GPS Longitude Co-ordinate (-decimal degrees)	Contractor Post-processing	Video Analysis	<= 3.00 feet
34	BEG_GPS_ELEV	99999.9	GPS Elevation Feet	Contractor Post-processing	Video Analysis	Untested
35	BEG_GPS_MODE	(Text)	GPS Satellite Mode	Contractor Post-processing	Video Analysis	Untested
36	END_GPS_LAT	999.999999	GPS Latitude Co-ordinate (decimal degrees)	Contractor Post-processing	Video Analysis	<= 3.00 feet
37	END_GPS_LON	-999.999999	GPS Longitude Co-ordinate (-decimal degrees)	Contractor Post-processing	Video Analysis	<= 3.00 feet
38	END_GPS_ELEV	99999.9	GPS Elevation Feet	Contractor Post-processing	Video Analysis	Untested
39	END_GPS_MODE	(Text)	GPS Satellite Mode	Contractor Post-processing	Video Analysis	Untested
40	DATUM	(Text)	LL_WGS84_DD	Contractor Post-processing	Database Processing	100%
41	VIDEO	<*Park*>C04VID<#>	Removable USB video hard drive number	Contractor Post-processing	Database Processing	Untested
42	IMAGE	(Text)	Filename of .jpg image showing feature	Contractor Post-processing	Automatic Output	Untested
43	DATE	MM/DD/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
44	FILENAME	(Text)	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
45	SECTION	(Text)	Route section ID	Route ID Meeting/ARAN Data Collection	Survey Crew Input/Automatic Output	100%
46	FKEY	(Numeric)	Unique record ID	Contractor Post-processing	Database Processing	100%
47	VISI_FROM	999999 (millimiles)	Raw MP of first video frame showing feature	Contractor Post-processing	Database Processing	Untested
48	VISI_TO	999999 (millimiles)	Raw MP of last video frame showing feature	Contractor Post-processing	Database Processing	Untested

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
49	IDKEY	(Text)	Unique record ID used by VisiData	Contractor Post-processing	Database Processing	Untested
50	MP_REF	(Text)	Range of mileage to play in VisiData	Contractor Post-processing	Database Processing	Untested

List of Roadway Features

#	EVENT	EVENT_CODE	FEATURE_TYPE	EVENT_DESC	STRUCTURE #	COLLECTED BY
1	BRIDGE	BRDG	LINEAR	BRIDGE	ALWAYS	ARAN
2	CATTLE GUARD	CGD	POINT	CATTLE GUARD	-	VIDEO RATING
3	CONSTRUCTION	CNST	LINEAR	CONSTRUCTION WORK ZONE	-	ARAN
4	CULVERT	CUL	POINT	CULVERT	SOMETIMES	ARAN
5	CURB	CRBL	LINEAR	CURB ON LEFT	-	VIDEO RATING
	""	CRBR	LINEAR	CURB ON RIGHT	-	VIDEO RATING
6	CURB-AND-GUTTER	CAGL	LINEAR	CURB-AND-GUTTER ON LEFT	-	VIDEO RATING
	""	CAGR	LINEAR	CURB-AND-GUTTER ON RIGHT	-	VIDEO RATING
7	DROP INLET	DINL	POINT	DROP INLET ON LEFT	-	ARAN
	""	DINR	POINT	DROP INLET ON RIGHT	-	ARAN
8	GATE	GATE	POINT	GATE	-	VIDEO RATING
9	FIRE HYDRANT	FHDL	POINT	FIRE HYDRANT ON LEFT	-	VIDEO RATING
	""	FHDR	POINT	FIRE HYDRANT ON RIGHT	-	VIDEO RATING
10	GUARD/GUIDE WALL	GGWL	LINEAR	GUARD/GUIDE WALL ON LEFT	-	VIDEO RATING
	""	GGWR	LINEAR	GUARD/GUIDE WALL ON RIGHT	-	VIDEO RATING
11	GUARD/GUIDE RAIL	GGRL	LINEAR	GUARD/GUIDE RAIL ON LEFT	-	VIDEO RATING
	""	GGRR	LINEAR	GUARD/GUIDE RAIL ON RIGHT	-	VIDEO RATING
12	INTERSECTION	INTL	POINT	INTERSECTION ON LEFT	-	ARAN
	""	INTR	POINT	INTERSECTION ON RIGHT	-	ARAN
	""	INTN	POINT	INTERSECTION SIDE N/A	-	ARAN

13	LANE DEVIATION	LADV	LINEAR	LANE DEVIATION	-	ARAN
14	LOW WATER CROSSING	LWCR	LINEAR	LOW WATER CROSSING	SOMETIMES	VIDEO RATING
15	MILE MARKER	MML	POINT	MILE MARKER ON LEFT	-	VIDEO RATING
	""	MMR	POINT	MILE MARKER ON RIGHT	-	VIDEO RATING
16	OVERPASS	OPV	POINT	OVERPASS VEHICULAR	SOMETIMES	ARAN
	""	OPP	POINT	OVERPASS PEDESTRIAN	SOMETIMES	ARAN
	""	OPRX	POINT	OVERPASS RAILROAD CROSSING	SOMETIMES	ARAN
17	PARK BOUNDARY	PRK	POINT	PARK BOUNDARY	-	ARAN
18	PAVED DITCH	PVDL	LINEAR	PAVED DITCH ON LEFT	-	VIDEO RATING
	""	PVDR	LINEAR	PAVED DITCH ON RIGHT	-	VIDEO RATING
19	PULLOUT	PLOL	LINEAR	PULLOUT ON LEFT	-	VIDEO RATING
	""	PLOR	LINEAR	PULLOUT ON RIGHT	-	VIDEO RATING
20	RAILROAD CROSSING	RRX	POINT	RAILROAD CROSSING	-	VIDEO RATING
21	RETAINING WALL	RTWL	LINEAR	RETAINING WALL ON LEFT	-	VIDEO RATING
	""	RTWR	LINEAR	RETAINING WALL ON RIGHT	-	VIDEO RATING
22	ROUTE BEGIN	RBEG	POINT	ROUTE BEGIN	-	ARAN
23	ROUTE END	REND	POINT	ROUTE END	-	ARAN
24	SIGN	REGU, WARN, GUID, UNKN	POINT	DOCUMENT CONTENTS OF SIGN. (WHAT THE SIGN SAYS) FOR GRAPHICS ONLY SIGNS POPULATED WITH ("GRAPHIC SIGN, NO TEXT") FOR UNREADABLE TEXT POPULATED WITH ("UNABLE TO READ FROM VIDEO")	-	VIDEO RATING
25	STATE BOUNDARY	STB	POINT	STATE BOUNDARY	-	ARAN
26	TRAFFIC LIGHT	TRF	POINT	TRAFFIC LIGHT	-	VIDEO RATING
27	TUNNEL	TUN	LINEAR	TUNNEL	ALWAYS	ARAN

PMS_20, PMS_MILE, & PMS_TENTH Tables Metadata:

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
1	RIP_CYCLE	XX	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	100% Referenced to other tables
2	STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested. (1)
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	100% Referenced to other tables
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	100% Referenced to other tables
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Park Input/FHWA Classification	100% Referenced to other tables
6	FUNCT_CLASS	X	Route functional class	Route ID Meeting	Park Input/FHWA Classification	100% Referenced to other tables
7	DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input/FHWA Determination	100%
8	BEG_MP	999.999 (miles)	MP at start of road interval described by database record	Contractor Post-processing	Database Processing	100% (3)
9	END_MP	999.999 (miles)	MP at end of road interval described by database record	Contractor Post-processing	Database Processing	100% (3)
10	INT_LENGTH	999.9 (ft)	Length of road interval as aggregated for data table	Contractor Post-processing	Database Processing	100%
11	RTE_LENGTH	999.999 (miles)	Collected route length	ARAN Data Collection	Automatic Output	100% (3)
12	NO_LANES	99	Number of lanes in route	ARAN Data Collection	Survey Crew Input	Untested. (1)
13	LANE_NO	99	Data collection lane	Contractor Post-processing	Database Processing	Untested
14	D_LANE_WIDTH	99.999 (ft)	WiseCrax (crack detection software) analysis width	Contractor Post-processing	Automatic Output	Untested
15	LANE_WIDTH	99.9 (ft)	Width of lane	Contractor Post-processing	Video Analysis	95%, <=1.0 foot
16	PAVE_WIDTH	99.9 (ft)	Full pavement width	Contractor Post-processing	Video Analysis	95%, <=1.0 foot
17	SHLD_WIDTH_L	99.9 (ft)	Left shoulder width	Contractor Post-processing	Video Analysis	95%, <=1.0 foot (2)
18	SHLD_WIDTH_R	99.9 (ft)	Right shoulder width	Contractor Post-processing	Video Analysis	95%, <=1.0 foot (2)
19	SHLD_COND_L	N/A	N/A. Intended to be Left shoulder condition	ARAN Data Collection	Survey Crew Input	Values inaccurate, defaulted to “N/A”
20	SHLD_COND_R	N/A	N/A. Intended to be Right shoulder condition	ARAN Data Collection	Survey Crew Input	Values inaccurate, defaulted to “N/A”
21	DRAIN_COND_L	N/A	N/A. Intended to be Left drainage condition	ARAN Data Collection	Survey Crew Input	Values inaccurate, defaulted to “N/A”
22	DRAIN_COND_R	N/A	N/A. Intended to be Right drainage condition	ARAN Data Collection	Survey Crew Input	Values inaccurate, defaulted to “N/A”

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
23	SURF_TYPE	XX	Surface type of route	ARAN Data Collection	Survey Crew Input	Untested. (1)
24	PCR	999	Pavement Condition Rating	Contractor Post-processing	Database Processing	100% for calculation (6)
25	RCI	999	Roughness Condition Index; -1 if invalid IRI	Contractor Post-processing	Database Processing	100% for calculation
26	SCR	999	Surface Condition Rating	Contractor Post-processing	Database Processing	100% for calculation (5) (6)
27	IRI_AVG	999.9 (inches/mile)	Average IRI	Contractor Post-processing	Database Processing	Untested
28	IRI_SD	999.9 (inches/mile)	IRI standard deviation	Contractor Post-processing	Database Processing	Untested
29	IRI_L	999.9 (inches/mile)	Left wheel path IRI	ARAN Data Collection	Automatic Output	Untested
30	IRI_R	999.9 (inches/mile)	Right wheel path IRI	ARAN Data Collection	Automatic Output	Untested
31	IRI_FLAG	0 or -1	-1 if invalid IRI data	Contractor Post-processing	Database Processing	Untested
32	RUT_INDEX	999	Rut index	Contractor Post-processing	Database Processing	100% for calculation (5)
33	RUT_AVG	99.99 (inches)	Average rut depth of both wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
34	RUT_MAX	99.99 (inches)	Maximum rut depth of both wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
35	RUT_SD	9.9	Rut depth standard deviation	Contractor Post-processing	Database Processing	Untested (5)
36	RUT_LOW	999 (%)	Percent of low severity ruts (on a 0-200% scale) in both wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
37	RUT_MED	999 (%)	Percent of medium severity ruts (on a 0-200% scale) in both wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
38	RUT_HI	999 (%)	Percent of high severity ruts (on a 0-200% scale) in both wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
39	XFALL	999.9 (% slope)	Cross fall at start of road interval	ARAN Data Collection	Automatic Output	Untested
40	GRADE	999.9 (% slope)	Grade at start of road interval	ARAN Data Collection	Automatic Output	Untested
41	AC_INDEX	999	Alligator cracking index	Contractor Post-processing	Database Processing	100% for calculation (5) (6)
42	AC_LOW	999.9999 (%)	Percent of WiseCrax measured lane area with low-severity alligator cracking	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
43	AC_MED	999.9999 (%)	Percent of WiseCrax measured lane area with medium-severity alligator cracking	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
44	AC_HI	999.9999 (%)	Percent of WiseCrax measured lane area with high-severity alligator	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
			cracking			
45	LC_INDEX	999	Longitudinal cracking index	Contractor Post-processing	Database Processing	100% for calculation (5) (6)
46	LC_LOW	999.99 (%)	Low-severity longitudinal cracking in lane as a percentage of road interval length	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
47	LC_MED	999.99 (%)	Medium-severity longitudinal cracking in lane as a percentage of road interval length	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
48	LC_HI	999.99 (%)	High-severity longitudinal cracking in lane as a percentage of road interval length	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
49	TC_INDEX	999	Transverse cracking index	Contractor Post-processing	Database Processing	100% for calculation (5) (6)
50	TC_LOW	999.99 (cracks)	Count of low-severity transverse cracks, where one crack unit equals the WiseCrax measured lane width	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
51	TC_MED	999.99 (cracks)	Count of medium-severity transverse cracks, where one crack unit equals the WiseCrax measured lane width	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
52	TC_HI	999.99 (cracks)	Count of high-severity transverse cracks, where one crack unit equals the WiseCrax measured lane width	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
53	PATCH_INDEX	999	Patching index	Contractor Post-processing	Database Processing	100% for calculation (5) (6)
54	PATCHING	999.9999 (%)	Percent of WiseCrax measured lane area affected by patching	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
55	GPS_LAT	999.999999	Latitude coordinate	ARAN Data Collection	Automatic Output	<= 3.00 feet
56	GPS_LON	-999.999999	Longitude coordinate	ARAN Data Collection	Automatic Output	<= 3.00 feet
57	GPS_ELEV	99999.9	Elevation	ARAN Data Collection	Automatic Output	Untested
58	GPS_MODE	XXX	GPS Satellite Mode during collection	ARAN Data Collection	Automatic Output	Untested
59	DATUM	(Text)	LL_WGS84_DD	ARAN Data Collection	Database Processing	100%
60	VIDEO	<*Park*>C04VID<#>	Removable USB video hard	Contractor Post-processing	Database Processing	Untested

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
			drive number			
61	IMAGE	(Text)	Filename of .jpg image showing road interval	Contractor Post-processing	Automatic Output	Untested
62	SPEED	999 (miles/hour)	Average ARAN speed during data collection	ARAN Data Collection	Automatic Output	Untested
63	BRIDGE_FLAG	0 or 1	Flag indicating presence of bridge in interval	ARAN Data Collection	Survey Crew Input	Untested
64	CONSTR_FLAG	0 or 1	Flag indicating construction in interval	ARAN Data Collection	Survey Crew Input	Untested
65	LANEDEV_FLAG	0 or 1	Flag indicating lane deviation in interval	ARAN Data Collection	Survey Crew Input	Untested
66	DATE	MM/DD/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
67	NODISTRESS	0 OR 1	Flag indicating absence of pavement distress	Contractor Post-processing	Database Processing	100%
68	FILENAME	(Text)	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
69	SECTION	(Text)	Route section ID	Route ID Meeting/ARAN Data Collection	Survey Crew Input/Automatic Output	100%
70	FKEY	(Numeric)	Unique record ID	Contractor Post-processing	Database Processing	100%
71	CONTRACTOR1	(Numeric)	Raw MP of first video frame in section	Contractor Post-processing	Database Processing	Untested
72	CONTRACTOR2	(Numeric)	Raw MP of last video frame in section	Contractor Post-processing	Database Processing	Untested
73	CONTRACTOR3	(Text)	Unique record ID used by VisiData	Contractor Post-processing	Database Processing	Untested
74	CONTRACTOR4	(Text)	Range of mileage to play in VisiData	Contractor Post-processing	Database Processing	Untested

ROUTE_GPS table metadata:

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
1	RIP_CYCLE	XX	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	100% referenced to other tables
2	STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	100% Referenced to other tables
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	100% Referenced to other tables
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Park Input/FHWA Classification	100% Referenced to other tables
6	FUNCT_CLASS	X	Route functional classification	Route ID Meeting	Park Input/FHWA Classification	100% Referenced to other tables
7	RTE_NAME	(Text)	Route name	Route ID Meeting	Park Input	100% Referenced to other tables . 100 characters fit in field
8	LANE_NUMBER	99	Data collection lane	Contractor Post-processing	Database Processing	Untested
9	DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input/FHWA Determination	Untested
10	MP	999.999	Mile Post (at 0.01 record)	ARAN Data Collection, Contractor Post-processing	Survey Crew Input/GPS Processing	Untested (3)
11	GPS_LAT	999.999999	GPS Latitude Co-ordinate (decimal degrees)	ARAN Data Collection, Contractor Post-processing	Automatic Output	<= 3.00 feet
12	GPS_LON	-999.999999	GPS Longitude Co-ordinate (-decimal degrees)	ARAN Data Collection, Contractor Post-processing	Automatic Output	<= 3.00 feet
13	GPS_ELEV	99999.9	Elevation	ARAN Data Collection, Contractor Post-processing	Automatic Output	Untested
14	GPS_MODE	XXX	GPS Satellite Mode during collection	ARAN Data Collection, Contractor Post-processing	Automatic Output	Untested
15	XFALL	999.9	Cross Fall: % Slope at GPS Location (Caution, Data not Validated)	ARAN Data Collection, Contractor Post-processing	Automatic Output	Untested
16	GRADE	999.9	Grade: % Slope at GPS Location (Caution, Data not Validated)	ARAN Data Collection, Contractor Post-processing	Automatic Output	Untested
17	HEADING	999.9	Heading Relative to True North	ARAN Data Collection	Automatic Output	Untested
18	DATUM	(Text)	LL_WGS84_DD	ARAN Data Collection	Database Processing	Untested
19	FILENAME	(Text)	Filename of raw data files	ARAN Data Collection	Automatic Output	Untested
20	FKEY	9999999	Unique record ID	Contractor Post-processing	Database Processing	Untested

21	DATE	MM/DD/YY	ARAN Data Collection Date	ARAN Data Collection	Automatic Output	Untested
22	COMMENT	(Text)	Source of Any Digitized Data	ARAN Data Collection	Database Processing	Untested
23	CONTRACTOR1	(Numeric)	Visi_from	Contractor Post-processing	Database Processing	Untested
24	CONTRACTOR2	(Numeric)	Visi_to	Contractor Post-processing	Database Processing	Untested
25	CONTRACTOR3	(Text)	Visi_dir (ipdated to chapter 1)	Contractor Post-processing	Database Processing	Untested
26	CONTRACTOR4	(Text)	Comments/exceptions	Contractor Post-processing	Database Processing	Untested

FHWA "Route ID Program" Database
Database Name: ROUTEINFO.mdb
Table Name: ROUTE_ID

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
1	ROUTE_IDENT	XXXX-9999XXX	The Park's Alpha Code + "-" + RTE_NO (below).	Route ID Meeting	Automatic Output	100%, Reference source for all tables
2	RIP_CYCLE	99	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	100%, Reference source for all tables
3	PARK_ALPHA	XXXX	Park Alpha Code	Route ID Meeting	NPS References	100%, Reference source for all tables
4	GROUP_ALPHA	XXXX	Group Alpha Code	Route ID Meeting	NPS References	100%, Reference source for all tables
5	PARK_NO	9999	Park Numeric Code	Route ID Meeting	NPS References	100%, Reference source for all tables
6	PARK_NAME	(text)	NPS Name of Park	Route ID Meeting	NPS References	100%, Reference source for all tables
7	RTE_NO	9999XXX	Route Number	Route ID Meeting	Park Input	100%, Reference source for all tables
8	RTE_NAME	(Text)	Route Name	Route ID Meeting	Park Input	100%, Reference source for all tables
9	FROM_DESC	(Text)	Beginning terminus of route	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
10	TO_DESC	(Text)	Ending terminus of route	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
11	INSP_DATE	MM/DD/YYYY	Collection Date	ARAN Data Collection	FHWA Determination	100%, Reference source for all tables
12	FUNCT_CLASS	XX	Functional Class	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
13	STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested (1)
14	STATE2	XX	Additional State Park Route traverses	Route ID Meeting	Park Input/FHWA Determination	Untested (1)
15	FMSS_NO	(Text)	NPS's Facility Management Software System (FMSS) Asset number	Route ID Meeting	Park Input	100%, Reference source for all tables
16	FMSS_SUR_EQP	(Text)	FMSS Surface Equipment Number	Route ID Meeting	Park Input	Untested
17	M_DISTRICT	(Text)	Park Maintenance District Route resides in	Route ID Meeting	Park Input	100%, Reference source for all tables (1)
18	TOPOGRAPHY	(Text)	Predominate Terrain condition for	Route ID Meeting	FHWA Determination	100%, Reference source for all

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
			Route. (FLAT, ROLLING, MOUNTAINOUS, or URBAN)			tables (1)
19	POSTED_SPEED	99	Posted Speed Limit for Route (Value is Predominate Speed Limit along Route)	Route ID Meeting	Park Input/FHWA Determination	Untested (1)
20	ARAN_ROUTE	XXX	Yes/No	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
21	PARKING_AREA	XXX	Yes/No	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
22	CONCESSION	XXX	Yes/No	Route ID Meeting	Park Input	100%, Reference source for all tables
23	PAVED_MI	999.999	Paved mileage (to the nearest 0.001)	ARAN Data Collection	Automatic Output	100%, Reference source for all tables
24	UNPAVED_MI	999.999	Unpaved mileage (to the nearest 0.001)	Route ID Meeting	Automatic Output	100%, Reference source for all tables
25	RTE_LENGTH	999.999	Official Route Length	Contractor Post-processing	Automatic Output	100%, Reference source for all tables
26	SURF_TYPE	XX	Surface type (PAVED: AS (asphalt, includes composite), CO (concrete), BR (brick/pavers), CB (cobblestone), OT (other))	Route ID Meeting	Survey Crew Input	100%, Reference source for all tables (1)
27	UNPAVED	XXXX	Unpaved Route (Yes/No/Both)	Route ID Meeting	Automatic Output	100%, Reference source for all tables
28	UNPAVED_CAT	XXX	Unpaved Road Category	Route ID Meeting	Automatic Output	Untested
29	CURB	(Text)	Parking Area with Curb around perimeter.	Route ID Meeting	Park Input/FHWA Determination	Untested
30	CURB_GUTTER	(Text)	Parking Area with Curb and Gutter around perimeter.	Route ID Meeting	Park Input/FHWA Determination	Untested
31	ADJ_ROUTE	9999XXX	Route number	Route ID Meeting	Automatic Output	100%, Reference source for all tables
32	USER_ACCESS	(Text)	Access Designation for Parking	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
33	PHOTO_NO	(Text)	Photo or Image	Route ID Meeting	Survey Crew Input	100%, Reference source for all tables
34	PLOT_SIZE	(Text)	Unpaved Parking Area Size	Route ID Meeting	Automatic Output	100%, Reference source for all tables
35	SQ_FEET	999.999	Route Square Footage	Contractor Post-processing	Automatic Output	100%, Reference source for all tables
36	M_RATING	(Text)	Manual Rating	Route ID Meeting	Automatic Output	100%, Reference source for all tables

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
37	SQ_YARDS	999.999	Route Square Yardage	Contractor Post-processing	Automatic Output	100%, Reference source for all tables
38	LANES	XX	Route travel lanes	Route ID Meeting	Automatic Output	Untested (1)
39	PAVE_WIDTH	999.99	Pavement Width (Weighted average)	RIP Post-processing	Automatic Output	100% Referenced to other tables
40	LANE_MILES	999.999	Route Equivalent Lane Miles	RIP Post-processing	Automatic Output	100%, Reference source for all tables
41	AREA_MAP	(Text)	1 or 2-digit number	Contractor Post-processing	FHWA/Contractor Input	100%, Reference source for all tables
42	REMARKS	(Memo)	General remarks on Park route and data collection operations.	Contractor Post-processing	FHWA/Contractor Input	Untested
43	SUMMARY_REC	XXXX-9999XXX	ROUTE_IDENT of summary Park Asset	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
44	NPS_REGION	(Text)	Park Region	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
45	DIVISION	(Text)	FHWA Division	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
46	PCR	999.99	Route Weighted Average PCR value	RIP Post-processing	Automatic Output	100% Referenced to other tables
47	SCR	999.99	Route Weighted Average SCR value	RIP Post-processing	Automatic Output	100% Referenced to other tables
48	AADT	999	Average Adjusted Daily Traffic	RIP	Automatic Output	Untested
49	SADT	999	Seasonal Adjusted Daily Traffic	RIP	Automatic Output	Untested
50	ADT_DATE	MM/DD/YYYY	Traffic Date of Collection	RIP	Automatic Output	Untested
51	BEG_LAT	999.999999	Route Begin GPS Latitude Co-ordinate (decimal degrees)	ARAN Data Collection	Automatic Output	<= 3.00 feet, Referenced from other tables
52	BEG_LON	-999.999999	Route Begin GPS Longitude Co-ordinate (-decimal degrees)	ARAN Data Collection	Automatic Output	<= 3.00 feet, Referenced from other tables
53	BEG_ELEV	99999.9	Route Begin Elevation	ARAN Data Collection	Automatic Output	100% Referenced to other tables
54	BEG_MODE	XXX	Route Begin GPS Satellite Mode during collection	ARAN Data Collection	Automatic Output	100% Referenced to other tables
55	END_LAT	999.999999	Route End GPS Latitude Co-ordinate (decimal degrees)	ARAN Data Collection	Automatic Output	<= 3.00 feet, Referenced from other tables

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
56	END_LON	-999.999999	Route End GPS Longitude Co-ordinate (-decimal degrees)	ARAN Data Collection	Automatic Output	<= 3.00 feet, Referenced from other tables
57	END_ELEV	99999.9	Route End Elevation	ARAN Data Collection	Automatic Output	100% Referenced to other tables
58	END_MODE	XXX	Route End GPS Satellite Mode during collection	ARAN Data Collection	Automatic Output	100% Referenced to other tables
59	DATUM	(Text)	LL_WGS84_DD	ARAN Data Collection	Automatic Output	100% Referenced to other tables
60	CHILD_ROUTE	XXX	Yes/No	Route ID Meeting	Automatic Output	100% Reference source for all tables
61	CULVERT_CNT	999	Route Culvert Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
62	DROP_INLET_CNT	999	Route Drop Inlet Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
63	GATE_CNT	999	Route Gate Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
64	TRAFLIGHT_CNT	999	Route Traffic Light Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
65	SIGN_CNT	999	Route Sign Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
66	LWCROSS_CNT	999	Route Low Water Crossing Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
67	BRIDGE_CNT	999	Route Bridge Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
68	TUNNEL_CNT	999	Route Tunnel Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
69	PULLOUT_CNT	999	Route Pullout Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
70	INTERSEC_CNT	999	Route Intersection Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
71	ST_BNDRY_CNT	999	Route State Boundary Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
72	PRK_BNDRY_CNT	999	Route Park Boundary Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
73	RETWALL_CNT	999	Route Retaining Wall Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
74	RR_CROSS_CNT	999	Route RR Crossing Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
75	CATTLE_CNT	999	Route Cattle Guard Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
76	OVHDSIGN_CNT	999	Route Overhead Sign Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
77	MILEMARK_CNT	999	Route Mile Marker Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
78	FHYD_CNT	999	Route Fire Hydrant Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
79	OVERPASS_CNT	999	Route Overpass Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
80	CABLE_TLNG	9999.999 (ft)	Route Total Length Cable Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
81	GDRAIL_TLNG	9999.999 (ft)	Route Total Length Guard/Guide Rail Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
82	GDWALL_TLNG	9999.999 (ft)	Route Total Length Guard/Guide Wall Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
83	TEMP_BARR_TLNG	9999.999 (ft)	Route Total Length Temporary Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
84	BOLLARD_TLNG	9999.999 (ft)	Route Total Length Bollard Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
85	BARRIER_TLNG	9999.999 (ft)	Route Total Length All Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
86	CURB_TLNG	9999.999 (ft)	Route Total Length Curbing (excludes Parking Areas)	RIP Post-processing	Automatic Output	100% Referenced to other tables
87	LWCROSS_TLNG	9999.999 (ft)	Route Total Length Low Water Crossings	RIP Post-processing	Automatic Output	100% Referenced to other tables
88	PAVDITCH_TLNG	9999.999 (ft)	Route Total Length Paved Ditch	RIP Post-processing	Automatic Output	100% Referenced to other tables (2)
89	TURNOUT_TLNG	9999.999 (ft)	Route Total Length Turnouts	RIP Post-processing	Automatic Output	100% Referenced to other tables
90	LANE_NUMBER	99	Number of Lane Tested	RIP Post-processing	Automatic Output	100% Referenced to other tables
91	LOCAL_FACTOR	9.9999	Park Location Factor	NPS Partner	Automatic Output	100% Reference source for all tables
92	E_ZONE	XXX	Route Environmental Zone	FHWA HPMA	Automatic Output	100% Reference source for all tables
93	PAVEMENT_DM	$99,999,999.99	Pavement Deferred Maintenance	FHWA HPMA	Automatic Output	100% Reference source for all tables
94	CRV	$99,999,999.99	Current Replacement Value	RIP Post-processing	Automatic Output	100% Reference source for all tables

Database Name: ROUTEINFO.mdb
Table Name: PARK_TOTALS

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
1	RIP_CYCLE	99	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	100% Referenced to other tables
2	PARK_ALPHA	XXXX	Park Alpha Code	Route ID Meeting	FHWA Determination	100% Referenced to other tables
3	GROUP_ALPHA	XXXX	Group Alpha Code	Route ID Meeting	NPS References	100% Referenced to other tables
4	PARK_NO	9999	Park Numeric Code	Route ID Meeting	NPS References	100% Referenced to other tables
5	PARK_NAME	XXXX	NPS Name of Park	Route ID Meeting	NPS References	100% Referenced to other tables
6	INSP_DATE	MM/DD/YYYY	Date that data was collected in the park (completion date).	Route ID Meeting and ARAN Data Collection	FHWA Determination	100% Referenced to other tables
7	NPS_REGION	XXXX	Park Region	Route ID Meeting	Park Input	100% Referenced to other tables
8	DIVISION	XXXX	FHWA Division	Route ID Meeting	FHWA Determination	100% Referenced to other tables
9	T_PAVED_MI	999.999	Total Park Paved Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
10	T_UNPAVED_MI	999.999	Total Park Unpaved Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
11	T_ROUTE_MILES	999.999	Total Park Route Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
12	T_ARAN_DRIVEN	999.999	Total Park ARAN Driven Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
13	T_ARAN_LMILES	999.999	Total Park ARAN Lane Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
14	T_CONCESS_PAVED	999.999	Total Park Concession Paved Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
15	T_CONCESS_UNPAVED	999.999	Total Park Concession Unpaved Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
16	T_PRK_PAVEDSQFT	999.999	Total Park Parking Paved Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables
17	T_PRK_UNPAVEDSQFT	999.999	Total Park Parking Unpaved Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables
18	T_CPRK_PAVEDSQFT	999.999	Total Park Concession Parking Paved Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
19	T_CPRK_UNPAVEDSQFT	999.999	Total Park Concession Parking Unpaved Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables
20	T_PARKING_SQFT	999.999	Total Park Parking Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables
21	T_PARKING_LMILES	999.999	Total Park Parking Equivalent Lane Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
22	T_MRR_SQFT	999.999	Total Park Manually Rated Road Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables
23	T_CMRR_SQFT	999.999	Total Park Concession Manually Rated Road Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables
24	T_MRR_LMILES	999.999	Total Park Manually Rated Road Equivalent Lane Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
25	T_LMILES	999.999	Total Park Lane Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
26	T_CULVERT_CNT	999	Total Park Culvert Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
27	T_DROP_INLET_CNT	999	Total Park Drop Inlet Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
28	T_GATE_CNT	999	Total Park Gate Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
29	T_TRAFLIGHT_CNT	999	Total Park Traffic light Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
30	T_SIGN_CNT	999	Total Park Sign Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
31	T_LWCROSS_CNT	999	Total Park Low Water Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
32	T_BRIDGE_CNT	999	Total Park Bridge Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
33	T_TUNNEL_CNT	999	Total Park Tunnel Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
34	T_PULLOUT_CNT	999	Total Park Pullout Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
35	T_INTERSEC_CNT	999	Total Park Intersections Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
36	T_ST_BNDRY_CNT	999	Total Park State Boundaries Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
37	T_PRK_BNDRY_CNT	999	Total Park Boundaries Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
38	T_RETWALL_CNT	999	Total Park Retaining Wall Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
39	T_RR_CROSS_CNT	999	Total Park RR Crossing Count	RIP Post-processing	Automatic Output	100% Referenced to other

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
						tables
40	T_CATTLE_CNT	999	Total Park Cattle Guard Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
41	T_OVHDSIGN_CNT	999	Total Park Overhead Sign Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
42	T_MILEMARK_CNT	999	Total Park Mile Marker Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
43	T_FHYD_CNT	999	Total Park Fire Hydrant Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
44	T_OVERPASS_CNT	999	Total Park Overpass Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
45	T_CABLE_TLNG	9999.999 (ft)	Total Length Park Cable Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
46	T_GDRAIL_TLNG	9999.999 (ft)	Total Length Park Guard/Guide Rail Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
47	T_GDWALL_TLNG	9999.999 (ft)	Total Length Park Guard/Guide Wall Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
48	T_TEMP_BARR_TLNG	9999.999 (ft)	Total Length Park Temporary Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
49	T_BOLLARD_TLNG	9999.999 (ft)	Total Length Park Bollard Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
50	T_BARRIER_TLNG	9999.999 (ft)	Total Length All Park Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
51	T_CURB_TLNG	9999.999 (ft)	Total Length Park Curbing	RIP Post-processing	Automatic Output	100% Referenced to other tables
52	T_LWCROSS_TLNG	9999.999 (ft)	Total Length Park Low Water Crossings	RIP Post-processing	Automatic Output	100% Referenced to other tables
53	T_PAVDITCH_TLNG	9999.999 (ft)	Total Length Park Paved Ditches	RIP Post-processing	Automatic Output	100% Referenced to other tables (2)
54	T_TURNOUT_TLNG	9999.999 (ft)	Total Length Park Turnouts	RIP Post-processing	Automatic Output	100% Referenced to other tables
55	PARK_PCR	99.99	Overall Park PCR Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
56	PARK_RCI	99.99	Overall Park RCI Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
57	PARK_SCR	99.99	Overall Park SCR Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
58	PARK_RUT_INDEX	99.99	Overall Park Rutting Index Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
59	PARK_AC_INDEX	99.99	Overall Park Alligator Cracking Index Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
60	PARK_LC_INDEX	99.99	Overall Park Longitudinal Cracking Index Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
61	PARK_TC_INDEX	99.99	Overall Park Transverse Cracking Index Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
62	PARK_PATCH_INDEX	99.99	Overall Park Patching Index Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
63	PARK_CONC_PCR	99.99	Overall Park Concession PCR Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables

Business Practices for Route Numbering and Roadway Asset Identification

Introduction and Background:
Beginning in November 2006, inventory and condition information gathered by the Federal Highway Administration (FHWA) has been stored in FMSS to enable NPS to report Deferred Maintenance (DM) and Current Replacement Value (CRV) for NPS paved roads, paved parking areas, bridges, and tunnels. The NPS Roads Working Group (RWG) has been tasked with developing and implementing the procedures necessary to transfer DM and CRV from FHWA's databases to NPS' Facility Management Software System (FMSS).

Current business practices for roadway definition in national parks involve face-to-face meetings between FHWA personnel and individual park staff known as "Route ID" meetings. These meetings have been ongoing for several years and have been performed within the context of the Road Inventory Program (RIP) executed mainly by FHWA. The primary focus of these meetings has been on defining roadway static information such as route names, numbers, functional class, etc. The FHWA personnel are the primary individuals responsible for implementing the RIP and the route ID meetings are an integral and fundamental part of that process. The RIP process provides route numbers for each individual road and parking area in each park. After the route ID meetings establish a given park's roadway asset base, various types of condition and inventory data are collected either manually or with a data collection van that drives each individual road with an individual route number.

The FMSS requires asset numbers as unique identifiers for all asset types including roadways. **The current practice is that all roadways that are assigned a route number at route ID, also are defined as assets and therefore also receive an FMSS asset number** (Route names and functional classes are also collaboratively assigned during the face-to-face route ID meetings). This practice began midway through the third RIP data collection cycle (ending in 2003) and was further reinforced during an asset alignment process conducted in the summer of 2006. The alignment process ensured that each route number in RIP and each asset number in FMSS were matched to the correct road and parking area.

Issue Statement:
As a result of various pre-existing business practices associated with the RIP, which predates FMSS by several years, route numbers are assigned for routes that are often very small. In tandem with the current business practice that all routes with route numbers are considered assets, this has caused a proliferation of asset numbers within FMSS. Over the past year, the RWG has learned that this business practice has significantly increased time and resources that parks must dedicate to administering FMSS data entry and management. This additional work effort is due to the fact that tying FMSS asset records to the more detailed, granular RIP route numbers has generated numerous new assets that require additional database and work order management. This has led to a situation where assets are not being defined the way they are managed.

The following proposed practices seek to create an asset definition process that is dictated by to how road assets are managed at the park level, not according to the pre-existing practices used in RIP for collecting detailed road information. RIP practices assign route numbers mainly based on how data are collected and driven with a data collection device. These procedures will disassociate the driving of roads with the data collection van from the process of assigning them asset status. **The end goal is to only assign asset numbers based on how parks manage their facilities within guidelines set up within FMSS and herein.** Driving the road with the data collection van allows for the collection of higher quality data as well as the ability to view road segments with video viewing software (Visidata). By de-linking driving the roads with the assignment of "asset status", we are able to get the best quality data without the proliferation of assets that has serious negative ramifications for managing roadways in parks using asset management tools.

Proposed Actions:

1. Make a distinction within the route number field in the RIP database between those route numbers that represent assets, those that are subcomponents of assets and those that are groups of sub-components. The route number field in the RIP database will be expanded from 6 to 7 characters. The additional character will denote the asset status of the route in question. Combined routes will be designated with a double "zz", while subcomponents will be designated with one "z". Whenever possible, a combined route should use the lowest route number to be combined as the combined route number.
2. Only show assets, whether a group of subcomponents or a single component, on the Route ID report. Assets that are composed of subcomponents will have "zz" in the route number. Individual routes will have no additional characters in the route number. Subcomponents (designated in RIP with a "z") will not be listed on the route ID report. Only assign asset numbers to those routes listed on the route ID report.
3. Provide a separate reporting function (other than the Route ID report) to identify and display information for route numbers not representing assets. Specific reporting requirements and format TBD.
4. Add a new field to the RIP database to indicate the "asset status" of a route number. The flag will have three possible values:
    a. Asset with no subcomponents.
    b. Asset with subcomponents.
    c. Non-asset (i.e. subcomponent).

    Both a change in the route number and a new "asset ID" field in the RIP database are recommended. It is easier to perform queries and other database manipulations using a separate field instead of a character within the route number field. The character in the route number field allows for rapid identification of the asset status of a road without having to access the database as a whole. Even thought non-asset routes will not be included in the route ID report (the primary location for parks to view road information in RIP), there are many other reports as well as the Visidata application where the route number is

displayed. In these cases, the character in the route number will clearly identify the asset status of the roadway.

5. Focus asset definition practices on NPS asset management needs. Create roadway assets based on how parks manage these assets within the following guidelines:
    a. Individual road segments (asset subcomponents) may be combined into a single asset**. Note that all the attributes of individual subcomponents (paved area, equipment, work orders, etc) will be included in the combined asset.**
    b. In general, combination should be used in complex circulatory environments such as campground areas, housing and other administrative areas, maintenance areas, etc.
    c. Public and non-public segments may not be combined.
    d. Segments with differing functional classes may not be combined.
    e. Discrete parking areas may be combined into a single asset where they service the same facility or resource and are within walking distance of each other.
    f. Parking areas and roads may not be combined. This includes short road segments that may be near or adjacent to parking areas. See 5h below for exceptions to this.
    g. Where the primary purpose of a road is to provide access to a parking area, and that road segment is approximately 0.25 miles in length or shorter, the access road should be considered part of the parking area (Note that this is an existing RIP business practice).
    h. Particularly long routes may be divided into multiple assets based on how a park manages the roadway network. This should not be confused with the use of sub-components listed in 5a.
    i. Roads that are actively managed by concession operations may not be combined with those managed by the NPS.

Discussion:
The first four items listed above are actions required by FHWA RIP to allow for the adoption of the practices shown in 5a-i. The following will provide additional direction and examples for guidelines listed.

<u>Individual road segments (asset subcomponents) may be combined into a single asset.</u>
Where previous route ID practices have generated more assets (routes) than are practical from an asset management standpoint, small, discrete road lengths may be designated as asset subcomponents and then combined into a larger single asset. A subcomponent is NOT an FMSS term. Subcomponents will be used in RIP to indicate which routes are small, drivable individual road segments and which routes may include these segments. Once a piece of road is designated a subcomponent of another route, it will no longer have any individual identity in FMSS. Only those routes listed on the RIP Route ID report will have asset numbers in FMSS. As stated in business rule 2 above, subcomponents will not be listed on the route ID. The quantity information (length, area) will be included into the larger route of which they are a part. See Figures 1 and 2 for an example of how existing assets may be combined using subcomponents. Note that

subcomponents will have an identity in the RIP database and, if driven by RIP team, may be referenced in RIP reports, Visidata, or other RIP documentation.

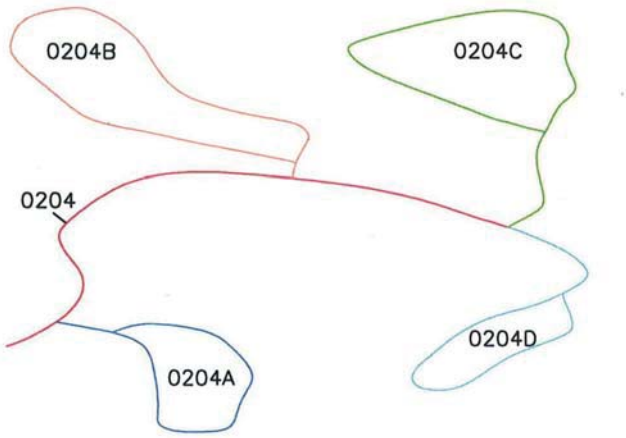

Figure 1: Campground with five routes and five assets

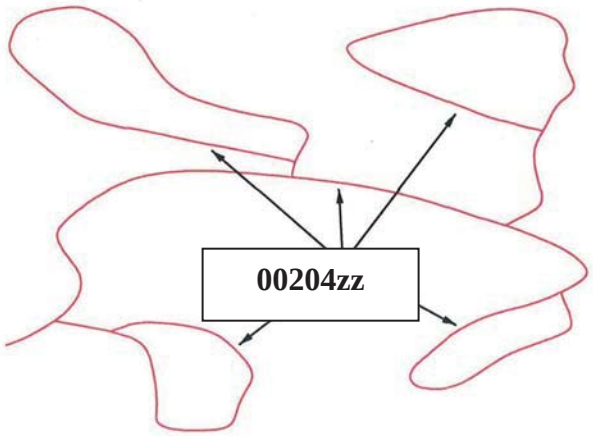

Figure 2: Campground with all loops combined into one route and one asset. This has eliminated four assets.

In general, combination should occur in complex circulatory environments such as campground areas, housing and other administrative areas, maintenance areas, etc.

Typically these complex situations are where too many assets have been used to define roadways. Combining simple "point A to point B" roads that are clearly defined and provide access to different facilities or locations may not be done.

Public and non-public segments may not be combined. Roads that are posted as closed to the public or are intended as administrative access only (maintenance areas, housing areas, fire roads, etc) can not be combined with roads open to the public.

Segments with differing functional classes may not be combined. The roadway functional class is found on the Route ID report. Functional class indicates the type of circulatory function a given road provides. Functional class is used in a variety of applications (engineering, safety, funding) so it is important to maintain the correct functional class attributes of individual roads/assets. There are some cases where functional class was erroneously assigned in prior Route ID meetings such as where campground loops have a different functional class than the campground road. Functional classes of individual roads may be modified to correct discrepancies. The functional class definitions may not be modified.

Discrete parking areas may be combined into a single asset where they service the same facility or resource and are within walking distance of each other. These combined areas should be maintained as one asset. There are many instances where small (5-10 space), discrete parking areas have been separated into individual assets even though they provide parking for the same area or facility. These may be combined into a single asset. Figures 3 and 4 shows examples of combining parking areas.

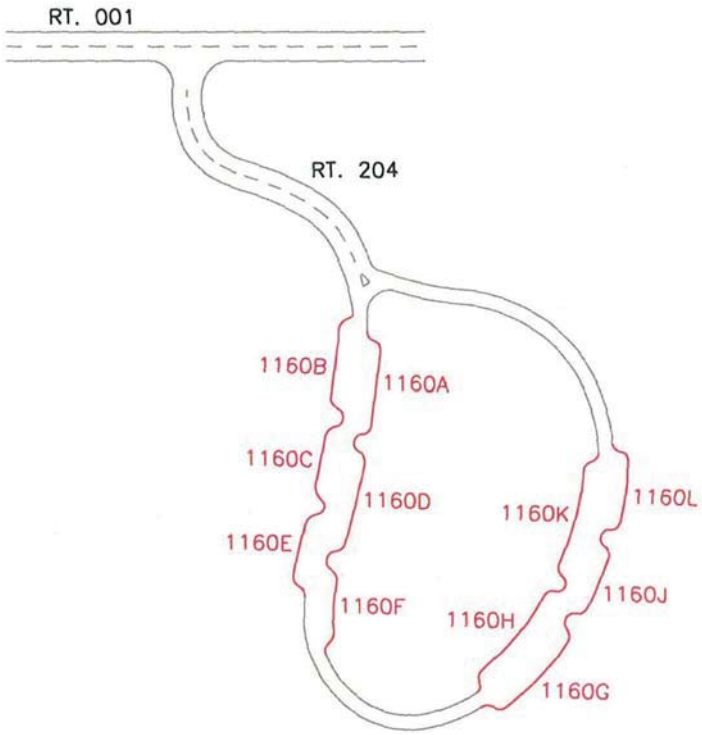

Figure 3: Parking with access route 204 and multiple parking areas (1160 A-L). Currently, this parking area is 12 routes and 12 assets (one 1100 asset and 11 1300 assets).

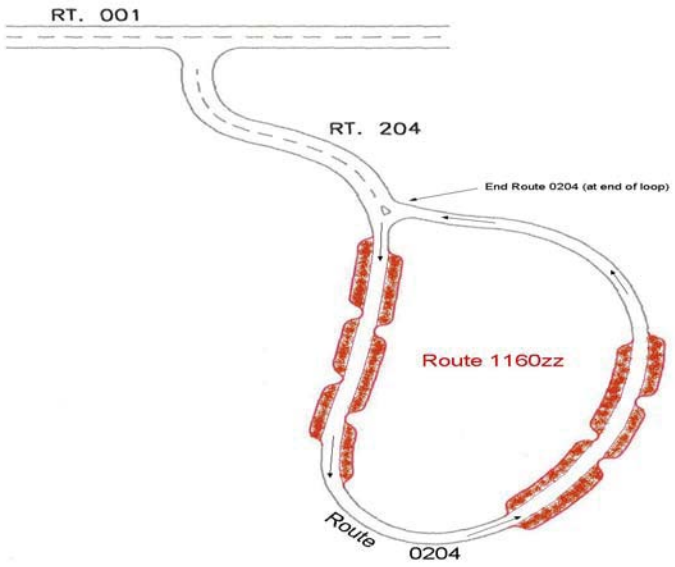

Figure 4: Parking with access route 204 and one parking area 1160zz. Route 204 is assumed longer than 0.25 miles. There are now 2 assets (one 1100 asset, one 1300 asset) instead of 12.

Parking areas and roads may not be combined. Parking areas and roads are tracked as separate asset types (1300 vs. 1100) in FMSS and as such should not be combined except in situations described by 5g. In Figure 5, Route 207 is a spur road from the main route running through parking area 1102. Since the spur road continues through and beyond the parking area, it will remain a separate route.

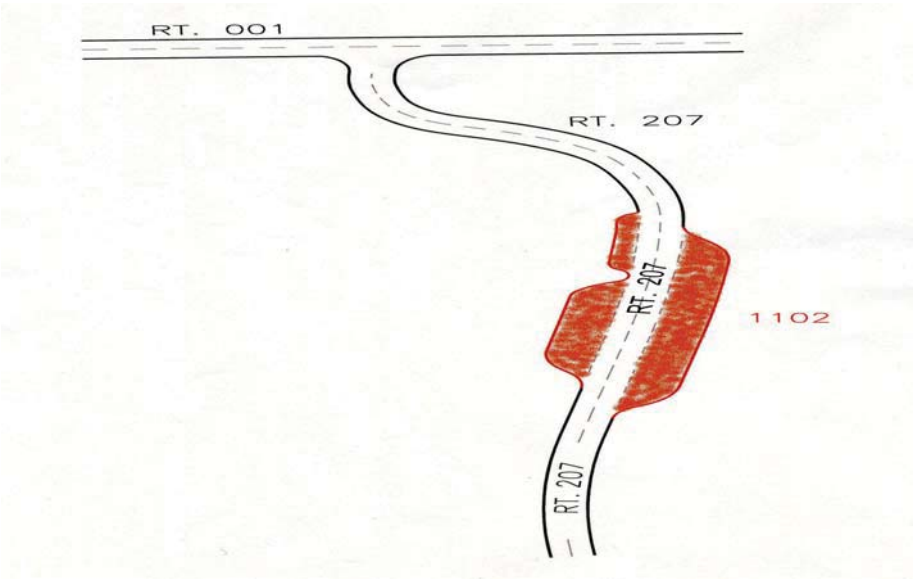

Figure 5: Parking with access route 207 running through and continuing beyond parking 1102. This access route cannot be considered a part of the parking area and two routes and two assets continue to exist.

Where the primary purpose of a road is to provide access to a parking area, and that road segment is less than 0.25 miles in length, the access road should be considered part of the parking area. See Figures 8. Where a road continues on past a parking area to another facility or destination, even if it is less than 0.25 miles to the initial parking area, the road and parking area may not be combined.

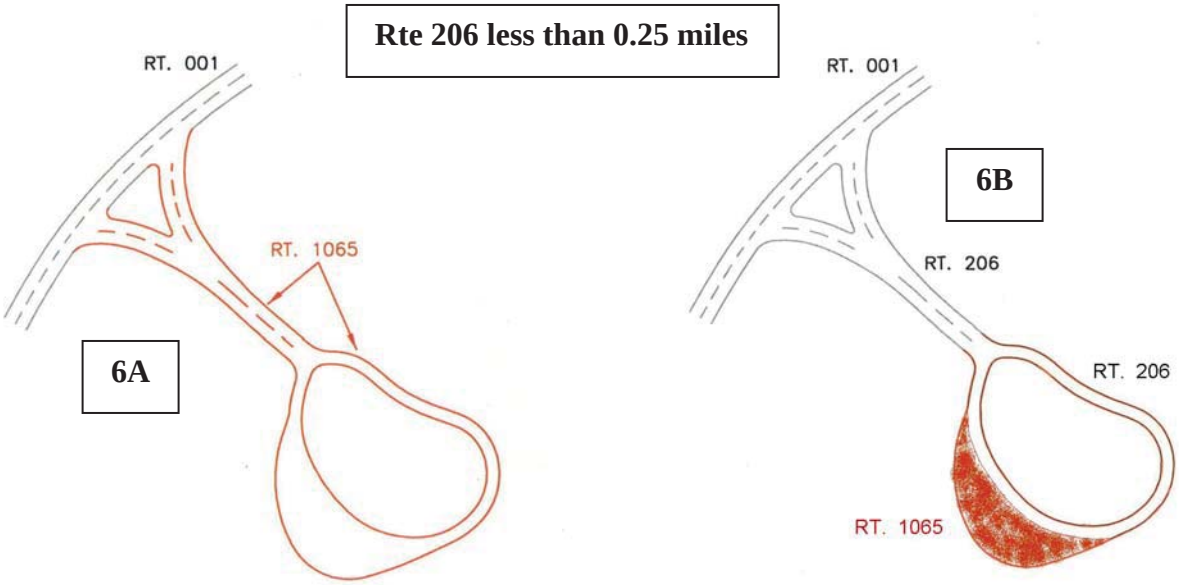

Figure 6: Since the access route is less than .25 miles in length and the only use of the access is to the parking, one route for both the access and the parking area can be established.

Particularly long routes may be divided into multiple assets based on how a park manages the roadway network. This should not be confused with the use of sub-components listed in 5a. Routes like the Blue Ridge Parkway or the Yellowstone Grand Loop may not lend themselves to management as a single asset by virtue of their length. Often management districts are created for sections of these routes and maintenance activities occur primarily within these districts. Parks may break routes up into separate assets during the Route ID process if the road is managed as discrete sections. This should only be done for very long roads.

The following example illustrates a complex road system and how the proposed business practice and several of the guidelines could be applied to create fewer assets that are consistent with local management.

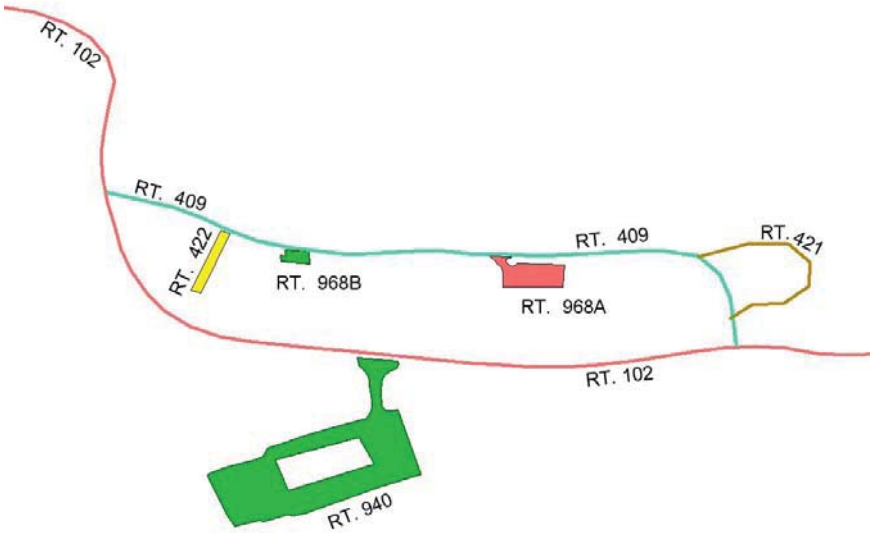

Figure 7 – Current Housing area access configuration. Route 409 is less than 0.25 miles long.

The area serviced by Routes 409, 421, 422, 968A, and 968B is all employee housing. Route 940 provides access to visitor services and not to the housing area. Routes may be combined to create assets that reflect local management. Routes 409, 421, and 422 are all the same functional class, provide access to one type of activity (housing) and are all posted as non-public. These routes may be combined. They should not be combined with any parking areas even though they are all less than 0.25 miles long. This is because their main function is not to provide access to parking. Routes 968A and B provide parking for access to the same facility (housing). Even though these discrete areas may provide parking to different housing units, it's reasonable to manage them as a single asset. They may also be combined.

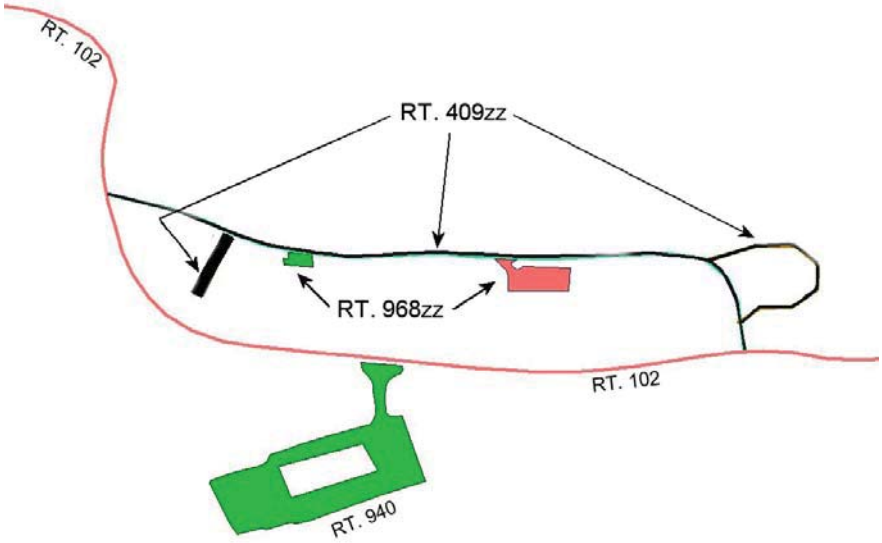

Figure 8 – Combined housing area access configuration – Parking and road assets combined to eliminate 3 assets.