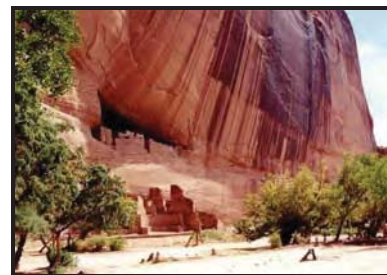




# The Road Inventory of Canyon de Chelly National Monument CACH - 7390



**national park service**



## Road Inventory Program

Prepared By:  
Federal Highway Administration  
Eastern Federal Lands Highway Division  
Cycle 3



# Canyon de Chelly National Monument in Arizona





## TABLE OF CONTENTS

<b><u>SECTION</u></b>	<b><u>PAGE</u></b>
<b>1. INTRODUCTION</b>	<b>1 - 1</b>
<b>2. PARK SUMMARY INFORMATION</b>	
National Park Summaries	2 - 1
Cost to Improve Based on Historical and Estimated Data	2 - 2
Paved Route Miles and Percentages by Functional Class and PCR	2 - 3
<b>3. PARK SUMMARY MAPS</b>	
Route Location Key Map	3 - 1
Route Condition Key Map – PCR Mile by Mile	3 - 5
<b>4. PARK ROUTE INVENTORY</b>	
Route Identification Lists (Numeric and Alphabetic)	4 - 1
<b>5. PAVED ROUTE CONDITION RATING SHEETS</b>	<b>5 - 1</b>
<b>6. MANUALLY RATED PAVED ROUTE CONDITION RATING SHEETS</b>	<b>6 - 1</b>
<b>7. PARKING LOT CONDITION RATING SHEETS</b>	<b>7 - 1</b>
Paved parking Areas	
<b>8. PARKWIDE / ROUTE MAINTENANCE FEATURES SUMMARY</b>	<b>8 - 1</b>
<b>9. PARK ROUTE MAINTENANCE FEATURES ROAD LOG</b>	<b>9 - 1</b>
<b>10. APPENDIX</b>	
A. Glossary of Terms and Abbreviations	10 - 1
B. Description of Rating System	10 - 3
C. Digital Image Information	10 - 7
D. Metadata	10 - 8

## INTRODUCTION

**Background:** In July 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 and short-range costs and programs to bring National Park Service (NPS) roads up to, or to maintain, designated standards, and to 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 re-established in the 1990's. The FLH completed two cycles of RIP data collection between 1994 and 2001. Cycle 1 data was collected in 44 large parks from 1994 to 1995. 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."

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 21<sup>st</sup> 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 the 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 3:** A third RIP cycle was initiated in 2001. Data was collected from March 2001 to July 2004, and is included in the Cycle 3 Reports. Cycle 3 includes 254 large and small parks with a combined total of 5,455 route miles.

In the Cycle 3 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 of 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.

FHWA RIP Coordinator:

James A. Amenta  
FHWA/EFLHD  
Technical Services, HTS-15  
21400 Ridgetop Circle  
Sterling, VA 20166  
(703) 404-6366

# Canyon de Chelly National Monument Summaries

## Overall Park Mileage Summary

<b>PARK TOTAL SUMMARY ITEMS</b>	<b>TOTAL</b>	<b>DATE</b>
Paved ARAN Driven Route Miles	23.89	2/22/2003
Unpaved Estimated Route Miles	43.00	2/22/2003
Paved ARAN and Unpaved Route Miles	66.89	
Paved ARAN Driven Lane Miles	47.78	2/22/2003
Paved MRR Lane Miles	1.52	2/22/2003
Parking Lot Lane Miles	6.83	2/22/2003
Total Paved Lane Miles	56.12	

Notes: Total Paved Lane Miles includes the sum of Paved ARAN Driven Lane Miles, Paved MRR Lane Miles, and Parking Lot Lane Miles

Unpaved Route Miles are estimates, they have not been inventoried by the Roadway Inventory Program (RIP)

## Canyon de Chelly National Monument Summaries

### Cost to Improve to "Excellent" Condition

SOURCE	WORK PERFORMED	COST PER MILE	INITIAL CONDITION
FHWA Awarded Projects	Surface Maintenance	\$30,000	Excellent
FHWA Awarded Projects	3-R (Resurfacing)	\$110,000	Good
FHWA Awarded Projects	3-R (Resurfacing, Restoration, and Rehabilitation) Projects	\$560,000	Fair
FHWA Awarded Projects	4-R (Resurfacing, Restoration, Rehabilitation, and Reconstruction) Projects	\$1,540,000	Poor

Based on the above table, the cost to improve ARAN driven paved road condition miles to "Excellent" PCR are:

Existing Condition	Existing Miles	Estimated Cost to Improve
Excellent	0.26	\$7,800
Good	0.64	\$70,400
Fair	8.70	\$4,872,000
Poor	14.29	\$22,006,600
<b>Totals</b>	<b>23.89</b>	<b>\$26,956,800</b>

The above numbers include the 35% PE, CE and contingency costs and are national averages. The cost estimates were used in the calculations for the 2004 Reauthorization Bill to determine the level of funding required to bring all the NPS roads into a Pavement Condition Rating (PCR) of Good (85).

These numbers are for preliminary planning purposes only and should not be used for project level proposals. For park planning level analysis, apply your park multiplier for more accurate regional costs.

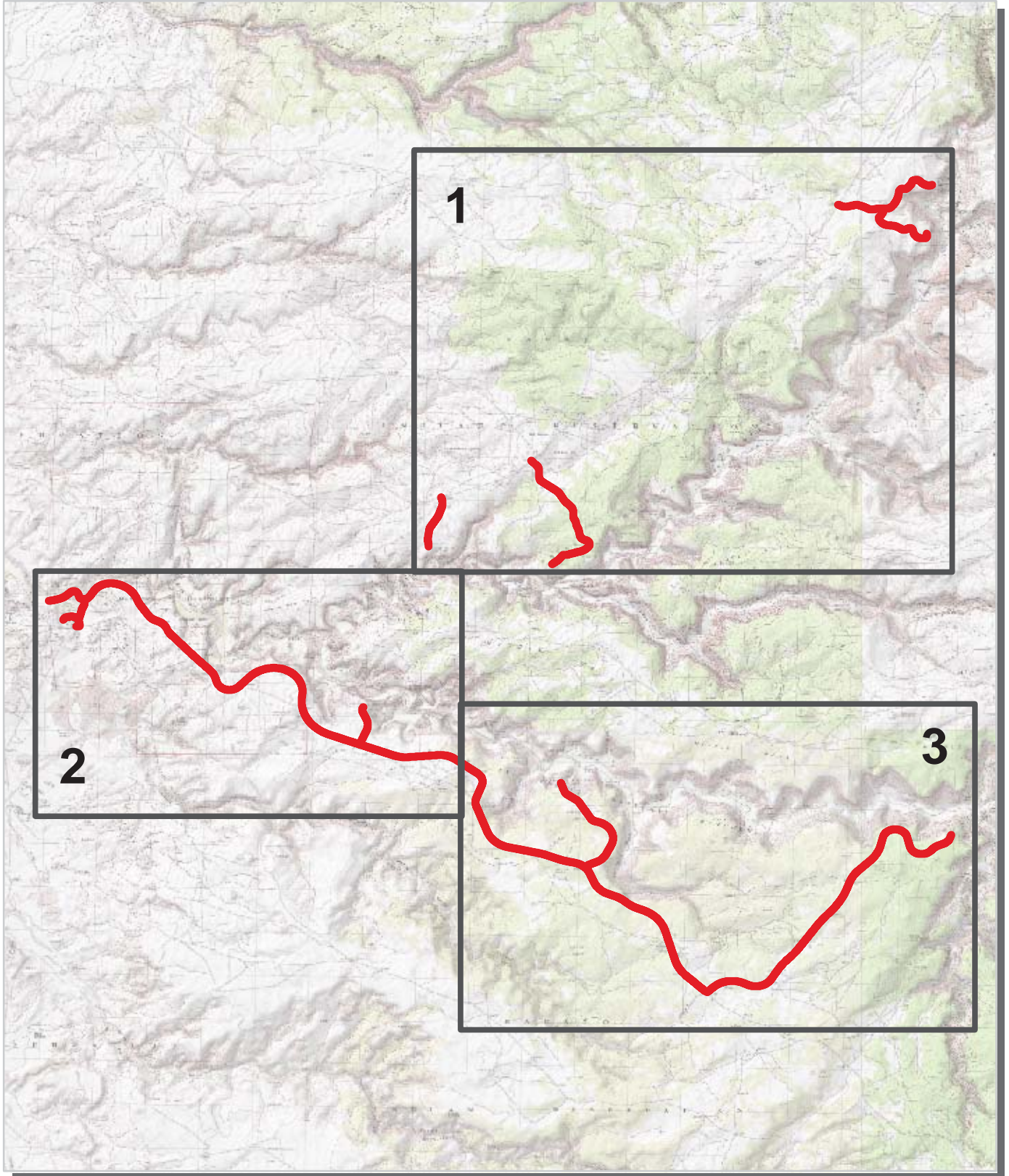
## Canyon de Chelly National Monument Summaries

### Paved Route Miles and Percentages by Functional Class and PCR for ARAN Driven Paved Roads

F.C.	Pavement Condition Rating								TOTAL MILES
	Poor (<=60)		Fair (61-84)		Good (85-94)		Excellent (95-100)		
	MILES	%	MILES	%	MILES	%	MILES	%	
1	8.04	33.65%	2.88	12.06%	0.26	1.09%	0.22	0.92%	11.40
2	6.18	25.87%	5.76	24.11%	0.38	1.59%	0.04	0.17%	12.36
3									
4									
5	0.07	0.29%	0.06	0.25%					0.13
6									
7									
8									
<b>Totals</b>	<b>14.29</b>	<b>59.82%</b>	<b>8.70</b>	<b>36.42%</b>	<b>0.64</b>	<b>2.68%</b>	<b>0.26</b>	<b>1.09%</b>	<b>23.89</b>



# Canyon de Chelly National Monument Route Location Key Map

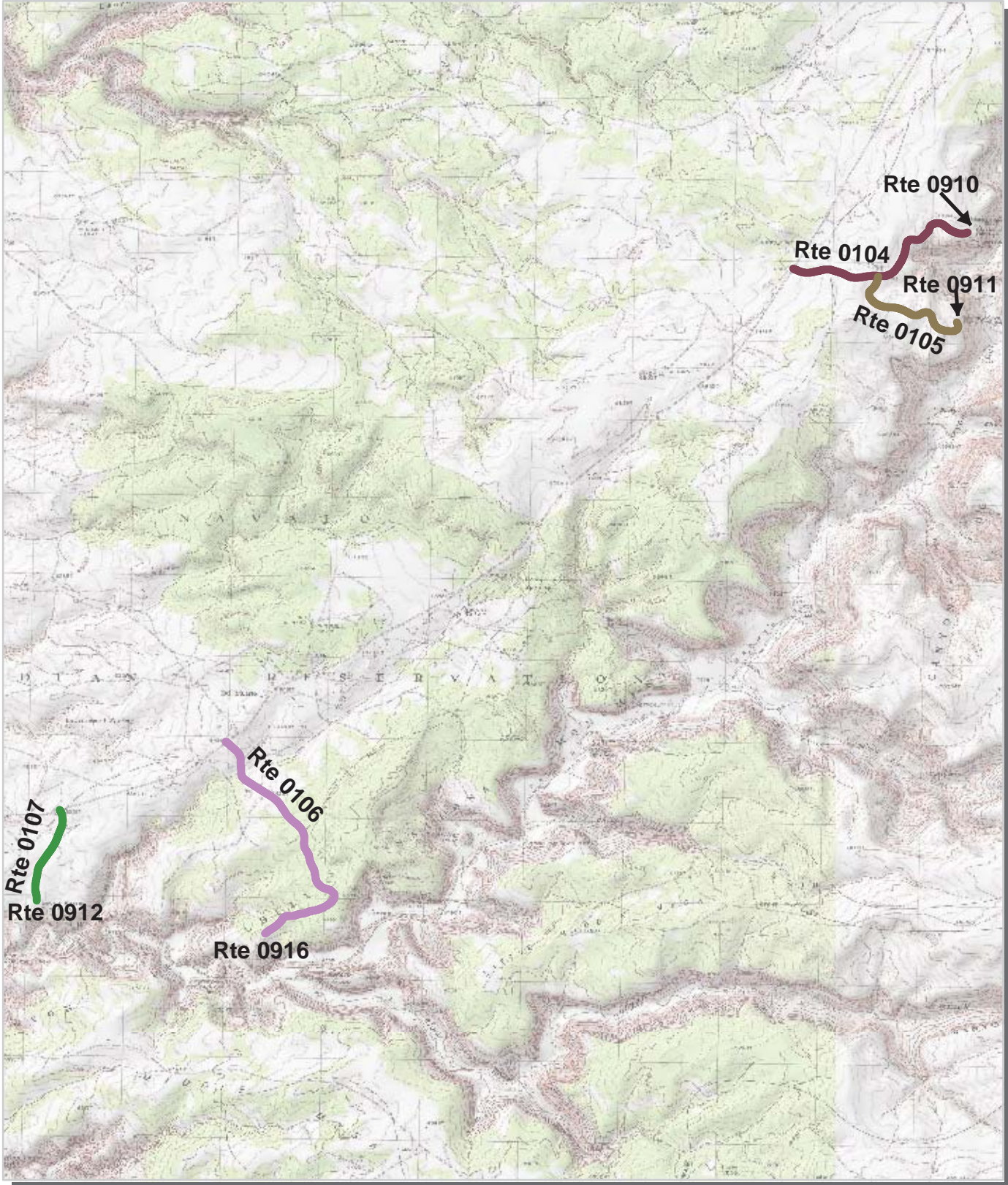


 Park Owned Routes





# Canyon de Chelly National Monument Route Location Area Map 1

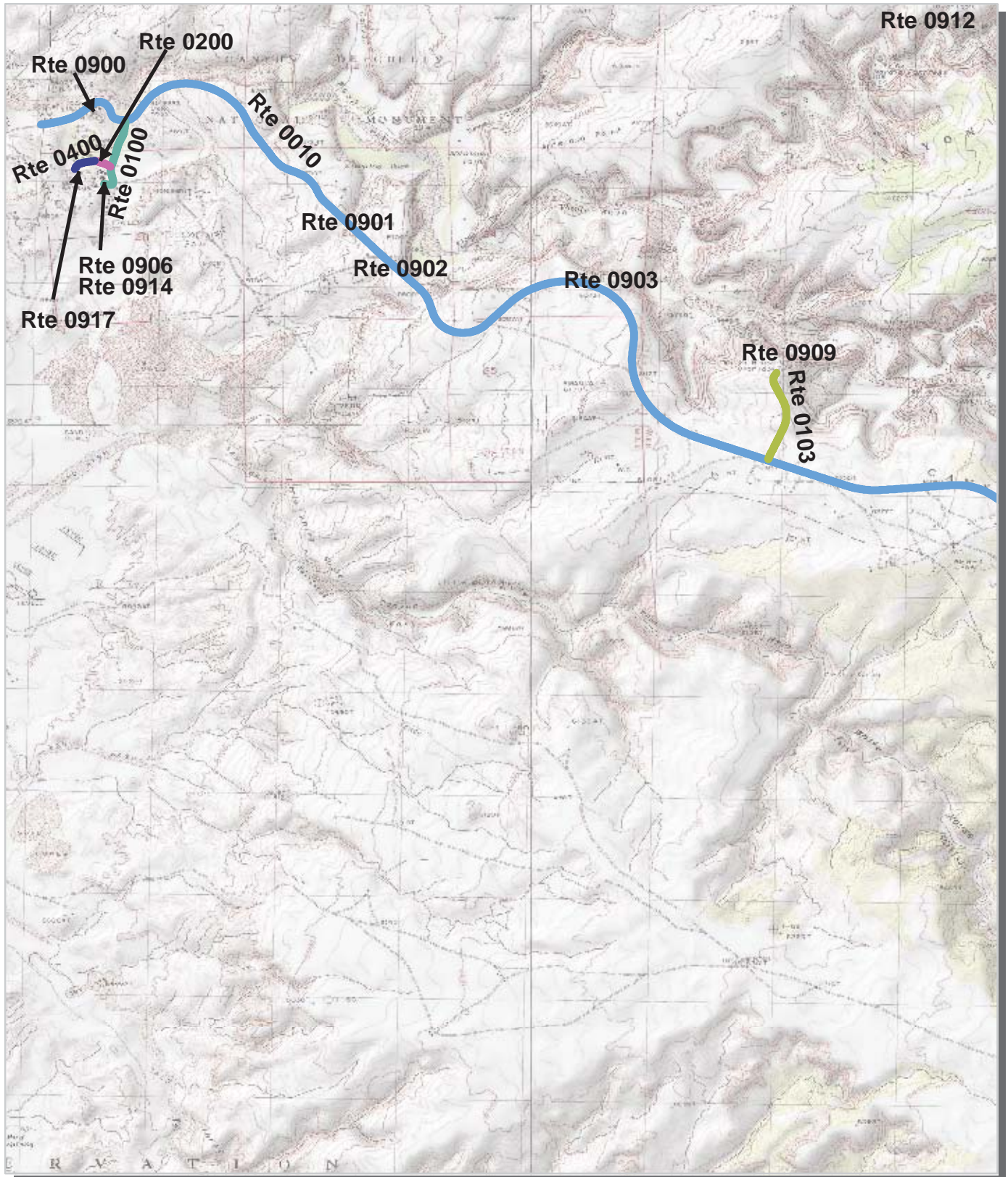


Unique colors used to differentiate routes





# Canyon de Chelly National Monument Route Location Area Map 2

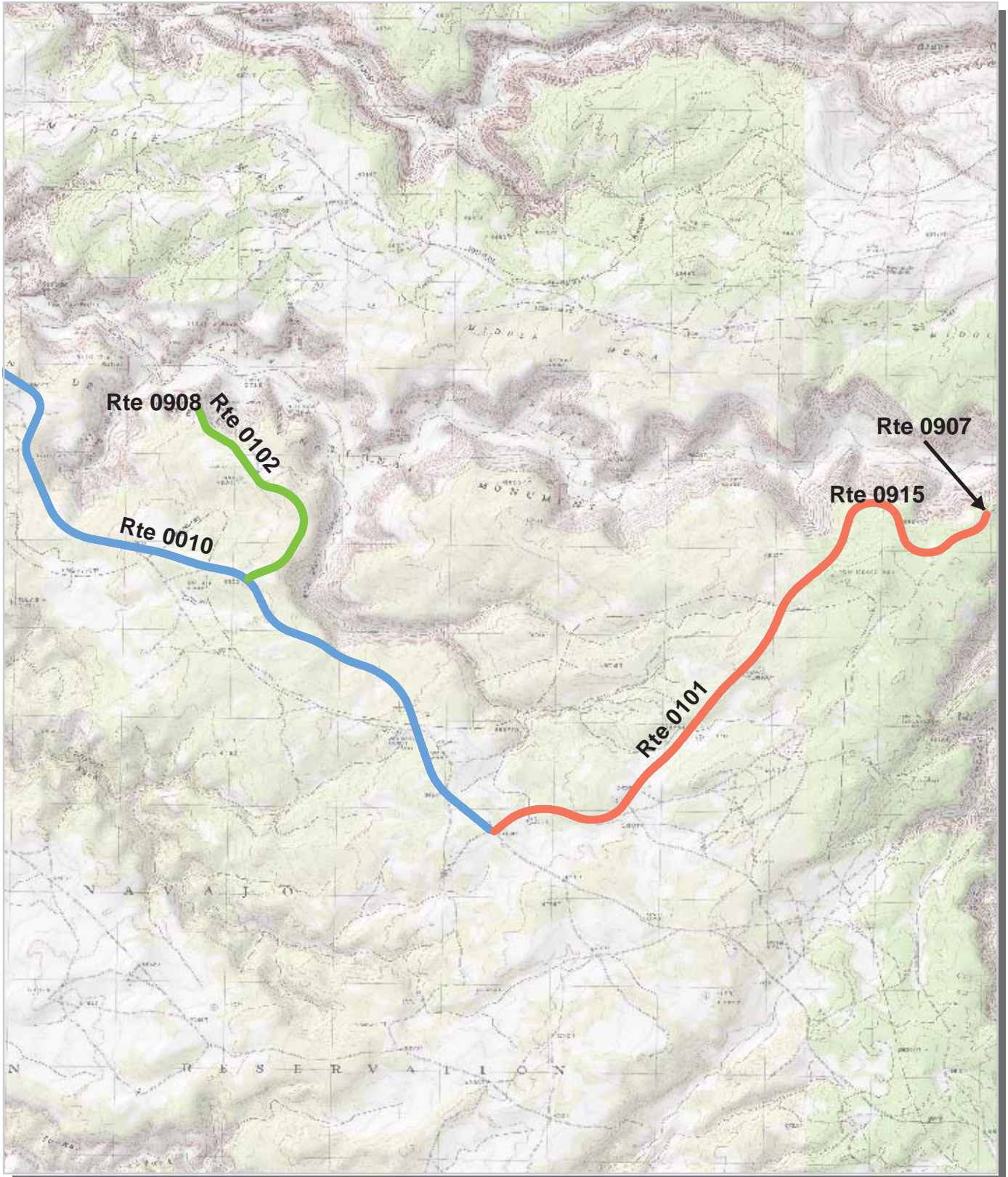


Unique colors used to differentiate routes





# Canyon de Chelly National Monument Route Location Area Map 3



Unique colors used to differentiate routes

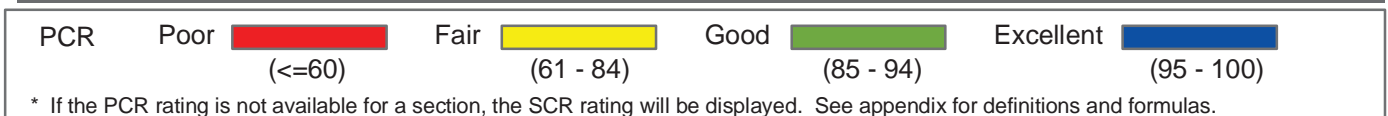
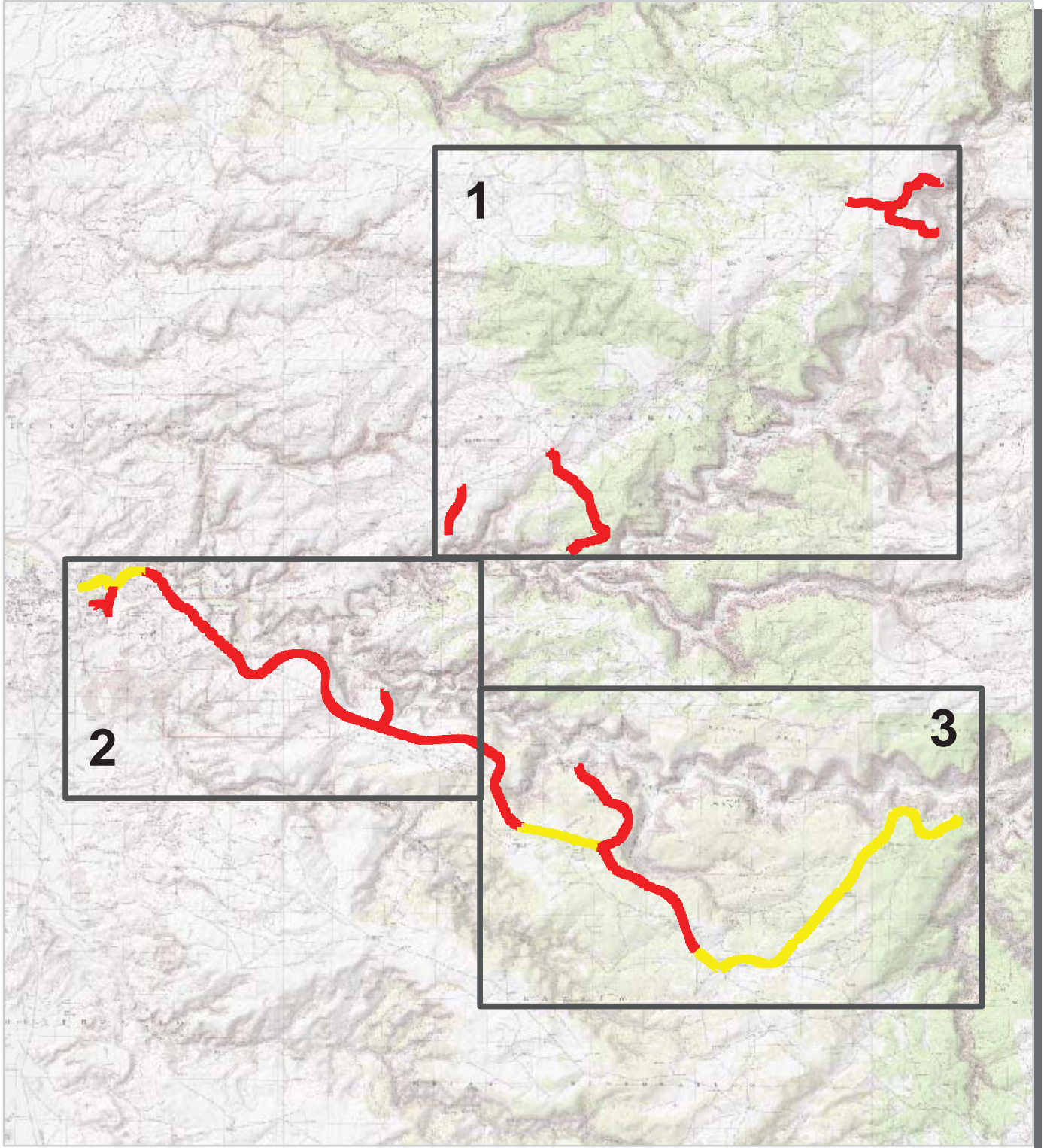




# Canyon de Chelly National Monument

## Route Condition Key Map

### PCR - Mile by Mile

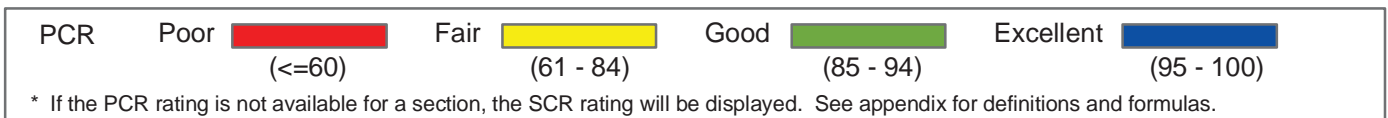
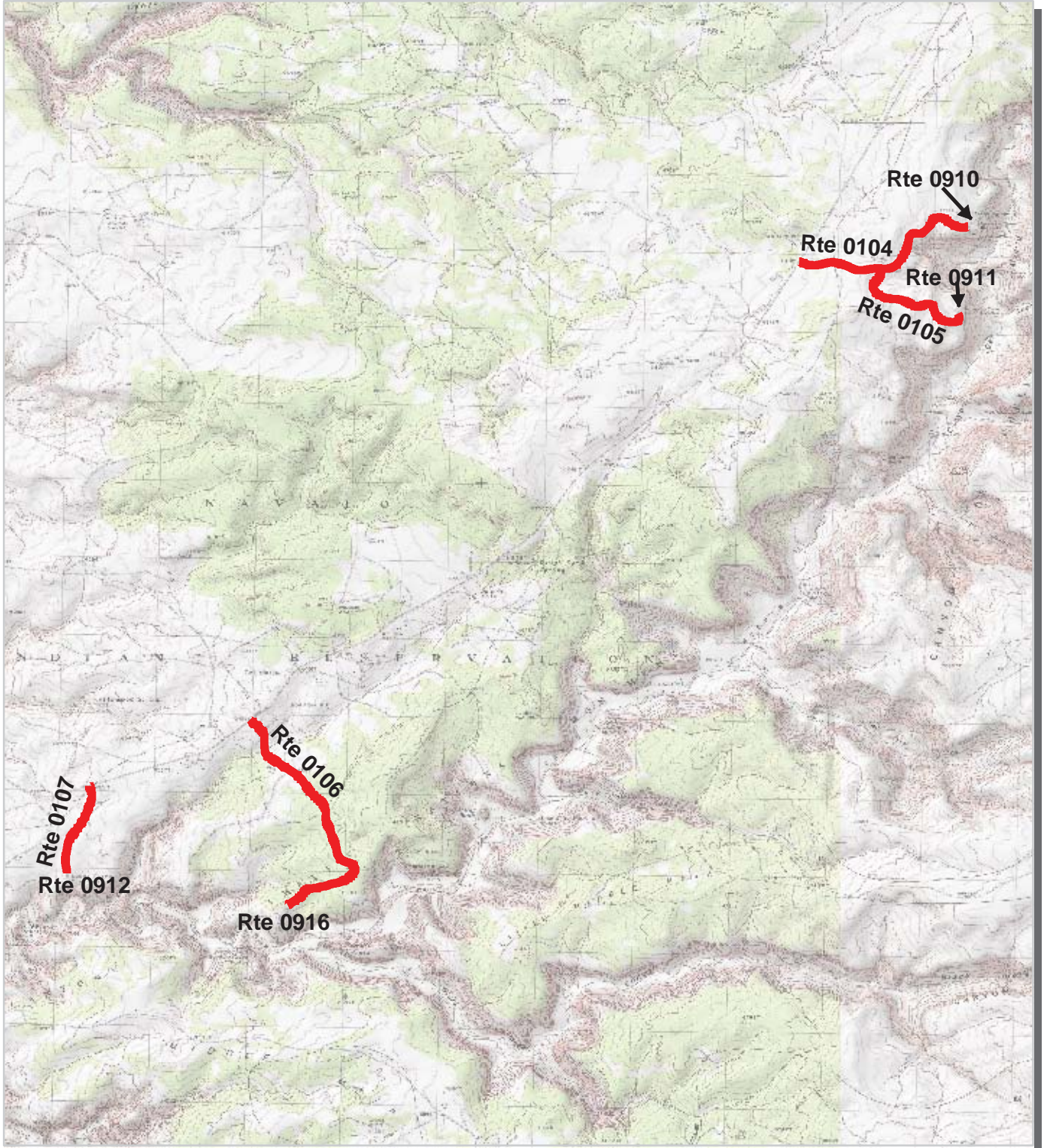




# Canyon de Chelly National Monument

## Route Condition Area Map 1

### PCR - Mile by Mile

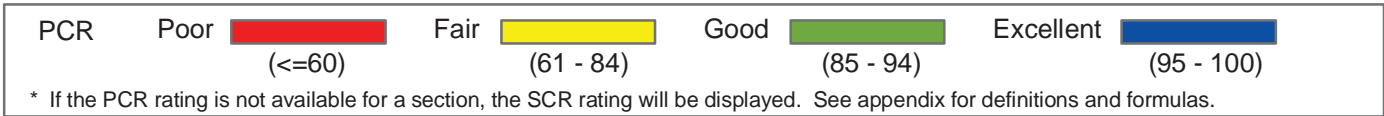
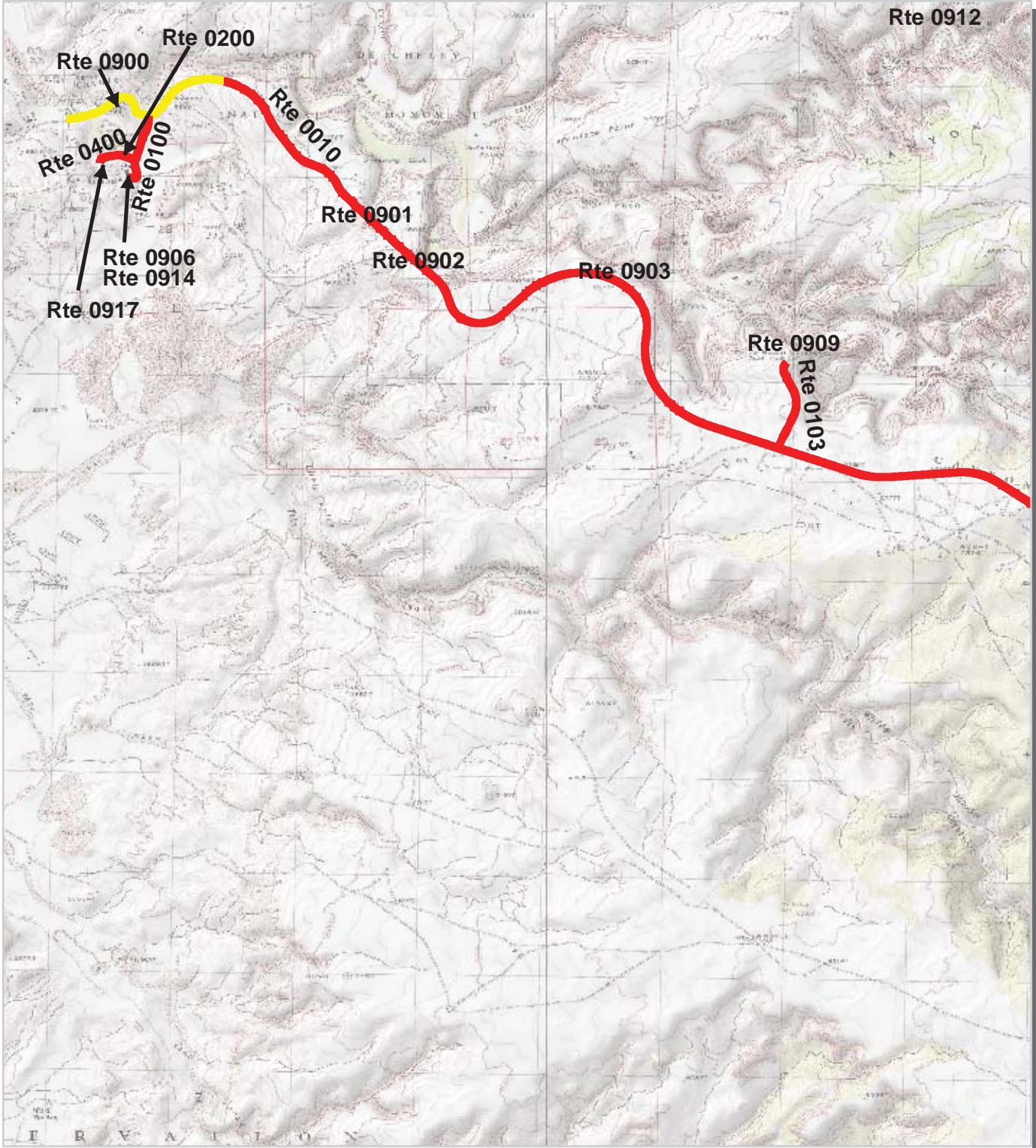




# Canyon de Chelly National Monument

## Route Condition Area Map 2

### PCR - Mile by Mile

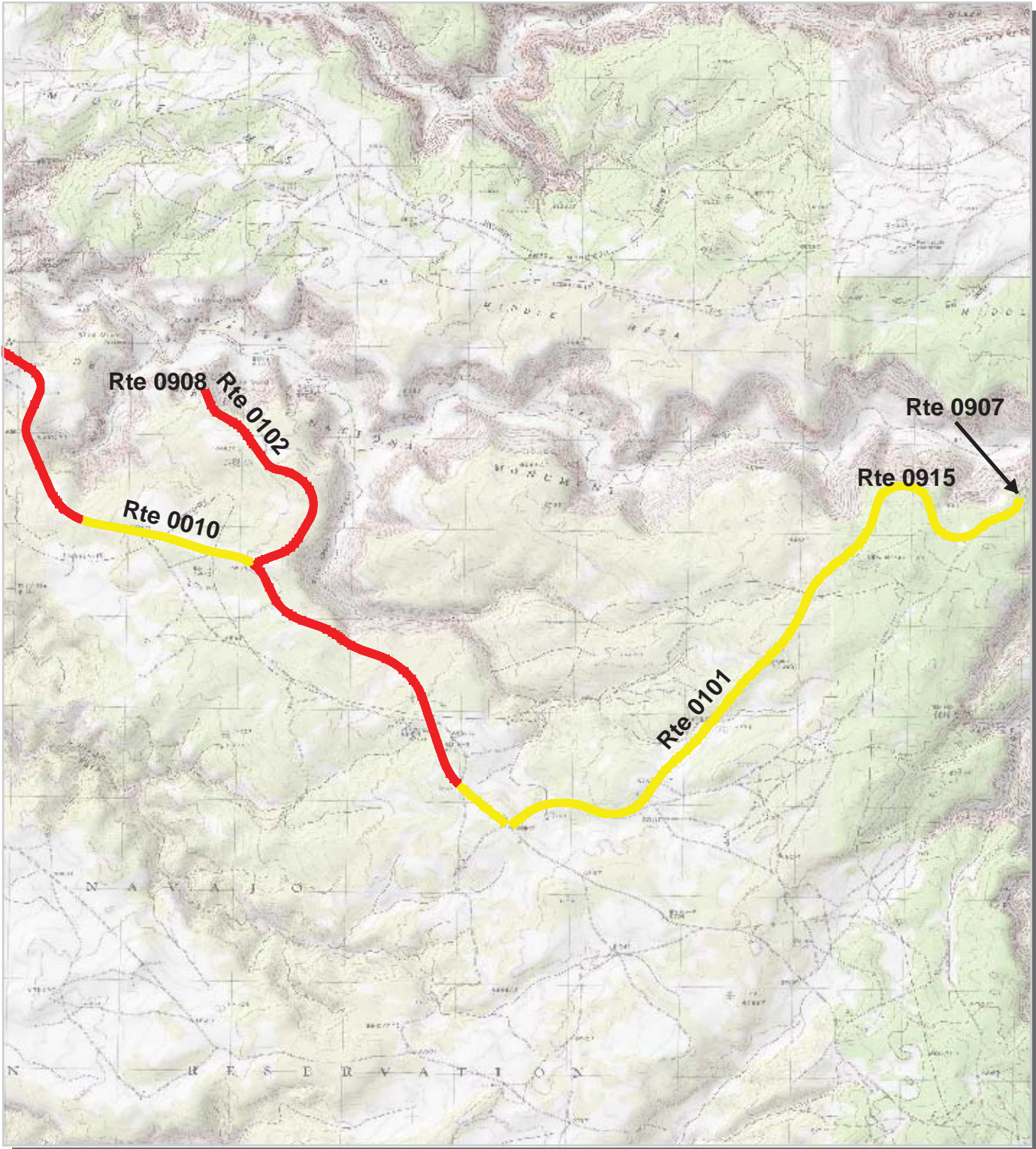




# Canyon de Chelly National Monument

## Route Condition Area Map 3

### PCR - Mile by Mile



PCR	Poor	<span style="display: inline-block; width: 20px; height: 10px; background-color: red; border: 1px solid black;"></span>	Fair	<span style="display: inline-block; width: 20px; height: 10px; background-color: yellow; border: 1px solid black;"></span>	Good	<span style="display: inline-block; width: 20px; height: 10px; background-color: green; border: 1px solid black;"></span>	Excellent	<span style="display: inline-block; width: 20px; height: 10px; background-color: blue; border: 1px solid black;"></span>
		(<=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.





# NPS/RIP Route ID Report

(Numerical By Route #)

Shading Color Key:  
Red text denotes approx. mileage

White = Paved Routes, ARAN Driven	Yellow = Unpaved Routes, ARAN not Driven	Blue = All Paved Parking Areas
Grey = Paved Routes, ARAN not Driven	Red =	Green = All Unpaved Parking Areas
Black = Paved State, Local or Private non-NPS Routes, ARAN Driven	Purple =	

## CACH

### Canyon de Chelly National Monument

Rte. #	FMSS Asset #	Route Name	Route Description		Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
			From	To							
0010	68881	SOUTH RIM DRIVE	From Park Boundary	To Route 0101	11.40	0.00	11.40	1	2	0	AS
0100	68942	LODGE CAMPGROUND ACCESS ROAD	From Route 0010 at MP 0.53 on Right	To Route 0906	0.46	0.00	0.46	2	2	0	AS
0101	77097	SPIDER ROCK OVERLOOK ROAD	From End of Route 0010	To Route 0907	4.47	0.00	4.47	2	2	0	AS
0102	68885	SLIDING HOUSE OVERLOOK ROAD	From Route 0010 at MP 9.01 on Left	To Route 0908	1.64	0.00	1.64	2	2	0	AS
0103	68887	WHITE HOUSE OVERLOOK ROAD	From Route 0010 at MP 5.35 on Left	To Route 0909	0.59	0.00	0.59	2	2	0	OC
0104	68831	MASSACRE CAVE OVERLOOK ROAD	From North Rim Drive	To Route 0910	1.44	0.00	1.44	2	2	0	AS
0105	68837	MUMMY CAVE OVERLOOK ROAD	From Route 0104 at MP 0.57 on Right	To Route 0911	0.96	0.00	0.96	2	2	0	OC
0106	68824	ANTELOPE HOUSE OVERLOOK ROAD	From North Rim Drive	To Route 0916	2.05	0.00	2.05	2	2	0	AS
0107	68822	LEDGE RUIN ROAD	From North Rim Drive	To Route 0912	0.77	0.00	0.77	2	2	0	AS
0200	68947	CAMPGROUND/ MAINTENANCE ACCESS ROAD	From Route 0100 at MP 0.29 on Right	To Route 0201	0.10	0.00	0.10	2	2	0	AS
0201	79402	COTTONWOOD CAMPGROUND LOOP	From end of Route 0200	Through Campground	0.94	0.00	0.94	3	1	0	AS
0400	68948	PARK MAINTENANCE ACCESS ROAD	From end of Route 0200 on Right	To end of pavement	0.14	0.00	0.14	5	2	0	AS
0401	68951	RESIDENCE ROAD	From Route 0100 at MP 0.4 on Left	To end of pavement	0.15	0.00	0.15	5	2	0	AS
0700	68710	CMD del Muerto Canyon Road	From	To	0.00	18.00	18.00	ZZ		0	GR
0701	68961	CDC Canyon Road	From	To	0.00	25.00	25.00	ZZ		0	GR
0900	68952	VISITOR CENTER PARKING	Adjacent To Route 0010 at MP 0.3 on Right		0.00	0.00	0.00	9		38,798	AS
0901	68856	TUNNEL OVERLOOK PARKING	Adjacent To Route 0010 at MP 2.2 on Left		0.00	0.00	0.00	9		9,942	AS
0902	68858	TSEGI OVERLOOK PARKING	Adjacent To Route 0010 at MP 2.6 on Left		0.00	0.00	0.00	9		13,368	AS
0903	68861	JUNCTION OVERLOOK PARKING	Adjacent To Route 0010 at MP 3.9 on Left		0.00	0.00	0.00	9		24,003	OC
0904	79403	COTTONWOOD PICNIC AREA PARKING	Adjacent to Route 0200		0.00	0.00	0.00	9		0	GR
0905		COTTONWOOD CAMPGROUND AREA PARKING	Adjacent to Route 0200		0.00	0.00	0.00	9		0	GR
0906	68955	THUNDERBIRD LODGE PARKING	At End of Route 0100		0.00	0.00	0.00	9		107,374	AS
0907	68869	SPIDER ROCK OVERLOOK PARKING	At End of Route 0101		0.00	0.00	0.00	9		23,967	AS
0908	68865	SLIDING HOUSE OVERLOOK PARKING	At End of Route 0102		0.00	0.00	0.00	9		24,549	AS
0909	68862	WHITE HOUSE OVERLOOK PARKING	At End of Route 0103		0.00	0.00	0.00	9		26,283	AS
0910	68877	MASSACRE CAVE OVERLOOK PARKING	At End of Route 0104		0.00	0.00	0.00	9		23,560	OC
0911	77090	MUMMY CAVE OVERLOOK PARKING	At End of Route 0105		0.00	0.00	0.00	9		31,366	AS
0912	68873	LEDGE RUIN PARKING	At End of Route 0107		0.00	0.00	0.00	9		29,811	AS
0913		Maintenance Area Parking	At End of Route 0400		0.00	0.00	0.00	9		0	GR

# NPS/RIP Route ID Report

(Numerical By Route #)

Shading Color Key:

Red text denotes approx. mileage

White = Paved Routes, ARAN Driven	Yellow = Unpaved Routes, ARAN not Driven	Blue = All Paved Parking Areas
Grey = Paved Routes, ARAN not Driven	Red =	Green = All Unpaved Parking Areas
Black = Paved State, Local or Private non-NPS Routes, ARAN Driven	Purple =	

## CACH

### Canyon de Chelly National Monument

Rte. #	FMSS Asset #	Route Name	Route Description		Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
			From	To							
0914	68956	CANYON TOUR PASSENGER LOADING AREA	From Route 0100 at MP 0.32	To Route 0100 at MP 0.36	0.00	0.00	0.00	9		4,890	AS
0915	68868	FACE ROCK OVERLOOK PARKING	Adjacent To Route 0101 at MP 3.5 on Left		0.00	0.00	0.00	9		2,623	AS
0916	68874	ANTELOPE HOUSE OVERLOOK PARKING	At End of Route 0106		0.00	0.00	0.00	9		32,777	AS
0917		Maintenance Overflow Parking	Near End of Route 0400 on Left just outside gate		0.00	0.00	0.00	9		3,288	AS
<b>Totals:</b>					25.10	43.00	68.10			396,599	

#### 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.
- Class 9 Boat Ramp - (Public and Administrative) Route Numbers 800-899.  
Parking Area - (Public and Administrative) Route Numbers 900-1999.

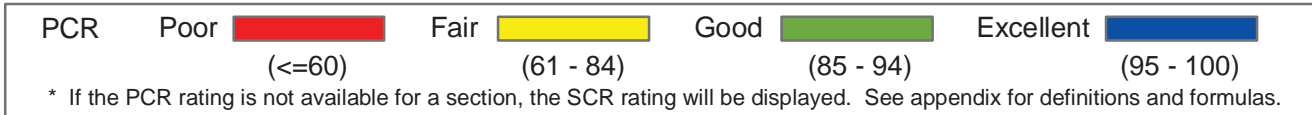
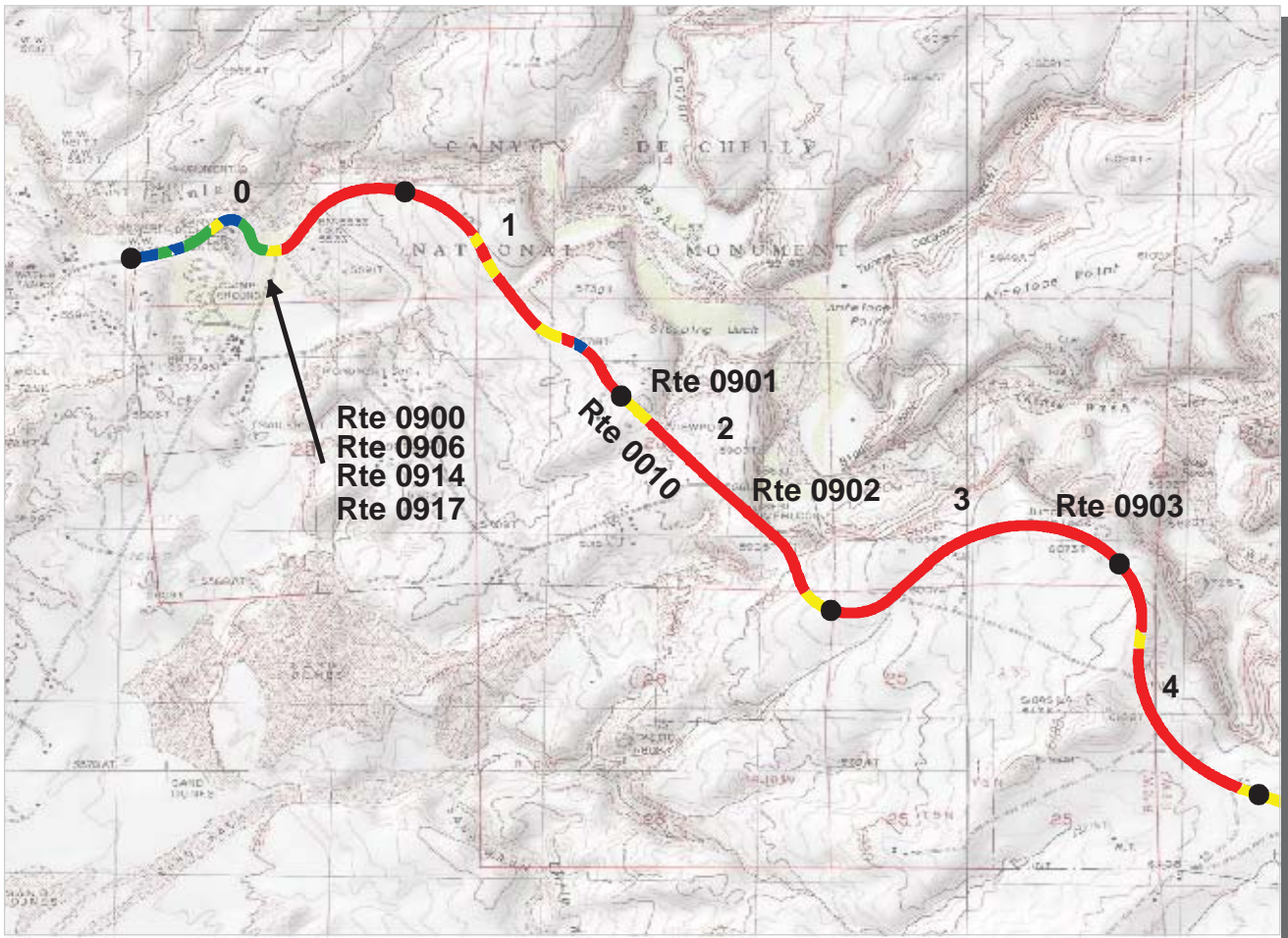
#### Surface Type Abbreviations:

- AS - Asphaltic Concrete Pavement
- CO - Portland Cement Concrete Pavement
- NC - New Chip Seal Pavement (Under 5 Years)
- OC - Old Chip Seal Pavement (5 Years and Greater)
- SS - Slurry Seal Pavement
- GR - Gravel Road Bed
- BR - Brick or Pavers Road Bed
- CB - Cobble Stone Road Bed
- SA - Sand Road Bed
- DT - Dirt or Native Material Road Bed
- OT - Other Materials Road Bed

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

The historic route numbering system also included a 300 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.

ZZ Functional Class Routes were added from FMSS Database. Final Route Number and Functional Class will be established during Park visit for Cycle 4 data collection.



**Intermountain Region**  
**CACH : Canyon de Chelly National Monument**

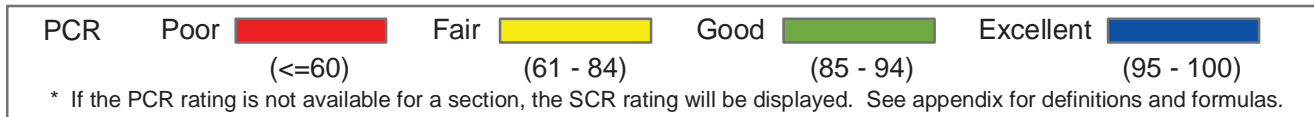
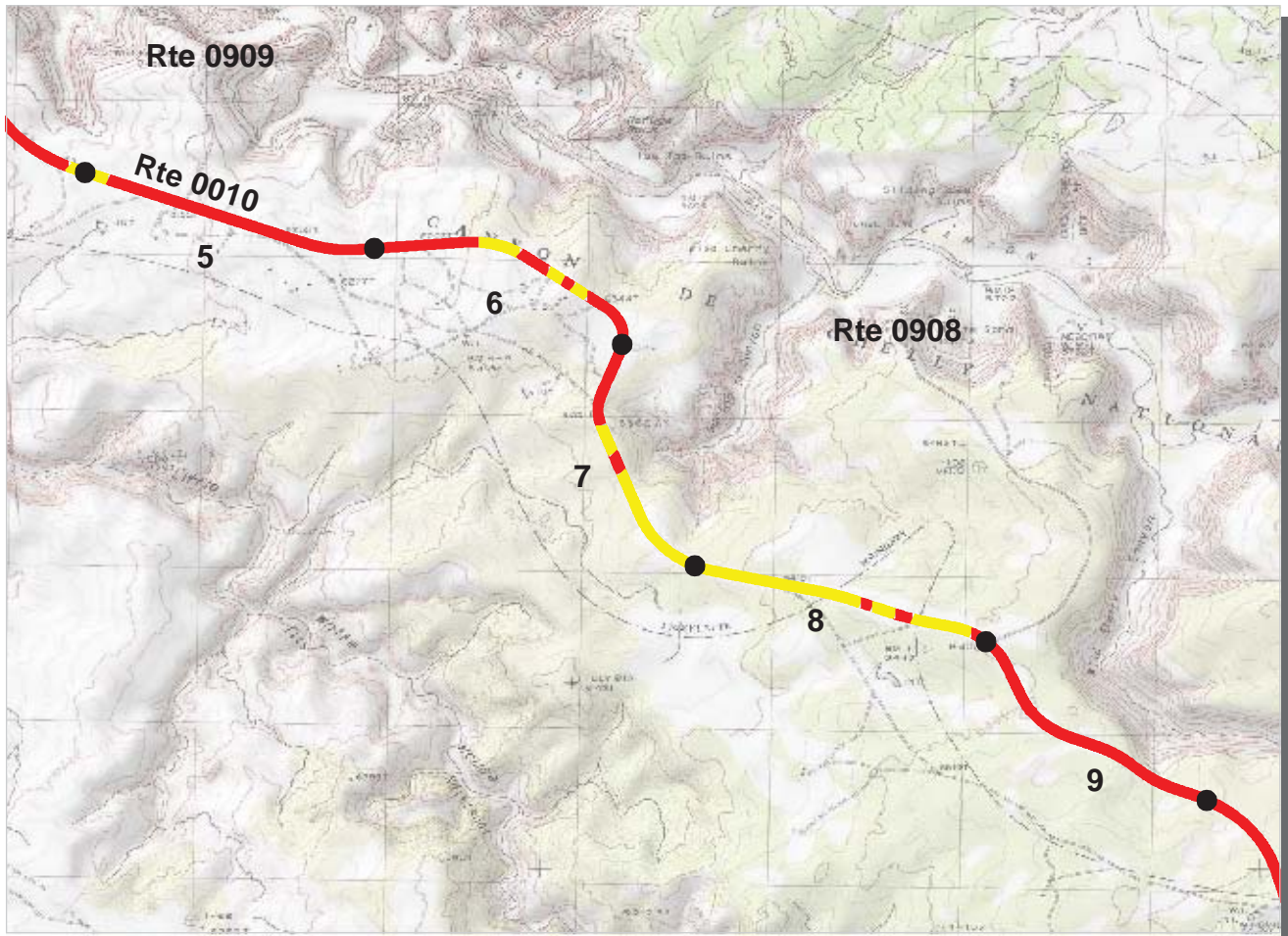
**ROUTE: 0010 SOUTH RIM DRIVE** **TOTAL LENGTH: 11.40 Miles**

Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	23	23	25	23	23
Lane Width (ft)	11	12	12	12	11
Shoulder Width (ft)	8	0	0	0	0
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	63	50	46	28	41
RCI (Roughness Condition Index)	84	84	82	67	72
SCR (Surface Condition Rating)	49	30	22	2	20
Alligator Cracking Index	78	84	93	44	76
Rutting Index	75	70	74	61	68
Patching Index	100	98	93	100	96
Transverse Cracking Index	88	81	74	69	82
Longitudinal Cracking Index	93	90	85	88	87
Shoulder Condition Rating	N/C	N/A	N/A	N/A	N/A
Drainage Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD

**ROUTE: 0010 SOUTH RIM DRIVE**

\* NC designates data not collected N/A designates not applicable  
 \*\* See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>





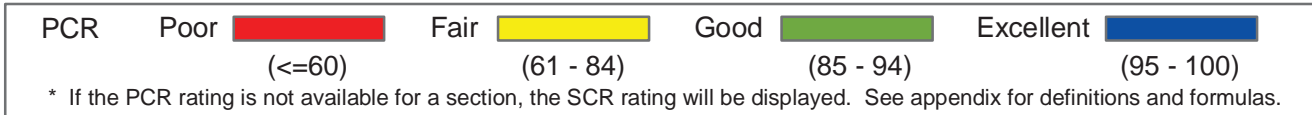
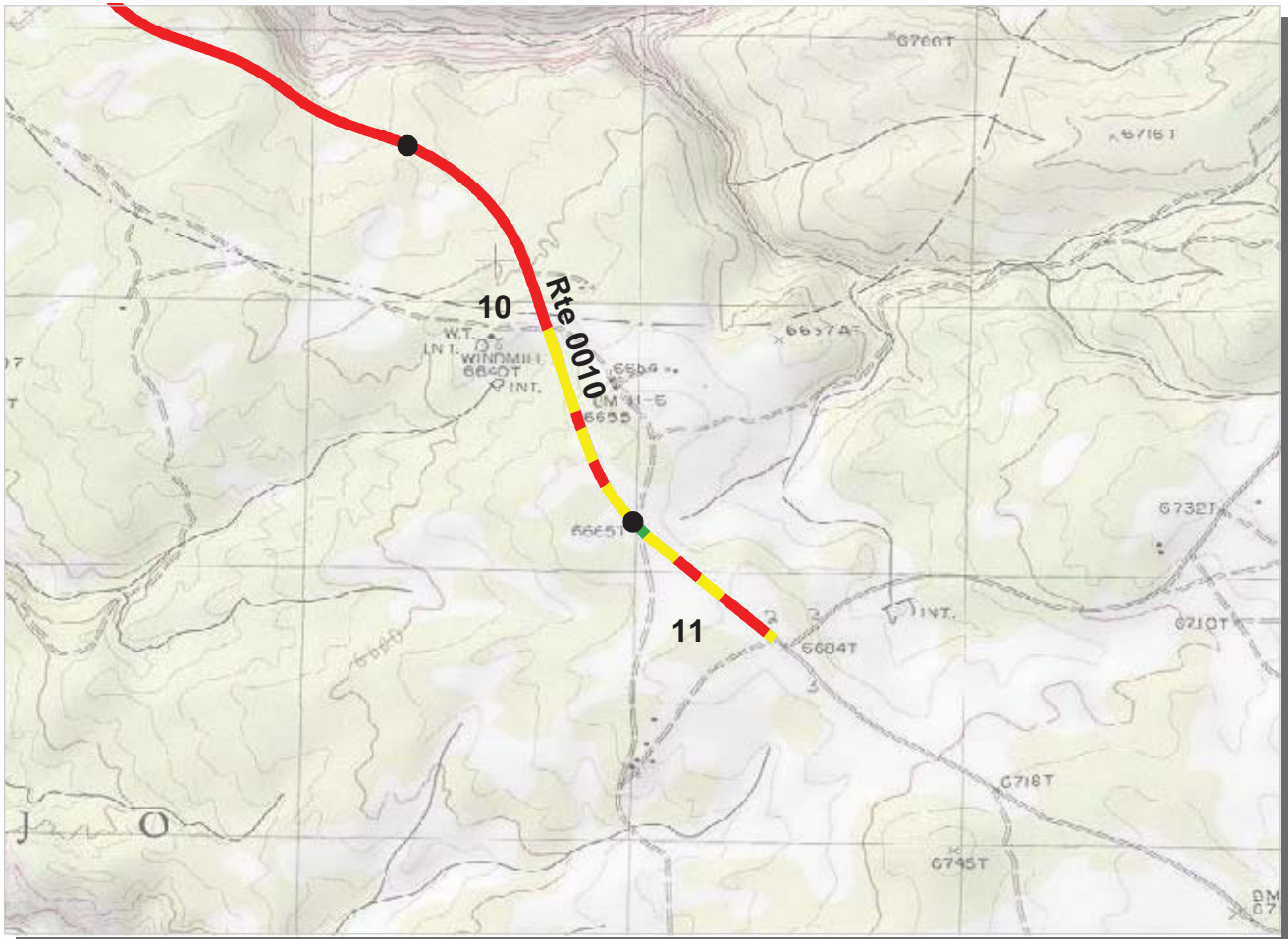
**Intermountain Region**  
**CACH : Canyon de Chelly National Monument**

**ROUTE: 0010 SOUTH RIM DRIVE** **TOTAL LENGTH: 11.40 Miles**

Section Number	5	6	7	8	9
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	23	20	20	20	20
Lane Width (ft)	12	10	11	10	11
Shoulder Width (ft)	0	0	0	0	0
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	50	53	59	63	39
RCI (Roughness Condition Index)	83	89	93	95	88
SCR (Surface Condition Rating)	28	29	36	41	6
Alligator Cracking Index	88	90	95	94	55
Rutting Index	59	59	63	66	50
Patching Index	100	100	100	100	100
Transverse Cracking Index	88	88	87	90	84
Longitudinal Cracking Index	86	88	89	89	88
Shoulder Condition Rating	N/A	N/A	N/A	N/A	N/A
Drainage Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD

**ROUTE: 0010 SOUTH RIM DRIVE**

\* NC designates data not collected N/A designates not applicable  
 \*\* See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



**Intermountain Region**  
**CACH : Canyon de Chelly National Monument**

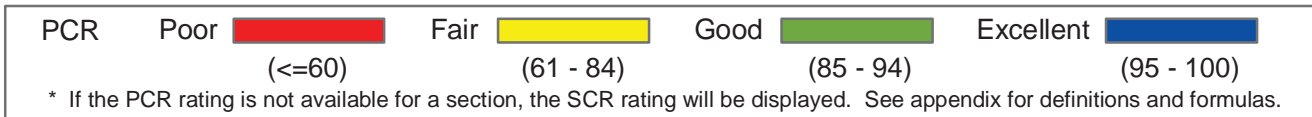
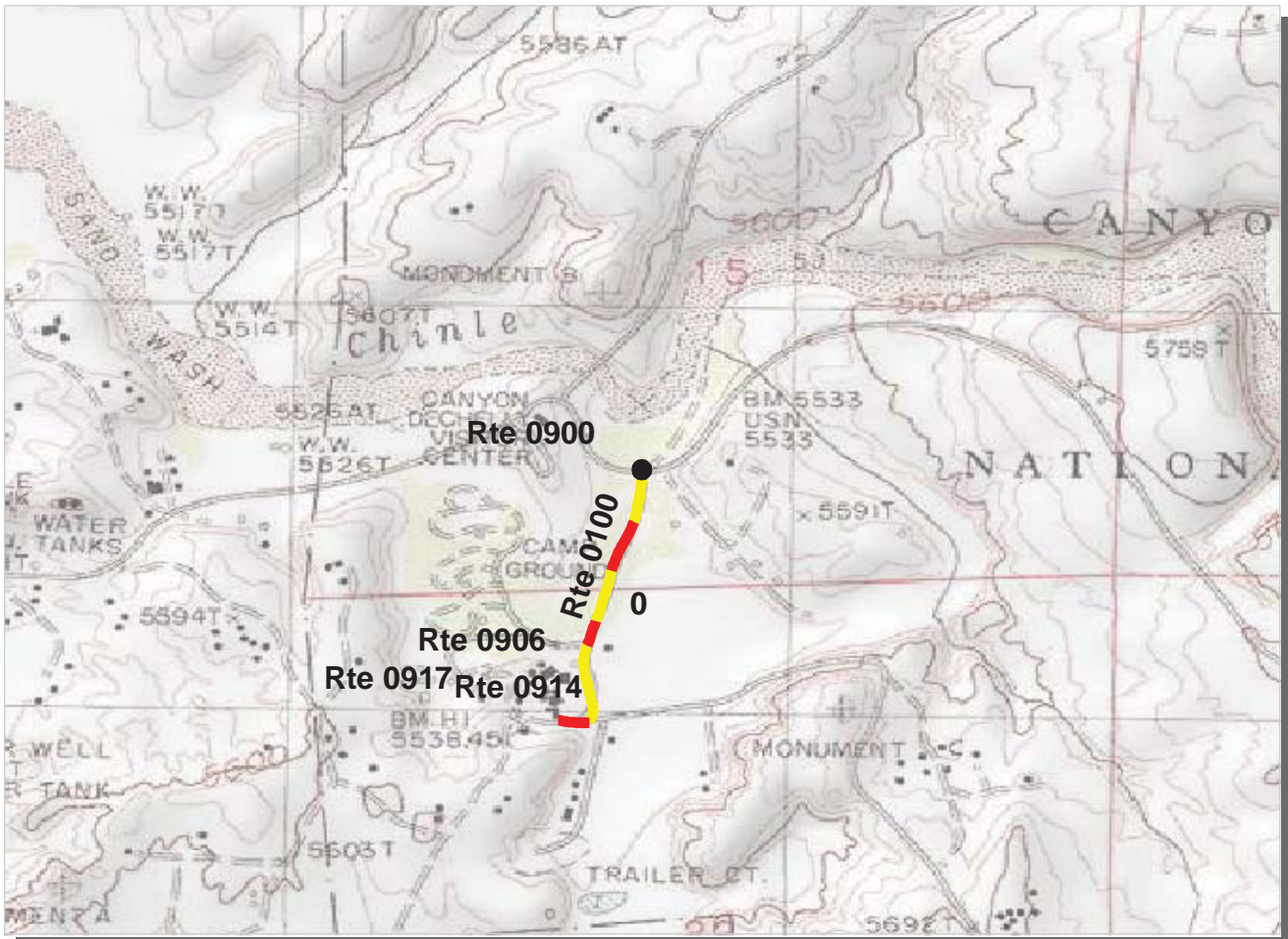
**ROUTE: 0010 SOUTH RIM DRIVE** **TOTAL LENGTH: 11.40 Miles**

Section Number	10	11			
Section Length (mi)	1.00	0.40			
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	2	2			
Paved Width (ft)	22	24			
Lane Width (ft)	11	12			
Shoulder Width (ft)	0	0			
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	50	65			
RCI (Roughness Condition Index)	87	95			
SCR (Surface Condition Rating)	25	44			
Alligator Cracking Index	59	73			
Rutting Index	62	82			
Patching Index	100	100			
Transverse Cracking Index	89	96			
Longitudinal Cracking Index	89	92			
Shoulder Condition Rating	N/A	N/A			
Drainage Condition Rating	GOOD	GOOD			

ROUTE: 0010 SOUTH RIM DRIVE

\* NC designates data not collected N/A designates not applicable  
 \*\* See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>





**Intermountain Region**

**CACH : Canyon de Chelly National Monument**

**ROUTE: 0100 LODGE CAMPGROUND ACCESS ROAD**

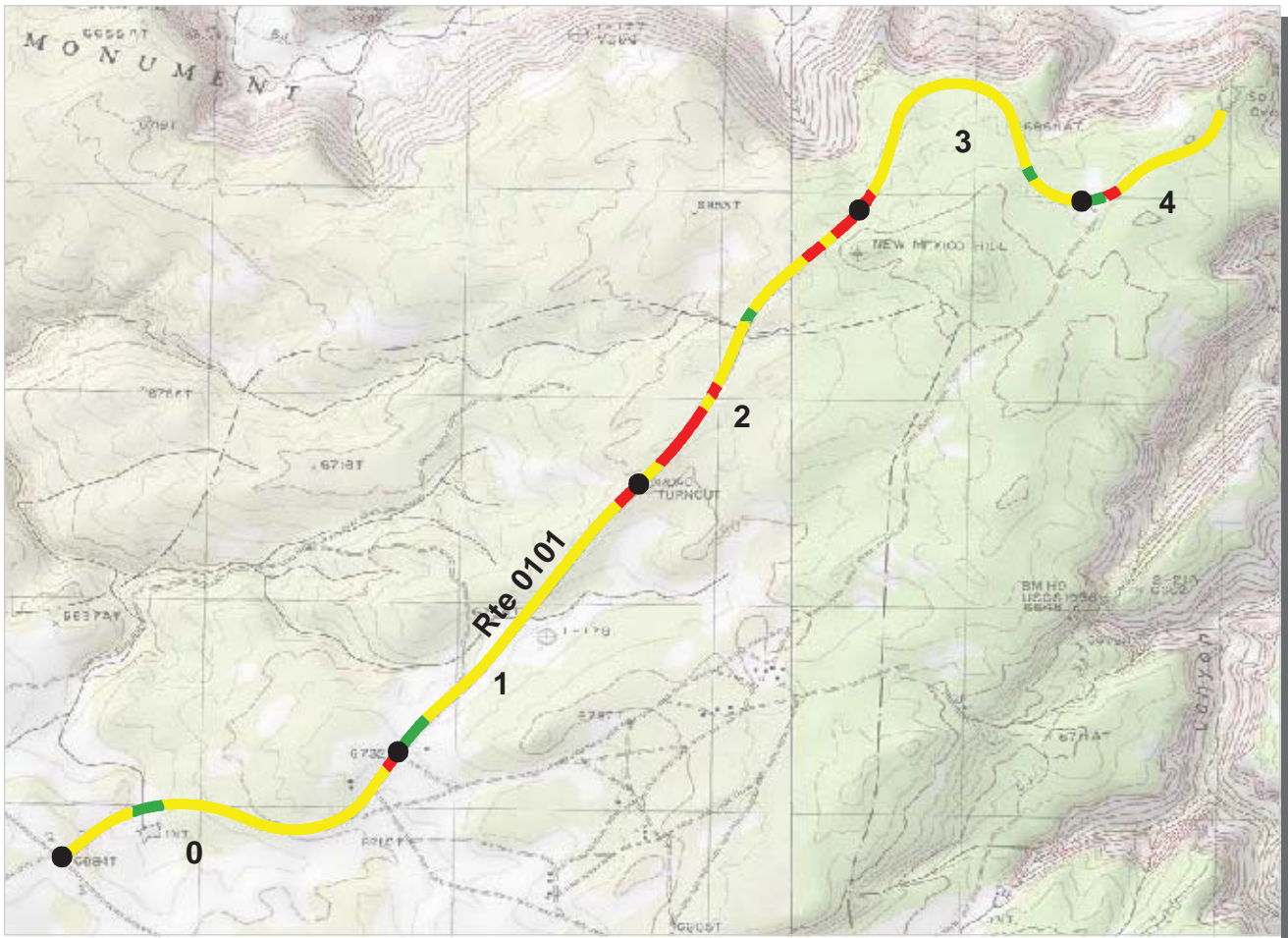
**TOTAL LENGTH: 0.46 Miles**

Section Number	0			
Section Length (mi)	0.46			
AADT	**			
SADT	**			
ADT Date	**			
<b>Cross Section Information</b>				
Number of Lanes	2			
Paved Width (ft)	19			
Lane Width (ft)	10			
Shoulder Width (ft)	0			
<b>Roadway Condition Information</b>				
PCR (Pavement Condition Rating)	58			
RCI (Roughness Condition Index)	76			
SCR (Surface Condition Rating)	55			
Alligator Cracking Index	95			
Rutting Index	80			
Patching Index	100			
Transverse Cracking Index	86			
Longitudinal Cracking Index	93			
Shoulder Condition Rating	N/A			
Drainage Condition Rating	GOOD			

**ROUTE: 0100 LODGE CAMPGROUND ACCESS ROAD**

\* NC designates data not collected N/A designates not applicable

\*\* See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



**Intermountain Region**  
**CACH : Canyon de Chelly National Monument**

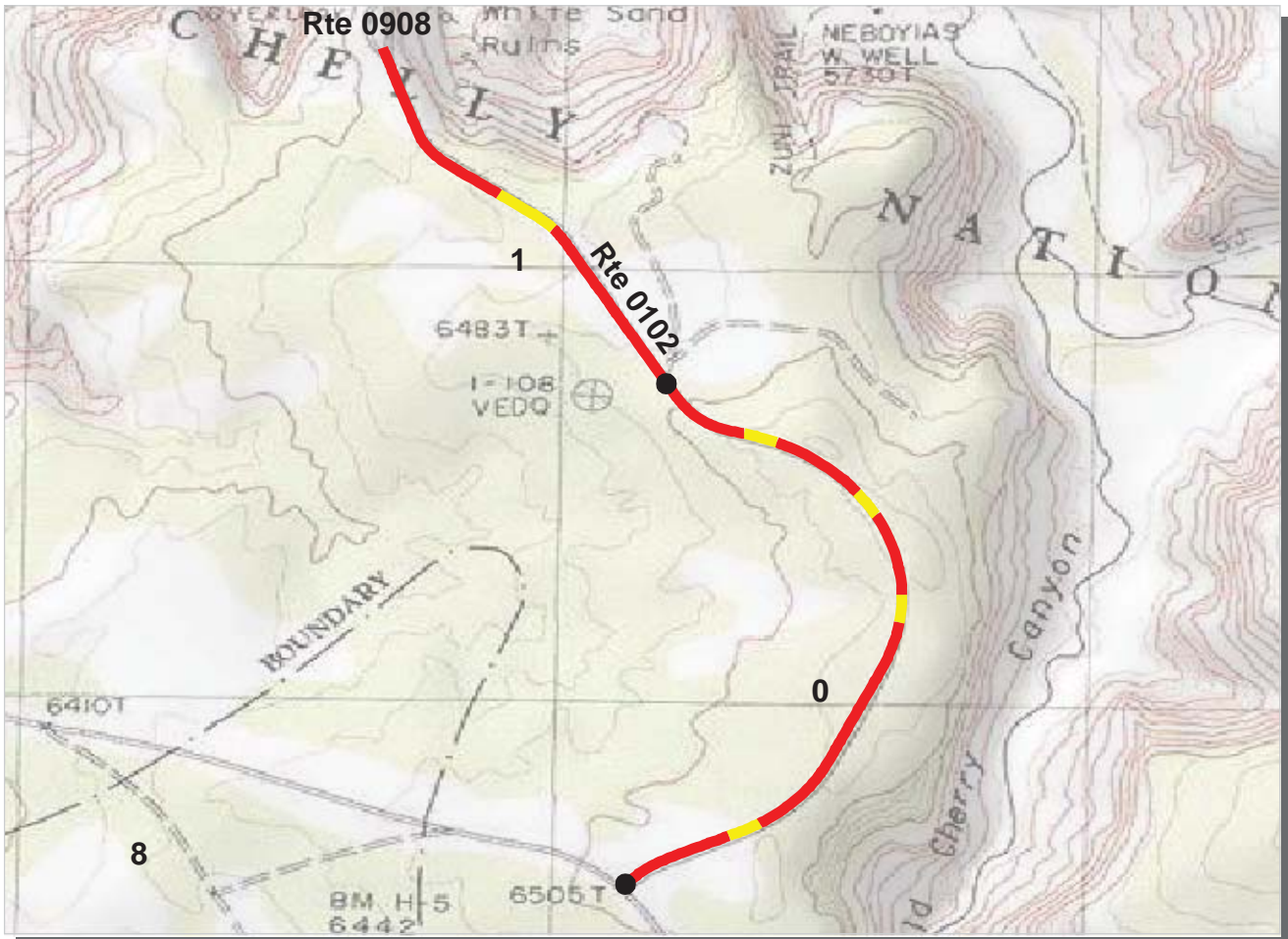
**ROUTE: 0101 SPIDER ROCK OVERLOOK ROAD** **TOTAL LENGTH: 4.47 Miles**

Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	0.47
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	23	23	23	23	24
Lane Width (ft)	12	12	12	12	11
Shoulder Width (ft)	6	2	2	5	6
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	71	74	63	73	73
RCI (Roughness Condition Index)	98	93	85	88	89
SCR (Surface Condition Rating)	54	61	49	62	62
Alligator Cracking Index	93	96	96	100	99
Rutting Index	69	75	70	68	68
Patching Index	100	100	100	100	100
Transverse Cracking Index	97	95	92	97	98
Longitudinal Cracking Index	94	94	90	96	96
Shoulder Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD
Drainage Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD

\* NC designates data not collected N/A designates not applicable  
 \*\* See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>

**ROUTE: 0101 SPIDER ROCK OVERLOOK ROAD**





**Intermountain Region**  
**CACH : Canyon de Chelly National Monument**

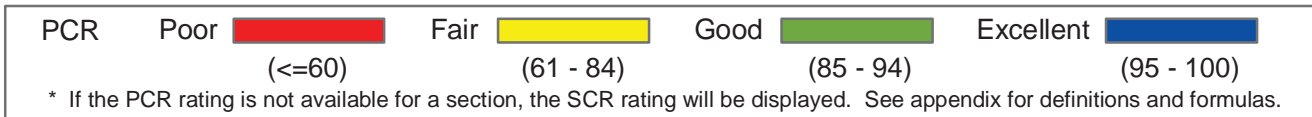
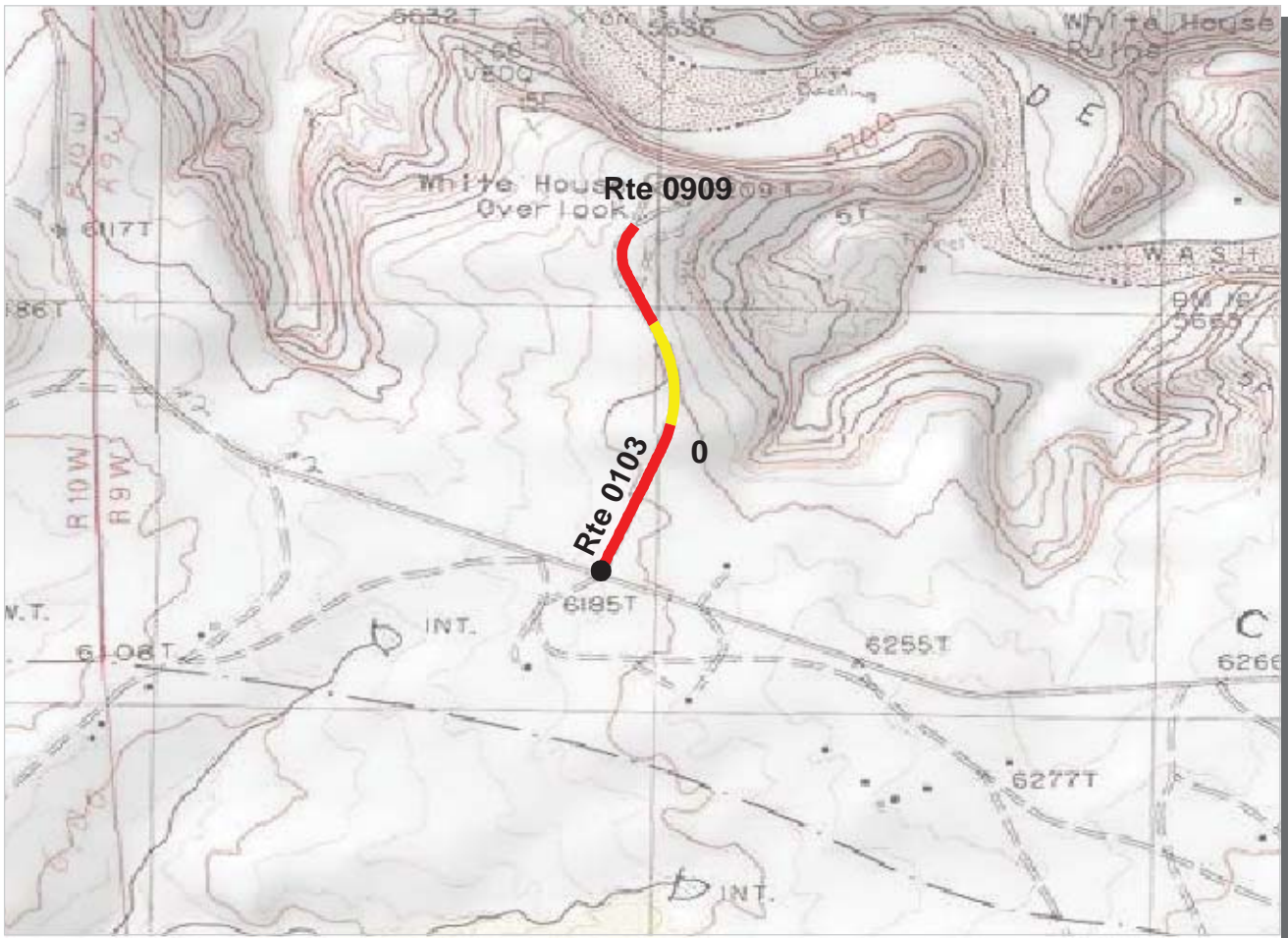
**ROUTE: 0102 SLIDING HOUSE OVERLOOK ROAD** **TOTAL LENGTH: 1.61 Miles**

Section Number	0	1			
Section Length (mi)	1.00	0.61			
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	2	2			
Paved Width (ft)	20	21			
Lane Width (ft)	10	10			
Shoulder Width (ft)	0	0			
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	49	54			
RCI (Roughness Condition Index)	87	88			
SCR (Surface Condition Rating)	27	31			
Alligator Cracking Index	87	85			
Rutting Index	58	66			
Patching Index	99	99			
Transverse Cracking Index	85	85			
Longitudinal Cracking Index	94	94			
Shoulder Condition Rating	N/A	N/A			
Drainage Condition Rating	GOOD	GOOD			

**ROUTE: 0102 SLIDING HOUSE OVERLOOK ROAD**

\* NC designates data not collected N/A designates not applicable  
 \*\* See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>





**Intermountain Region**

**CACH : Canyon de Chelly National Monument**

**ROUTE: 0103 WHITE HOUSE OVERLOOK ROAD**

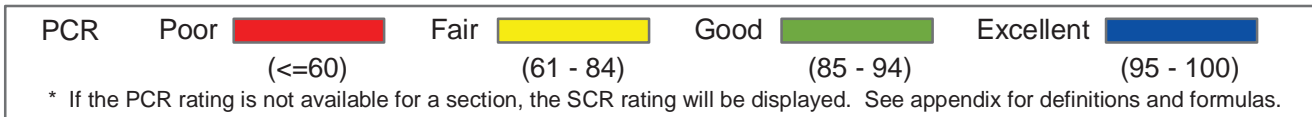
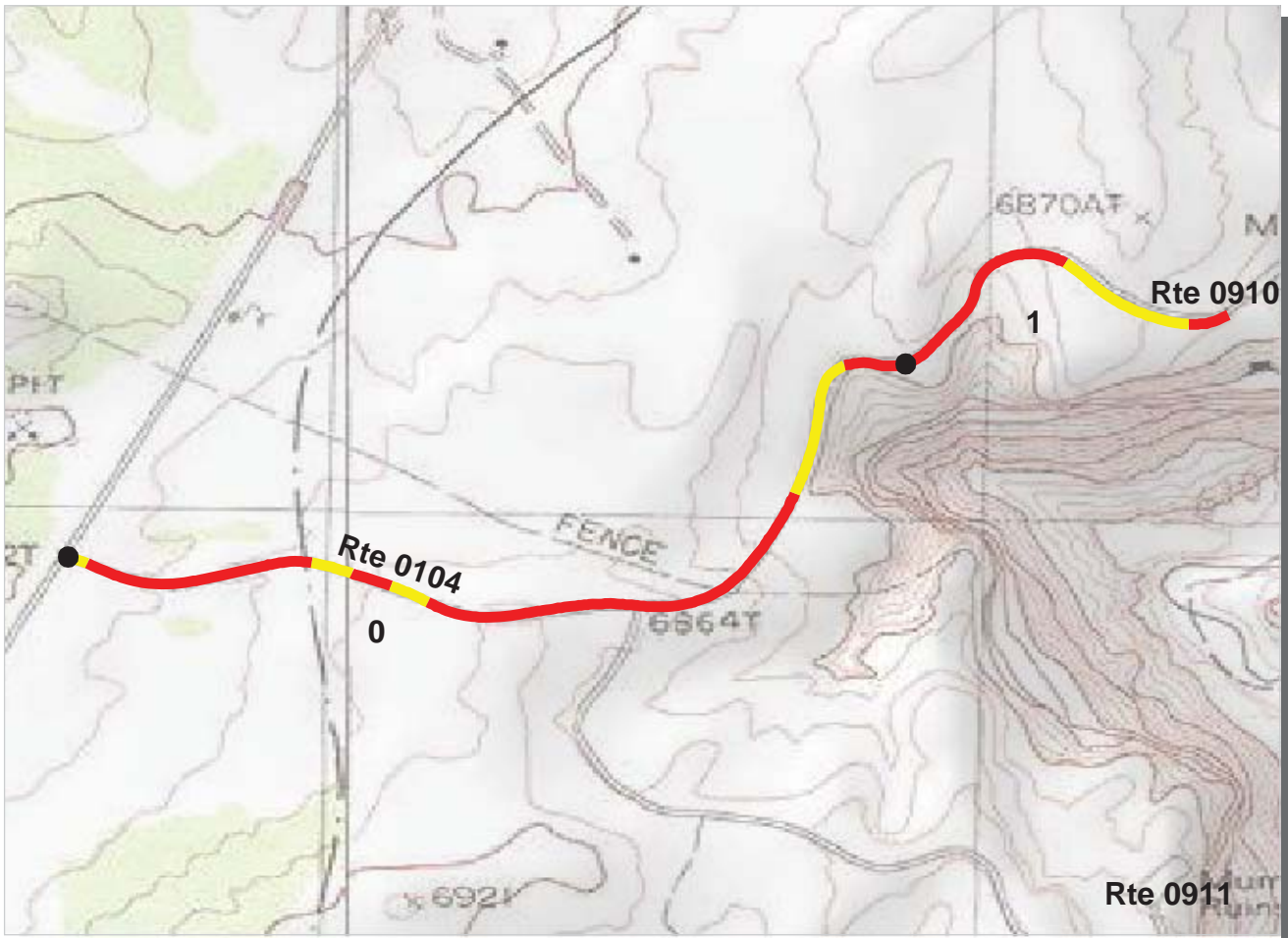
**TOTAL LENGTH: 0.58 Miles**

Section Number	0				
Section Length (mi)	0.58				
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	19				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	51				
RCI (Roughness Condition Index)	85				
SCR (Surface Condition Rating)	32				
Alligator Cracking Index	91				
Rutting Index	59				
Patching Index	100				
Transverse Cracking Index	86				
Longitudinal Cracking Index	93				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

**ROUTE: 0103 WHITE HOUSE OVERLOOK ROAD**

\* NC designates data not collected N/A designates not applicable

\*\* See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



**Intermountain Region**

**CACH : Canyon de Chelly National Monument**

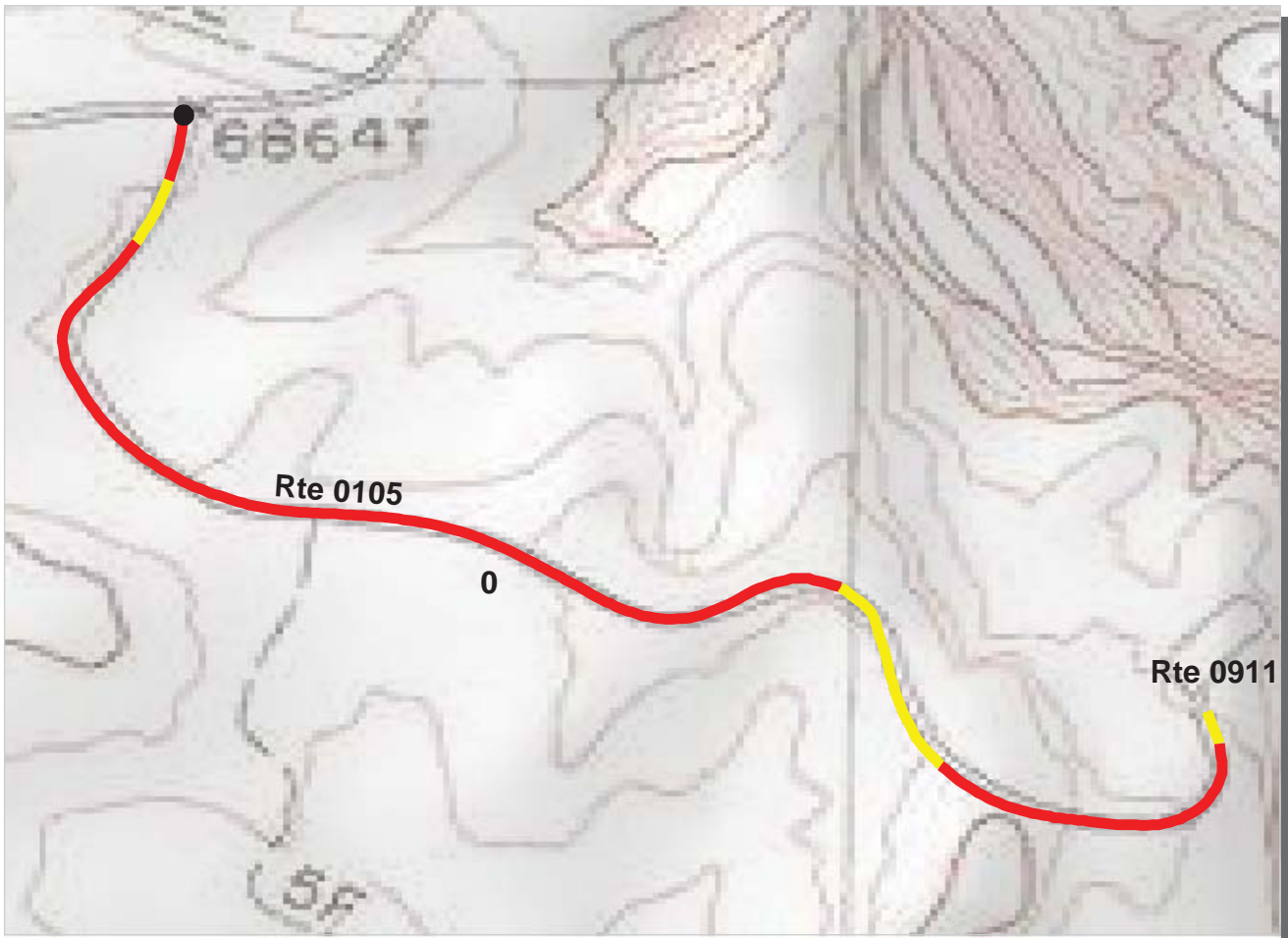
**ROUTE: 0104 MASSACRE CAVE OVERLOOK ROAD**

**TOTAL LENGTH: 1.42 Miles**

Section Number	0	1			
Section Length (mi)	1.00	0.42			
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	2	2			
Paved Width (ft)	25	24			
Lane Width (ft)	13	13			
Shoulder Width (ft)	0	0			
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	52	56			
RCI (Roughness Condition Index)	71	70			
SCR (Surface Condition Rating)	43	47			
Alligator Cracking Index	98	96			
Rutting Index	59	61			
Patching Index	99	99			
Transverse Cracking Index	92	94			
Longitudinal Cracking Index	92	95			
Shoulder Condition Rating	N/A	N/A			
Drainage Condition Rating	GOOD	GOOD			

**ROUTE: 0104 MASSACRE CAVE OVERLOOK ROAD**

\* NC designates data not collected N/A designates not applicable  
 \*\* See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



**Intermountain Region**  
**CACH : Canyon de Chelly National Monument**

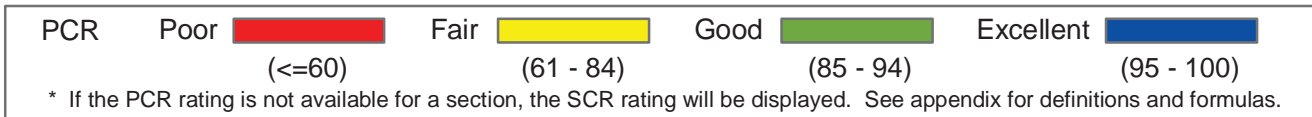
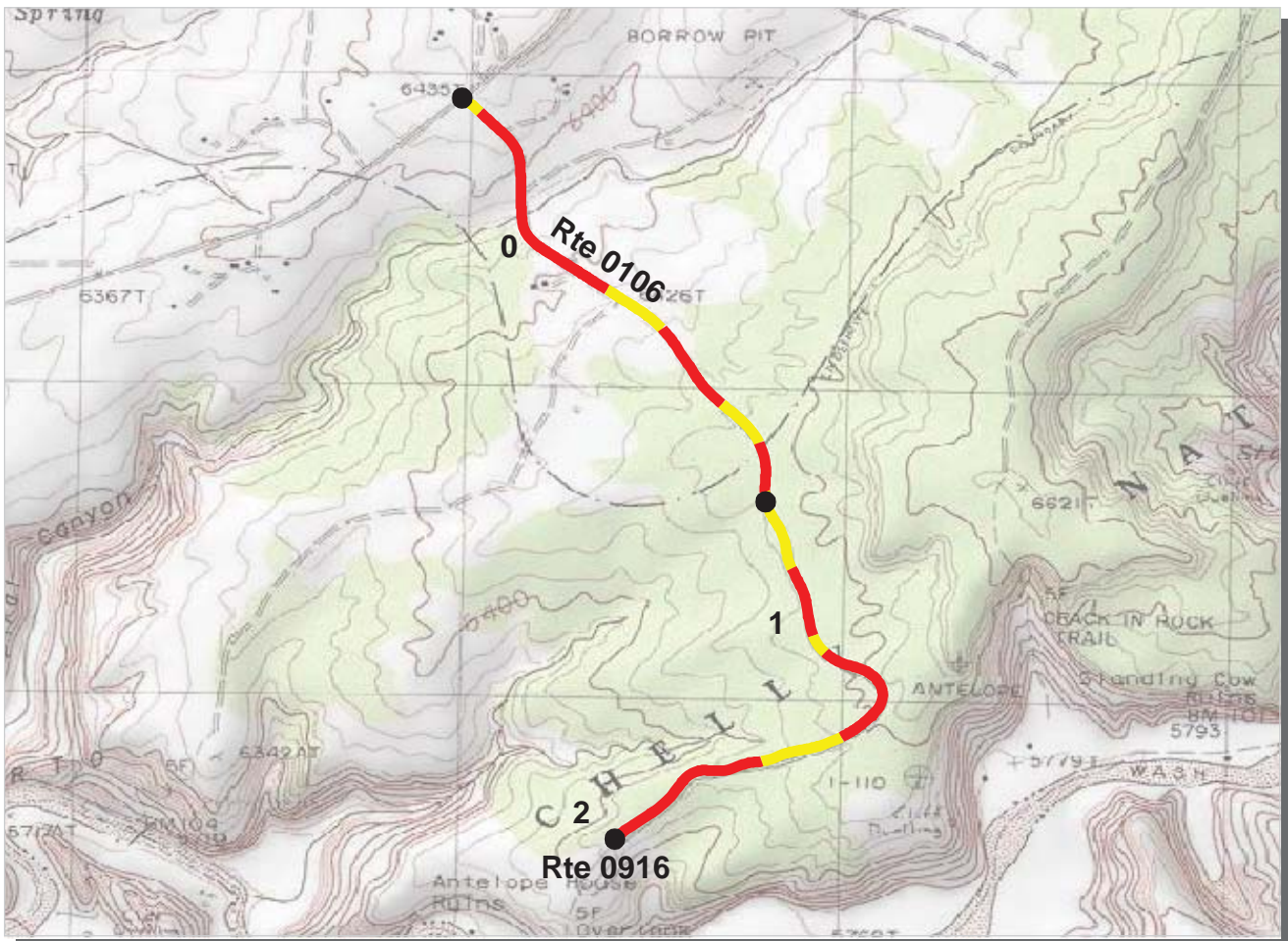
**ROUTE: 0105 MUMMY CAVE OVERLOOK ROAD** **TOTAL LENGTH: 0.94 Miles**

Section Number	0				
Section Length (mi)	0.94				
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	22				
Lane Width (ft)	12				
Shoulder Width (ft)	0				
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	51				
RCI (Roughness Condition Index)	66				
SCR (Surface Condition Rating)	41				
Alligator Cracking Index	99				
Rutting Index	58				
Patching Index	99				
Transverse Cracking Index	91				
Longitudinal Cracking Index	92				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

**ROUTE: 0105 MUMMY CAVE OVERLOOK ROAD**

\* NC designates data not collected N/A designates not applicable  
 \*\* See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>





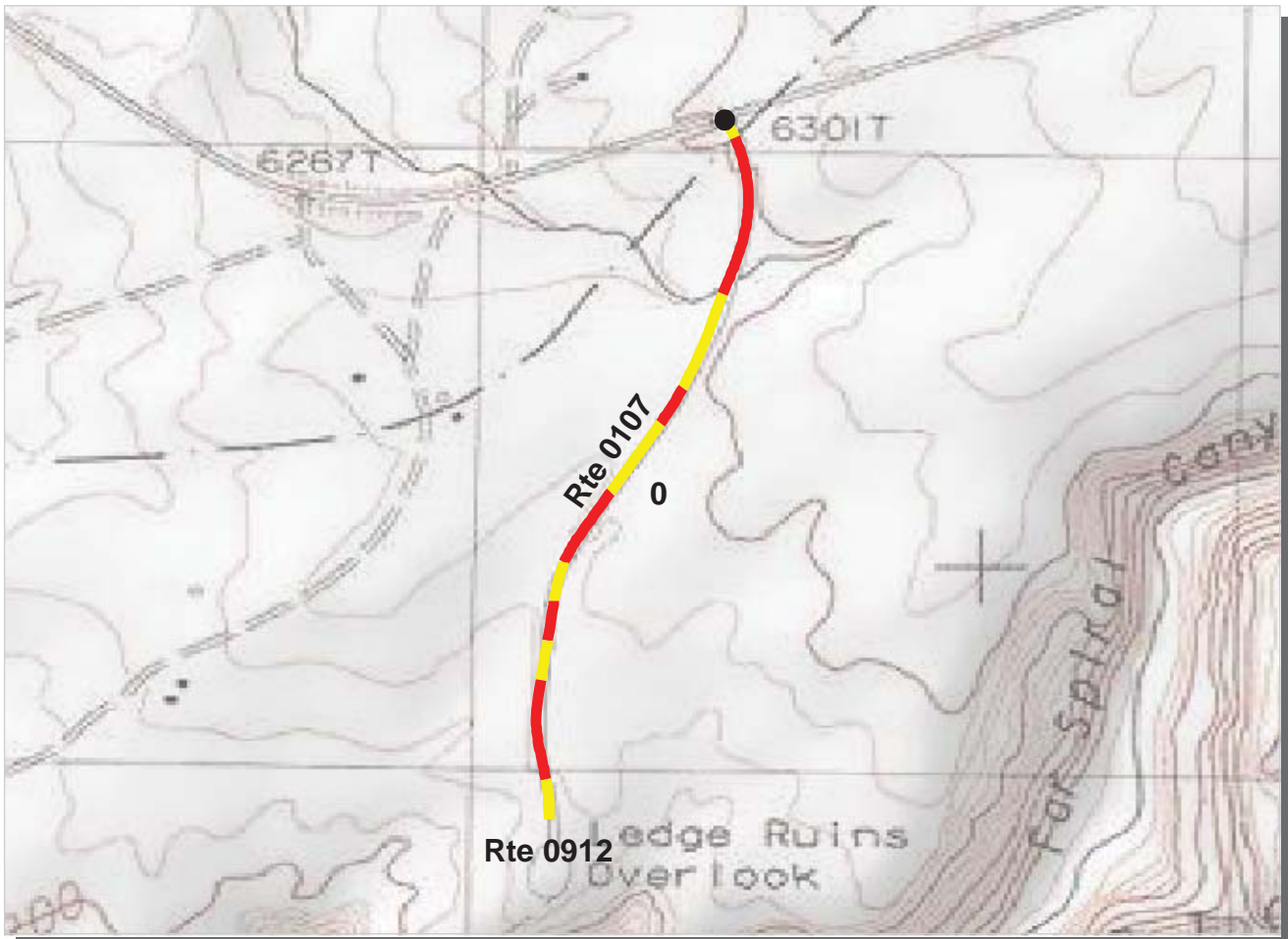
**Intermountain Region**  
**CACH : Canyon de Chelly National Monument**

**ROUTE: 0106 ANTELOPE HOUSE OVERLOOK ROAD**      **TOTAL LENGTH: 2.02 Miles**

Section Number	0	1	2		
Section Length (mi)	1.00	1.00	0.02		
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	2	2	2		
Paved Width (ft)	26	24	25		
Lane Width (ft)	14	14	13		
Shoulder Width (ft)	0	0	0		
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	53	57	56		
RCI (Roughness Condition Index)	74	78	60		
SCR (Surface Condition Rating)	40	44	54		
Alligator Cracking Index	99	99	100		
Rutting Index	52	56	58		
Patching Index	99	99	99		
Transverse Cracking Index	91	91	97		
Longitudinal Cracking Index	98	98	100		
Shoulder Condition Rating	N/A	N/A	N/A		
Drainage Condition Rating	GOOD	GOOD	GOOD		

ROUTE: 0106 ANTELOPE HOUSE OVERLOOK ROAD

\* NC designates data not collected    N/A designates not applicable  
 \*\* See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



**Intermountain Region**  
**CACH : Canyon de Chelly National Monument**

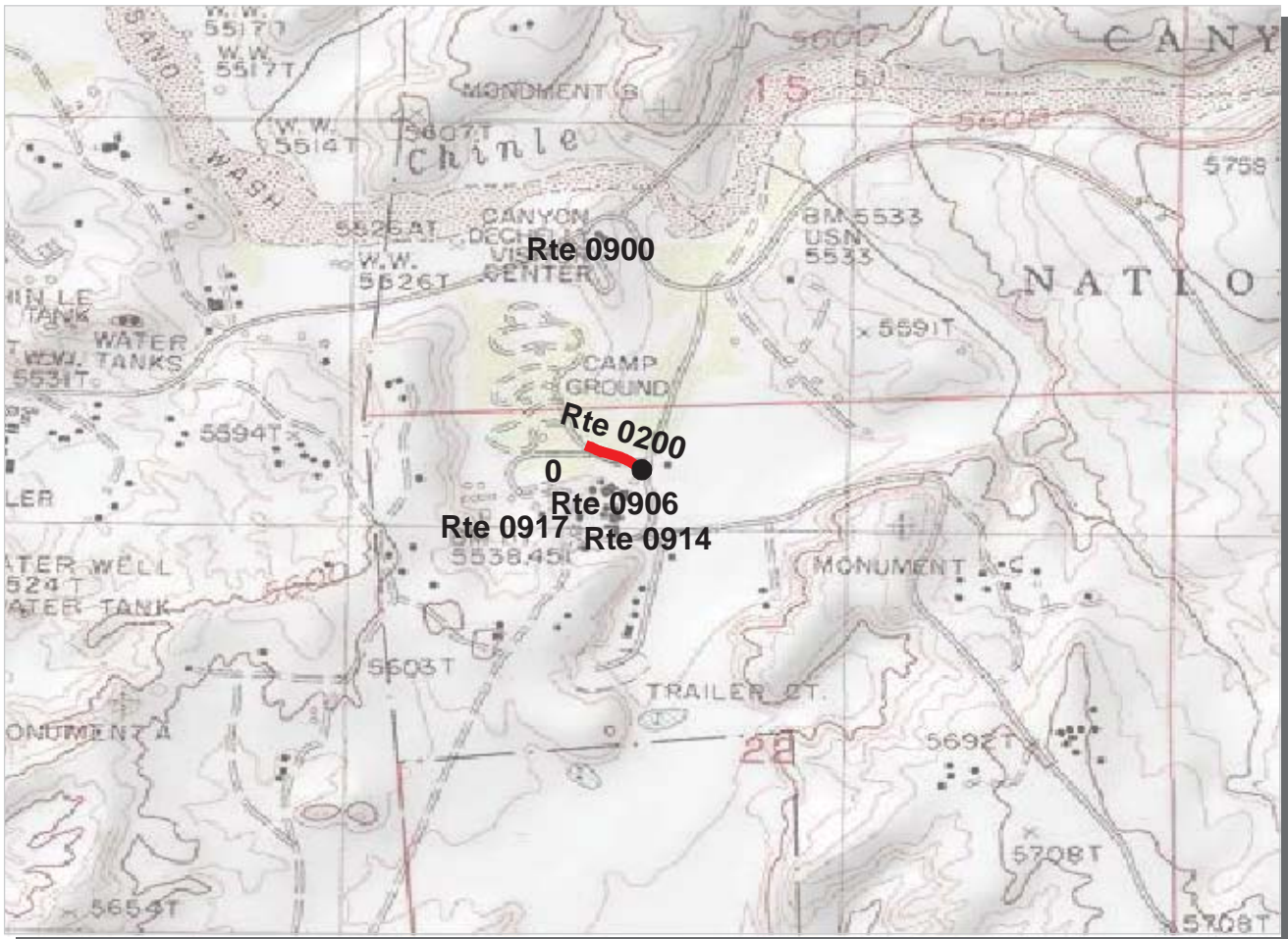
**ROUTE: 0107 LEDGE RUIN ROAD** **TOTAL LENGTH: 0.76 Miles**

Section Number	0				
Section Length (mi)	0.76				
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	26				
Lane Width (ft)	11				
Shoulder Width (ft)	0				
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	58				
RCI (Roughness Condition Index)	74				
SCR (Surface Condition Rating)	48				
Alligator Cracking Index	99				
Rutting Index	57				
Patching Index	99				
Transverse Cracking Index	93				
Longitudinal Cracking Index	98				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0107 LEDGE RUIN ROAD

\* NC designates data not collected N/A designates not applicable  
 \*\* See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>





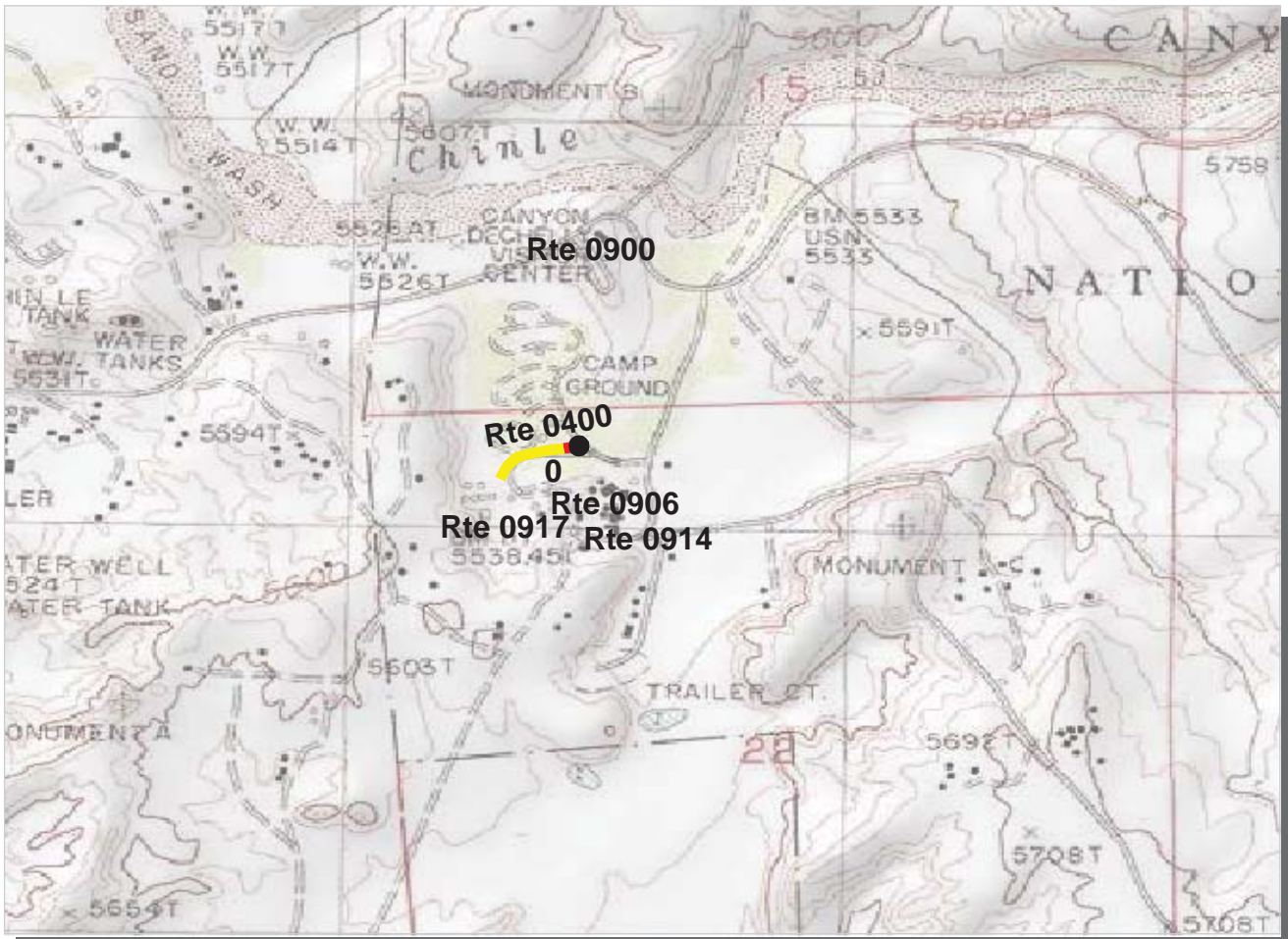
**Intermountain Region**  
**CACH : Canyon de Chelly National Monument**

**ROUTE: 0200 CAMPGROUND/MAINTENANCE ACCESS ROAD** **TOTAL LENGTH: 0.10 Miles**

Section Number	0				
Section Length (mi)	0.10				
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	24				
Lane Width (ft)	11				
Shoulder Width (ft)	0				
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	43				
RCI (Roughness Condition Index)	47				
SCR (Surface Condition Rating)	40				
Alligator Cracking Index	82				
Rutting Index	65				
Patching Index	98				
Transverse Cracking Index	86				
Longitudinal Cracking Index	95				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0200 CAMPGROUND/MAINTENANCE ACCESS ROAD

\* NC designates data not collected N/A designates not applicable  
 \*\* See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>



**Intermountain Region**  
**CACH : Canyon de Chelly National Monument**

**ROUTE: 0400 PARK MAINTENANCE ACCESS ROAD**      **TOTAL LENGTH: 0.13 Miles**

Section Number	0				
Section Length (mi)	0.13				
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	20				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	60				
RCI (Roughness Condition Index)	95				
SCR (Surface Condition Rating)	59				
Alligator Cracking Index	99				
Rutting Index	79				
Patching Index	90				
Transverse Cracking Index	91				
Longitudinal Cracking Index	98				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

**ROUTE: 0400 PARK MAINTENANCE ACCESS ROAD**

\* NC designates data not collected    N/A designates not applicable  
 \*\* See website for traffic data: <http://www.efl.fhwa.dot.gov/nps/index.htm>

# Canyon de Chelly National Monument

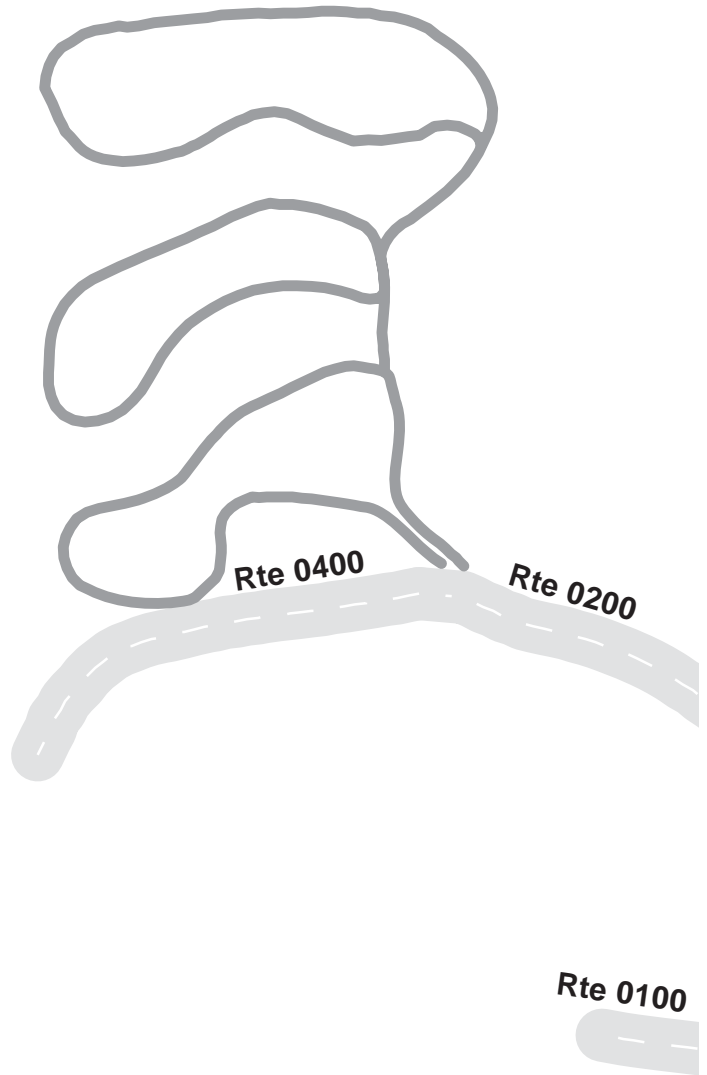
## Route 0201

Cottonwood Campground Loop

From end of Route 0200

Route	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles *	Condition / PCR	Surface Type
0201	0.94	15.00	74606	1.28	FAIR / 73	AS

\* Lane miles are based on 11' lane widths





# Canyon de Chelly National Monument

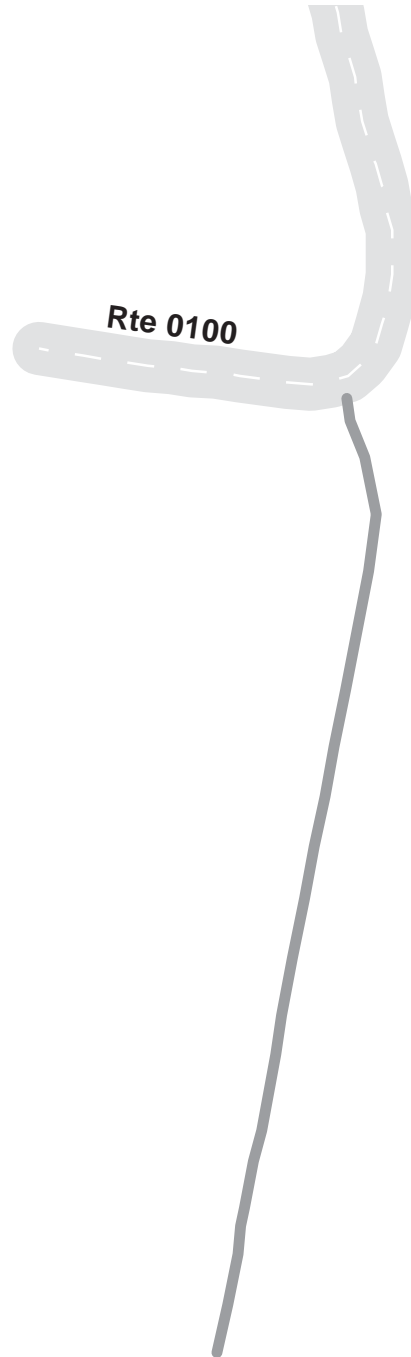
## Route 0401

Residence Road

From Route 0100 at MP 0.4 on Left

Route	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles *	Condition / PCR	Surface Type
0401	0.15	17.00	13464	0.23	FAIR / 73	AS

\* Lane miles are based on 11' lane widths



# Canyon de Chelly National Monument

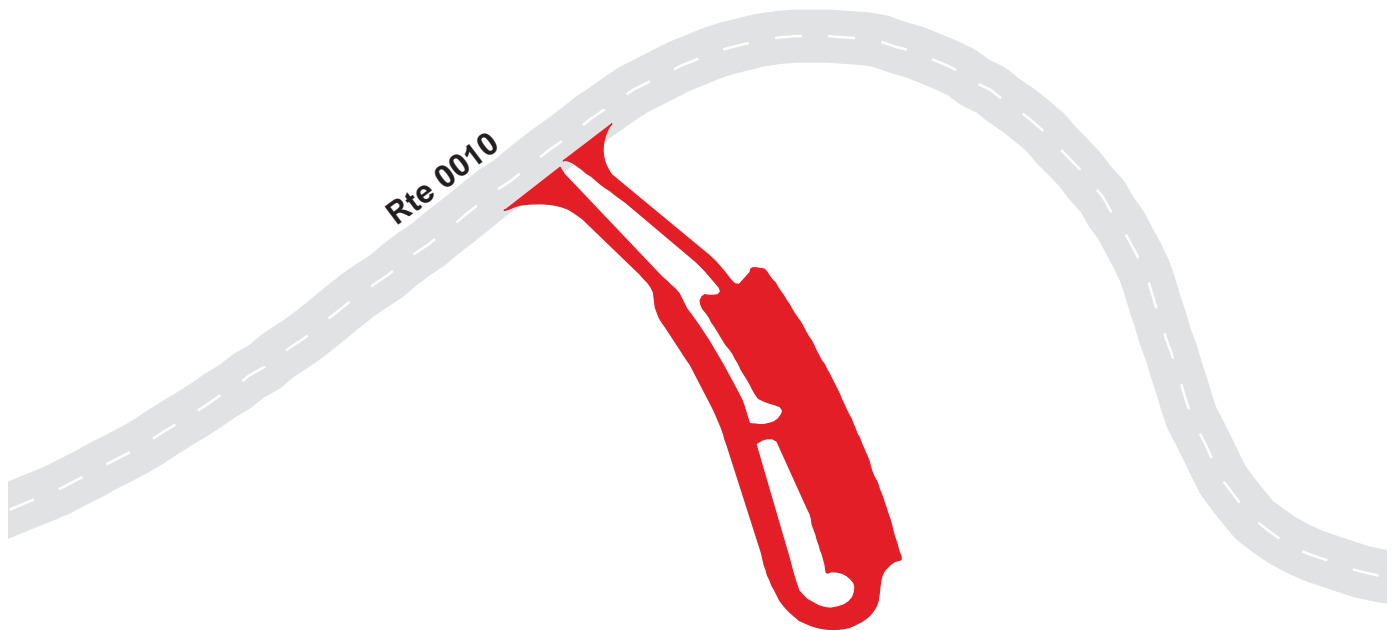
## Route 0900

### VISITOR CENTER PARKING

Adjacent To Route 0010 at MP 0.3 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0900	Public	5/7/2002	38798	0.67	AS	FAIR / 73

\* Lane miles are based on 11' lane widths



# Canyon de Chelly National Monument

## Route 0901

### TUNNEL OVERLOOK PARKING

Adjacent To Route 0010 at MP 2.2 on Left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0901	Public	5/7/2002	9942	0.17	AS	FAIR / 73

\* Lane miles are based on 11' lane widths



# Canyon de Chelly National Monument

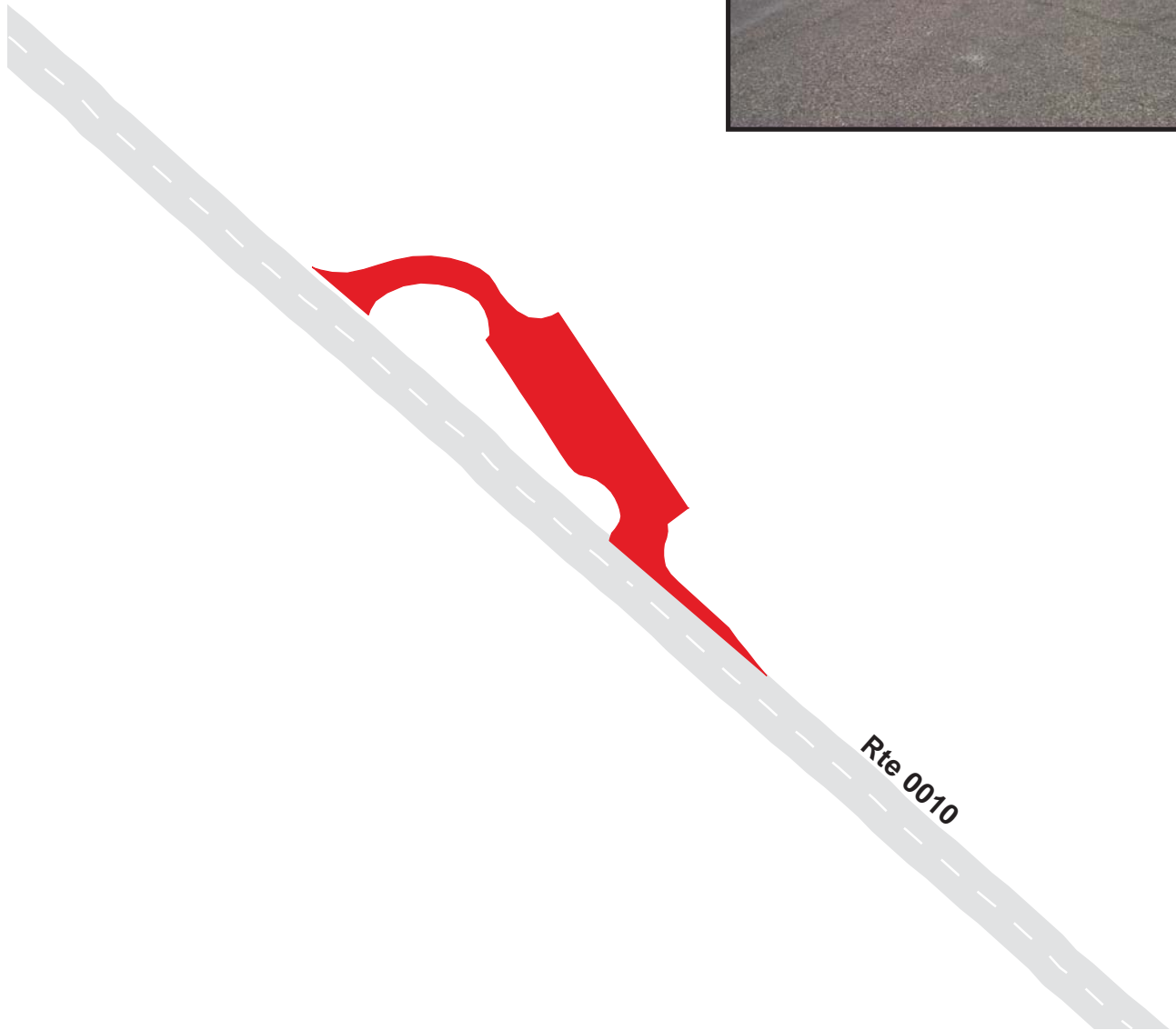
## Route 0902

TSEGI OVERLOOK PARKING

Adjacent To Route 0010 at MP 2.6 on Left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0902	Public	5/7/2002	13368	0.23	AS	FAIR / 73

\* Lane miles are based on 11' lane widths



200 100 0 200 Feet



# Canyon de Chelly National Monument

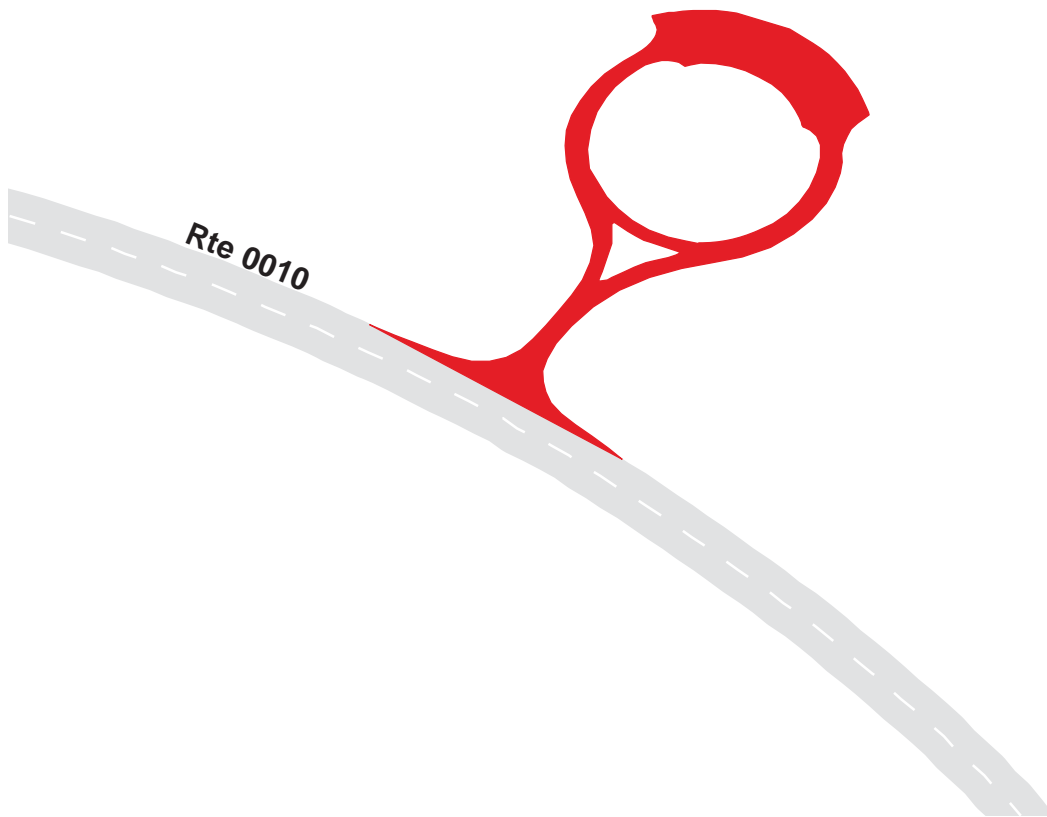
## Route 0903

JUNCTION OVERLOOK PARKING

Adjacent To Route 0010 at MP 3.9 on Left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0903	Public	5/7/2002	24003	0.41	OC	FAIR / 73

\* Lane miles are based on 11' lane widths



# Canyon de Chelly National Monument

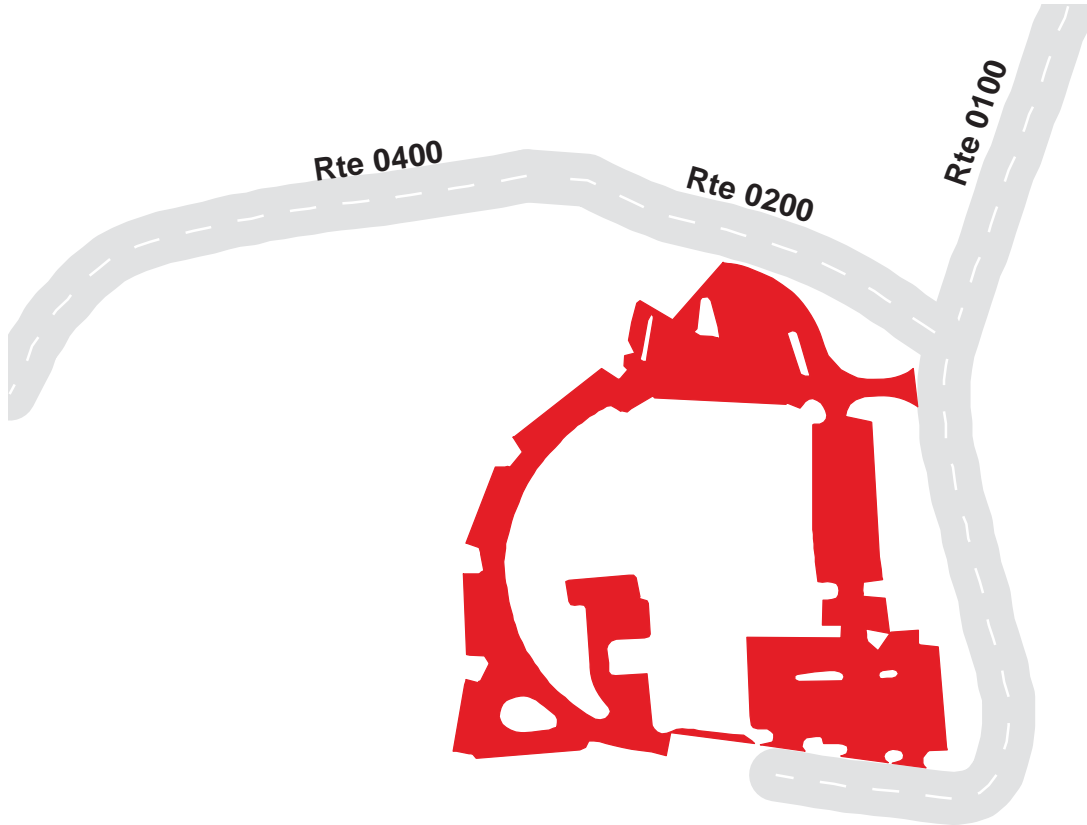
## Route 0906

### THUNDERBIRD LODGE PARKING

At End of Route 0100

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0906	Public	5/7/2002	107374	1.85	AS	FAIR / 73

\* Lane miles are based on 11' lane widths





# Canyon de Chelly National Monument

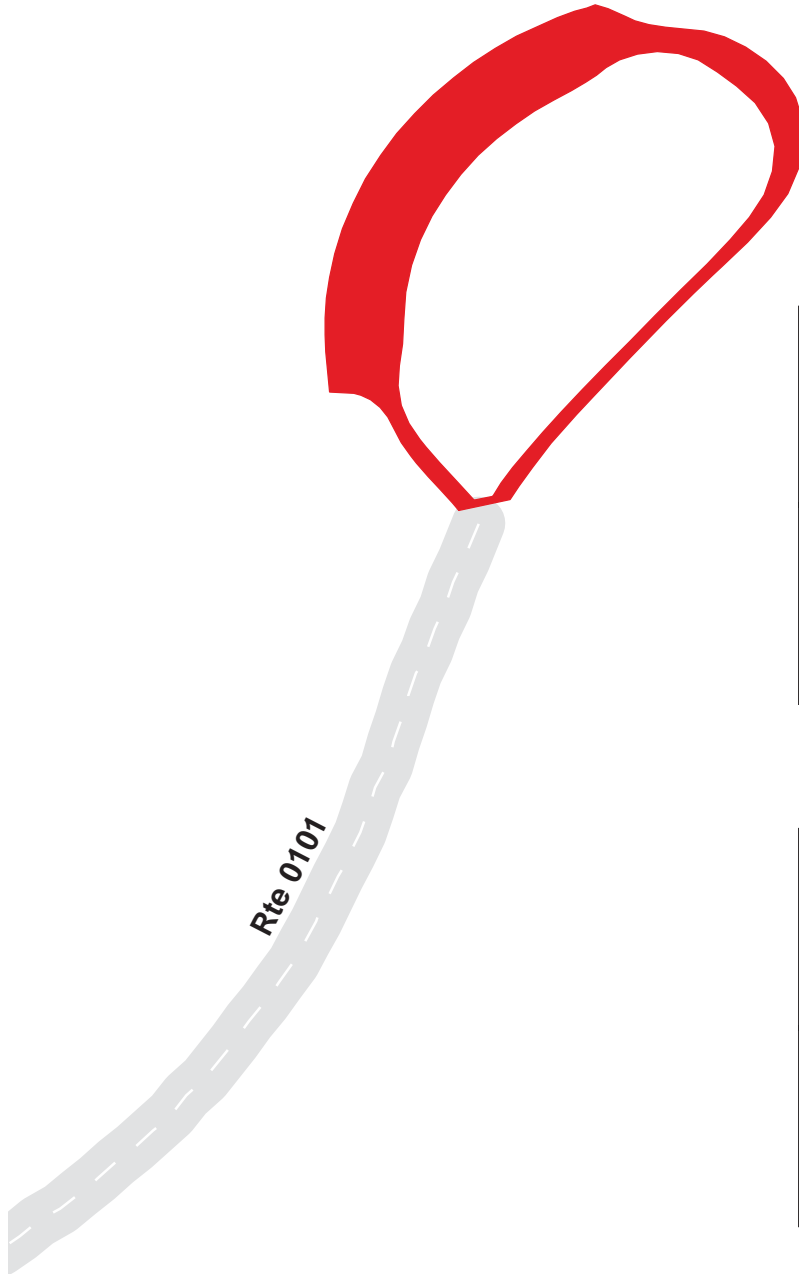
## Route 0907

SPIDER ROCK OVERLOOK PARKING

At End of Route 0101

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0907	Public	5/7/2002	23967	0.41	AS	GOOD / 90

\* Lane miles are based on 11' lane widths



# Canyon de Chelly National Monument

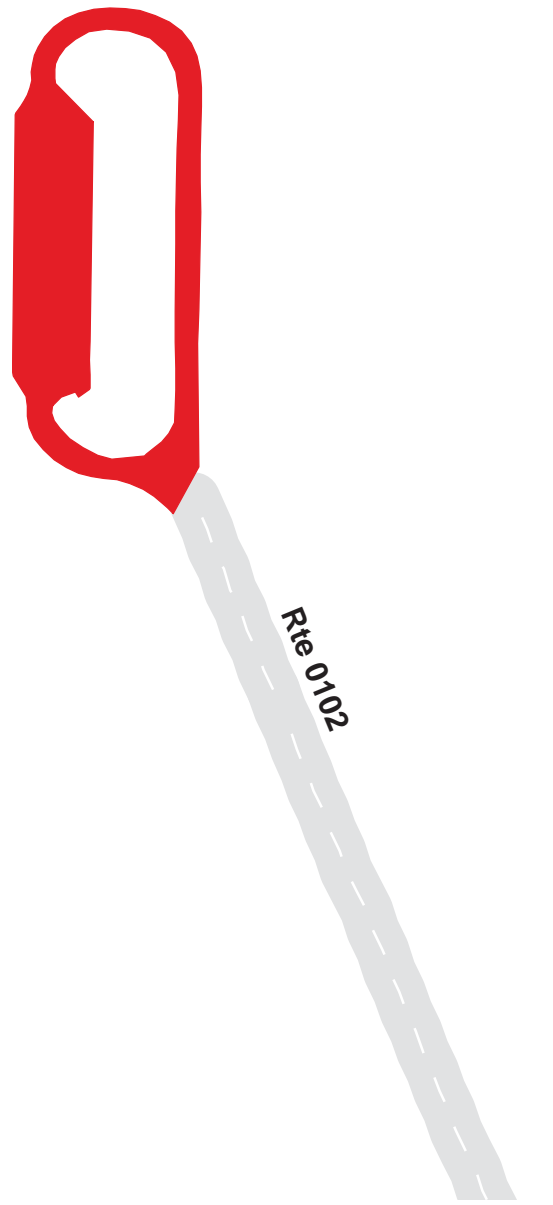
## Route 0908

SLIDING HOUSE OVERLOOK PARKING

At End of Route 0102

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0908	Public	5/7/2002	24549	0.42	AS	FAIR / 73

\* Lane miles are based on 11' lane widths





# Canyon de Chelly National Monument

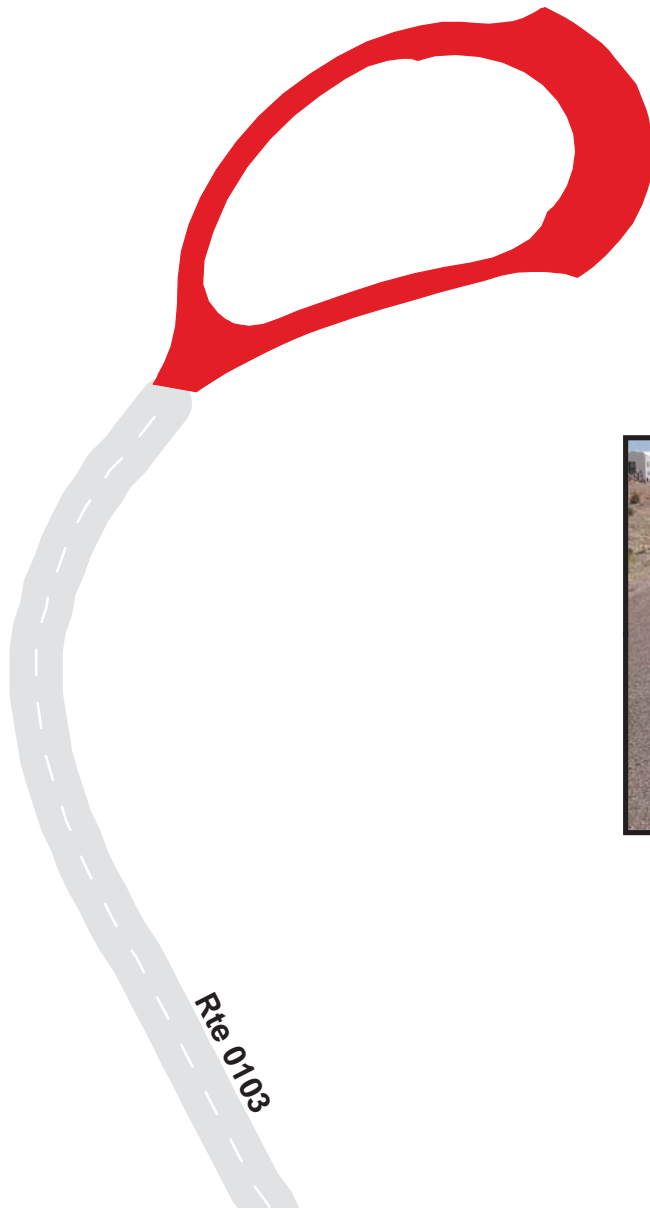
## Route 0909

WHITE HOUSE OVERLOOK PARKING

At End of Route 0103

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0909	Public	5/7/2002	26283	0.45	AS	GOOD / 90

\* Lane miles are based on 11' lane widths



# Canyon de Chelly National Monument

## Route 0910

MASSACRE CAVE OVERLOOK PARKING

At End of Route 0104

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0910	Public	5/7/2002	23560	0.41	OC	FAIR / 73

\* Lane miles are based on 11' lane widths



# Canyon de Chelly National Monument

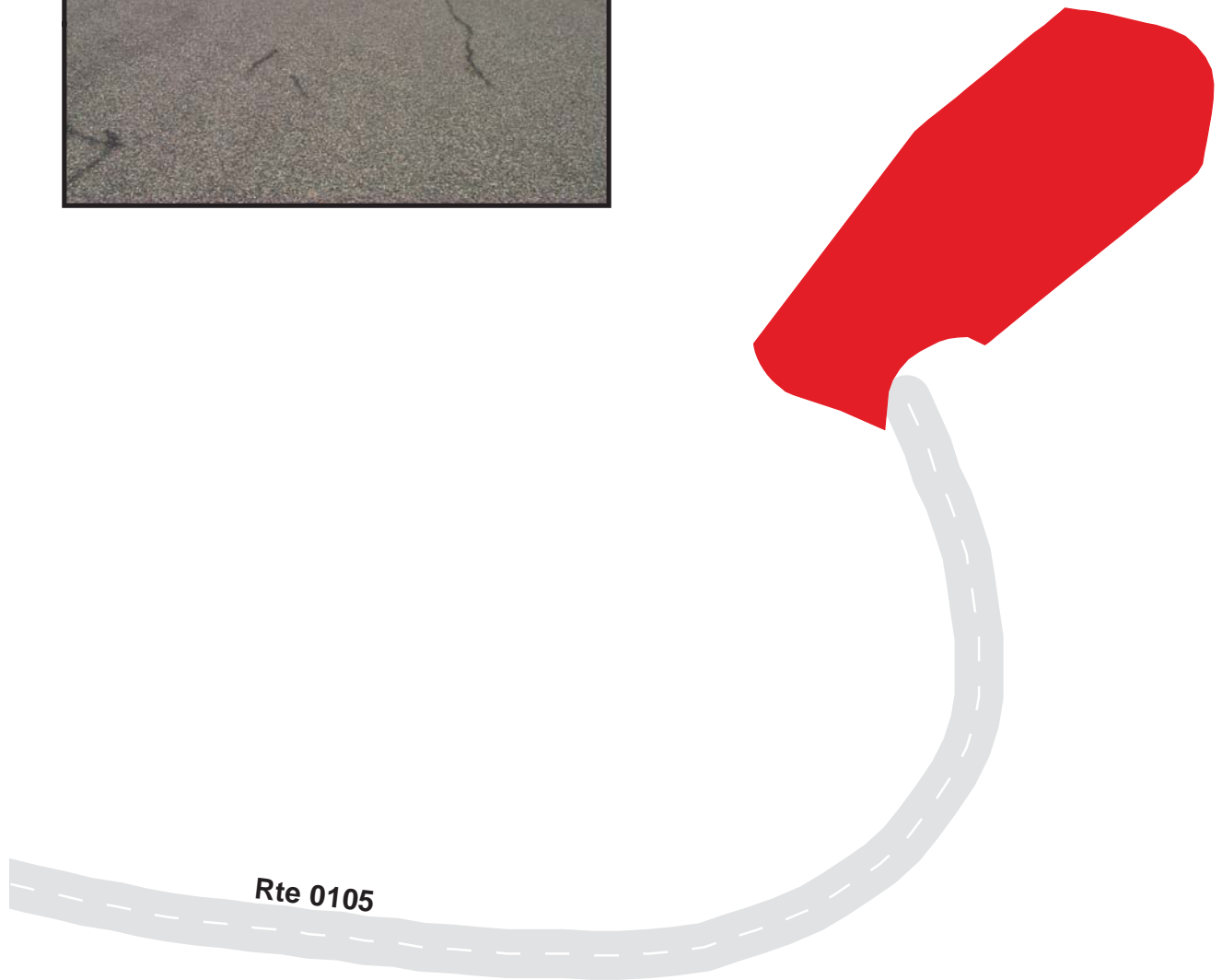
## Route 0911

MUMMY CAVE OVERLOOK PARKING

At End of Route 0105

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0911	Public	5/7/2002	31366	0.54	AS	FAIR / 73

\* Lane miles are based on 11' lane widths





# Canyon de Chelly National Monument

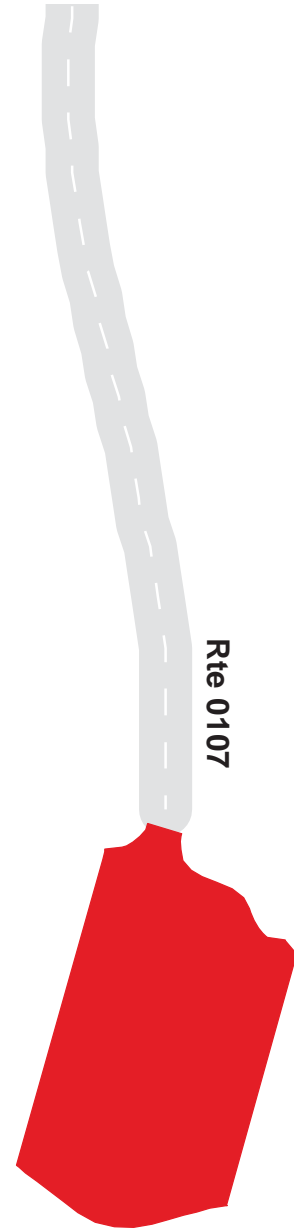
## Route 0912

LEDGE RUIN PARKING

At End of Route 0107

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0912	Public	5/7/2002	29811	0.51	AS	GOOD / 90

\* Lane miles are based on 11' lane widths



# Canyon de Chelly National Monument

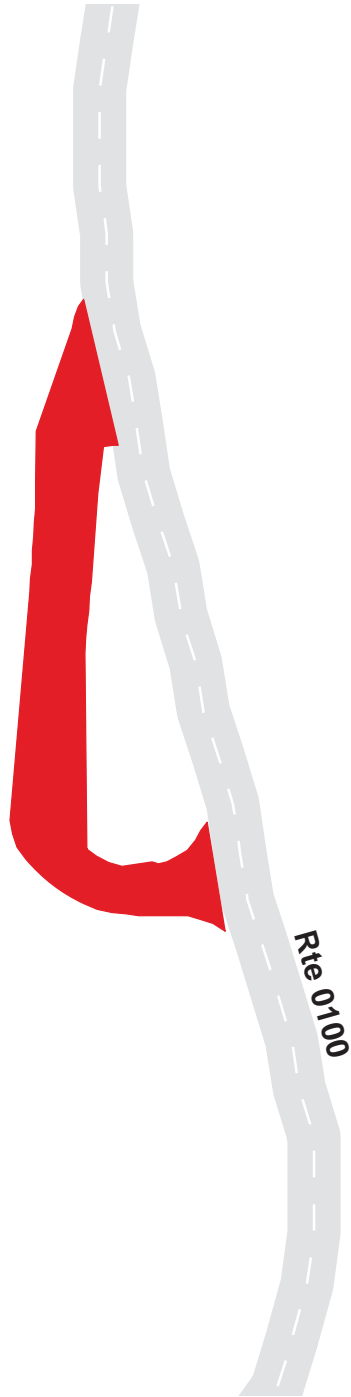
## Route 0914

CANYON TOUR PASSENGER LOADING AREA

From Route 0100 at MP 0.32

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0914	NonPublic	5/7/2002	4890	0.08	AS	GOOD / 90

\* Lane miles are based on 11' lane widths



# Canyon de Chelly National Monument

## Route 0915

FACE ROCK OVERLOOK PARKING  
Adjacent To Route 0101 at MP 3.5 on Left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0915	Public	5/7/2002	2623	0.05	AS	GOOD / 90

\* Lane miles are based on 11' lane widths





# Canyon de Chelly National Monument

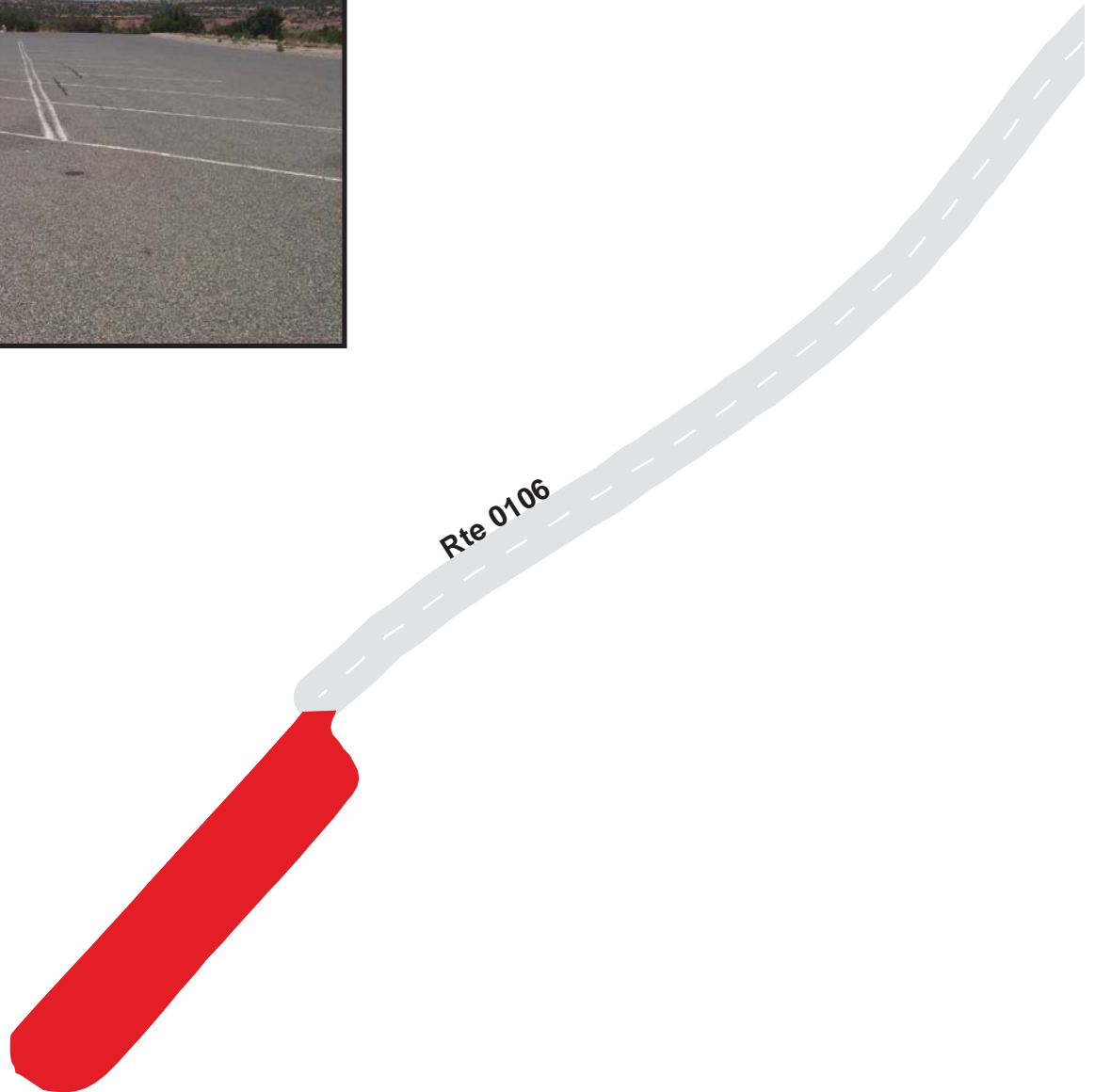
## Route 0916

ANTELOPE HOUSE OVERLOOK PARKING

At End of Route 0106

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0916	Public	5/7/2002	32777	0.56	AS	FAIR / 73

\* Lane miles are based on 11' lane widths



# Canyon de Chelly National Monument

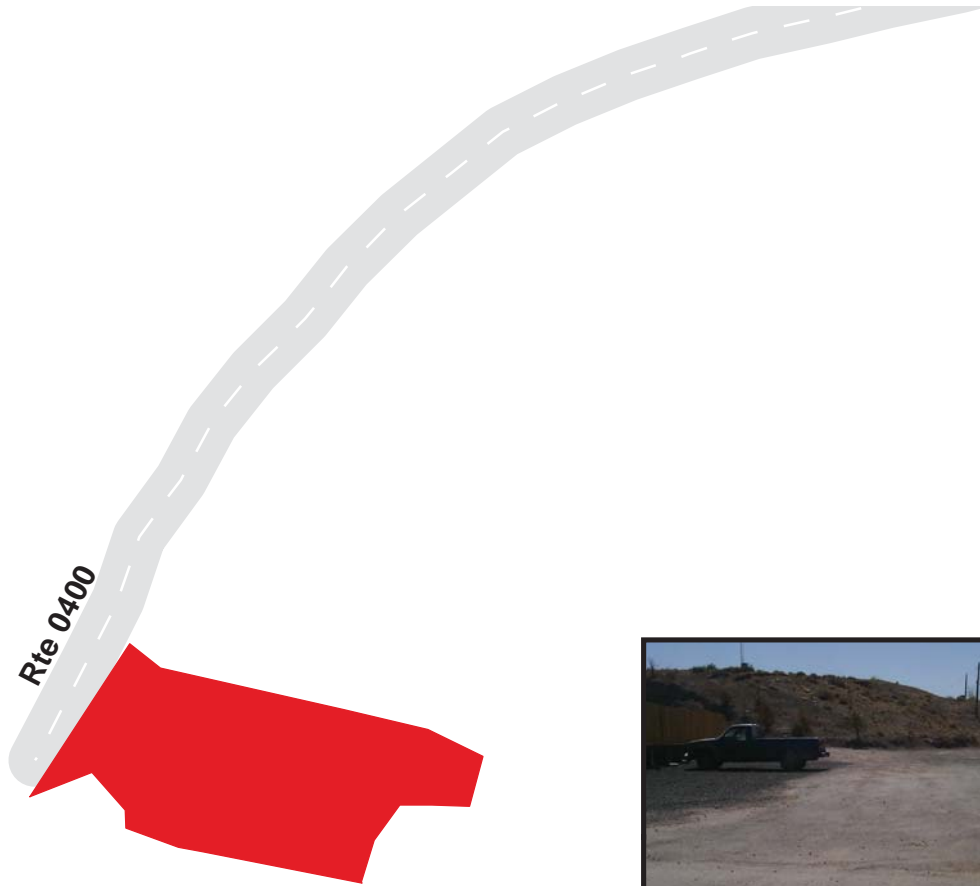
## Route 0917

Maintenance Overflow Parking

Near End of Route 0400 on Left just outside gate

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0917	NonPublic	5/7/2002	3288	0.06	AS	POOR / 45

\* Lane miles are based on 11' lane widths



# ***CACH: PARKWIDE MAINTENANCE FEATURES SUMMARY***

<b><i>FEATURE</i></b>	<b><i>PARK TOTAL</i></b>	<b><i>UNIT</i></b>
BRIDGE	0	EACH
CATTLE GUARD	5	EACH
CULVERT	63	EACH
CURB	44,685	LINEAR FEET
DROP INLET	1	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	665	LINEAR FEET
INTERSECTION	124	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	1	EACH
PAVED DITCH	9,346	LINEAR FEET
PULLOUT	2	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET



# ***CACH: ROUTE MAINTENANCE FEATURES SUMMARY***

<b><i>FEATURE</i></b>	<b><i>ROUTE 0010 SOUTH RIM DRIVE</i></b>	<b><i>ROUTE 0100 LODGE CAMPGROUND ACCESS RD</i></b>	<b><i>ROUTE 0101 SPIDER ROCK OVERLOOK RD</i></b>	<b><i>ROUTE 0102 SLIDING HOUSE OVERLOOK RD</i></b>	<b><i>ROUTE 0103 WHITE HOUSE OVERLOOK RD</i></b>	<b><i>ROUTE 0104 MASSACRE CAVE OVERLOOK RD</i></b>	<b><i>UNIT</i></b>
BRIDGE	0	0	0	0	0	0	EACH
CATTLE GUARD	0	1	0	0	0	2	EACH
CULVERT	36	0	19	1	0	1	EACH
CURB	11,489	158	21,336	1,098	671	3,015	LINEAR FEET
DROP INLET	1	0	0	0	0	0	EACH
GUARD WALL	0	0	0	0	0	0	LINEAR FEET
GUARDRAIL	665	0	0	0	0	0	LINEAR FEET
INTERSECTION	60	11	15	9	3	5	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
PARK BOUNDARY	1	0	0	0	0	0	EACH
PAVED DITCH	8,818	0	0	269	0	0	LINEAR FEET
PULLOUT	0	1	1	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	0	LINEAR FEET

# ***CACH: ROUTE MAINTENANCE FEATURES SUMMARY***

<b><i>FEATURE</i></b>	<b><i>ROUTE 0105 MUMMY CAVE OVERLOOK RD</i></b>	<b><i>ROUTE 0106 ANTELOPE HOUSE OVERLOOK RD</i></b>	<b><i>ROUTE 0107 LEDGE RUIN RD</i></b>	<b><i>ROUTE 0200 CAMPGROUND/MAINTENAN CE ACCESS RD</i></b>	<b><i>ROUTE 0400 PARK MAINTENANCE ACCESS RD</i></b>	<b><i>UNIT</i></b>
BRIDGE	0	0	0	0	0	EACH
CATTLE GUARD	0	1	1	0	0	EACH
CULVERT	0	4	1	0	1	EACH
CURB	3,078	3,691	148	0	0	LINEAR FEET
DROP INLET	0	0	0	0	0	EACH
GUARD WALL	0	0	0	0	0	LINEAR FEET
GUARDRAIL	0	0	0	0	0	LINEAR FEET
INTERSECTION	4	8	4	3	2	EACH
LOW WATER CROSSING	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	EACH
PAVED DITCH	0	259	0	0	0	LINEAR FEET
PULLOUT	0	0	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	EACH
STATE BOUNDARY	0	0	0	0	0	EACH
TRAFFIC LIGHT	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	LINEAR FEET

# ***CACH: ROUTE MAINTENANCE FEATURES ROAD LOG***

## ***ROUTE 0010 : SOUTH RIM DRIVE***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT SOUTH BOUNDRY
0.088	0.088	PARK BOUNDARY	N/A	
0.131	0.131	CULVERT	N/A	
0.234	0.234	DROP INLET	RIGHT	
0.234	0.268	CURB	RIGHT	
0.274	0.274	INTERSECTION	RIGHT	RTE 900
0.292	0.292	INTERSECTION	RIGHT	ROUTE 900
0.346	0.346	INTERSECTION	LEFT	NORTH RIM DRIVE
0.518	0.518	INTERSECTION	LEFT	UNPAVED ROAD
0.519	0.519	INTERSECTION	RIGHT	RTE 100
0.543	0.543	INTERSECTION	RIGHT	UNPAVED
0.700	0.739	CURB	RIGHT	
0.703	0.767	GUARDRAIL	LEFT	
0.728	0.728	CULVERT	N/A	
0.746	0.809	PAVED DITCH	RIGHT	
0.807	0.853	CURB	RIGHT	
0.857	0.961	PAVED DITCH	RIGHT	
0.960	1.039	CURB	RIGHT	
1.045	1.216	PAVED DITCH	RIGHT	



# ***CACH: ROUTE MAINTENANCE FEATURES ROAD LOG***

## ***ROUTE 0010 : SOUTH RIM DRIVE***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
1.050	1.209	PAVED DITCH	LEFT	
1.235	1.235	CULVERT	N/A	
1.266	1.420	PAVED DITCH	LEFT	
1.354	1.354	CULVERT	N/A	
1.418	1.418	INTERSECTION	RIGHT	
1.469	1.469	CULVERT	N/A	
1.686	1.686	CULVERT	N/A	
1.715	1.892	CURB	RIGHT	
1.755	1.755	CULVERT	N/A	
1.869	1.869	INTERSECTION	LEFT	UNPAVED ROAD THROUGH RESIDENTIAL
1.918	1.918	CULVERT	N/A	
1.969	1.998	CURB	LEFT	
1.980	1.980	CULVERT	N/A	
2.119	2.178	CURB	LEFT	
2.120	2.120	INTERSECTION	LEFT	RTE 901
2.123	2.157	CURB	LEFT	
2.126	2.126	CULVERT	N/A	
2.160	2.160	INTERSECTION	LEFT	RTE 901
2.182	2.299	PAVED DITCH	LEFT	

# ***CACH: ROUTE MAINTENANCE FEATURES ROAD LOG***

## ***ROUTE 0010 : SOUTH RIM DRIVE***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
2.266	2.266	CULVERT	N/A	
2.287	2.287	CULVERT	N/A	
2.302	2.302	CULVERT	N/A	
2.315	2.430	PAVED DITCH	LEFT	
2.359	2.359	CULVERT	N/A	
2.417	2.417	INTERSECTION	RIGHT	UNPAVED ROAD
2.458	2.458	CULVERT	N/A	
2.469	2.503	PAVED DITCH	LEFT	
2.496	2.496	INTERSECTION	LEFT	RTE 902
2.550	2.550	INTERSECTION	LEFT	RTE 902
2.588	2.650	GUARDRAIL	LEFT	
2.774	2.774	CULVERT	N/A	
2.803	2.803	CULVERT	N/A	
2.915	2.998	CURB	LEFT	
3.001	3.033	PAVED DITCH	LEFT	
3.141	3.251	PAVED DITCH	LEFT	
3.430	3.430	INTERSECTION	RIGHT	UNPAVED ROAD
3.503	3.792	CURB	RIGHT	
3.526	3.526	CULVERT	N/A	
3.872	3.872	INTERSECTION	LEFT	RTE 903

# ***CACH: ROUTE MAINTENANCE FEATURES ROAD LOG***

## ***ROUTE 0010 : SOUTH RIM DRIVE***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
3.978	4.086	CURB	RIGHT	
4.092	4.092	INTERSECTION	RIGHT	UNPAVED ROAD
4.100	4.196	PAVED DITCH	RIGHT	
4.389	4.389	CULVERT	N/A	
4.486	4.486	CULVERT	N/A	
4.533	4.533	CULVERT	N/A	
4.579	4.579	INTERSECTION	RIGHT	
4.682	4.682	CULVERT	N/A	
4.892	4.892	INTERSECTION	RIGHT	
5.107	5.107	INTERSECTION	RIGHT	
5.263	5.263	INTERSECTION	RIGHT	
5.337	5.337	INTERSECTION	LEFT	RTE 103
5.349	5.349	INTERSECTION	RIGHT	
5.392	5.392	CULVERT	N/A	
5.494	5.494	INTERSECTION	RIGHT	
5.742	5.742	INTERSECTION	RIGHT	UNPAVED ROAD
5.809	5.809	CULVERT	N/A	
5.912	5.969	CURB	LEFT	
5.955	5.955	CULVERT	N/A	
6.073	6.073	INTERSECTION	RIGHT	UNPAVED ROAD



# ***CACH: ROUTE MAINTENANCE FEATURES ROAD LOG***

## ***ROUTE 0010 : SOUTH RIM DRIVE***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
6.173	6.173	INTERSECTION	LEFT	
6.204	6.204	INTERSECTION	RIGHT	
6.254	6.348	CURB	RIGHT	
6.355	6.497	PAVED DITCH	RIGHT	
6.495	6.544	CURB	RIGHT	
6.506	6.506	CULVERT	N/A	
6.611	6.611	INTERSECTION	RIGHT	
6.727	6.727	INTERSECTION	RIGHT	
6.808	6.808	INTERSECTION	RIGHT	
6.935	6.935	CULVERT	N/A	
6.988	6.988	INTERSECTION	LEFT	
6.999	6.999	INTERSECTION	LEFT	
7.195	7.283	CURB	LEFT	
7.273	7.273	INTERSECTION	RIGHT	UNPAVED ROAD
7.362	7.362	CULVERT	N/A	
7.448	7.448	CULVERT	N/A	
7.461	7.461	INTERSECTION	RIGHT	
7.617	7.617	INTERSECTION	RIGHT	
7.707	7.707	CULVERT	N/A	
7.765	7.832	PAVED DITCH	LEFT	

# ***CACH: ROUTE MAINTENANCE FEATURES ROAD LOG***

## ***ROUTE 0010 : SOUTH RIM DRIVE***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
7.834	8.075	CURB	LEFT	
7.860	7.860	INTERSECTION	RIGHT	
7.887	7.887	INTERSECTION	RIGHT	
8.025	8.025	INTERSECTION	RIGHT	HOGHAAN GALLERY
8.098	8.098	INTERSECTION	RIGHT	
8.210	8.210	INTERSECTION	LEFT	
8.437	8.575	PAVED DITCH	RIGHT	
8.442	8.442	INTERSECTION	LEFT	
8.462	8.462	INTERSECTION	RIGHT	
8.761	8.761	INTERSECTION	RIGHT	
9.005	9.005	INTERSECTION	LEFT	RTE 102
9.190	9.190	CULVERT	N/A	
9.281	9.336	PAVED DITCH	LEFT	
9.325	9.325	INTERSECTION	RIGHT	
9.383	9.383	INTERSECTION	RIGHT	
9.388	9.467	CURB	LEFT	
9.762	9.762	INTERSECTION	RIGHT	
9.829	9.935	CURB	LEFT	
9.891	10.115	CURB	RIGHT	
10.058	10.058	CULVERT	N/A	

# ***CACH: ROUTE MAINTENANCE FEATURES ROAD LOG***

## ***ROUTE 0010 : SOUTH RIM DRIVE***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
10.206	10.262	PAVED DITCH	RIGHT	
10.258	10.333	CURB	RIGHT	
10.301	10.301	CULVERT	N/A	
10.324	10.324	CULVERT	N/A	
10.338	10.395	PAVED DITCH	RIGHT	
10.541	10.541	INTERSECTION	RIGHT	
10.618	10.618	CULVERT	N/A	
10.684	10.684	CULVERT	N/A	
10.801	10.817	CURB	LEFT	
10.812	10.812	INTERSECTION	RIGHT	
10.816	10.816	INTERSECTION	LEFT	SPIDER ROCK CAMPGROUND
10.821	10.884	CURB	LEFT	
10.912	10.912	INTERSECTION	RIGHT	
10.972	10.972	INTERSECTION	RIGHT	
10.982	10.982	INTERSECTION	LEFT	
10.983	11.090	CURB	LEFT	
11.016	11.016	INTERSECTION	RIGHT	
11.157	11.157	INTERSECTION	LEFT	
11.162	11.162	INTERSECTION	LEFT	
11.248	11.248	INTERSECTION	LEFT	



# ***CACH: ROUTE MAINTENANCE FEATURES ROAD LOG***

## ***ROUTE 0010 : SOUTH RIM DRIVE***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
11.353	11.353	INTERSECTION	RIGHT	
11.363	11.363	INTERSECTION	RIGHT	UNPAVED ROAD
11.397	11.397	INTERSECTION	LEFT	RTE 101
11.400	11.400			ROUTE ENDS AT RTE 101

# ***CACH: ROUTE MAINTENANCE FEATURES ROAD LOG***

## ***ROUTE 0100 : LODGE CAMPGROUND ACCESS RD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT RTE 010 @ MP 0.53 RIGHT
0.008	0.008	INTERSECTION	BOTH	RTE 010 @ MP 0.53
0.282	0.282	CATTLE GUARD	N/A	
0.289	0.289	INTERSECTION	RIGHT	RTE 200
0.311	0.311	INTERSECTION	RIGHT	RTE 906
0.327	0.327	INTERSECTION	RIGHT	RTE 914
0.363	0.363	INTERSECTION	RIGHT	RTE 914
0.380	0.380	INTERSECTION	LEFT	UNPAVED ROAD
0.405	0.405	INTERSECTION	LEFT	RTE 401
0.425	0.425	INTERSECTION	RIGHT	RTE 906
0.431	0.439	CURB	RIGHT	
0.442	0.442	INTERSECTION	RIGHT	ROUTE 906
0.445	0.467	CURB	RIGHT	
0.447	0.465	PULLOUT	RIGHT	
0.456	0.456	INTERSECTION	LEFT	
0.460	0.460			ROUTE ENDS AT RTE 906
0.470	0.470	INTERSECTION	RIGHT	
0.470	0.470	INTERSECTION	RIGHT	RTE 906

# ***CACH: ROUTE MAINTENANCE FEATURES ROAD LOG***

## ***ROUTE 0101 : SPIDER ROCK OVERLOOK RD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT RTE 010
0.008	0.008	INTERSECTION	RIGHT	RTE 010
0.013	0.082	CURB	RIGHT	
0.091	0.091	INTERSECTION	LEFT	
0.176	0.514	CURB	RIGHT	
0.232	0.232	CULVERT	N/A	
0.271	0.271	CULVERT	N/A	
0.416	0.842	CURB	LEFT	
0.542	0.542	CULVERT	N/A	
0.572	0.572	INTERSECTION	RIGHT	
0.781	0.781	INTERSECTION	RIGHT	NIDAA
0.849	0.849	INTERSECTION	LEFT	
0.851	0.999	CURB	LEFT	
0.854	0.854	INTERSECTION	RIGHT	
0.903	0.933	PULLOUT	RIGHT	
0.995	0.995	INTERSECTION	RIGHT	
1.002	1.002	INTERSECTION	LEFT	
1.003	1.033	CURB	LEFT	
1.539	1.688	CURB	LEFT	
1.610	1.808	CURB	RIGHT	

# ***CACH: ROUTE MAINTENANCE FEATURES ROAD LOG***

## ***ROUTE 0101 : SPIDER ROCK OVERLOOK RD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
1.611	1.611	CULVERT	N/A	
1.722	1.799	CURB	LEFT	
1.809	1.809	INTERSECTION	RIGHT	
1.816	1.883	CURB	RIGHT	
1.933	1.976	CURB	RIGHT	
1.934	1.934	CULVERT	N/A	
1.999	1.999	INTERSECTION	RIGHT	
2.028	2.028	INTERSECTION	RIGHT	
2.062	2.062	CULVERT	N/A	
2.279	2.434	CURB	LEFT	
2.363	2.515	CURB	RIGHT	
2.471	2.511	CURB	LEFT	
2.525	2.533	CURB	RIGHT	
2.537	2.537	CULVERT	N/A	
2.539	2.762	CURB	RIGHT	
2.691	2.691	CULVERT	N/A	
2.744	2.835	CURB	LEFT	
2.815	2.895	CURB	RIGHT	
2.816	2.816	CULVERT	N/A	
2.901	2.901	CULVERT	N/A	



# ***CACH: ROUTE MAINTENANCE FEATURES ROAD LOG***

## ***ROUTE 0101 : SPIDER ROCK OVERLOOK RD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
2.938	2.938	INTERSECTION	LEFT	
2.943	3.027	CURB	RIGHT	
2.949	3.256	CURB	LEFT	
3.073	3.073	CULVERT	N/A	
3.105	3.183	CURB	RIGHT	
3.184	3.184	CULVERT	N/A	
3.253	3.860	CURB	RIGHT	
3.281	3.336	CURB	LEFT	
3.394	3.394	CULVERT	N/A	
3.410	3.410	CULVERT	N/A	
3.496	3.496	INTERSECTION	LEFT	RTE 915
3.614	3.614	CULVERT	N/A	
3.662	3.662	CULVERT	N/A	
3.663	3.722	CURB	LEFT	
3.738	3.738	CULVERT	N/A	
3.747	3.850	CURB	LEFT	
3.901	3.901	CULVERT	N/A	
3.909	3.909	INTERSECTION	RIGHT	
3.914	3.994	CURB	RIGHT	
3.920	3.988	CURB	LEFT	

# ***CACH: ROUTE MAINTENANCE FEATURES ROAD LOG***

## ***ROUTE 0101 : SPIDER ROCK OVERLOOK RD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
4.013	4.013	INTERSECTION	RIGHT	
4.035	4.035	CULVERT	N/A	
4.051	4.151	CURB	LEFT	
4.255	4.461	CURB	LEFT	
4.462	4.462	INTERSECTION	BOTH	RTE 907
4.470	4.470			ROUTE ENDS AT RTE 907

# ***CACH: ROUTE MAINTENANCE FEATURES ROAD LOG***

## ***ROUTE 0102 : SLIDING HOUSE OVERLOOK RD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT RTE 010 @ MP 9.158 LEFT
0.008	0.008	INTERSECTION	BOTH	RTE 010 @ MP 9.158
0.117	0.117	INTERSECTION	RIGHT	
0.207	0.207	INTERSECTION	RIGHT	
0.442	0.442	INTERSECTION	RIGHT	
0.557	0.557	INTERSECTION	RIGHT	
0.711	0.711	INTERSECTION	RIGHT	
0.828	0.917	CURB	LEFT	
0.885	0.922	CURB	RIGHT	
0.921	0.972	PAVED DITCH	RIGHT	
1.141	1.141	INTERSECTION	RIGHT	
1.219	1.219	CULVERT	N/A	
1.220	1.220	INTERSECTION	RIGHT	
1.230	1.230	INTERSECTION	LEFT	
1.325	1.325	INTERSECTION	RIGHT	
1.423	1.505	CURB	RIGHT	
1.607	1.607	INTERSECTION	BOTH	RTE 908
1.610	1.610			ROUTE ENDS AT RTE 908

# ***CACH: ROUTE MAINTENANCE FEATURES ROAD LOG***

## ***ROUTE 0103 : WHITE HOUSE OVERLOOK RD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT RTE 010 @ MP 5.447 LEFT
0.000	0.000	INTERSECTION	BOTH	RTE 010 @ MP 5.447
0.066	0.066	INTERSECTION	RIGHT	
0.482	0.609	CURB	RIGHT	
0.500	0.500	INTERSECTION	LEFT	
0.568	0.568	INTERSECTION	LEFT	
0.580	0.580			ROUTE ENDS AT RTE 909
0.638	0.638	INTERSECTION	BOTH	RTE 909



# ***CACH: ROUTE MAINTENANCE FEATURES ROAD LOG***

## ***ROUTE 0104 : MASSACRE CAVE OVERLOOK RD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT NORTH RIM DRIVE
0.009	0.009	INTERSECTION	BOTH	NORTH RIM DRIVE
0.021	0.021	CATTLE GUARD	N/A	
0.158	0.158	INTERSECTION	RIGHT	
0.215	0.261	CURB	RIGHT	
0.436	0.436	INTERSECTION	RIGHT	
0.459	0.459	INTERSECTION	RIGHT	
0.563	0.563	INTERSECTION	RIGHT	RTE 105
0.574	0.649	CURB	LEFT	
0.593	0.633	CURB	RIGHT	
0.653	0.653	CATTLE GUARD	N/A	
0.691	0.735	CURB	LEFT	
0.776	0.799	CURB	LEFT	
0.828	0.828	INTERSECTION	LEFT	
0.848	0.932	CURB	LEFT	
0.875	0.931	CURB	RIGHT	
0.949	0.949	CULVERT	N/A	
1.007	1.071	CURB	RIGHT	
1.030	1.075	CURB	LEFT	

# ***CACH: ROUTE MAINTENANCE FEATURES ROAD LOG***

## ***ROUTE 0104 : MASSACRE CAVE OVERLOOK RD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
1.263	1.307	CURB	RIGHT	
1.266	1.316	CURB	LEFT	
1.420	1.420			ROUTE ENDS AT RTE 910
1.433	1.433	INTERSECTION	BOTH	RTE 910

# ***CACH: ROUTE MAINTENANCE FEATURES ROAD LOG***

## ***ROUTE 0105 : MUMMY CAVE OVERLOOK RD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT RTE 104 @ MP 0.57 RIGHT
0.010	0.010	INTERSECTION	BOTH	RTE 104 @ MP 0.57
0.157	0.182	CURB	RIGHT	
0.227	0.317	CURB	RIGHT	
0.245	0.303	CURB	LEFT	
0.328	0.328	INTERSECTION	RIGHT	
0.408	0.433	CURB	RIGHT	
0.459	0.459	INTERSECTION	RIGHT	
0.470	0.516	CURB	RIGHT	
0.550	0.578	CURB	RIGHT	
0.554	0.579	CURB	LEFT	
0.579	0.579	INTERSECTION	LEFT	
0.613	0.793	CURB	LEFT	
0.737	0.790	CURB	RIGHT	
0.819	0.833	CURB	LEFT	
0.825	0.825	INTERSECTION	RIGHT	
0.829	0.868	CURB	RIGHT	
0.940	0.940			ROUTE ENDS AT RTE 911
0.950	0.950	INTERSECTION	BOTH	RTE 911

# ***CACH: ROUTE MAINTENANCE FEATURES ROAD LOG***

## ***ROUTE 0106 : ANTELOPE HOUSE OVERLOOK RD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT NORTH RIM DRIVE
0.010	0.010	INTERSECTION	BOTH	NORTH RIM DRIVE
0.019	0.019	CATTLE GUARD	N/A	
0.027	0.045	CURB	RIGHT	
0.082	0.082	INTERSECTION	LEFT	
0.095	0.167	CURB	RIGHT	
0.289	0.328	CURB	LEFT	
0.377	0.411	CURB	RIGHT	
0.387	0.432	CURB	LEFT	
0.417	0.417	INTERSECTION	RIGHT	
0.508	0.508	INTERSECTION	RIGHT	
0.597	0.631	CURB	RIGHT	
0.804	0.804	CULVERT	N/A	
0.877	0.877	INTERSECTION	LEFT	
0.888	0.888	INTERSECTION	RIGHT	
0.902	0.944	CURB	RIGHT	
1.106	1.106	INTERSECTION	LEFT	
1.185	1.185	CULVERT	N/A	
1.223	1.240	CURB	LEFT	



# ***CACH: ROUTE MAINTENANCE FEATURES ROAD LOG***

## ***ROUTE 0106 : ANTELOPE HOUSE OVERLOOK RD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
1.223	1.271	CURB	RIGHT	
1.253	1.285	CURB	LEFT	
1.314	1.314	CULVERT	N/A	
1.349	1.349	CULVERT	N/A	
1.375	1.441	CURB	LEFT	
1.387	1.442	CURB	RIGHT	
1.508	1.508	INTERSECTION	LEFT	
1.510	1.530	CURB	RIGHT	
1.531	1.560	PAVED DITCH	RIGHT	
1.610	1.656	CURB	LEFT	
1.740	1.796	CURB	RIGHT	
1.798	1.818	PAVED DITCH	RIGHT	
1.819	1.894	CURB	RIGHT	
1.999	1.999	INTERSECTION	RIGHT	
2.020	2.020			ROUTE ENDS AT RTE 916
2.033	2.033	INTERSECTION	BOTH	RTE 916

# ***CACH: ROUTE MAINTENANCE FEATURES ROAD LOG***

## ***ROUTE 0107 : LEDGE RUIN RD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT NORTH RIM DRIVE
0.007	0.007	CULVERT	N/A	
0.007	0.007	INTERSECTION	BOTH	NORTH RIM DRIVE
0.019	0.019	CATTLE GUARD	N/A	
0.023	0.023	INTERSECTION	LEFT	
0.259	0.287	CURB	RIGHT	
0.281	0.281	INTERSECTION	RIGHT	
0.337	0.337	INTERSECTION	RIGHT	
0.506	0.506	INTERSECTION	RIGHT	
0.760	0.760			ROUTE ENDS AT RTE 912
0.762	0.762	INTERSECTION	BOTH	RTE 912

# ***CACH: ROUTE MAINTENANCE FEATURES ROAD LOG***

## ***ROUTE 0200 : CAMPGROUND/MAINTENANCE ACCESS RD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT RTE 100 @ MP 0.294 RIGHT
0.010	0.010	INTERSECTION	RIGHT	RTE 100 @ MP 0.294
0.039	0.039	INTERSECTION	RIGHT	
0.083	0.083	INTERSECTION	LEFT	RTE 400
0.098	0.098	INTERSECTION	BOTH	RTE 201
0.100	0.100			ROUTE ENDS AT RTE 201

# ***CACH: ROUTE MAINTENANCE FEATURES ROAD LOG***

## ***ROUTE 0400 : PARK MAINTENANCE ACCESS RD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT RTE 200 @ MP 0.88 LEFT
0.005	0.005	INTERSECTION	BOTH	RTE 200
0.016	0.016	INTERSECTION	LEFT	PRIVATE DRIVE
0.101	0.101	CULVERT	N/A	
0.119	0.119	INTERSECTION	LEFT	RTE 917
0.121	0.121	INTERSECTION	BOTH	MAINTENANCE ROAD
0.130	0.130			ROUTE ENDS AT END



## APPENDIX A: GLOSSARY OF TERMS AND ABBREVIATIONS

<b>TERM OR ABBREVIATION</b>	<b>DESCRIPTION OR DEFINITION</b>
7390	Numeric Code for Canyon de Chelly National Monument
AADT	Annually Adjusted Daily Traffic. Average daily traffic adjusted for the term period comprising 80% of annual visitation
CACH	Alpha Code for Canyon de Chelly National Monument
CRS	Condition Rating Sheets. (Section 5)
Drainage Condition Rating	A visual rating (Good, Poor) of the drainage condition. (see Section 10)
Excellent	Excellent rating with an index value of 95 or greater
Fair	Fair rating with an index value between 61 and 84
Func. Class	Functional Classification (see Route ID, Section 4)
Good	Good rating with an index value between 85 and 94
IRI	International Roughness Index
Lane Width	Distance from road centerline to fogline, or from centerline to edge-of-pavement when no fogline exists
MRR	Manually Rated Route
NA	Not Applicable
NC	Not Collected
Paved Width	Distance from edge-of-pavement to edge-of-pavement
PCR	Pavement Condition Rating (see Section 10)

Poor	Poor Rating with an index value of 60 or less
RCI	Roughness Condition Index
SADT	Seasonal Annual Daily Traffic. Average daily traffic for the total defined "season"
SCR	Surface Condition Rating (see Section 10)
Shoulder Condition Rating	Visual rating (Good, Poor) of the condition of shoulder. (see 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 1 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.

### Rating Index Formulas

**Alligator Cracking Index** =  $100 - [40 * ( \%low/70 + \%medium/30 + \%high/10 )]$

**Longitudinal Cracking Index** =  $100 - [40 * ( \%low/350 + \%medium/200 + \%high/75 )]$

**Transverse Cracking Index** =  $100 - [(20 * ( low/15.1 + medium/7.5)) + (40 * (high/1.9))]$

**Patching Index** =  $100 - [40 * ( \%patching / 80 )]$

**Rutting Index:**  $100 - [40 * ((low/160) + (med/80) + (high/40))]$

**Roughness Condition Index: (RCI)** =  $32 * [5 * e^{(-0.0041 * \text{average IRI})}]$

These 0.02 Distress Rating Index values are then averaged over one mile sections for the mile-by-mile Distress Rating Indexes, Surface Condition Rating (SCR) and Pavement Condition Rating (PCR).

**Surface Condition Rating (SCR)** =  $100 - [(100 - AC\_INDEX) + (100 - LC\_INDEX) + (100 - TC\_INDEX) + (100 - PATCH\_INDEX) + (100 - RUT\_INDEX)]$

**Pavement Condition Rating (PCR)** =  $( SCR * 0.60 ) + ( RCI * 0.40 )$

NOTE: Collection of roughness data is dependant 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.

**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**

Excellent	97
Good	90
Fair	73
Poor	45

### Drainage Condition Rating Definitions

- Good:** Minimal overall drainage problems. If funding were available for pavement maintenance, 25% or less is estimated to correct drainage deficiencies.
- Poor:** Problems exist that jeopardizes the integrity of the road in this section. If funding were available for pavement maintenance, 50% to 100% is estimated to correct drainage deficiencies.

### Drainage Condition Rating Criteria

The following are examples of basic criteria to help the rater to identify the different drainage ratings. While in the field, many other flaws will be discovered, but these criteria should give a feel for where the flaws would apply in the ratings.

#### **Good Drainage**

Most water clears the road prism adequately with little concern of base saturation.

- X Pavement has minor deficiencies that interrupt water flow.
- X Shoulders are mostly adequate as they relate to surrounding terrain. Shoulder design generally coincides with the drainage design.
- X Curbs have deficiencies, but still function without erosion.
- X Down drains are placed properly, but show signs of some deterioration.
- X Culverts are adequate in numbers and size however, minor deficiencies are evident.
- X Ditches are not paved, but solid and have enough area to maintain and carry required volume of water.

#### **Poor Drainage**

This section has areas of inadequate drainage ability that is causing base saturation that could cause a road failure.

- X Pavement grade is irregular and holds dangerous amounts of water (hydroplaning is a concern), or shows massive alligator cracking.
- X Shoulder design induces ponding that encroaches on the pavement (drivers try to avoid ponds).
- X Portions of curbs are missing, allowing water to escape causing erosion.
- X Drop inlets, due to various reasons, are only able to drain 50% or less efficiently.
- X Down drains show signs of water exiting in areas by the down drain causing erosion.
- X Culverts are functionally deficient including size, installation, location, or grade giving water opportunity to saturate the road base.
- X Ditches allow water opportunity to saturate the road base through various reasons such as low places in ditch where design has not allowed for water to drain, little or no room in the road prism for a needed ditch, or water is disappearing within the ditch.

### Shoulder Condition Rating Definitions

- Good:** The shoulder is generally in good functional condition.. If curbs are present, they are functional.
- Poor:** There is no shoulder because erosion has removed it. If curbs are present, they need to be replaced.



### **Shoulder Rating Criteria**

The following are examples of basic criteria to help the rater to identify the different shoulder ratings. While in the field, many other flaws will be discovered, but these criteria should give a feel for where the flaws would apply in the ratings.

#### **Good Shoulders**

- X If shoulder is unpaved drop-offs are less than 1", but grading is required.
- X If shoulder is paved rut depth is less than 1/2", sealed cracks are present, and grading is required.
- X If curbs are present they are functional.

#### **Poor Shoulder**

- X If shoulder is unpaved drop-offs are greater than 4" and erosion has removed the shoulder.
- X If shoulder is paved rut depth is greater than 1". Open cracks are greater than 1/4" deep, and erosion has removed the shoulder.
- X If curbs are present they need replacement.
- X If curbs are present they need repairs, and there is erosion behind the curb.

## **APPENDIX C: DIGITAL IMAGE INFORMATION**

All images collected in Cycle 3 are digital images. These images provide the best resolution for identifying sign inventories and pavement evaluations. The images can be viewed with an interactive software program called **Visi-Data**. Each park will have a copy of the Visi-Data program installed in the park for park personnel to access and use.

Only Cycle 3 data can be queried and reviewed using the Visi-Data software program. This program is a multimedia 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 trying to query. Associated digital right-of-way images from either the LAN, USB port, individual DVD, or from the Visi-web application, can be presented along with the GPS locations.

## APPENDIX D: METADATA

### ARAN ROUTE GPS DATA

Background information of route spatial data.

**GPS Records:** GPS data for NPS routes is stored in the MS Access database for the park. The coordinates of the road traces are stored in the 'PMS\_20' table in the 'GPS\_LAT' and 'GPS\_LON' fields.

**Data Collection Device:**

Vehicle Information: Ford Van  
Type of GPS Unit: NovAtel MiLLennium, 12 channel, dual frequency L1/L2, DGPS ready receiver w/MiLLennium 502 GPS antenna and OmniSTAR System 3000 LR  
Inertial System: Applanix POS LV

**Accuracy:** Expected ground accuracy is 1 meter \*

\*The above accuracy assumes good GPS mission planning resulting in maximum GPS satellite observation and ideal environmental conditions. Due to less than ideal satellite and environmental conditions, some routes may lack the expected ground accuracy.

**Geographic Datum:** WGS 1984

**Post Collection GPS Correction:** Due to unanticipated GPS collection inaccuracies, some route locations have been digitized using DOQQ's and other data sources.

## FHWA – NPS Road Inventory Program Cycle 3 Metadata for the Park Database

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

- Three canned reports are titled “Features in Good Condition”, “Features in Fair Condition,” and “Features in Poor Condition.” These titles could be misleading. In Cycle 3, condition assessments have been conducted on **signs only**. Condition assessments have not been conducted on non-sign features, such as culverts, guardrails, pullouts, etc. Although the database and canned reports might report a default value of “good” for un-assessed features, these condition values are not valid for import into FMSS.
- Database records that show a concrete surface type sometimes include index values that seem to show a perfect roadway (e.g., a Pavement Condition Rating (PCR) of 100). The Road Inventory Program does not actually conduct condition assessments of concrete surfaces. The perfect values are just default values assigned to unassessed sections of pavement and do not represent an assessment of the roadway surface's quality.
- 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\_Visidata 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.

- Most roadway features are collected relative to the primary direction lane of a roadway, using the primary-direction video. Signs are the only features collected using the opposite-direction video.

### **Key to Notes in Tables**

(1): Note that only one value fits in field, so even if this value varies throughout the route, only one value is recorded here.

(2): Note that some MP values listed here are estimates recorded during the Route ID process for use by the data collection crew (e.g. "FROM ROUTE 0010 AT MILEPOST 30.3"). They are estimates only and are not expected to match the more accurate milepost values included elsewhere in the database in the BEG\_MP, END\_MP, and MP fields.

(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. Features along the side of a roadway that are measured using the Surveyor software might not be located very accurately. Surveyor is known to be most accurate when measuring quantities near the center of the video frame, as opposed to in the edges of the video image.

(5): Only signs are evaluated for condition. No other features' conditions are assessed, so "N/A" was originally intended to be the default value for unassessed features. However, some non-sign features do have condition ratings in the database. These are not accurate, because no assessment was ever done on non-sign features.

(6): Condition assessments are not conducted on concrete (CO) surface types. Perfect values for concrete road sections are default values and do not represent a condition assessment of the concrete surfaces.

(7): 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 resolution. 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
RIP_CYCLE	X	3, for data collection cycle 3	Route ID Meeting	FHWA Determination	100%
STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested. (1)
PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	Untested
PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	Untested
RTE_NO	XXXXXX	Route number	Route ID Meeting	Park Input/FHWA Classification	Untested
RTE_NAME	(Text)	Route name	Route ID Meeting	Park Input	Untested. 50 characters fit in field
FUNCT_CLAS	X	Route functional classification	Route ID Meeting	Park Input/FHWA Classification	Untested
DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input/FHWA Determination	Untested
BEG_MP_EST	999.999 (miles)	Estimated starting MP	Route ID Meeting	Park Input/FHWA Determination	Estimated before data collected
END_MP_EST	999.999 (miles)	Estimated ending MP	Route ID Meeting	Park Input/FHWA Determination	Estimated before data collected
RTE_LENGTH	999.999 (miles)	Collected route length	ARAN Data Collection	Automatic Output	100%
FROM_DESC	(Text)	Beginning terminus of route	Route ID Meeting	Park Input/FHWA Determination	Estimated before data collected. (2)
TO_DESC	(Text)	Ending terminus of route	Route ID Meeting	Park Input/FHWA Determination	Estimated before data collected. (2)
NO_LANES	X	Number of lanes in route	ARAN Data Collection	Survey Crew Input	Untested. (1)
SURF_TYPE	XX	Surface type of route	ARAN Data Collection	Survey Crew Input	Untested. (1)
COMP_DIR	XX	Compass direction of route's primary lane (nearest cardinal direction)	Route ID Meeting	Park Input/FHWA Determination	Untested
COMMENTS	(Text)	Special information, if any	Contractor Post-processing	Contractor Input	Untested
FILENAME	XXXXXXXXXX	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
SECTION	XXXXXX	Route section ID	Route ID Meeting/ARAN Data Collection	Survey Crew Input/Automatic Output	100%
FKEY	9999999	Unique record ID	Contractor Post-processing	Database Processing	100%
DATE	DD/MM/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
BEG_MP	999.999 (miles)	Beginning MP collected	ARAN Data Collection	Automatic Output	100% (3)
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
RIP_CYCLE	X	3, for data collection cycle 3	Route ID Meeting	FHWA Determination	100%
STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested. (1)
PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	Untested
PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	Untested
RTE_NO	XXXXXXXX	Route number	Route ID Meeting	Park Input/FHWA Classification	Untested
FUNCT_CLAS	X	Route functional class	Route ID Meeting	Park Input/FHWA Classification	Untested
DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input/FHWA Determination	Untested
MP	999.999 (miles)	Feature location along route	ARAN Data Collection/Contractor Post-processing	Survey Crew Input/Video Processing	Untested (4)
EVENT	XXXX	Event category of feature	Contractor Post-processing	Video Processing	Untested
EVENT_CODE	XXXX	Event sub-category of feature	Contractor Post-processing	Video Processing	Untested
EVENT_DESC	(Text)	Description of feature/contents of sign	Contractor Post-processing	Video Processing	Untested
MUTCD	"N/A"	N/A. Intended to be sign MUTCD code	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to N/A
CONDITION	XXX	Sign condition (G-D, F-R, P-R, N/A)	Contractor Post-processing	Video Processing	Untested (5)
COMMENT	(Text)	Sign label, intersecting route, etc.	Contractor Post-processing	Database Processing	Untested
OFFSET	"N/A"	N/A. Intended to be offset from pavement edge	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to N/A
SIDE	XXX	Side of route; "N/A" if not on one side	Contractor Post-processing	Video Processing	Untested
STR_NUMBER	XXXXXXXXXXX	FHWA bridge structure number	FHWA Post-processing	Database Processing	Untested
GPS_LAT	"N/A"	N/A. Intended to be latitude coordinate	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to N/A
GPS_LON	"N/A"	N/A. Intended to be longitude coordinate	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to N/A
GPS_ELEV	"N/A"	N/A. Intended to be elevation	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to N/A
GPS_MODE	"N/A"	N/A. Intended to be GPS mode	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to N/A
VIDEO	<Park-C03VID-#>	Removable USB video hard drive number	Contractor Post-processing	Database Processing	Untested
IMAGE	(Text)	Filename of .jpg image showing feature	Contractor Post-processing	Automatic Output	Untested
DATE	DD/MM/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
FILENAME	XXXXXXXXXX	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
SECTION	XXXXXX	Route section ID	Route ID Meeting/ARAN Data Collection	Survey Crew Input/Automatic Output	100%
FKEY	9999999	Unique record ID	Contractor Post-processing	Database Processing	100%
VISL_FROM	999999 (millimiles)	Raw MP of first video frame showing feature	Contractor Post-processing	Database Processing	Untested
VISL_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
IDKEY	(Text)	Unique record ID used by VisiData	Contractor Post-processing	Database Processing	Untested
MP_REF	(Text)	Range of mileage to play in VisiData	Contractor Post-processing	Database Processing	Untested

**PMS 20, PMS Mile & PMS Visidata Tables Metadata:**

FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
RIP_CYCLE	X	3, for data collection cycle 3	Route ID Meeting	FHWA Determination	100%
STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested. (1)
PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	Untested
PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	Untested
RTE_NO	XXXXXX	Route number	Route ID Meeting	Park Input/FHWA Classification	Untested
FUNCT_CLASS	X	Route functional class	Route ID Meeting	Park Input/FHWA Classification	Untested
DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input/FHWA Determination	Untested
BEG_MP	999.999 (miles)	MP at start of road interval described by database record	Contractor Post-processing	Database Processing	100% (3)
END_MP	999.999 (miles)	MP at end of road interval described by database record	Contractor Post-processing	Database Processing	100% (3)
INT_LENGTH	999.9 (ft)	Length of road interval as aggregated for data table	Contractor Post-processing	Database Processing	100%
RTE_LENGTH	999.999 (miles)	Collected route length	ARAN Data Collection	Automatic Output	100%
NO_LANES	X	Number of lanes in route	ARAN Data Collection	Survey Crew Input	Untested. (1)
LANE_NO	X	Data collection lane	Contractor Post-processing	Database Processing	Untested
WX_LANE_WIDTH	99.999 (ft)	WiseCrax (crack detection software) analysis width	Contractor Post-processing	Automatic Output	Untested
LANE_WIDTH	99.999 (ft)	Width of lane	Contractor Post-processing	Video Processing	Untested
PAVE_WIDTH	99.999 (ft)	Full pavement width	Contractor Post-processing	Video Processing	Untested
SHLD_WIDTH_L	99.999 (ft)	Left shoulder width	Contractor Post-processing	Video Processing	Untested
SHLD_WIDTH_R	99.999 (ft)	Right shoulder width	Contractor Post-processing	Video Processing	Untested
SHLD_COND_L	XXXX	Left shoulder condition	ARAN Data Collection	Survey Crew Input	Untested
SHLD_COND_R	XXXX	Right shoulder condition	ARAN Data Collection	Survey Crew Input	Untested
DRAIN_COND_L	XXXX	Left drainage condition	ARAN Data Collection	Survey Crew Input	Untested
DRAIN_COND_R	XXXX	Right drainage condition	ARAN Data Collection	Survey Crew Input	Untested
SURF_TYPE	XX	Surface type of route	ARAN Data Collection	Survey Crew Input	Untested. (1)
PCR	999	Pavement Condition Rating	Contractor Post-processing	Database Processing	100% for calculation (6)
RCI	999	Roughness Condition Index; -1 if invalid IRI	Contractor Post-processing	Database Processing	100% for calculation

FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
SCR	999	Surface Condition Rating	Contractor Post-processing	Database Processing	100% for calculation (6)
IRI_AVG	999.9 (inches/mile)	Average IRI	Contractor Post-processing	Database Processing	Untested
IRI_SD	999.9 (inches/mile)	IRI standard deviation	Contractor Post-processing	Database Processing	Untested
IRI_L	999.9 (inches/mile)	Left wheel path IRI	ARAN Data Collection	Automatic Output	Untested
IRI_R	999.9 (inches/mile)	Right wheel path IRI	ARAN Data Collection	Automatic Output	Untested
IRI_FLAG	0 or -1	-1 if invalid IRI data	Contractor Post-processing	Database Processing	Untested
RUT_INDEX	999	Rut index	Contractor Post-processing	Database Processing	100% for calculation (6)
RUT_AVG	99.99 (inches)	Average rut depth of both wheelpaths	Contractor Post-processing	Database Processing	Untested (6)
RUT_MAX	99.99 (inches)	Maximum rut depth of both wheelpaths	Contractor Post-processing	Database Processing	Untested (6)
RUT_SD	9.9	Rut depth standard deviation	Contractor Post-processing	Database Processing	Untested (6)
RUT_LOW	999 (%)	Percent of low severity ruts (on a 0-200% scale) in both wheelpaths	Contractor Post-processing	Database Processing	Untested (6)
RUT_MED	999 (%)	Percent of medium severity ruts (on a 0-200% scale) in both wheelpaths	Contractor Post-processing	Database Processing	Untested (6)
RUT_HI	999 (%)	Percent of high severity ruts (on a 0-200% scale) in both wheelpaths	Contractor Post-processing	Database Processing	Untested (6)
XFALL	999.9 (% slope)	Cross fall at start of road interval	ARAN Data Collection	Automatic Output	Precise but inaccurate. Not reported in Cycle 4
GRADE	999.9 (% slope)	Grade at start of road interval	ARAN Data Collection	Automatic Output	Precise but inaccurate. Not reported in Cycle 4
AC_INDEX	999	Alligator cracking index	Contractor Post-processing	Database Processing	100% for calculation (6)
AC_LOW	999.9999 (%)	Percent of WiseCrax measured lane area with low-severity alligator cracking	Contractor Post-processing	Automatic Output	(6) (7)
AC_MED	999.9999 (%)	Percent of WiseCrax measured lane area with medium-severity alligator cracking	Contractor Post-processing	Automatic Output	(6) (7)
AC_HI	999.9999 (%)	Percent of WiseCrax measured lane area with high-severity alligator cracking	Contractor Post-processing	Automatic Output	(6) (7)
LC_INDEX	999	Longitudinal cracking index	Contractor Post-processing	Database Processing	100% for calculation (6)
LC_LOW	999.99 (%)	Low-severity longitudinal cracking in lane as a percentage of road interval length	Contractor Post-processing	Automatic Output	(6) (7)
LC_MED	999.99 (%)	Medium-severity longitudinal cracking in lane as a percentage of road interval length	Contractor Post-processing	Automatic Output	(6) (7)
LC_HI	999.99 (%)	High-severity longitudinal cracking in lane as a percentage of road interval length	Contractor Post-processing	Automatic Output	(6) (7)
TC_INDEX	999	Transverse cracking index	Contractor Post-processing	Database Processing	100% for calculation (6)
TC_LOW	999.99 (cracks)	Count of low-severity transverse cracks, where one crack unit equals the WiseCrax measured lane width	Contractor Post-processing	Automatic Output	(6) (7)
TC_MED	999.99 (cracks)	Count of medium-severity transverse cracks, where one crack unit equals the WiseCrax measured lane width	Contractor Post-processing	Automatic Output	(6) (7)
TC_HI	999.99 (cracks)	Count of high-severity transverse cracks, where one crack unit equals the WiseCrax measured lane width	Contractor Post-processing	Automatic Output	(6) (7)
PATCH_INDEX	999	Patching index	Contractor Post-processing	Database Processing	100% for calculation (6)

FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
PATCHING	999.9999 (%)	Percent of WiseCrax measured lane area affected by patching	Contractor Post-processing	Manual Pavement Video Processing	Untested (6)
GPS_LAT	999.9999999	Latitude coordinate	ARAN Data Collection	Automatic Output	See GPS Metadata sheet distributed with data
GPS_LON	-999.9999999	Longitude coordinate	ARAN Data Collection	Automatic Output	See GPS Metadata sheet distributed with data
GPS_ELEV	999999.9	Elevation	ARAN Data Collection	Automatic Output	See GPS Metadata sheet distributed with data
GPS_MODE	XXX	GPS mode during collection	ARAN Data Collection	Automatic Output	See GPS Metadata sheet distributed with data
VIDEO	<Par/>C03VID<#>	Removable USB video hard drive number	Contractor Post-processing	Database Processing	Untested
IMAGE	(Text)	Filename of .jpg image showing road interval	Contractor Post-processing	Automatic Output	Untested
SPEED	999 (miles/hour)	Average ARAN speed during data collection	ARAN Data Collection	Automatic Output	Untested
BRIDGE_FLAG	0 or 1	Flag indicating presence of bridge in interval	ARAN Data Collection	Survey Crew Input	Untested
CONSTR_FLAG	0 or 1	Flag indicating construction in interval	ARAN Data Collection	Survey Crew Input	Untested
LANEDEV_FLG	0 or 1	Flag indicating lane deviation in interval	ARAN Data Collection	Survey Crew Input	Untested
DATE	DD/MM/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
NODISTRESS	0 OR 1	Flag indicating absence of pavement distress	Contractor Post-processing	Database Processing	100%
FILENAME	XXXXXXXXXX	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
SECTION	XXXXXX	Route section ID	Route ID Meeting/ARAN Data Collection	Survey Crew Input/Automatic Output	100%
FKEY	9999999	Unique record ID	Contractor Post-processing	Database Processing	100%
VISL_FROM	999999 (millimiles)	Raw MP of first video frame in section	Contractor Post-processing	Database Processing	Untested
VISL_TO	999999 (millimiles)	Raw MP of last video frame in section	Contractor Post-processing	Database Processing	Untested
IDKEY	(Text)	Unique record ID used by VisiData	Contractor Post-processing	Database Processing	Untested
MP_REF	(Text)	Range of mileage to play in VisiData	Contractor Post-processing	Database Processing	Untested



## **Cycle   Shapefile Metadata**

Metadata is provided for all shapefiles used for the creation of RIP report documents. The metadata for each shapefile associated with the park can be found in Section 10 of the PDF report provided on your park CD.

All shapefiles have the following spatial characteristics:

*Geographic\_Coordinate\_Units*: Decimal degrees  
*Spheroid*: WGS 1984





# cach\_seg

Metadata also available as

## Metadata:

- [Identification Information](#)
  - [Data Quality Information](#)
  - [Spatial Data Organization Information](#)
  - [Spatial Reference Information](#)
  - [Entity and Attribute Information](#)
  - [Distribution Information](#)
  - [Metadata Reference Information](#)
- 

### *Identification\_Information:*

#### *Citation:*

##### *Citation\_Information:*

*Originator:* The TSR Group

*Publication\_Date:* 2005

*Title:* cach\_seg

*Geospatial\_Data\_Presentation\_Form:* vector digital data

*Online\_Linkage:* Not Available

#### *Description:*

*Abstract:* Routes

*Purpose:* Road Inventory Program

##### *Supplemental\_Information:*

Data created by The TSR Group from GPS coordinates provided in the PMS\_20 table. The shapefile is processed to aggregate adjacent segments with the same PCR rating.

#### *Time\_Period\_of\_Content:*

##### *Time\_Period\_Information:*

##### *Single\_Date/Time:*

*Calendar\_Date:* 2005

*Currentness\_Reference:* ground condition

#### *Status:*

*Progress:* Complete

*Maintenance\_and\_Update\_Frequency:* As per RIP cycle

#### *Spatial\_Domain:*

##### *Bounding\_Coordinates:*

*West\_Bounding\_Coordinate:* -109.544121

*East\_Bounding\_Coordinate:* -109.356827

*North\_Bounding\_Coordinate:* 36.238995

*South\_Bounding\_Coordinate:* 36.070423

#### *Keywords:*

##### *Theme:*

*Theme\_Keyword\_Thesaurus:* CACH

*Theme\_Keyword:* CACH

*Access\_Constraints:* None

*Use\_Constraints:* Redistribution needs permission from EFLHD/NPS

*Point\_of\_Contact:*

*Contact\_Information:*

*Contact\_Person\_Primary:*

*Contact\_Person:* Dan VanGilder

*Contact\_Organization:* EFLHD

*Contact\_Position:* GIS Coordinator

*Contact\_Address:*

*Address\_Type:* mailing and physical address

*Address:* 21400 Ridgetop Circle

*City:* Sterling

*State\_or\_Province:* Virginia

*Postal\_Code:* 20166

*Country:* United States

*Contact\_Voice\_Telephone:* 703-404-6361

*Contact\_Electronic\_Mail\_Address:* dvangilder@fhwa.dot.gov

*Native\_Data\_Set\_Environment:*

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog  
8.3.0.800

---

*Data\_Quality\_Information:*

*Attribute\_Accuracy:*

*Attribute\_Accuracy\_Report:* Good

*Completeness\_Report:* Complete for routes

*Lineage:*

*Source\_Information:*

*Type\_of\_Source\_Media:* GPS

---

*Spatial\_Data\_Organization\_Information:*

*Direct\_Spatial\_Reference\_Method:* Vector

*Point\_and\_Vector\_Object\_Information:*

*SDTS\_Terms\_Description:*

*SDTS\_Point\_and\_Vector\_Object\_Type:* String

*Point\_and\_Vector\_Object\_Count:* 138

---

*Spatial\_Reference\_Information:*

*Horizontal\_Coordinate\_System\_Definition:*

*Geographic:*

*Latitude\_Resolution:* 0.000000

*Longitude\_Resolution:* 0.000000

*Geographic\_Coordinate\_Units:* Decimal degrees

*Geodetic\_Model:*

*Horizontal\_Datum\_Name:* North American Datum of 1927

*Ellipsoid\_Name:* Clarke 1866



*Semi-major\_Axis:* 6378206.400000  
*Denominator\_of\_Flattening\_Ratio:* 294.978698

---

*Entity\_and\_Attribute\_Information:*

*Detailed\_Description:*

*Entity\_Type:*

*Entity\_Type\_Label:* cach\_seg

*Attribute:*

*Attribute\_Label:* FID

*Attribute\_Definition:* Internal feature number.

*Attribute\_Definition\_Source:* ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:*

Sequential unique whole numbers that are automatically generated.

*Attribute:*

*Attribute\_Label:* Shape

*Attribute\_Definition:* Feature geometry.

*Attribute\_Definition\_Source:* ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* Coordinates defining the features.

*Attribute:*

*Attribute\_Label:* FNODE\_

*Attribute\_Definition:* Length of feature

*Attribute\_Definition\_Source:* ESRI

*Attribute:*

*Attribute\_Label:* TNODE\_

*Attribute:*

*Attribute\_Label:* LPOLY\_

*Attribute\_Definition:* Route number

*Attribute\_Definition\_Source:* Route ID Meeting

*Attribute:*

*Attribute\_Label:* RPOLY\_

*Attribute\_Definition:* Collected route length

*Attribute\_Definition\_Source:* ARAN Data Collection

*Attribute:*

*Attribute\_Label:* LENGTH

*Attribute\_Definition:*

Numeric PCR definition. Average PCR value based on programatic averaging of adjacent segments.

*Attribute\_Domain\_Values:*

*Range\_Domain:*

*Range\_Domain\_Minimum:* 0

*Range\_Domain\_Maximum:* 100

*Attribute:*

*Attribute\_Label:* CACH\_SEG\_

*Attribute\_Definition:* Verbal PCR definition based on value in PCRAV field

*Attribute\_Domain\_Values:*

*Enumerated\_Domain:*

*Enumerated\_Domain\_Value:* POOR

*Enumerated\_Domain\_Value\_Definition:* PCR value <= 60  
*Enumerated\_Domain:*  
*Enumerated\_Domain\_Value:* FAIR  
*Enumerated\_Domain\_Value\_Definition:* PCR value 61-84  
*Enumerated\_Domain:*  
*Enumerated\_Domain\_Value:* GOOD  
*Enumerated\_Domain\_Value\_Definition:* PCR value 85-94  
*Enumerated\_Domain:*  
*Enumerated\_Domain\_Value:* EXCELLENT  
*Enumerated\_Domain\_Value\_Definition:* PCR value 95-100

*Attribute:*

*Attribute\_Label:* CACH\_SEG\_I  
*Attribute\_Definition:* Indicates whether feature has been edited for graphic purposes.  
*Attribute\_Domain\_Values:*  
*Enumerated\_Domain:*  
*Enumerated\_Domain\_Value:* 1  
*Enumerated\_Domain\_Value\_Definition:* Edit has been made to feature for graphic purposes  
*Enumerated\_Domain:*  
*Enumerated\_Domain\_Value:* 0  
*Enumerated\_Domain\_Value\_Definition:* No edit made to feature.

*Attribute:*

*Attribute\_Label:* ID

*Attribute:*

*Attribute\_Label:* RTE\_NO

*Attribute:*

*Attribute\_Label:* BMP

*Attribute:*

*Attribute\_Label:* EMP

*Attribute:*

*Attribute\_Label:* PCR

*Attribute:*

*Attribute\_Label:* PCR\_RATE

*Attribute:*

*Attribute\_Label:* RT\_LENGTH

*Attribute:*

*Attribute\_Label:* PCRMI

*Attribute:*

*Attribute\_Label:* PCR\_RATEMI

*Attribute:*

*Attribute\_Label:* PCR\_RATEAV

*Attribute:*

*Attribute\_Label:* PCRAV

*Attribute:*

*Attribute\_Label:* TSR\_EDIT

*Distribution\_Information:*

*Resource\_Description:* Downloadable Data

*Standard\_Order\_Process:*

*Digital\_Form:*  
*Digital\_Transfer\_Information:*  
*Transfer\_Size:* 0.016

---

*Metadata\_Reference\_Information:*  
*Metadata\_Date:* 20051220  
*Metadata\_Contact:*  
*Contact\_Information:*  
*Contact\_Organization\_Primary:*  
*Contact\_Organization:* EFLHD Sterling  
*Contact\_Person:* Dan VanGilder  
*Contact\_Position:* GIS Coordinator  
*Contact\_Address:*  
*Address\_Type:* mailing and physical address  
*City:* Sterling  
*State\_or\_Province:* Virginia  
*Postal\_Code:* 20166  
*Country:* United States  
*Contact\_Voice\_Telephone:* 703-404-6361  
*Contact\_Electronic\_Mail\_Address:* dvangilder@fhwa.dot.gov  
*Metadata\_Standard\_Name:* FGDC Content Standards for Digital Geospatial Metadata  
*Metadata\_Standard\_Version:* FGDC-STD-001-1998  
*Metadata\_Time\_Convention:* local time  
*Metadata\_Extensions:*  
*Online\_Linkage:* <<http://www.esri.com/metadata/esriprof80.html>>  
*Profile\_Name:* ESRI Metadata Profile

---

Generated by [mp](#) version 2.7.33 on Tue Dec 20 08:58:46 2005

# cach\_mi\_pt

Metadata also available as

## Metadata:

- [Identification Information](#)
  - [Data Quality Information](#)
  - [Spatial Data Organization Information](#)
  - [Spatial Reference Information](#)
  - [Entity and Attribute Information](#)
  - [Distribution Information](#)
  - [Metadata Reference Information](#)
- 

### *Identification\_Information:*

#### *Citation:*

##### *Citation\_Information:*

*Originator:* The TSR Group

*Publication\_Date:* 2005

*Title:* cach\_mi\_pt

*Geospatial\_Data\_Presentation\_Form:* vector digital data

*Online\_Linkage:* Not Available

#### *Description:*

*Abstract:* Mile Points

*Purpose:* Road Inventory Program

##### *Supplemental\_Information:*

Data created by The TSR Group from GPS coordinates provided in the PMS\_20 table. All attributes found in the PMS\_20 table are found on the miles points.

#### *Time\_Period\_of\_Content:*

##### *Time\_Period\_Information:*

*Single\_Date/Time:*

*Calendar\_Date:* 2005

*Currentness\_Reference:* ground condition

#### *Status:*

*Progress:* Complete

*Maintenance\_and\_Update\_Frequency:* Not Available

#### *Spatial\_Domain:*

##### *Bounding\_Coordinates:*

*West\_Bounding\_Coordinate:* -109.544121

*East\_Bounding\_Coordinate:* -109.362946

*North\_Bounding\_Coordinate:* 36.237129

*South\_Bounding\_Coordinate:* 36.070423

#### *Keywords:*

##### *Theme:*

*Theme\_Keyword\_Thesaurus:* CACH

*Theme\_Keyword:* CACH

*Access\_Constraints:* None

*Use\_Constraints:* Redistribution needs permission from EFLHD/NPS

*Point\_of\_Contact:*

*Contact\_Information:*

*Contact\_Person\_Primary:*

*Contact\_Person:* Dan VanGilder

*Contact\_Organization:* EFLHD Sterling

*Contact\_Position:* GIS Coordinator

*Contact\_Address:*

*Address\_Type:* mailing and physical address

*Address:* 21400 Ridgetop Circle

*City:* Sterling

*State\_or\_Province:* Virginia

*Postal\_Code:* 20166

*Country:* United States

*Contact\_Voice\_Telephone:* 703-404-6361

*Contact\_Electronic\_Mail\_Address:* dvangilder@fhwa.dot.gov

*Native\_Data\_Set\_Environment:*

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog  
8.3.0.800

---

*Data\_Quality\_Information:*

*Attribute\_Accuracy:*

*Attribute\_Accuracy\_Report:* Good

*Completeness\_Report:* Complete for mile points

*Lineage:*

*Source\_Information:*

*Type\_of\_Source\_Media:* GPS

---

*Spatial\_Data\_Organization\_Information:*

*Direct\_Spatial\_Reference\_Method:* Vector

*Point\_and\_Vector\_Object\_Information:*

*SDTS\_Terms\_Description:*

*SDTS\_Point\_and\_Vector\_Object\_Type:* Entity point

*Point\_and\_Vector\_Object\_Count:* 31

---

*Spatial\_Reference\_Information:*

*Horizontal\_Coordinate\_System\_Definition:*

*Geographic:*

*Latitude\_Resolution:* 0.000000

*Longitude\_Resolution:* 0.000000

*Geographic\_Coordinate\_Units:* Decimal degrees

*Geodetic\_Model:*

*Horizontal\_Datum\_Name:* North American Datum of 1927

*Ellipsoid\_Name:* Clarke 1866

*Semi-major\_Axis:* 6378206.400000



*Denominator\_of\_Flattening\_Ratio:* 294.978698

---

*Entity\_and\_Attribute\_Information:*

*Detailed\_Description:*

*Entity\_Type:*

*Entity\_Type\_Label:* cach\_mi\_pt

*Attribute:*

*Attribute\_Label:* FID

*Attribute\_Definition:* Internal feature number.

*Attribute\_Definition\_Source:* ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:*

Sequential unique whole numbers that are automatically generated.

*Attribute:*

*Attribute\_Label:* Shape

*Attribute\_Definition:* Feature geometry.

*Attribute\_Definition\_Source:* ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* Coordinates defining the features.

*Attribute:*

*Attribute\_Label:* RIP\_CYCLE

*Attribute\_Definition:* 3, for data collection cycle 3

*Attribute\_Definition\_Source:* Route ID Meeting

*Attribute:*

*Attribute\_Label:* STATE

*Attribute\_Definition:* State where route is located

*Attribute\_Definition\_Source:* Route ID Meeting

*Attribute:*

*Attribute\_Label:* PARK\_ALPHA

*Attribute\_Definition:* Park alpha code

*Attribute\_Definition\_Source:* Route ID Meeting

*Attribute:*

*Attribute\_Label:* PARK\_NO

*Attribute\_Definition:* Park numeric code

*Attribute\_Definition\_Source:* Route ID Meeting

*Attribute:*

*Attribute\_Label:* RTE\_NO

*Attribute\_Definition:* Route number

*Attribute\_Definition\_Source:* Route ID Meeting

*Attribute:*

*Attribute\_Label:* FUNCT\_CLAS

*Attribute\_Definition:* Route functional class

*Attribute\_Definition\_Source:* Route ID Meeting

*Attribute:*

*Attribute\_Label:* DIRECTION

*Attribute\_Definition:* Survey lane: PRI (primary) or OPP (opposite)

*Attribute\_Definition\_Source:* Route ID Meeting

*Attribute:*

*Attribute\_Label:* BEG\_MP

*Attribute\_Definition:* MP at end of road interval described by database record

*Attribute\_Definition\_Source:* Contractor Post-processing

*Attribute:*

*Attribute\_Label:* END\_MP

*Attribute\_Definition:* MP at end of road interval described by database record

*Attribute\_Definition\_Source:* Contractor Post-processing

*Attribute:*

*Attribute\_Label:* INT\_LENGTH

*Attribute\_Definition:* Length of road interval as aggregated from data table

*Attribute\_Definition\_Source:* Contractor Post-processing

*Attribute:*

*Attribute\_Label:* RTE\_LENGTH

*Attribute\_Definition:* Collected route length

*Attribute\_Definition\_Source:* ARAN Data Collection

*Attribute:*

*Attribute\_Label:* NO\_LANES

*Attribute\_Definition:* Number of lanes in route

*Attribute\_Definition\_Source:* ARAN Data Collection

*Attribute:*

*Attribute\_Label:* LANE\_NO

*Attribute\_Definition:* Data collection lane

*Attribute\_Definition\_Source:* Contractor Post-processing

*Attribute:*

*Attribute\_Label:* WX\_LANE\_WI

*Attribute\_Definition:* WiseCrax (crack detection software) analysis width

*Attribute\_Definition\_Source:* Contractor Post-processing

*Attribute:*

*Attribute\_Label:* LANE\_WIDTH

*Attribute\_Definition:* Width of lane

*Attribute\_Definition\_Source:* Contractor Post-processing

*Attribute:*

*Attribute\_Label:* PAVE\_WIDTH

*Attribute\_Definition:* Full pavement width

*Attribute\_Definition\_Source:* Contractor Post-processing

*Attribute:*

*Attribute\_Label:* SHLD\_WIDTH

*Attribute\_Definition:* Left shoulder width

*Attribute\_Definition\_Source:* Contractor Post-processing

*Attribute:*

*Attribute\_Label:* SHLD\_WID\_1

*Attribute\_Definition:* Right shoulder width

*Attribute\_Definition\_Source:* Contractor Post-processing

*Attribute:*

*Attribute\_Label:* SHLD\_COND\_

*Attribute\_Definition:* Left shoulder condition

*Attribute\_Definition\_Source:* ARAN Data Collection

*Attribute:*

*Attribute\_Label:* SHLD\_COND1

*Attribute\_Definition:* Right shoulder condition

*Attribute\_Definition\_Source:* ARAN Data Collection

*Attribute:*

*Attribute\_Label:* DRAIN\_COND  
*Attribute\_Definition:* Left drainage condition  
*Attribute\_Definition\_Source:* ARAN Data Collection

*Attribute:*

*Attribute\_Label:* DRAIN\_CO\_1  
*Attribute\_Definition:* Right drainage condition  
*Attribute\_Definition\_Source:* ARAN Data Collection

*Attribute:*

*Attribute\_Label:* SURF\_TYPE  
*Attribute\_Definition:* Surface type of route  
*Attribute\_Definition\_Source:* ARAN Data Collection

*Attribute:*

*Attribute\_Label:* PCR  
*Attribute\_Definition:* Pavement Condition Rating  
*Attribute\_Definition\_Source:* Contractor Post-processing

*Attribute:*

*Attribute\_Label:* RCI  
*Attribute\_Definition:* Roughness Condition Index; -1 if invalid IRI  
*Attribute\_Definition\_Source:* Contractor Post-processing

*Attribute:*

*Attribute\_Label:* SCR  
*Attribute\_Definition:* Surface Condition Rating  
*Attribute\_Definition\_Source:* Contractor Post-processing

*Attribute:*

*Attribute\_Label:* IRI\_AVG  
*Attribute\_Definition:* Average IRI  
*Attribute\_Definition\_Source:* Contractor Post-processing

*Attribute:*

*Attribute\_Label:* IRI\_SD  
*Attribute\_Definition:* IRI Standard Deviation  
*Attribute\_Definition\_Source:* Contractor Post-processing

*Attribute:*

*Attribute\_Label:* IRI\_L  
*Attribute\_Definition:* Left wheel path IRI  
*Attribute\_Definition\_Source:* ARAN Data Collection

*Attribute:*

*Attribute\_Label:* IRI\_R  
*Attribute\_Definition:* Right wheel path IRI  
*Attribute\_Definition\_Source:* ARAN Data Collection

*Attribute:*

*Attribute\_Label:* IRI\_FLAG  
*Attribute\_Definition:* -1 if invalid IRI data  
*Attribute\_Definition\_Source:* Contractor Post-processing

*Attribute:*

*Attribute\_Label:* RUT\_INDEX  
*Attribute\_Definition:* Rut index  
*Attribute\_Definition\_Source:* Contractor Post-processing

*Attribute:*

*Attribute\_Label:* RUT\_AVG  
*Attribute\_Definition:* Average rut depth of both wheelpaths  
*Attribute\_Definition\_Source:* Contractor Post-processing

*Attribute:**Attribute\_Label:* RUT\_MAX*Attribute\_Definition:* Maximum rut depth of both wheelpaths*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* RUT\_SD*Attribute\_Definition:* Rut depth standard deviation*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* RUT\_LOW*Attribute\_Definition:*

Percent of low severity ruts (on a 0-200% scale) in both wheelpaths

*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* RUT\_MED*Attribute\_Definition:*

Percent of medium severity ruts (on a 0-200% scale) in both wheelpaths

*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* RUT\_HI*Attribute\_Definition:*

Percent of high severity ruts (on a 0-200% scale) in both wheelpaths

*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* XFALL*Attribute\_Definition:* Cross fall at start of road interval*Attribute\_Definition\_Source:* ARAN Data Collection*Attribute:**Attribute\_Label:* GRADE*Attribute\_Definition:* Grade at start of road interval*Attribute\_Definition\_Source:* ARAN Data Collection*Attribute:**Attribute\_Label:* AC\_INDEX*Attribute\_Definition:* Alligator cracking index*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* AC\_LOW*Attribute\_Definition:*

Percent of WiseCrax measured lane area with low-severity alligator cracking

*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* AC\_MED*Attribute\_Definition:*

Percent of WiseCrax measured lane area with medium-severity alligator cracking

*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* AC\_HI*Attribute\_Definition:*

Percent of WiseCrax measured lane area with high-severity alligator cracking

*Attribute\_Definition\_Source:* Contractor Post-processing

*Attribute:**Attribute\_Label:* LC\_INDEX*Attribute\_Definition:* Longitudinal cracking index*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* LC\_LOW*Attribute\_Definition:*

Low-severity longitudinal cracking in lane as a percentage of road interval length

*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* LC\_MED*Attribute\_Definition:*

Medium-severity longitudinal cracking in lane as a percentage of road interval length

*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* LC\_HI*Attribute\_Definition:*

High-severity longitudinal cracking in lane as a percentage of road interval length

*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* TC\_INDEX*Attribute\_Definition:* Transverse cracking index*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* TC\_LOW*Attribute\_Definition:*

Count of low-severity transverse cracks, where one crack unit equals the WiseCrax measured land width

*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* TC\_MED*Attribute\_Definition:*

Count of medium-severity transverse cracks, where one crack unit equals the WiseCrax measured land width

*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* TC\_HI*Attribute\_Definition:*

Count of high-severity transverse cracks, where one crack unit equals the WiseCrax measured land width

*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* PATCH\_INDE*Attribute\_Definition:* Patching index*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* PATCHING*Attribute\_Definition:* Percent of WiseCrax measured lane area affected by patching



*Attribute\_Definition\_Source*: Contractor Post-processing  
*Attribute*:  
*Attribute\_Label*: GPS\_LAT  
*Attribute\_Definition*: Latitude coordinate  
*Attribute\_Definition\_Source*: ARAN Data Collection  
*Attribute*:  
*Attribute\_Label*: GPS\_LON  
*Attribute\_Definition*: Longitude coordinate  
*Attribute\_Definition\_Source*: ARAN Data Collection  
*Attribute*:  
*Attribute\_Label*: GPS\_ELEV  
*Attribute\_Definition*: Elevation  
*Attribute\_Definition\_Source*: ARAN Data Collection  
*Attribute*:  
*Attribute\_Label*: GPS\_MODE  
*Attribute\_Definition*: GPS mode during collection  
*Attribute\_Definition\_Source*: ARAN Data Collection  
*Attribute*:  
*Attribute\_Label*: VIDEO  
*Attribute\_Definition*: Removable USB video hard drive number  
*Attribute\_Definition\_Source*: Contractor Post-processing  
*Attribute*:  
*Attribute\_Label*: IMAGE  
*Attribute\_Definition*: Filename of .jpg image showing road interval  
*Attribute\_Definition\_Source*: Contractor Post-processing  
*Attribute*:  
*Attribute\_Label*: SPEED  
*Attribute\_Definition*: Average ARAN speed during data collection  
*Attribute\_Definition\_Source*: ARAN Data Collection  
*Attribute*:  
*Attribute\_Label*: BRIDGE\_FL  
*Attribute\_Definition*: Flag indicating presence of bridge in interval  
*Attribute\_Definition\_Source*: ARAN Data Collection  
*Attribute*:  
*Attribute\_Label*: CONSTR\_FL  
*Attribute\_Definition*: Flag indicating construction in interval  
*Attribute\_Definition\_Source*: ARAN Data Collection  
*Attribute*:  
*Attribute\_Label*: LANEDEV\_FL  
*Attribute\_Definition*: Flag indicating lane deviation in interval  
*Attribute\_Definition\_Source*: ARAN Data Collection  
*Attribute*:  
*Attribute\_Label*: DATE  
*Attribute\_Definition*: Data collection date  
*Attribute\_Definition\_Source*: ARAN Data Collection  
*Attribute*:  
*Attribute\_Label*: NODISTRESS  
*Attribute\_Definition*: Flag indicating absence of pavement distress  
*Attribute\_Definition\_Source*: Contractor Post-processing  
*Attribute*:  
*Attribute\_Label*: FILENAME

*Attribute\_Definition:* Filename of raw data files  
*Attribute\_Definition\_Source:* ARAN Data Collection

*Attribute:*

*Attribute\_Label:* SECTION  
*Attribute\_Definition:* route section ID  
*Attribute\_Definition\_Source:* Route ID Meeting / ARAN Data Collection

*Attribute:*

*Attribute\_Label:* FKEY  
*Attribute\_Definition:* Unique record ID  
*Attribute\_Definition\_Source:* Contractor Post-processing

*Attribute:*

*Attribute\_Label:* VISI\_FROM  
*Attribute\_Definition:* Raw MP of first video frame in section  
*Attribute\_Definition\_Source:* Contractor Post-processing

*Attribute:*

*Attribute\_Label:* VISI\_TO  
*Attribute\_Definition:* Raw MP of last video frame in section  
*Attribute\_Definition\_Source:* Contractor Post-processing

*Attribute:*

*Attribute\_Label:* IDKEY  
*Attribute\_Definition:* Unique record ID used by VisiData  
*Attribute\_Definition\_Source:* Contractor Post-processing

*Attribute:*

*Attribute\_Label:* MP\_REF  
*Attribute\_Definition:* Range of mileage to play in VisiData  
*Attribute\_Definition\_Source:* Contractor Post-processing

---

*Distribution\_Information:*

*Resource\_Description:* Downloadable Data

*Standard\_Order\_Process:*

*Digital\_Form:*

*Digital\_Transfer\_Information:*

*Transfer\_Size:* 0.030

---

*Metadata\_Reference\_Information:*

*Metadata\_Date:* 20051220

*Metadata\_Contact:*

*Contact\_Information:*

*Contact\_Organization\_Primary:*

*Contact\_Organization:* EFLHD Sterling

*Contact\_Person:* Dan VanGilder

*Contact\_Position:* GIS Coordinator

*Contact\_Address:*

*Address\_Type:* mailing and physical address

*Address:* 21400 Ridgetop Circle

*City:* Sterling

*State\_or\_Province:* Virginia

*Postal\_Code:* 20166

*Country:* United States

*Contact\_Voice\_Telephone:* 703-404-6361

*Contact\_Electronic\_Mail\_Address:* dvangilder@fhwa.dot.gov

*Metadata\_Standard\_Name:* FGDC Content Standards for Digital Geospatial Metadata

*Metadata\_Standard\_Version:* FGDC-STD-001-1998

*Metadata\_Time\_Convention:* local time

*Metadata\_Extensions:*

*Online\_Linkage:* <<http://www.esri.com/metadata/esriprof80.html>>

*Profile\_Name:* ESRI Metadata Profile

---

Generated by [mp](#) version 2.7.33 on Tue Dec 20 08:58:25 2005

# CACH\_mrl\_03\_map

Metadata also available as

## Metadata:

- [Identification Information](#)
  - [Data Quality Information](#)
  - [Spatial Data Organization Information](#)
  - [Spatial Reference Information](#)
  - [Entity and Attribute Information](#)
  - [Distribution Information](#)
  - [Metadata Reference Information](#)
- 

### *Identification\_Information:*

#### *Citation:*

##### *Citation\_Information:*

*Originator:* Eastern Federal Lands Highway Division

*Publication\_Date:* Published Materials

*Title:* CACH\_mrl\_03\_map

*Geospatial\_Data\_Presentation\_Form:* vector digital data

*Online\_Linkage:* Not Available

#### *Description:*

*Abstract:* Copy of Manually Rated Roads - Lines

*Purpose:* Road Inventory Program

##### *Supplemental\_Information:*

This shapefile is a copy of the source manually rated lines shapefile. The features are edited as needed for graphic purposes.

#### *Time\_Period\_of\_Content:*

##### *Time\_Period\_Information:*

##### *Single\_Date/Time:*

*Calendar\_Date:* 1/4/2000

*Currentness\_Reference:* ground condition

#### *Status:*

*Progress:* Complete

*Maintenance\_and\_Update\_Frequency:* As per RIP cycle

#### *Spatial\_Domain:*

##### *Bounding\_Coordinates:*

*West\_Bounding\_Coordinate:* -109.541049

*East\_Bounding\_Coordinate:* -109.537735

*North\_Bounding\_Coordinate:* 36.151023

*South\_Bounding\_Coordinate:* 36.144134

#### *Keywords:*

##### *Theme:*

*Theme\_Keyword\_Thesaurus:* CACH

*Theme\_Keyword:* CACH

*Access\_Constraints:* None

*Use\_Constraints:* Redistribution needs permission from EFLHD/NPS

*Point\_of\_Contact:*

*Contact\_Information:*

*Contact\_Person\_Primary:*

*Contact\_Person:* Dan VanGilder

*Contact\_Organization:* EFLHD

*Contact\_Position:* GIS Coordinator

*Contact\_Address:*

*Address\_Type:* mailing and physical address

*Address:* 21400 Ridgetop Circle

*City:* Sterling

*State\_or\_Province:* Virginia

*Postal\_Code:* 20166

*Country:* United States

*Contact\_Voice\_Telephone:* 703-404-6361

*Contact\_Electronic\_Mail\_Address:* dvangilder@fhwa.dot.gov

*Native\_Data\_Set\_Environment:*

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog  
8.3.0.800

---

*Data\_Quality\_Information:*

*Attribute\_Accuracy:*

*Attribute\_Accuracy\_Report:* Good

*Completeness\_Report:* Complete for parking areas

*Lineage:*

*Source\_Information:*

*Type\_of\_Source\_Media:* GPS

---

*Spatial\_Data\_Organization\_Information:*

*Direct\_Spatial\_Reference\_Method:* Vector

*Point\_and\_Vector\_Object\_Information:*

*SDTS\_Terms\_Description:*

*SDTS\_Point\_and\_Vector\_Object\_Type:* String

*Point\_and\_Vector\_Object\_Count:* 2

---

*Spatial\_Reference\_Information:*

*Horizontal\_Coordinate\_System\_Definition:*

*Geographic:*

*Latitude\_Resolution:* 0.000000

*Longitude\_Resolution:* 0.000000

*Geographic\_Coordinate\_Units:* Decimal degrees

*Geodetic\_Model:*

*Horizontal\_Datum\_Name:* North American Datum of 1927

*Ellipsoid\_Name:* Clarke 1866

*Semi-major\_Axis:* 6378206.400000

*Denominator\_of\_Flattening\_Ratio:* 294.978698

---

*Entity\_and\_Attribute\_Information:*

*Detailed\_Description:*

*Entity\_Type:*

*Entity\_Type\_Label:* CACH\_mrl\_03\_map

*Entity\_Type\_Definition\_Source:* GPS

*Attribute:*

*Attribute\_Label:* FID

*Attribute\_Definition:* Internal feature number.

*Attribute\_Definition\_Source:* ESRI

*Attribute\_Domain\_Values:*

*Enumerated\_Domain:*

*Unrepresentable\_Domain:*

Sequential unique whole numbers that are automatically generated.

*Attribute:*

*Attribute\_Label:* Shape

*Attribute\_Definition:* Feature geometry.

*Attribute\_Definition\_Source:* ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* Coordinates defining the features.

*Attribute:*

*Attribute\_Label:* PARK\_ALPHA

*Attribute\_Definition:* Park alpha code

*Attribute\_Definition\_Source:* Route ID Meeting

*Attribute:*

*Attribute\_Label:* RTE\_NO

*Attribute\_Definition:* Route Number

*Attribute\_Definition\_Source:* Route ID Meeting

*Attribute:*

*Attribute\_Label:* RTE\_NAME

*Attribute\_Definition:* Route Name

*Attribute\_Definition\_Source:* Route ID Meeting

*Attribute:*

*Attribute\_Label:* SECTION\_

*Attribute\_Definition:* Route Section ID

*Attribute\_Definition\_Source:* Route ID Meeting / ARAN Data Collection

*Attribute:*

*Attribute\_Label:* SURF\_TYPE

*Attribute\_Definition:* Surface type of route

*Attribute\_Definition\_Source:* ARAN Data Collection

*Attribute:*

*Attribute\_Label:* CONDITION

*Attribute\_Definition:* Condition rating

*Attribute\_Domain\_Values:*

*Attribute:*

*Attribute\_Label:* COMMENT

*Attribute\_Definition:* Field comment

*Attribute:*



*Attribute\_Label:* GPS\_DATE

*Attribute\_Definition:* Date of GPS Collection

*Attribute:*

*Attribute\_Label:* DATAFILE

*Attribute:*

*Attribute\_Label:* PAVED\_MI

*Attribute\_Definition:* Width of the paved area

*Attribute:*

*Attribute\_Label:* PAVED\_MI

*Attribute\_Definition:* Calculated paved miles

---

*Distribution\_Information:*

*Resource\_Description:* Downloadable Data

*Standard\_Order\_Process:*

*Digital\_Form:*

*Digital\_Transfer\_Information:*

*Transfer\_Size:* 0.037

---

*Metadata\_Reference\_Information:*

*Metadata\_Date:* 20051220

*Metadata\_Contact:*

*Contact\_Information:*

*Contact\_Organization\_Primary:*

*Contact\_Organization:* EFLHD Sterling

*Contact\_Person:* Dan VanGilder

*Contact\_Position:* GIS Coordinator

*Contact\_Address:*

*Address\_Type:* mailing and physical address

*Address:* 21400 Ridgetop Circle

*City:* Sterling

*State\_or\_Province:* Virginia

*Postal\_Code:* 20166

*Country:* United States

*Contact\_Voice\_Telephone:* 703-404-6361

*Contact\_Electronic\_Mail\_Address:* dvangilder@fhwa.dot.gov

*Metadata\_Standard\_Name:* FGDC Content Standards for Digital Geospatial Metadata

*Metadata\_Standard\_Version:* FGDC-STD-001-1998

*Metadata\_Time\_Convention:* local time

*Metadata\_Extensions:*

*Online\_Linkage:* <<http://www.esri.com/metadata/esriprof80.html>>

*Profile\_Name:* ESRI Metadata Profile

---

Generated by [mp](#) version 2.7.33 on Tue Dec 20 08:57:30 2005

# CACH\_mrl\_03

Metadata also available as

## Metadata:

- [Identification Information](#)
  - [Data Quality Information](#)
  - [Spatial Data Organization Information](#)
  - [Spatial Reference Information](#)
  - [Entity and Attribute Information](#)
  - [Distribution Information](#)
  - [Metadata Reference Information](#)
- 

### *Identification\_Information:*

#### *Citation:*

##### *Citation\_Information:*

*Originator:* Eastern Federal Lands Highway Division

*Publication\_Date:* Published Materials

*Title:* CACH\_mrl\_03

*Geospatial\_Data\_Presentation\_Form:* vector digital data

*Online\_Linkage:* Not Available

#### *Description:*

*Abstract:* Manually Rated Roads - Lines

*Purpose:* Road Inventory Program

#### *Time\_Period\_of\_Content:*

##### *Time\_Period\_Information:*

##### *Single\_Date/Time:*

*Calendar\_Date:* 1/4/2000

*Currentness\_Reference:* ground condition

#### *Status:*

*Progress:* Complete

*Maintenance\_and\_Update\_Frequency:* As per RIP cycle

#### *Spatial\_Domain:*

##### *Bounding\_Coordinates:*

*West\_Bounding\_Coordinate:* -109.541288

*East\_Bounding\_Coordinate:* -109.537735

*North\_Bounding\_Coordinate:* 36.151083

*South\_Bounding\_Coordinate:* 36.144134

#### *Keywords:*

##### *Theme:*

*Theme\_Keyword\_Thesaurus:* CACH

*Theme\_Keyword:* CACH

*Access\_Constraints:* None

*Use\_Constraints:* Redistribution needs permission from EFLHD/NPS

#### *Point\_of\_Contact:*

##### *Contact\_Information:*

*Contact\_Person\_Primary:**Contact\_Person:* Dan VanGilder*Contact\_Organization:* EFLHD*Contact\_Position:* GIS Coordinator*Contact\_Address:**Address\_Type:* mailing and physical address*Address:* 21400 Ridgetop Circle*City:* Sterling*State\_or\_Province:* Virginia*Postal\_Code:* 20166*Country:* United States*Contact\_Voice\_Telephone:* 703-404-6361*Contact\_Electronic\_Mail\_Address:* dvangilder@fhwa.dot.gov*Native\_Data\_Set\_Environment:*Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog  
8.3.0.800

---

*Data\_Quality\_Information:**Attribute\_Accuracy:**Attribute\_Accuracy\_Report:* Good*Completeness\_Report:* Complete for parking areas*Lineage:**Source\_Information:**Type\_of\_Source\_Media:* GPS

---

*Spatial\_Data\_Organization\_Information:**Direct\_Spatial\_Reference\_Method:* Vector*Point\_and\_Vector\_Object\_Information:**SDTS\_Terms\_Description:**SDTS\_Point\_and\_Vector\_Object\_Type:* String*Point\_and\_Vector\_Object\_Count:* 2

---

*Spatial\_Reference\_Information:**Horizontal\_Coordinate\_System\_Definition:**Geographic:**Latitude\_Resolution:* 0.000000*Longitude\_Resolution:* 0.000000*Geographic\_Coordinate\_Units:* Decimal degrees*Geodetic\_Model:**Horizontal\_Datum\_Name:* North American Datum of 1927*Ellipsoid\_Name:* Clarke 1866*Semi-major\_Axis:* 6378206.400000*Denominator\_of\_Flattening\_Ratio:* 294.978698

*Entity\_and\_Attribute\_Information:**Detailed\_Description:**Entity\_Type:**Entity\_Type\_Label:* CACH\_mrl\_03*Entity\_Type\_Definition\_Source:* GPS*Attribute:**Attribute\_Label:* FID*Attribute\_Definition:* Internal feature number.*Attribute\_Definition\_Source:* ESRI*Attribute\_Domain\_Values:**Enumerated\_Domain:**Unrepresentable\_Domain:*

Sequential unique whole numbers that are automatically generated.

*Attribute:**Attribute\_Label:* Shape*Attribute\_Definition:* Feature geometry.*Attribute\_Definition\_Source:* ESRI*Attribute\_Domain\_Values:**Unrepresentable\_Domain:* Coordinates defining the features.*Attribute:**Attribute\_Label:* PARK\_ALPHA*Attribute\_Definition:* Park alpha code*Attribute\_Definition\_Source:* Route ID Meeting*Attribute:**Attribute\_Label:* RTE\_NO*Attribute\_Definition:* Route Number*Attribute\_Definition\_Source:* Route ID Meeting*Attribute:**Attribute\_Label:* RTE\_NAME*Attribute\_Definition:* Route Name*Attribute\_Definition\_Source:* Route ID Meeting*Attribute:**Attribute\_Label:* SECTION\_*Attribute\_Definition:* Route Section ID*Attribute\_Definition\_Source:* Route ID Meeting / ARAN Data Collection*Attribute:**Attribute\_Label:* SURF\_TYPE*Attribute\_Definition:* Surface type of route*Attribute\_Definition\_Source:* ARAN Data Collection*Attribute:**Attribute\_Label:* CONDITION*Attribute\_Definition:* Condition rating*Attribute\_Domain\_Values:**Attribute:**Attribute\_Label:* COMMENT*Attribute\_Definition:* Field comment*Attribute:**Attribute\_Label:* GPS\_DATE*Attribute\_Definition:* Date of GPS Collection*Attribute:**Attribute\_Label:* DATAFILE

*Attribute:**Attribute\_Label:* PAVED\_MI*Attribute\_Definition:* Width of the paved area*Attribute:**Attribute\_Label:* PAVED\_MI*Attribute\_Definition:* Calculated paved miles

---

*Distribution\_Information:**Resource\_Description:* Downloadable Data*Standard\_Order\_Process:**Digital\_Form:**Digital\_Transfer\_Information:**Transfer\_Size:* 0.037

---

*Metadata\_Reference\_Information:**Metadata\_Date:* 20051220*Metadata\_Contact:**Contact\_Information:**Contact\_Organization\_Primary:**Contact\_Organization:* EFLHD Sterling*Contact\_Person:* Dan VanGilder*Contact\_Position:* GIS Coordinator*Contact\_Address:**Address\_Type:* mailing and physical address*Address:* 21400 Ridgetop Circle*City:* Sterling*State\_or\_Province:* Virginia*Postal\_Code:* 20166*Country:* United States*Contact\_Voice\_Telephone:* 703-404-6361*Contact\_Electronic\_Mail\_Address:* dvangilder@fhwa.dot.gov*Metadata\_Standard\_Name:* FGDC Content Standards for Digital Geospatial Metadata*Metadata\_Standard\_Version:* FGDC-STD-001-1998*Metadata\_Time\_Convention:* local time*Metadata\_Extensions:**Online\_Linkage:* <<http://www.esri.com/metadata/esriprof80.html>>*Profile\_Name:* ESRI Metadata Profile

---

Generated by [mp](#) version 2.7.33 on Tue Dec 20 08:57:15 2005

# cach\_pkg\_03\_map

Metadata also available as

## Metadata:

- [Identification Information](#)
  - [Data Quality Information](#)
  - [Spatial Data Organization Information](#)
  - [Spatial Reference Information](#)
  - [Entity and Attribute Information](#)
  - [Distribution Information](#)
  - [Metadata Reference Information](#)
- 

### *Identification\_Information:*

#### *Citation:*

##### *Citation\_Information:*

*Originator:* Eastern Federal Lands Highway Division

*Publication\_Date:* Unknown

*Title:* cach\_pkg\_03\_map

*Geospatial\_Data\_Presentation\_Form:* vector digital data

*Online\_Linkage:* Not Available

#### *Description:*

*Abstract:* Copy of Parking Areas

*Purpose:* Road Inventory Program

##### *Supplemental\_Information:*

This shapefile is a copy of the source parking shapefile. The features are edited as needed for graphic purposes.

#### *Time\_Period\_of\_Content:*

##### *Time\_Period\_Information:*

##### *Single\_Date/Time:*

*Calendar\_Date:* 1/4/2000

*Currentness\_Reference:* ground condition

#### *Status:*

*Progress:* Complete

*Maintenance\_and\_Update\_Frequency:* As per RIP cycle

#### *Spatial\_Domain:*

##### *Bounding\_Coordinates:*

*West\_Bounding\_Coordinate:* -109.540825

*East\_Bounding\_Coordinate:* -109.356159

*North\_Bounding\_Coordinate:* 36.238830

*South\_Bounding\_Coordinate:* 36.103042

#### *Keywords:*

##### *Theme:*

*Theme\_Keyword\_Thesaurus:* CACH

*Theme\_Keyword:* CACH

*Access\_Constraints:* None



*Use\_Constraints:* Redistribution needs permission from EFLHD/NPS

*Point\_of\_Contact:*

*Contact\_Information:*

*Contact\_Person\_Primary:*

*Contact\_Person:* Dan VanGilder

*Contact\_Organization:* EFLHD

*Contact\_Position:* GIS Coordinator

*Contact\_Address:*

*Address\_Type:* mailing and physical address

*Address:* 21400 Ridgetop Circle

*City:* Sterling

*State\_or\_Province:* Virginia

*Postal\_Code:* 20166

*Country:* United States

*Contact\_Voice\_Telephone:* 703-404-6361

*Contact\_Electronic\_Mail\_Address:* dvangilder@fhwa.dot.gov

*Native\_Data\_Set\_Environment:*

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 8.3.0.800

---

*Data\_Quality\_Information:*

*Attribute\_Accuracy:*

*Attribute\_Accuracy\_Report:* Good

*Completeness\_Report:* Complete for parking areas

*Lineage:*

*Source\_Information:*

*Type\_of\_Source\_Media:* GPS

---

*Spatial\_Data\_Organization\_Information:*

*Direct\_Spatial\_Reference\_Method:* Vector

*Point\_and\_Vector\_Object\_Information:*

*SDTS\_Terms\_Description:*

*SDTS\_Point\_and\_Vector\_Object\_Type:* G-polygon

*Point\_and\_Vector\_Object\_Count:* 15

---

*Spatial\_Reference\_Information:*

*Horizontal\_Coordinate\_System\_Definition:*

*Geographic:*

*Latitude\_Resolution:* 0.000000

*Longitude\_Resolution:* 0.000000

*Geographic\_Coordinate\_Units:* Decimal degrees

*Geodetic\_Model:*

*Horizontal\_Datum\_Name:* North American Datum of 1927

*Ellipsoid\_Name:* Clarke 1866

*Semi-major\_Axis:* 6378206.400000

*Denominator\_of\_Flattening\_Ratio:* 294.978698

---

*Entity\_and\_Attribute\_Information:*

*Detailed\_Description:*

*Entity\_Type:*

*Entity\_Type\_Label:* cach\_pkg\_03\_map

*Attribute:*

*Attribute\_Label:* FID

*Attribute\_Definition:* Internal feature number.

*Attribute\_Definition\_Source:* ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:*

Sequential unique whole numbers that are automatically generated.

*Attribute:*

*Attribute\_Label:* Shape

*Attribute\_Definition:* Feature geometry.

*Attribute\_Definition\_Source:* ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* Coordinates defining the features.

*Attribute:*

*Attribute\_Label:* PARK\_ALPHA

*Attribute\_Definition:* Park alpha code

*Attribute\_Definition\_Source:* Route ID Meeting

*Attribute:*

*Attribute\_Label:* RTE\_NO

*Attribute\_Definition:* Route number

*Attribute\_Definition\_Source:* Route ID Meeting

*Attribute:*

*Attribute\_Label:* RTE\_NAME

*Attribute\_Definition:* Route name

*Attribute\_Definition\_Source:* Route ID Meeting

*Attribute:*

*Attribute\_Label:* FEATURE

*Attribute:*

*Attribute\_Label:* SURF\_TYPE

*Attribute\_Definition:* Surface type of route

*Attribute\_Domain\_Values:*

*Attribute:*

*Attribute\_Label:* CONDITION

*Attribute\_Definition:* Condition rating for route

*Attribute:*

*Attribute\_Label:* PHOTOS

*Attribute\_Definition:* Photo filename associated with feature

*Attribute:*

*Attribute\_Label:* COMMENT

*Attribute\_Definition:* Field comment

*Attribute:*

*Attribute\_Label:* GPS\_DATE

*Attribute\_Definition:* Date of GPS collection

*Attribute:**Attribute\_Label:* DATAFILE*Attribute:**Attribute\_Label:* SQ\_FT*Attribute\_Definition:* Feature area in square feet

---

*Distribution\_Information:**Resource\_Description:* Downloadable Data*Standard\_Order\_Process:**Digital\_Form:**Digital\_Transfer\_Information:**Transfer\_Size:* 0.018

---

*Metadata\_Reference\_Information:**Metadata\_Date:* 20051220*Metadata\_Contact:**Contact\_Information:**Contact\_Organization\_Primary:**Contact\_Organization:* EFLHD Sterling*Contact\_Person:* Dan VanGilder*Contact\_Position:* GIS Coordinator*Contact\_Address:**Address\_Type:* mailing and physical address*Address:* 21400 Ridgetop Circle*City:* Sterling*State\_or\_Province:* Virginia*Postal\_Code:* 20166*Country:* United States*Contact\_Voice\_Telephone:* 703-404-6361*Contact\_Electronic\_Mail\_Address:* dvangilder@fhwa.dot.gov*Metadata\_Standard\_Name:* FGDC Content Standards for Digital Geospatial Metadata*Metadata\_Standard\_Version:* FGDC-STD-001-1998*Metadata\_Time\_Convention:* local time*Metadata\_Extensions:**Online\_Linkage:* <<http://www.esri.com/metadata/esriprof80.html>>*Profile\_Name:* ESRI Metadata Profile

---

Generated by [mp](#) version 2.7.33 on Tue Dec 20 08:57:58 2005

# cach\_pkg\_03

Metadata also available as

## Metadata:

- [Identification Information](#)
  - [Data Quality Information](#)
  - [Spatial Data Organization Information](#)
  - [Spatial Reference Information](#)
  - [Entity and Attribute Information](#)
  - [Distribution Information](#)
  - [Metadata Reference Information](#)
- 

### *Identification\_Information:*

#### *Citation:*

##### *Citation\_Information:*

*Originator:* Eastern Federal Lands Highway Division

*Publication\_Date:* Unknown

*Title:* cach\_pkg\_03

*Geospatial\_Data\_Presentation\_Form:* vector digital data

*Online\_Linkage:* Not Available

#### *Description:*

*Abstract:* Parking Areas

*Purpose:* Road Inventory Program

#### *Time\_Period\_of\_Content:*

##### *Time\_Period\_Information:*

##### *Single\_Date/Time:*

*Calendar\_Date:* 1/4/2000

*Currentness\_Reference:* ground condition

#### *Status:*

*Progress:* Complete

*Maintenance\_and\_Update\_Frequency:* As per RIP cycle

#### *Spatial\_Domain:*

##### *Bounding\_Coordinates:*

*West\_Bounding\_Coordinate:* -109.540825

*East\_Bounding\_Coordinate:* -109.356159

*North\_Bounding\_Coordinate:* 36.238830

*South\_Bounding\_Coordinate:* 36.103042

#### *Keywords:*

##### *Theme:*

*Theme\_Keyword\_Thesaurus:* CACH

*Theme\_Keyword:* CACH

*Access\_Constraints:* None

*Use\_Constraints:* Redistribution needs permission from EFLHD/NPS

#### *Point\_of\_Contact:*

##### *Contact\_Information:*

*Contact\_Person\_Primary:**Contact\_Person:* Dan VanGilder*Contact\_Organization:* EFLHD*Contact\_Position:* GIS Coordinator*Contact\_Address:**Address\_Type:* mailing and physical address*Address:* 21400 Ridgetop Circle*City:* Sterling*State\_or\_Province:* Virginia*Postal\_Code:* 20166*Country:* United States*Contact\_Voice\_Telephone:* 703-404-6361*Contact\_Electronic\_Mail\_Address:* dvangilder@fhwa.dot.gov*Native\_Data\_Set\_Environment:*

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 8.3.0.800

---

*Data\_Quality\_Information:**Attribute\_Accuracy:**Attribute\_Accuracy\_Report:* Good*Completeness\_Report:* Complete for parking areas*Lineage:**Source\_Information:**Type\_of\_Source\_Media:* GPS

---

*Spatial\_Data\_Organization\_Information:**Direct\_Spatial\_Reference\_Method:* Vector*Point\_and\_Vector\_Object\_Information:**SDTS\_Terms\_Description:**SDTS\_Point\_and\_Vector\_Object\_Type:* G-polygon*Point\_and\_Vector\_Object\_Count:* 15

---

*Spatial\_Reference\_Information:**Horizontal\_Coordinate\_System\_Definition:**Geographic:**Latitude\_Resolution:* 0.000000*Longitude\_Resolution:* 0.000000*Geographic\_Coordinate\_Units:* Decimal degrees*Geodetic\_Model:**Horizontal\_Datum\_Name:* North American Datum of 1927*Ellipsoid\_Name:* Clarke 1866*Semi-major\_Axis:* 6378206.400000*Denominator\_of\_Flattening\_Ratio:* 294.978698

*Entity\_and\_Attribute\_Information:**Detailed\_Description:**Entity\_Type:**Entity\_Type\_Label:* cach\_pkg\_03*Attribute:**Attribute\_Label:* FID*Attribute\_Definition:* Internal feature number.*Attribute\_Definition\_Source:* ESRI*Attribute\_Domain\_Values:**Unrepresentable\_Domain:*

Sequential unique whole numbers that are automatically generated.

*Attribute:**Attribute\_Label:* Shape*Attribute\_Definition:* Feature geometry.*Attribute\_Definition\_Source:* ESRI*Attribute\_Domain\_Values:**Unrepresentable\_Domain:* Coordinates defining the features.*Attribute:**Attribute\_Label:* PARK\_ALPHA*Attribute\_Definition:* Park alpha code*Attribute\_Definition\_Source:* Route ID Meeting*Attribute:**Attribute\_Label:* RTE\_NO*Attribute\_Definition:* Route number*Attribute\_Definition\_Source:* Route ID Meeting*Attribute:**Attribute\_Label:* RTE\_NAME*Attribute\_Definition:* Route name*Attribute\_Definition\_Source:* Route ID Meeting*Attribute:**Attribute\_Label:* FEATURE*Attribute:**Attribute\_Label:* SURF\_TYPE*Attribute\_Definition:* Surface type of route*Attribute\_Domain\_Values:**Attribute:**Attribute\_Label:* CONDITION*Attribute\_Definition:* Condition rating for route*Attribute:**Attribute\_Label:* PHOTOS*Attribute\_Definition:* Photo filename associated with feature*Attribute:**Attribute\_Label:* COMMENT*Attribute\_Definition:* Field comment*Attribute:**Attribute\_Label:* GPS\_DATE*Attribute\_Definition:* Date of GPS collection*Attribute:**Attribute\_Label:* DATAFILE*Attribute:**Attribute\_Label:* SQ\_FT



*Attribute\_Definition:* Feature area in square feet

---

*Distribution\_Information:*

*Resource\_Description:* Downloadable Data

*Standard\_Order\_Process:*

*Digital\_Form:*

*Digital\_Transfer\_Information:*

*Transfer\_Size:* 0.018

---

*Metadata\_Reference\_Information:*

*Metadata\_Date:* 20051220

*Metadata\_Contact:*

*Contact\_Information:*

*Contact\_Organization\_Primary:*

*Contact\_Organization:* EFLHD Sterling

*Contact\_Person:* Dan VanGilder

*Contact\_Position:* GIS Coordinator

*Contact\_Address:*

*Address\_Type:* mailing and physical address

*Address:* 21400 Ridgetop Circle

*City:* Sterling

*State\_or\_Province:* Virginia

*Postal\_Code:* 20166

*Country:* United States

*Contact\_Voice\_Telephone:* 703-404-6361

*Contact\_Electronic\_Mail\_Address:* dvangilder@fhwa.dot.gov

*Metadata\_Standard\_Name:* FGDC Content Standards for Digital Geospatial Metadata

*Metadata\_Standard\_Version:* FGDC-STD-001-1998

*Metadata\_Time\_Convention:* local time

*Metadata\_Extensions:*

*Online\_Linkage:* <<http://www.esri.com/metadata/esriprof80.html>>

*Profile\_Name:* ESRI Metadata Profile

---

Generated by [mp](#) version 2.7.33 on Tue Dec 20 08:57:45 2005

# cach\_mi

Metadata also available as

## Metadata:

- [Identification Information](#)
  - [Data Quality Information](#)
  - [Spatial Data Organization Information](#)
  - [Spatial Reference Information](#)
  - [Entity and Attribute Information](#)
  - [Distribution Information](#)
  - [Metadata Reference Information](#)
- 

### *Identification\_Information:*

#### *Citation:*

##### *Citation\_Information:*

*Originator:* The TSR Group

*Publication\_Date:* 2005

*Title:* cach\_mi

*Geospatial\_Data\_Presentation\_Form:* vector digital data

*Online\_Linkage:* Not Available

#### *Description:*

*Abstract:* Routes

*Purpose:* Road Inventory Program

##### *Supplemental\_Information:*

Data created by The TSR Group from GPS coordinates provided in the PMS\_20 table. The shapefile is processed to aggregate adjacent segments with the same PCR rating provided in the PMS\_mile table.

#### *Time\_Period\_of\_Content:*

##### *Time\_Period\_Information:*

##### *Single\_Date/Time:*

*Calendar\_Date:* 2005

*Currentness\_Reference:* ground condition

#### *Status:*

*Progress:* Complete

*Maintenance\_and\_Update\_Frequency:* As per RIP cycle

#### *Spatial\_Domain:*

##### *Bounding\_Coordinates:*

*West\_Bounding\_Coordinate:* -109.544121

*East\_Bounding\_Coordinate:* -109.356827

*North\_Bounding\_Coordinate:* 36.238995

*South\_Bounding\_Coordinate:* 36.070423

#### *Keywords:*

##### *Theme:*

*Theme\_Keyword\_Thesaurus:* CACH

*Theme\_Keyword:* CACH

*Access\_Constraints:* None

*Use\_Constraints:* Redistribution needs permission from EFLHD/NPS

*Point\_of\_Contact:*

*Contact\_Information:*

*Contact\_Person\_Primary:*

*Contact\_Person:* Dan VanGilder

*Contact\_Organization:* EFLHD

*Contact\_Position:* GIS Coordinator

*Contact\_Address:*

*Address\_Type:* mailing and physical address

*Address:* 21400 Ridgetop Circle

*City:* Sterling

*State\_or\_Province:* Virginia

*Postal\_Code:* 20166

*Country:* United States

*Contact\_Voice\_Telephone:* 703-404-6361

*Contact\_Electronic\_Mail\_Address:* dvangilder@fhwa.dot.gov

*Native\_Data\_Set\_Environment:*

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog  
8.3.0.800

---

*Data\_Quality\_Information:*

*Attribute\_Accuracy:*

*Attribute\_Accuracy\_Report:* Good

*Completeness\_Report:* Complete for routes

*Lineage:*

*Source\_Information:*

*Type\_of\_Source\_Media:* GPS

---

*Spatial\_Data\_Organization\_Information:*

*Direct\_Spatial\_Reference\_Method:* Vector

*Point\_and\_Vector\_Object\_Information:*

*SDTS\_Terms\_Description:*

*SDTS\_Point\_and\_Vector\_Object\_Type:* String

*Point\_and\_Vector\_Object\_Count:* 24

---

*Spatial\_Reference\_Information:*

*Horizontal\_Coordinate\_System\_Definition:*

*Geographic:*

*Latitude\_Resolution:* 0.000000

*Longitude\_Resolution:* 0.000000

*Geographic\_Coordinate\_Units:* Decimal degrees

*Geodetic\_Model:*

*Horizontal\_Datum\_Name:* North American Datum of 1927

*Ellipsoid\_Name:* Clarke 1866

*Semi-major\_Axis*: 6378206.400000  
*Denominator\_of\_Flattening\_Ratio*: 294.978698

---

*Entity\_and\_Attribute\_Information*:

*Detailed\_Description*:

*Entity\_Type*:

*Entity\_Type\_Label*: cach\_mi

*Attribute*:

*Attribute\_Label*: FID

*Attribute\_Definition*: Internal feature number.

*Attribute\_Definition\_Source*: ESRI

*Attribute\_Domain\_Values*:

*Unrepresentable\_Domain*:

Sequential unique whole numbers that are automatically generated.

*Attribute*:

*Attribute\_Label*: Shape

*Attribute\_Definition*: Feature geometry.

*Attribute\_Definition\_Source*: ESRI

*Attribute\_Domain\_Values*:

*Unrepresentable\_Domain*: Coordinates defining the features.

*Attribute*:

*Attribute\_Label*: FNODE\_

*Attribute\_Definition*: Length of feature

*Attribute\_Definition\_Source*: ESRI

*Attribute*:

*Attribute\_Label*: TNODE\_

*Attribute*:

*Attribute\_Label*: LPOLY\_

*Attribute\_Definition*: Route number

*Attribute\_Definition\_Source*: Route ID Meeting

*Attribute*:

*Attribute\_Label*: RPOLY\_

*Attribute\_Definition*: Collected route length

*Attribute\_Definition\_Source*: ARAN Data Collection

*Attribute*:

*Attribute\_Label*: LENGTH

*Attribute\_Definition*: Numeric PCR definition

*Attribute\_Domain\_Values*:

*Range\_Domain*:

*Range\_Domain\_Minimum*: 0

*Range\_Domain\_Maximum*: 100

*Attribute*:

*Attribute\_Label*: CACH\_MI\_

*Attribute\_Definition*: Verbal PCR definition

*Attribute\_Domain\_Values*:

*Enumerated\_Domain*:

*Enumerated\_Domain\_Value*: POOR

*Enumerated\_Domain\_Value\_Definition*: PCR value <= 60

*Enumerated\_Domain*:

*Enumerated\_Domain\_Value:* FAIR

*Enumerated\_Domain\_Value\_Definition:* PCR value 61-84

*Enumerated\_Domain:*

*Enumerated\_Domain\_Value:* GOOD

*Enumerated\_Domain\_Value\_Definition:* PCR value 85-94

*Enumerated\_Domain:*

*Enumerated\_Domain\_Value:* EXCELLENT

*Enumerated\_Domain\_Value\_Definition:* PCR value 95-100

*Attribute:*

*Attribute\_Label:* CACH\_MI\_ID

*Attribute\_Definition:* Indicates whether feature has been edited for graphic purposes.

*Attribute\_Domain\_Values:*

*Enumerated\_Domain:*

*Enumerated\_Domain\_Value:* 1

*Enumerated\_Domain\_Value\_Definition:* Edit has been made to feature for graphic purposes

*Enumerated\_Domain:*

*Enumerated\_Domain\_Value:* 0

*Enumerated\_Domain\_Value\_Definition:* No edit made to feature.

*Attribute:*

*Attribute\_Label:* ID

*Attribute:*

*Attribute\_Label:* RTE\_NO

*Attribute:*

*Attribute\_Label:* BMP

*Attribute:*

*Attribute\_Label:* EMP

*Attribute:*

*Attribute\_Label:* PCR

*Attribute:*

*Attribute\_Label:* PCR\_RATE

*Attribute:*

*Attribute\_Label:* RT\_LENGTH

*Attribute:*

*Attribute\_Label:* PCRMI

*Attribute:*

*Attribute\_Label:* PCR\_RATEMI

*Attribute:*

*Attribute\_Label:* PCR\_RATEAV

*Attribute:*

*Attribute\_Label:* PCRAV

*Distribution\_Information:*

*Resource\_Description:* Downloadable Data

*Standard\_Order\_Process:*

*Digital\_Form:*

*Digital\_Transfer\_Information:*

*Transfer\_Size:* 0.016

---

*Metadata\_Reference\_Information:**Metadata\_Date:* 20051220*Metadata\_Contact:**Contact\_Information:**Contact\_Organization\_Primary:**Contact\_Organization:* EFLHD Sterling*Contact\_Person:* Dan VanGilder*Contact\_Position:* GIS Coordinator*Contact\_Address:**Address\_Type:* mailing and physical address*City:* Sterling*State\_or\_Province:* Virginia*Postal\_Code:* 20166*Country:* United States*Contact\_Voice\_Telephone:* 703-404-6361*Contact\_Electronic\_Mail\_Address:* dvangilder@fhwa.dot.gov*Metadata\_Standard\_Name:* FGDC Content Standards for Digital Geospatial Metadata*Metadata\_Standard\_Version:* FGDC-STD-001-1998*Metadata\_Time\_Convention:* local time*Metadata\_Extensions:**Online\_Linkage:* <<http://www.esri.com/metadata/esriprof80.html>>*Profile\_Name:* ESRI Metadata Profile

---

Generated by [mp](#) version 2.7.33 on Tue Dec 20 08:58:13 2005